SCS ENGINEERS

2012 Annual Monitoring Report

Olympic View Sanitary Landfill (OVSL)

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1 INTRODUCTION

This report summarizes the results of the 2012 quarterly post-closure environmental monitoring conducted at the Olympic View Sanitary Landfill (OVSL. The OVSL is located in Bremerton, Washington. Monitoring events for the current reporting period were performed during March, June, September and December of the calendar year. Quarterly environmental monitoring at the OVSL includes sampling and analysis of groundwater, leachate pond leak detection liquid and landfill gas.

The current OVSL monitoring program meets the regulatory requirements for both corrective action and post-closure detection and assessment monitoring. Quarterly groundwater and landfill gas monitoring was performed at the facility in accordance with the OVSL Environmental Monitoring Plan (EMP, Engineering Management Support, Inc., 2009) and the site-specific Sampling and Analysis Plan (SCS Engineers, 2009). The plans were developed in consultation with the Washington Department of Ecology (Ecology) and reflect a refined understanding of the site conditions based on the results of a Remedial Investigation/Feasibility Study (RI/FS) per WAC 173-340 (the Model Toxics Control Act, MTCA). The OVSL monitoring program also meets the requirements of the Criteria for Municipal Solid Waste Landfills (WAC 173-351-430) which is administered by the Kitsap County Health District (KCHD). Leachate influent monitoring is also performed at the OVSL on an annual basis.

SCS Engineers (SCS) and SCS Field Services conducted quarterly environmental sampling at the OVSL during March 2012 through December 2012. The following detailed information for the quarterly monitoring activities is included in this report:

- Measurement of groundwater elevation at between 47 and 56 groundwater monitoring wells (discussed in detail in Section 3) at the OVSL;
- Collection of groundwater samples from between 19 and 22 monitoring wells (discussed in detail in Section 3);
- Collection of a leachate influent sample (during the fourth quarter, 2012 event);
- Quarterly collection of a leachate pond leak detection system sample;
- Laboratory analysis of groundwater, leachate influent, and leak detection samples; and
- Measurement of landfill gas concentrations at 10 perimeter gas monitoring probes and at 4 building monitoring locations.

This report provides:

- A brief site description and background section.
- A figure presenting the site location.
- A discussion of groundwater monitoring (including water level measurements), leachate monitoring and landfill gas monitoring activities. This section includes a

presentation of sample collection techniques. A site plan showing the groundwater monitoring well network and leachate monitoring stations is presented for reference. A second site plan illustrates the landfill gas probe and building monitoring locations. A groundwater well construction table and a summary of the analytical parameters included in the groundwater and leachate influent monitoring program are also presented.

- A discussion of the year's groundwater elevation data and a presentation of the year's groundwater and leachate analytical results and field parameters. This section includes a discussion of data quality assurance/quality control, summary tables (including a comparison of the reporting period's detected groundwater results to regulatory standards), contour maps depicting groundwater elevations and flow directions, and a hydrograph of the groundwater elevations at the OVSL for the 2012 reporting period. Groundwater flow rates are also calculated for the reporting period.
- Results of the November 2012 landfill gas monitoring event and a brief discussion of the 2012 landfill gas monitoring is included.
- 2012 groundwater and leachate monitoring field records including: December 2012 Groundwater Sampling Forms, Instrument Calibration Documentation Forms, and Records of Water Level Readings. November 2012 landfill gas monitoring: GEM Calibration and data forms. These documents are provided in Appendix A.
- Geochemical results are provided in Appendix B. This includes Cation/anion balance and Piper diagrams displaying the December 2012 results. Chemical concentration plots for selected analytes (arsenic, dissolved iron, dissolved manganese and vinyl chloride) are included for reference.
- A statistical evaluation of the 2012 reporting period groundwater monitoring results is provided along with times series graphs (presented in Appendix C). The statistical evaluation includes a comparison with background prediction limits, a comparison of monitoring results to cleanup levels for wells identified in the EMP for compliance and downgradient monitoring, and an analysis for significant increasing or decreasing parameter trends in all wells.
- December 2012 groundwater validation report and analytical laboratory reports (including Field Information Forms) are provided in Appendix D.
- Conclusions based on the data collected during the monitoring period, including a summary of the groundwater, leachate influent and leak detection and landfill gas results.

Groundwater geochemical results, groundwater and leachate influent data validation reports and analytical laboratory data reports (including Field Information Forms) for the first three quarters of the 2012 reporting year can be found in the respective quarterly monitoring reports for the OVSL. Similarly, landfill gas migration monitoring results for the first three quarters of the 2012 reporting year are reported separately in respective quarterly monitoring reports.

In order to conserve paper resources, the appendixes for the 2012 annual report are presented on a data CD attached to the rear cover of the document. However, for the convenience of the reviewer, hard copies of all the parameter time series diagrams showing statistically significant increasing or decreasing trends have been included under Appendix C.

2 SITE DESCRIPTION AND BACKGROUND

SITE LOCATION AND DESCRIPTION

The closed OVSL facility is located on approximately 436 acres in Sections 3 and 10, Township 23N, Range 1W of the Willamette Meridian, in Kitsap County, Washington. The facility is situated on an upland area approximately 10 miles southwest of the city of Bremerton. The facility address is 10015 SW Barney White Road, Port Orchard, Washington. The closed refuse fill area covers approximately 65 acres of the site. A site location map is shown on Figure 1. A site plan is presented on Figure 2.

The OVSL facility accepted municipal solid waste between 1967 and 2003. Landfill closure was completed in 2004, in accordance with Washington Administrative Code (WAC) 173-351. Landfill closure included construction of a landfill gas monitoring system, an active landfill gas collection and treatment system, a leachate collection and treatment system, a storm water drainage control system, and a final cover. The final cover consists of:

- 6-inch thick, low permeability soil,
- Geonet composite,
- 60-mil flexible membrane liner,
- 12-inch drainage layer,
- geotextile fabric, and
- 12-inches of vegetative topsoil and cover soil.

The active landfill gas collection system consists of a total of 81 well heads (69 vertical wells, 4 horizontal wells and 8 interconnections to the leachate collection system) connected to a gas treatment flare station. The leachate collection system consists of subgrade collection piping and a leachate collection lagoon. A storm water drainage control system controls storm water erosion and minimizes off-site migration of sediment-laden water. Drainage and erosion protection improvements include vegetation, a landfill toe under drain, down chutes, culverts, and drainage ditches.

TOPOGRAPHY AND CLIMATE

The site is located in the Southern Upland of the Kitsap Peninsula adjacent to the Union River-Gorst Creek trough. The site topography ranges from approximately 150 to 360 feet above mean sea level (msl). The land surface generally slopes to the west-southwest towards the Union River, which is located approximately a half mile west of the site.

Kitsap County's climate is characterized as maritime, with long, mild, wet winters and short, cool, dry summers. Climatically, and due to the local relief, there can be significant variations in total annual precipitation and average temperatures over short distances.

LOCAL AND REGIONAL HYDROGEOLOGY

The regional near-surface geology in the vicinity of the OVSL is dominated by glacio-fluvial and glacio-lacustrine deposits associated with the Vashon glaciation. The Remedial Investigation Report (Parametrix, 2007) identified the following main stratigraphic units at the Site: Organic Soils and Peat (Qw), Alluvium (Qal), Vashon Recessional Outwash (Qvr), Vashon Lacustrine Recessional Outwash (Qvrl), Vashon Till (Qvt), Vashon Advance Outwash (Qva), Vashon Advance Lacustrine Deposits (Qval), and Pre-Vashon Deposits (Qpvu). With the exception of the Vashon Till (which has not been confirmed to be present at the site), all of these units appear to be present beneath the OVSL.

Information provided in the site conceptual model indicates that organic soils/peat, alluvium, outwash, glacio-fluvial, glacio-lacustrine, and flood plain deposits outcrop along the west-central portions of the OVSL facility. Groundwater is present beneath the site at depths ranging between near-surface and approximately 80 feet below ground surface (bgs), or at elevations ranging between approximately 140 and 260 feet above msl. The groundwater flow direction beneath the landfill is generally toward the west.

3 2012 MONITORING ACTIVITIES

SUMMARY OF CURRENT GROUNDWATER MONITORING PROGRAM

Groundwater Monitoring Network

Quarterly groundwater monitoring is performed at the OVSL in accordance with the January 2001 Agreed Order and EMP as modified through recent technical discussions with Ecology. The monitoring also meets the post-closure landfill monitoring requirements under WAC 173-351-430. A sampling and analysis plan (SAP) describes the field monitoring program that is conducted at the OVSL. The current SAP (SCS, December 2009) reflects a refined understanding of the site conditions based on the results of the remedial investigation, and addresses future monitoring objectives (e.g. corrective action monitoring).

The groundwater monitoring network at the OVSL includes monitoring wells that are sampled quarterly or semi-annually, as well as those that are only used for water level measurement. The locations of the groundwater monitoring wells are illustrated on Figure 2. Completion details for the monitoring wells are provided on Table 1.

Of the 21 monitoring wells that were routinely sampled in 2012, four are upgradient wells (MW-13A, MW-13B, MW-16 and MW-35) and five are downgradient wells (MW-29A, MW-32, MW-33A, MW-33C and MW-36A). Six wells are compliance monitoring wells (MW-15R, MW-34A, MW-34C, MW-39, MW-42 and MW-43). Six are performance monitoring wells (MW-2B1, MW-4, MW-19C, MW-20, MW-23A and MW-24). The 2009 SAP provides detailed information regarding each of the different categories of monitoring wells that are routinely sampled for water quality at the OVSL. MW-9 was removed from the sampling program in 2012 with approval from the Department of Ecology.

Well completion depths range from approximately 9 to 230 feet below ground surface. Screen lengths vary from 5 to 20 feet, with most of the well screens being 10 feet in length. The “A” designations in these well names indicate relatively shallow monitoring well completions. The “C” designations indicate relatively deep monitoring well completions. The “B” designations are in-between (depth-wise).

Each of the groundwater monitoring wells designated for routine sampling is outfitted with a dedicated sampling pump (QED Well Wizard) suitable for low-flow purging and sampling. Use of this type of pumping apparatus helps minimize sampling artifacts as well as the potential for cross contamination between wells, and eliminates the need for decontamination of sampling pumps. Each dedicated bladder pump is positioned with its inlet located within the screened interval of the well. Well construction, development, and pump installation are reported in detail in the *Report of 2005 Gas Probe and Monitoring Well Installations at OVSL* (SCS Engineers, June 2006), the *Remedial Investigation Report, OVSL, Kitsap County (*Parametrix, *2007)* and the G*roundwater Monitoring Well Installation Report, OVSL* (SCS Engineers. April 2009).

Monitoring Schedule

Groundwater monitoring was conducted on a quarterly basis. The quarterly events were completed in March, June, September, and December 2012. In accordance with the SAP, monitoring wells MW-29A and MW-33A were sampled on a semi-annual basis during June and December 2012.

Groundwater Parameters and Analytical Methods

Table 2 summarizes the analytical parameters tested for during the 2012 groundwater monitoring period. The analytical parameters tested for during quarterly groundwater monitoring at the OVSL include the following Appendix I and II parameters:

Field Measurements: temperature, specific conductivity, pH, dissolved oxygen, turbidity, and static water level

Dissolved Metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc

Volatile Organic Compounds: (VOCs) as listed in WAC 173-351 Appendix I

Geochemical Indicator Parameters: chloride, sulfate, nitrate, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese

Leachate Indicator Parameters: ammonia, total organic carbon (TOC), and total dissolved solids (TDS)

Laboratory methods are those described in EPA publication number SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. All laboratory analyses were completed by TestAmerica labs in Denver, Colorado and Buffalo, New York; and by Analytical Resources Incorporated (ARI) in Tukwila, Washington. The laboratories are accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

Monitoring Well Purging and Sampling Procedures

Per the 2009 SAP, field activities consisted of: surveying well conditions; obtaining field measurements for water level elevation, pH, specific conductance, turbidity, temperature, and dissolved oxygen; collecting groundwater samples for laboratory analysis; and packaging and shipping the samples to the laboratories.

Prior to initiating well purge, static water level was measured and documented. Static groundwater level measurements were collected from the monitoring wells at the OVSL each quarter during the reporting period. Depth to water measurements (to the nearest 0.01 ft) were collected using an electronic water level indicator.

Nine wells (including, MW-9, MW-10, MW-12, MW-17, MW-18, MW-26, MW-28, MW-33B, MW-37)) could not be accessed for at least one quarter of 2012 due to access and safety limitations. Residual effects from previous onsite logging activities, downed trees due to storms, dense foliage, and road blockages may prevent water level measurements. All of the wells listed above are only used for water level measurements in order to supplement the quarterly determination of groundwater flow direction at the site. Before the June 2012 monitoring event, significant clearing was completed at the site. This allowed for greatly improved access during the Third and Fourth Quarter events.

Purging and sampling of the monitoring wells at the site was conducted using low-flow/low-volume well sampling techniques. Once the pumping was initiated, flow rate was confirmed by volumetric discharge measurement (by measuring the total volume discharged per cycle using a graduated cylinder and verifying the number of pump cycles per minute specified by the controller). Field instruments were calibrated in accordance with manufacturer's guidelines. Field measurements for pH, temperature, conductivity, dissolved oxygen, and turbidity were conducted using a closed, in-line flow-through cell and a turbidity meter. When water quality parameters stabilized and there had been no change in the pumping water level, sample collection began. Field information obtained during groundwater sampling was recorded on Field Information Forms included in Appendix A (for December 2012).

Non-disposable sampling equipment that was exposed to well water (water level probe) was decontaminated between wells. Decontamination of equipment was completed before leaving each well, therefore eliminating cross contamination. Disposable nitrile gloves were doffed after each use and prior to leaving each well.

SUMMARY OF CURRENT LEACHATE MONITORING PROGRAM

Leachate generated from three separate closed municipal waste storage cells at the OVSL is collected and pumped to an arterial force main that discharges to a one-acre leachate pond located near the western end of the landfill. The force main outfalls on the north end of the leachate lagoon. Accumulated leachate was treated by aeration. When leachate elevation in the pond approaches the elevation of the former outlet to ponds that once existed west of current pond, leachate is removed via pumping and hauled to nearby wastewater treatment plants.

Leachate Monitoring Locations

Per the EMP and SAP, leachate monitoring is to be performed at three locations at the facility, including sampling stations L-INF, OBWL-TD, and LP-LCD. Influent leachate sampling station L-INF is located immediately downstream of the force main outfall on the north end of the leachate collection pond. The OBWL-TD sampling station is situated at the Old Barney White Landfill Toe Drain collection sump, which subsequently connects to the leachate pond. Sampling station LP-LCD is located at the pump discharge outlet which periodically returns any accumulated liquids that collect beneath the leachate pond liner system back into the main lagoon. The locations of the leachate monitoring stations are illustrated on Figure 2.

Monitoring Schedule

The current SAP provides for annual monitoring of the L-INF and OBWL-TD stations and quarterly monitoring of the LP-LCD station. Leachate influent was sampled at L-INF during the fourth quarter of 2012. Sampleable volumes of liquid did not occur at the OBWL-TD station during the 2012 reporting period.

Parameters and Analytical Methods

A summary of the analytical parameters tested for during leachate influent monitoring at the OVSL is provided in Table 2. The leachate influent (L-INF) sample collected during the fourth quarter 2012 was analyzed for the same Appendix I and II parameters as the groundwater monitoring wells, as well as for the following analytes:

Metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc.

Total Coliform

WAC 173-351 Appendix IV Parameters: nitrite, COD, BOD, and total cyanide.

WAC 173-351 Appendix III Parameters: VOCs, SVOCs, PCBs, Pest/Herb, Hg, Sn

The LP-LCD samples were analyzed for selected Appendix II parameters including field parameters (pH, specific conductance, temperature and dissolved oxygen), geochemical indicators (chloride, sulfate, bicarbonate and alkalinity), and leachate indicators (ammonia, TOC and TDS).

Laboratory methods are those described in EPA publication number SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods. All laboratory analyses were completed by TestAmerica, Denver, Colorado and Buffalo, New York. The laboratories are accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

Leachate Monitoring Field Procedures

Field activities consisted of obtaining field parameter measurements, collecting leachate samples for laboratory analysis, and packaging and shipping the sample to the laboratory.

The leachate influent sample consisted of individual grab samples. Field personnel immersed sample bottles into the discharge to obtain the leachate influent sample. The LP-LCD sample was collected from an inline sampling port attached to the liquid return line that drains back into the leachate pond. All the leachate samples were collected directly into pre-labeled laboratory containers suitable for the chemical parameters being analyzed. Field instruments were calibrated in accordance with manufacturer's guidelines.

Field-measured parameters including temperature, specific conductivity, pH, and dissolved oxygen were measured as described in Standard Methods for the Examination of Water and Wastewater. Field information obtained during leachate sampling was recorded on Field Information Forms included in Appendix A (December 2012).

SUMMARY OF CURRENT LANDFILL GAS MONITORING PROGRAM

Landfill gas monitoring activities at the OVSL consists of obtaining field measurements of primary gas composition (methane, carbon dioxide, and oxygen) at between 12 and 17 monitoring locations on a quarterly basis. In 2012, the landfill gas monitoring network included 10 subsurface gas detection probes and two onsite structures on and immediately adjacent to the landfill.

Landfill gas monitoring is conducted to provide an assessment of the subsurface landfill gas conditions at the OVSL and compliance with regulatory criteria for subsurface methane concentrations. At the subsurface gas detection probes (gas probes) relative soil gas pressure was also measured in the field. Landfill gas monitoring procedures are detailed in the 2009 SAP.

Landfill Gas Monitoring Locations

Landfill gas monitoring was conducted at 10 perimeter gas probes (GP-7 through GP-16) and two onsite structures as illustrated on Figure 3 and tabulated on Table 11. Five of the gas probes (GP-9 through GP-13) consist of multiple, vertically discrete monitoring zones. Gas probes with dual monitoring zones are designated with an "S" for the shallow zone, and a "D" for the deep zone. Gas probes with triple monitoring zones are designated with an "S" for the shallow zone, "M" for the middle zone, and "D" for the deep zone. Data are not reported for probes where the screened interval is found to be submerged. Details of all the gas probes and boring logs can be found in *Report of 2005 Gas Probe and Monitoring Well Installations at OVSL (SCS Engineers, June, 2006).*

Monitoring Schedule

Monitoring at the landfill gas probes and facility structures was conducted during March, May, August and November 2012. The landfill gas monitoring results reported in Section 4 of this report (December 2012/Fourth Quarter) were collected on November 27, 2012.

Parameters

Field measurements of methane, carbon dioxide, and oxygen were obtained from each of the gas probes and within the facility structures. In addition, subsurface soil gas pressure and liquid levels were measured in the gas probes during the sampling events.

Landfill Gas Monitoring Field Procedures and Instrumentation

Field monitoring was conducted in accordance with Section 6.4 of the 2009 SAP. The landfill gas probes and building locations were sampled and analyzed in the field (for all parameters) using a GEM-2000 portable multi-gas analyzer. This portable gas analyzer measures methane and carbon dioxide with a dual wavelength infrared cell with a reference channel. Oxygen is measured with an electro-chemical cell. Pressure was measured with a transducer.

The gas analyzer was calibrated prior to each monitoring event. Landfill gas monitoring activities are documented in the Field and Calibration Logs included in Appendix A.

Field Conditions

General weather conditions were noted during and preceding each quarterly landfill gas monitoring event. Atmospheric pressure fluctuations can influence gas concentrations and pressure in gas probes. To assist in interpreting data, barometric conditions were recorded during and prior to monitoring. The barometric trends for November 2012 are illustrated on Figure 14 and discussed in Section 4.

4 2012 MONITORING RESULTS

GROUNDWATER ELEVATION RESULTS

Table 3 presents water level data including depths to water and calculated water level elevations from the OVSL monitoring wells for 2012. Water level contour maps of groundwater elevations (derived from measured static depths to water at the OVSL wells) for each quarter during the reporting period are also presented in Figures 4 through 7. A hydrograph of the groundwater elevations at the OVSL is provided on Figure 12. Groundwater elevations ranged from approximately 140 to 268 feet-msl at the OVSL over the 2012 reporting period. Groundwater elevations remained relatively stable over the entire reporting period. The potentiometric surface across the OVSL does not show significant seasonal fluctuations. This is consistent with results from previous reporting years.

Groundwater flow direction during the reporting period remained consistent with that which has been reported previously. Locally, the groundwater flow direction is from the east toward the west. The average hydraulic gradient across the site remained fairly consistent from quarter to quarter.

The hydraulic gradient beneath the eastern portion of the site (between wells MW-35 and MW-23A) ranged from 0.047 to 0.073 ft/ft. A horizontal hydraulic conductivity of 26 ft/day and an effective porosity of 30 percent were used to calculate average groundwater velocity on the eastern portion of the site. The horizontal hydraulic conductivity of 26 ft/day is the average of the values reported at MW-13A, MW-13B, and P-1. These values were derived from an aquifer test conducted at TW-1, reported in the *Draft Final Remedial Investigation Report, Olympic View Sanitary Landfill* (Parametrix, Inc. 2007). Groundwater flow velocities across the eastern portion of the site were estimated to range from 3.23 to 4.28 ft/day.

The average hydraulic gradient beneath the western portion of the site (between wells MW-20 and MW-37) ranged from 0.020 to 0.021 ft/ft. A horizontal hydraulic conductivity of 154 ft/day and an effective porosity of 30% were used to calculate average groundwater velocity on the western portion of the site. The horizontal hydraulic conductivity of 154 ft/day is the average of the values reported at MW-29A, MW-29B, and MW-29C. These values were derived from an aquifer test conducted at MW-29B, reported in the RI. The groundwater flow velocity was estimated to range from 10.42 to 10.92 ft/day.

GROUNDWATER QUALITY MONITORING RESULTS

Detected groundwater analytes and field parameters for 2012 are summarized in Table 4. Laboratory results for detected volatile organic compounds for the monitoring year are also presented in Table 5. Table 6 summarizes the 2012 exceedances for a suite of ten MTCA regulated parameters monitored at the OVSL's compliance and downgradient groundwater wells. Table 7 lists all exceedances of WAC 173-200 Groundwater Quality Protection Standards, federal Maximum Contaminant Levels and MTCA cleanup goals specifically established for the

OVSL. Contaminant concentration maps for the results of the December 2012 monitoring event are presented for four analytes on Figures 8 through 11.

Cation/anion balances and Piper plots for December 2012 are presented in Appendix B. Statistical evaluation documentation, including time series graphs for detection monitoring analytes, are included in Appendix C.

Data QA/QC

All analytical data from TestAmerica and ARI were subjected to QA/QC evaluations. The QA/QC evaluations consisted of collection and analysis of field duplicates and matrix spike/matrix spike duplicate volume. The QA/QC evaluation also included a detailed review of the laboratory data, including sample handling, holding times, and laboratory performance analyses including duplicates, blanks, matrix spikes, matrix spike duplicates and surrogate recoveries. The data were determined to be acceptable for the intended purposes. Appendix D contains the data validation report and the analytical laboratory data reports for December 2012.

Comparison of Detected Groundwater Sampling Results to MTCA Groundwater Cleanup Standards

Select parameter results for six OVSL compliance wells (MW-15R, MW-34A, MW-34C, MW-39, MW-42 and MW-43) and five downgradient wells (MW-29A, MW-32, MW-33A, MW-33C and MW-36A) are compared to MTCA groundwater cleanup levels on Table 6. The groundwater cleanup levels are derived from Table 3 of the October 2010 Cleanup Action Plan. Specifically, the calculated upper confidence limit (UCL) of the mean concentration of each parameter for each well is used to assess compliance with their respective cleanup levels. The UCLs are calculated using three-year moving data sets (per MTCAStat guidance) for ten chemicals of concern (dissolved arsenic, dissolved iron, dissolved manganese, cis-1,2-dichloroethene, ethyl ether, trichloroethene, 1,4-dichlorobenzene, 1,1-dichloroethane, vinyl chloride and ammonia). The UCLs are calculated using MTCAStat; calculation details are presented in Appendix C.

Table 6 presents an analysis of the 95% UCL for ten chemicals of concern relative to their respective cleanup levels. There are several indications of improving groundwater quality during 2012. The 95% UCL for vinyl chloride fell below or became equivalent to the cleanup level in compliance wells MW-15R, MW-34C, and MW-42. The 95% UCL for iron and ammonia fell below the cleanup level in compliance well MW-43. There was only one instance of a 95% UCL rising above a cleanup level. This was for manganese in downgradient well MW-33A.

Statistically significant trends are also noted on Table 6 in order to provide additional information on the status of the UCL relative to the cleanup standard. Trend information may be particularly useful if the calculated UCL value is very close to the cleanup standard (e.g., within 10%). In such cases, trend information may be useful in predicting a change in status of the UCL versus the cleanup level in the relative near term. For example, if a UCL is slightly above its cleanup level and the data are trending downward, then the UCL may be expected to fall below the cleanup standard in the near future. Presently, examination of Table 6 does not indicate any

cases where a trend is associated with a UCL that is very close to its cleanup level; specific UCL exceedances and trends are reviewed below.

As shown on Table 6, for the OVSL compliance monitoring wells, MTCA exceedances were reported in five of six locations as follows: MW-34A (arsenic); MW-34C (arsenic, iron, manganese); MW-39 (arsenic, iron, manganese, ammonia); MW-42 (arsenic, iron, manganese, ammonia); and MW-43 (manganese). In 2012, as in 2011, a significant decreasing trend was reported for arsenic in MW-34C, and a significant decreasing trend was reported for manganese in MW-15R. VOCs were below the MTCA cleanup levels in all of the compliance monitoring wells.

MTCA exceedances were reported in all five downgradient wells (Table 6) monitoring wells as follows: MW-29A (arsenic, iron, manganese); MW-32 (arsenic, iron, manganese, vinyl chloride); MW-33A (iron, manganese, and ammonia); MW-33C (arsenic, manganese); and MW-36A (arsenic). A significant decreasing trend for iron was identified in well MW-32. Other than vinyl chloride in MW-32, all of the VOCs were below the MTCA cleanup levels in all of the downgradient monitoring wells.

Comparison of Detected Groundwater Sampling Results to WAC 173-200, Federal Drinking Water Standards and MTCA Cleanup Levels

All analytical results were compared to the water quality standards for ground waters of the state of Washington (Chapter 173-200 WAC) to State/Federal primary and secondary Maximum Contaminant Levels (MCLs) and to MTCA cleanup goals for the OVSL. Table 7 presents all WAC 173-200 and MCL exceedances for the reporting period. Standards for seven analytes were exceeded:

- pH
- dissolved arsenic
- dissolved iron
- dissolved manganese
- ammonia
- trichloroethene
- vinyl chloride

pH readings recorded during 2012 were generally mildly acidic to neutral. These values ranged between 5.60 pH units (MW-43 in March and December 2012) and 8.05 pH units (MW-33C in September 2012). The WAC 173-200 standard and secondary MCL for pH (6.5 to 8.5 units) was exceeded at least once during the reporting period in each of the following monitoring wells MW-15R, MW-16, MW-19C, MW-20, MW-23A, MW-24, MW-29A, MW-2B1, MW-33A, MW-34A, MW-34C, MW-36A, MW-39, MW-4, MW-42, and MW-43.

The MTCA and WAC 173-200 groundwater standard of 0.00005 mg/L for **dissolved arsenic** was exceeded at least once during 2012 in all 21 wells monitored at the OVSL, except for well MW-43. The primary MCL of 0.01 mg/L was slightly exceeded in downgradient monitoring well MW-32 (0.01140 mg/L) in December 2012. Dissolved arsenic was also detected at least once at relatively high levels in downgradient wells MW-19C (0.00279 mg/L to 0.00336 mg/L), MW-33C (0.00203 mg/L to 0.00266 mg/L), MW-34C (0.00420 mg/L in December 2012), and MW-39 (0.00223 mg/L in June 2012) during the reporting period. The arsenic concentrations in the remaining wells at the OVSL were less than 0.002 mg/L during the reporting period.

Dissolved iron was detected at least once at relatively high levels in downgradient wells MW-39 (33 to 34 mg/L) and MW-42 (23 mg/L to 28 mg/L) during the reporting period. The iron concentrations in the remaining OVSL wells were less than or equal to 3.7 mg/L during the reporting period. Iron concentrations exceeded the MTCA, WAC 173-200 standard and secondary MCL of 0.3 mg/L at least once during the 2012 reporting year in 9 monitoring wells at the OVSL.

Relatively high levels of **dissolved manganese** were detected at least once at in wells MW-19C (1.0 to 1.1 mg/L) MW-23A (0.65 to 2.5 mg/L), MW-24 (0.9 to 1.7 mg/L), MW-29A (1.1 to 1.2 mg/L), MW-32 (1.7 mg/L to 2.7 mg/L), MW-2B1 (0.37 to 2.8 mg/L), MW-4 (0.9 to 1.1 mg/L) and MW-42 (4.5 mg/L to 5.3 mg/L) during 2012. The manganese concentrations in the other OVSL wells remained less than or equal to .68 mg/L during the reporting period. Manganese concentrations exceeded the MTCA, WAC 173-200 standard and secondary MCL of 0.05 mg/L at least once during the reporting year in 14 monitoring wells at the OVSL.

Ammonia levels at 6 wells exceeded the MTCA cleanup level of 0.19 mg/L in 2012. MW-16, MW-19C, MW-2B1, MW-33A, MW-39 and MW-42 returned values ranging from 0.25 to 5.0 mg/L. An additional 7 wells had detections that exceeded the MTCA cleanup level that were flagged “JB” due to lab issues.

The most elevated **vinyl chloride** concentration (0.63 µg/L) detected during the reporting period occurred in December 2012 in downgradient well MW-32. Vinyl chloride was also detected in wells MW-13B, MW-15R, MW-19C, MW-20, MW-34C, MW-4 and MW-42. Upgradient well MW-13B had one anomalous detection of vinyl chloride in 2012. The WAC 173-200 groundwater standard (0.02 µg/L) for vinyl chloride was exceeded at least once in all of the 8 wells where the compound was detected at the OVSL. The MTCA cleanup level (0.2 µg/L) was exceeded during all four quarters at MW-32. The primary MCL (2 µg/L) for vinyl chloride was not exceeded during 2012.

Trichloroethene was detected at 1.1 to 1.4 µg/L during three quarters of 2012 in well MW-19C. These value exceeded the MTCA cleanup level of 1.0 µg/L.

Major Ion Geochemistry

Piper plots and Cation/anion balance calculations were completed on the data collected at the OVSL during the December 2012 quarterly monitoring event. The Piper diagram plots the fourth

quarter groundwater samples and is a graphical means of identifying water quality similarities between samples from different wells. The LP-LCD and L-INF samples are also plotted for comparison. Cation/anion balances on major ions are performed to assess accuracy of the laboratory results and evaluate the potential for additional ions in the samples that were not included in the analyses. Cation/anion balance calculations and the Piper plot for December 2012 are presented in Appendix B.

Cation/anion Balance Calculations

When all the major anions and cations have been determined, the sum of the cations in milliequivalents per liter (meq/L) should approximately equal the sum of the anions expressed in the same units (Hem 1986). As stated in WAC 173-351-430-5(a), a relative percent difference (RPD) in the charge-balance of greater than five to ten percent could potentially indicate error in the laboratory measurements, and/or that significant concentrations of additional ions are present that were not included in the testing program. Negative values indicate that the sum of the cations is greater than the sum of the anions.

The RPDs, or charge-balance differences, for the December 2012 groundwater samples were within twelve percent, with the exception of, MW-20, MW-34A, and MW-39 The higher cation/anion balance in these three wells appears to be due to higher than average nitrate values.

Piper Diagram

The Piper diagram presents the major ion geochemistry of groundwater at each well. This diagram is useful for representing the relative percentage of cations and anions in groundwater samples.

The upgradient and downgradient groundwater samples collected during December 2012 were of similar water type. The positions of samples on the diagram indicate that the dominant anion in groundwater samples continues to be bicarbonate, while the cations are still dominated by calcium and magnesium. The LP-LCD and L-INF sample has higher sodium and potassium levels than groundwater, as well as higher chloride levels.

Spatial Patterns in Groundwater Quality

As previously noted for the site, the influence of past waste disposal activities on groundwater quality at the OVSL is apparent in the groundwater VOC detections, general chemistry, inorganics, and field parameters. The elevated concentrations of parameters adjacent to the landfill are typical of a low-level influence from the landfill, due to either leaching from the landfill, landfill gas, or simply mobilization of naturally occurring constituents as a result of the landfill's presence.

The December 2012 chemical concentration maps for dissolved arsenic, dissolved iron, dissolved manganese, and vinyl chloride are presented in Figures 8 through 11. Each map separately highlights the selected parameter results for both shallow and deeper aquifer monitoring wells.

As illustrated on Figure 8, dissolved arsenic concentrations were relatively high in wells MW-2B1, MW-42, MW-29A, MW-39, MW-33C, MW-19C and MW-34C (in order of increasing dissolved arsenic). Arsenic levels in these five wells ranged from 0.00126 to 0.0114 mg/L in December 2012.

Dissolved iron levels (Figure 9) for December 2012 were highest in wells MW-42 (28 mg/L), MW-29A (3.7 mg/L), and MW-33A (2.1 mg/L).

Dissolved manganese (Figure 10) was relatively high in wells MW-20, MW-33C, MW-43, MW-39, MW-34C, MW-19C, MW-4, MW-29A, MW-24, MW-23A MW-32, MW-2B1 and MW-42 (in order of increasing dissolved manganese). The values in December 2012 ranged from 0.11 to 5.3 mg/L in these thirteen wells.

Vinyl chloride (Figure 11) was detected in four wells in December 2012, including MW-42, MW-19C, MW-34C and MW-32 (in order of increasing vinyl chloride). The reported values ranged from 0.023 µg/L to 0.63 µg/L in these four wells. Shallow aquifer well MW-32, located approximately 400 feet west of the landfill, has historically contained the highest vinyl chloride levels at the site. However, shallow and deeper aquifers wells located further west (downgradient well MW-33A and MW-33C) did not report detectable vinyl chloride during the 2012 monitoring period.

Groundwater impacts from the parameters that were spatially mapped are found primarily at wells MW-32, MW-42, MW-19C, MW-34C, MW-24, MW-33C, MW-15R, MW-23A, MW-2B1 and MW-43 (in decreasing order of water quality impact). These ten wells are all located north and/or west of the landfill, in the downgradient groundwater flow direction. The most impacted wells (MW-32 and MW-42) are situated between 200 and 400 feet west of the western edge of the landfill. However, since the OVSL's downgradient property border is situated at least 600 to 800 feet beyond these wells, potential impacts from these parameter exceedances are thought to be mitigated through natural attenuation, advection and dispersion as groundwater moves beyond the immediate vicinity of the landfill.

Time Series Graphs and Statistical Trend Analysis

Time series graphs with statistical trend analysis were produced using the DUMPStat software package for all compliance, performance, downgradient, and upgradient monitoring wells. Beginning with the 2009 Annual Report statistical analyses were conducted beginning with data from 2005 because a 5-year look back provides information on more recent trends and a moving 5-year window may be considered at some point in the future if it appears that relatively older data begin to be exhibit too much control on the presence or absence of statistically significant trends. Therefore, graphs are based on groundwater monitoring data from 2005 through 2012 and depict the chemical parameters listed in Appendices I and II of WAC 173-351-990 -- organized into two groups, as follows: "Trend Test A" graphs and "Trend Test B" graphs. The Trend Test A graphs include all organic parameters in Appendices I and II that have been detected above the PQL during at least one sampling event in any of the wells since 2005 (this currently reflects 25 VOCs). The Trend Test B graphs include all Appendix I and II inorganic detection monitoring

and ground water quality parameters (this includes 32 parameters). To facilitate review of the statistically significant trends, graph sets were developed to just show those well/parameter combinations exhibiting either increasing or decreasing trends. These time series graphs are presented in Appendix C along with the other statistical evaluation results. A summary of those wells/parameters showing significant increasing or decreasing concentration trends is provided in Table 9.

As shown on Table 9, seven inorganic parameters exhibit significant increasing trends in at least one well, including dissolved barium, dissolved chromium, nitrate, bicarbonate alkalinity, sulfate, temperature and total alkalinity. In addition, fifteen inorganic parameters exhibit significant decreasing trends, including dissolved arsenic, dissolved barium, specific conductivity, temperature, dissolved calcium, bicarbonate alkalinity, dissolved magnesium, sulfate, dissolved sodium, chloride, total alkalinity, dissolved iron, dissolved manganese, ammonia and TDS.

Performance monitoring wells, with the exception of MW-19C, MW-23A and MW-24, exhibited very few significant trends relative to the number of parameters tested, indicating general geochemical system stability. The following significant trends were observed for inorganic/water quality parameters and VOCs in performance wells: MW-19C decreasing trichloroethene, vinyl chloride, dissolved arsenic, dissolved barium, specific conductivity, sulfate, sodium, ammonia and dissolved iron; MW-20 increasing dissolved barium and sulfate; MW-24 decreasing dissolved arsenic, dissolved barium, specific conductivity, temperature, dissolved calcium, bicarbonate alkalinity, sodium, total alkalinity, dissolved iron, dissolved magnesium, dissolved manganese, total dissolved solids, vinyl chloride and an increasing trend of sulfate; MW-23A decreasing specific conductivity, dissolved calcium, dissolved sodium, dissolved manganese and vinyl chloride.

Statistical Prediction Limit Evaluations

Statistical prediction limits using data from the upgradient monitoring wells are calculated at the end of each monitoring year to provide updated background concentrations for all Appendix I and II inorganic detection monitoring and ground water quality parameters (a total of 32 parameters). These updated background concentrations are used for detection monitoring purposes via comparison to the most recent parameter concentration for compliance and downgradient monitoring wells.

Table 8 provides a summary of the latest prediction limit exceedances reported at the OVSL groundwater monitoring as of the end of the 2012 reporting period for the compliance and downgradient wells. Prediction limits for inorganic parameters were exceeded at least once during the fourth quarter of 2012 in eleven of the groundwater monitoring wells. Wells MW-32, MW-34C and MW-42 reported the largest number of prediction limit exceedances. Prediction limit calculations are presented in Appendix C.

As noted in the above section and as shown on Table 9, the following upgradient monitoring wells exhibited statistically significant increasing or decreasing trends over the period for which

background prediction limits are calculated: MW-13A, MW-13B, MW-16 and MW-35 (increasing trends for both bicarbonate and total alkalinity; increasing trend for nitrate in MW-16). Trends in upgradient monitoring wells are noted because they can impart a bias on the calculated prediction limit for the affected monitoring parameters which, in turn, can affect the number of exceedances identified for those monitoring parameters in compliance and downgradient wells. In the case of bicarbonate and total alkalinity, the increasing trend could impart a positive bias on the calculated prediction limit. However, examination of the time series graphs presented in Appendix C indicates that the noted increasing trends for these parameters in these wells is relatively slight. Therefore, any bias to the prediction limit would be expected to be nominal and not significantly change the number of bicarbonate and total alkalinity exceedances listed on Table 8.

LEACHATE MONITORING RESULTS

Leachate Generation Rates

Leachate volumes generated at the OVSL have been recorded on a weekly basis by SCS Engineers Field Services since 2008. During the 2012 reporting period, approximately 1,651,593 gallons of leachate were reported to have been pumped into the leachate collection pond. Locally, 78.42 inches of precipitation was reported during 2012. As noted during 2011, this volume is approximately 1,000,000 gallons less than that generated at the site in 2009 (2,658,033 gallons), during which local precipitation totaled 53 inches. These data indicate that ongoing improvements to site maintenance and existing infrastructure have significantly reduced leachate generation rates (per inch precipitation) at the OVSL. In 2010, Waste Management directed a repair of the upper liner in order to divert a larger portion of rainwater away from the landfill. The amounts of leachate produced on a quarterly and annual basis over the last five years is presented on Figure 13**.**

In addition, the liner leak collection/detection system is checked regularly for the presence of any accumulated liquids beneath the OVSL leachate pond. If liquids are present, they are pumped out of the collection system, pass through the LP-LCD monitoring station, and are returned to the leachate pond. The volumes of liquid pumped out of the liner leakage collection system during 2012 are presented on Table 10. As shown on Table 10, approximately 594 gallons of liquid were removed from the collection system during 2012.

Previous metered volume readings from the pump at the LP-LCD station had been considered to be unreliable. The totalizer was suspected of reporting the volumes for both air and liquid together. To address this issue, the LP-LCD system was re-engineered during the Fourth Quarter of 2012. A new LCD vault, volumetric tank and piping were installed. On November 16, 2012, the final piping was completed and the old meter was taken off-line. On December 10, 2012, following the re-configuration, the system was pumped and the volume was visually measured in the new tank (rather than by meter) prior to return to the leachate pond.

Leachate Quality

The results of the fourth quarter 2012 leachate influent sample (L-INF) analysis are presented along with the groundwater sampling results on Tables 4 and 5. Where the leachate influent and groundwater sample were analyzed for the same Appendix I and II parameters, a comparison was made. The following parameters were found in relatively elevated concentrations in the leachate influent sample:

- Field Parameters: specific conductivity (696 uS).
- General Chemistry Parameters: alkalinity (150 mg/L), ammonia (31 mg/L), total calcium (26 mg/L), total magnesium (10 mg/L), total potassium (14 mg/L), total sodium (86 mg/L), chloride (110 mg/L), sulfate (87 mg/L), total dissolved solids (340 mg/L), and total organic carbon (17 mg/L).
- Metals: barium (0.37 mg/L)
- Non-qualified VOCs: m&p-xylene (2.1 µg/L), o-xylene (1.2 µg/L), tetrahydrofuran (71 µg/L) and toluene (1.1 µg/L).

The leachate influent sample also reported Appendix IV parameter concentrations COD (56 mg/L) and nitrite (3 mg/L). Total coliform (4590), Total cyanide was not detected above its reporting limit

Sample volume was obtained from the LP-LCD monitoring station and submitted for selected Appendix II parameter and total metals analysis during all four quarters of 2012 (Table 4).

LANDFILL GAS MONITORING RESULTS

Table 11 summarizes the landfill gas monitoring results from December 2012 for both perimeter gas probe and surface structure monitoring locations.

The following discussion identifies areas of subsurface landfill gas in terms of detected methane and/or carbon dioxide (greater than 0.3 percent by volume) and depressed oxygen (less than 20.3 percent by volume). Concentrations of methane and/or carbon dioxide less than 0.4 percent by volume and oxygen greater than 20.3 percent by volume are not considered significant given the sensitivity of the field instrument. These conditions, as well as elevated pressures within the gas probes, represent the potential presence of landfill gas. The values reported are measurements from stabilized sampling conditions after purging at least one probe volume of gas from each sampling zone. It should also be noted that the monitoring results are discussed in terms of gas probe locations, not sampling zones. For example, if methane is detected in the shallow or deep monitoring zone (or both) of one gas probe, the reference is to one probe location. The screened interval in Middle and Deep monitoring zones is sometimes submerged by the shallow water table. Where this occurs, gas results are not discussed.

Gas concentrations and pressures are also influenced by fluctuating barometric pressure. To assist in interpreting data, barometric conditions were recorded prior to and during monitoring. Barometric trends for November 2012 are presented on Figure 14.

Perimeter Gas Probe Results

Methane was not detected above the regulatory standards in any of the gas monitoring probes (the LEL which is equal to 5% methane by volume for gas probes) or in any of the landfill buildings (25% of the LEL for methane in any structures).

Carbon dioxide was detected at all gas probes ranging from 0.7 (GP-10D) to 8.3 percent by volume (GP-7). Carbon dioxide levels appear to be generally declining in probe GP-13M. Depressed oxygen levels were reported at all gas probes, ranging from 4.5 (GP-8) to 20.2 percent by volume (GP-10S). Oxygen levels appear to be generally increasing in probes GP-12S and GP-13M. Representative relative (static) pressure readings in the perimeter gas probes ranged from 0.12 to 0.70 inches of water column.

As noted in past monitoring years, the observed declines in methane and carbon dioxide levels in the various gas probes (as well as the increases in oxygen levels) likely reflect changes in the landfill gas extraction system components (e.g., replacement of landfill gas flare and blower station and the installation of six new gas wells in October of 2011 in the Barney White area) and changes to landfill gas extraction system operations implemented by Waste Management. Appendix E includes tables of historical concentrations of methane, carbon dioxide, and oxygen in the currently monitored gas probes, from March 2007 through the end of the 2012 monitoring year.

Groundwater seepage during the rainy season can submerge the perforated portion of the gas probe pipes and inhibit collection of soil gas in the vadose zone. To determine whether the perforated portion of the gas probes were blocked by water, water level measurements are taken in the deepest sampling zone for each gas probe. The percentage of exposed perforation for each gas probe is shown on Table 11. During November 2012 event, water level measurements were obtained on November 7, 2012, while the gas probe measurements were obtained on November 27th. Approximately 10.89 inches of rainfall occurred in between these two dates. Therefore, it remains uncertain whether the water levels in the probes inhibited the collection/measurement of soil gas concentrations at some of these locations.

Structure Monitoring Results

In November 2012, monitoring showed no presence of methane in either the South Slope Well House or the Scale House. Carbon dioxide was detected at 0.4 to 0.6 percent by volume in both onsite structures. Oxygen concentrations at both structures were not depressed.

Barometric Pressure Conditions

Gas concentrations and pressures are influenced by fluctuating barometric pressure. Relative to time, the highest landfill gas concentrations and depressed oxygen concentrations tend to occur shortly after a significantly falling barometric trend. This is due to the effects of the landfill pressures trying to stabilize with the fluctuation in atmospheric (barometric) pressure and the associated lag time for stabilization.

To assist in interpreting data, barometric conditions were recorded prior to and during landfill gas monitoring. The trends for November 2012 are presented on Figure 14. On November 27, landfill gas monitoring was conducted during a period of stable barometric pressure.

5 2012 MONITORING CONCLUSIONS

GROUNDWATER MONITORING

Groundwater Flow

Regional groundwater flow is generally to the west, with hydraulic gradients ranging between 0.020 and 0.073 ft/ft. Groundwater flow velocities across the eastern portion of the OVSL site are estimated to be less (3.23 ft/day to 4.28 ft/day) than those in the western portion of the site (10.42 ft/day to 10.92 ft/day). These velocities measured in 2012 are consistent with the ranges reported during previous monitoring years.

Groundwater Quality

Elevated concentrations of certain volatile organic compounds (VOCs), general chemistry parameters, inorganic analytes, and field parameters continue to be detected in the monitoring wells adjacent to the OVSL. Water quality standards were exceeded for seven analytes: pH, dissolved arsenic, dissolved iron, dissolved manganese, ammonia, tricholorethene and vinyl chloride. The results from the 2012 monitoring year are generally consistent with those reported for previous years.

The only primary federal MCL exceedance at the OVSL for the 2012 reporting period was for arsenic in well MW-32 (0.0114 mg/L) during December. The primary MCL for vinyl chloride was not exceeded during the reporting period and has not been exceeded since 2006.

MTCA corrective action monitoring during 2012 reported 95% UCL groundwater cleanup goal exceedances at ten of eleven compliance and downgradient wells at the OVSL. Compliance well MW-15R did not report any exceedances. With the exception of vinyl chloride in MW-32, the only parameters to report exceedances of the site specific MTCA cleanup goals were arsenic, iron, manganese, and ammonia. The most parameter exceedances were reported in compliance wells MW-39 and MW-42 and downgradient well MW-32. However, an analysis of the 95% UCL for the ten chemicals of concern relative to their respective cleanup levels indicates improving groundwater quality during 2012. The 95% UCL for vinyl chloride fell below or became equivalent to the cleanup level in compliance wells MW-15R, MW-34C, and MW-42. The 95% UCL for iron and ammonia fell below the cleanup level in compliance well MW-43. There was only one instance of a 95% UCL rising above a cleanup level. This was for manganese in downgradient well MW-33A. Furthermore, performance and compliance wells exhibited a larger number of significant decreasing trends in 2012.

The groundwater analytical data, statistical and graphical analyses, and comparison to water quality standards continue to indicate similar conditions to those previously documented during 2005 through 2011, with increased evidence for natural attenuation affecting the groundwater quality at the site. Prediction limits for inorganic parameters were exceeded in eleven groundwater monitoring wells. Significantly increasing concentrations trends were reported for some inorganic parameters at ten well locations, and significantly decreasing trends also occurred

at eleven well locations. Vinyl chloride reported significantly decreasing trends in performance wells MW-23A, MW-24 and MW-19C.

Evidence for Natural Attenuation

Natural attention refers to naturally occurring physical, chemical and biological processes that can reduce concentrations of contaminants. At solid waste landfills, natural attention processes are typically associated with changes in groundwater geochemistry (for example, toward increasingly anaerobic or reducing conditions) related to the decomposition of waste. These conditions in turn, can promote the microbial degradation of major contaminant groups (such as the reduction of chlorinated VOCs though reductive dechlorination).

Improving water quality in 2012 is illustrated by the 95% UCLs falling below the cleanup level for several chemicals of concern in several wells. These results continue to support the conclusion that natural attention is occurring at the OVSL. Significant areas across and immediately downgradient of the waste cells exhibit an anaerobic and/or reducing geochemistry, especially at those wells showing most elevated contaminant concentration (for example: MW-20 and MW-19C with elevated dissolved iron, vinyl chloride, etc.). The presence of vinyl chloride beneath the west-central portions of the site is consistent with the ongoing reductive dechlorination of precursor compounds (PCE, TCE and DCE isomers). However, further downgradient, along the far western margins of the site, groundwater geochemistry begins to revert toward background conditions (i.e., more aerobic, less reductive) which are more conducive for the microbial degradation of vinyl chloride. This is demonstrated by the absence of VOCs, including vinyl chloride, in downgradient wells MW-33A, MW-33C and MW-36A.

Additional evidence for ongoing natural attention at the OVSL is provided by the numerous parameter trends that are decreasing over time. As previously discussed, eleven groundwater wells (over half of those monitored), show significant decreasing trends in at least one analytical parameter. For example, vinyl chloride exhibits a significantly decreasing trend in performance wells MW-23A, MW-24 and MW-19C. Given these current and historical trends, natural attenuation at the OVSL can be anticipated to continue throughout the post-closure period.

LANDFILL GAS MONITORING

Methane was not detected above state regulatory standards in any of the gas monitoring probes or in any of the landfill structures during 2012. The perimeter probe monitoring results indicate that the facility is in compliance with respect to subsurface landfill gas migration criteria (less than 5% by volume of methane in soil at the property boundary). During recent years, both carbon dioxide and depressed oxygen concentrations in the perimeter probes have been declining or stabilizing to low levels, which is consistent with attenuating landfill gas levels at these locations.

Methane was not detected at any of the structural gas monitoring locations during the 2012 reporting period. It should be noted that due to the demolition of on-site buildings during the

latter half of 2009, only the South Slope Well House and the Scale House remain present at the OVSL. Going forward, structural landfill gas monitoring will continue for these buildings.

Ongoing improvements (discussed above and in previous reports) to the OVSL landfill gas extraction system and associated infrastructure, which commenced in 2007, have reduced landfill gas levels (as measured by methane, carbon dioxide and depressed oxygen levels) at both perimeter probe and structural monitoring locations. The gas collection system will continue to be monitored and optimized to enhance its performance and to effectively integrate the six new gas extraction wells which were installed on the Barney White Cell in October of 2011.

LEACHATE MONITORING

Comparison of the 2012 groundwater results for the facility against the L-INF parameter data confirms the presence of elevated specific conductivity, alkalinity, ammonia, total calcium, total magnesium, total potassium, total sodium, chloride, sulfate, total dissolved solids, total organic carbon, and barium. M&p-xylene, o-xylene, tetrahydrofuran and toluene were also reported in the L-INF sample. Vinyl chloride was not reported in the 2012 sample, as it was in 2011. Total cyanide was not detected in the sample from the L-INF.

The LP-LCD monitoring station was sampled in all four quarters of 2012. These samples continue to report elevated specific conductivity, alkalinity, ammonia, calcium, chloride, iron, manganese, sodium, sulfate, TDS and TOC compared to the groundwater results.

A reduction on the order of 1,000,000 gallons in leachate volume generated per year was realized at the OVSL in 2010 through 2012. This demonstrates that infrastructure improvements at the site have had a significant beneficial impact. Liquid volumes recorded at the LP-LCD monitoring station for the leachate pond leakage collection system indicate that approximately 594 gallons of liquid were returned to the pond in 2012. The low LP-LCD volumes reported during 2012 continue to suggest that leakage through the leachate pond liner system is minimal. Metered volume readings previously reported from the pump at the LP-LCD station had been considered to be unreliable. The LP-LCD system was re-engineered in October 2012 in order to provide increased accuracy in reported volume of liquids entering the leak detection system.

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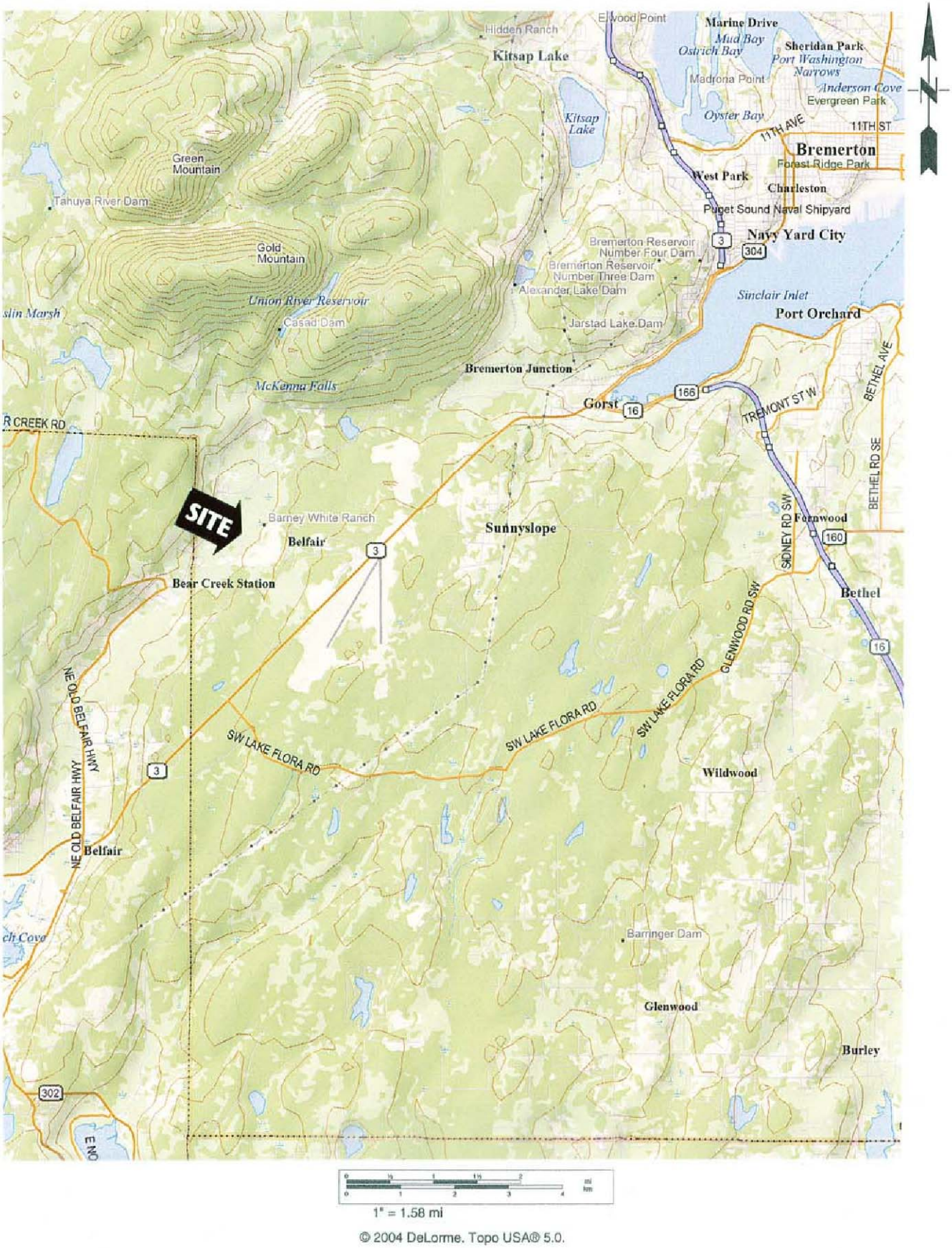
FIGURES



1" = 1.58 mi

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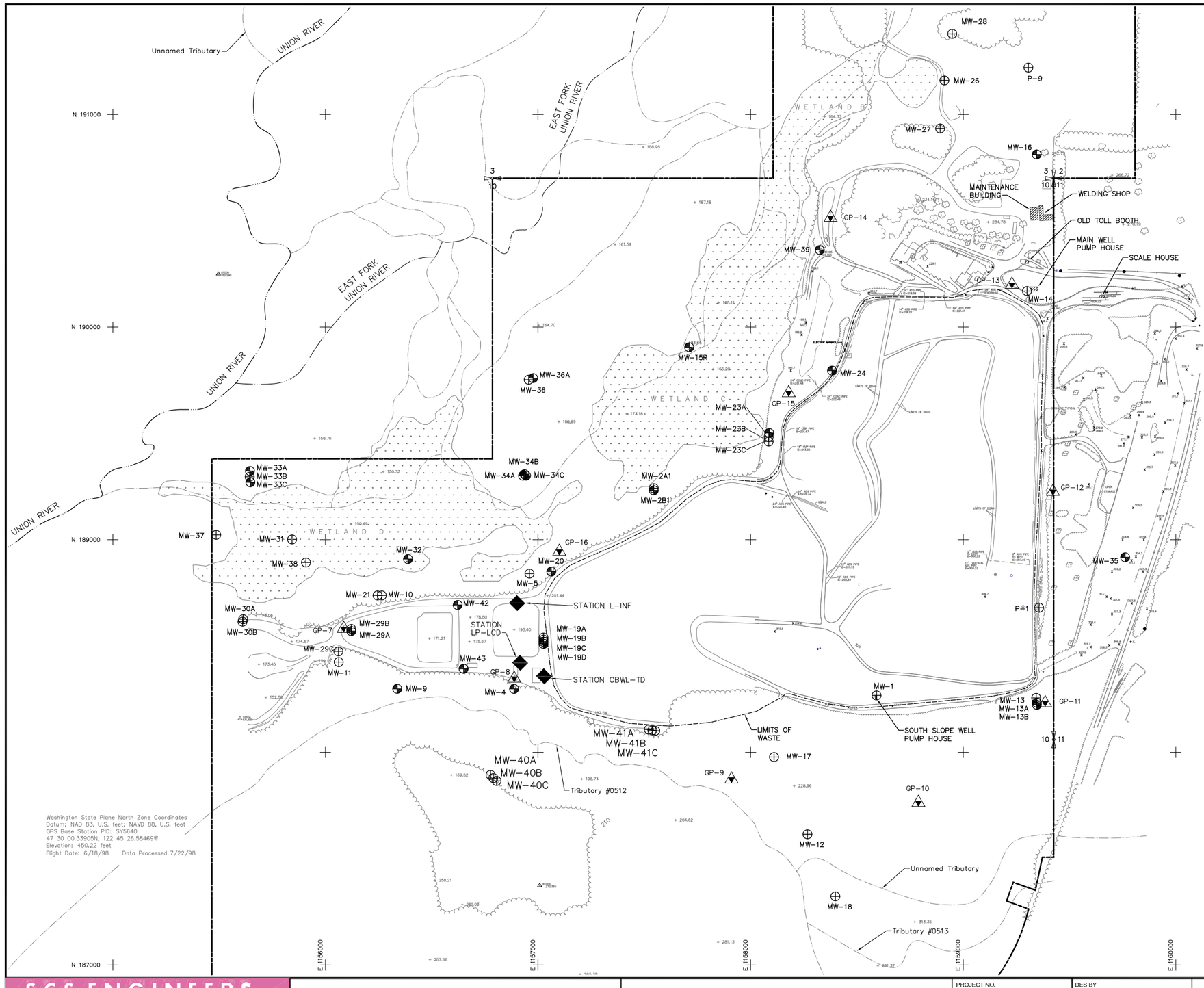
PROJECT NO.	DES BY
04204027.16	L.L.
SCALE	CHK BY
1:100,000	E.S.
CAD FILE	APP BY
FIGURE 1	D.V.

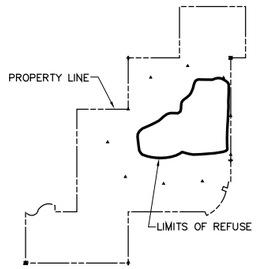
SITE LOCATION MAP

OLYMPIC VIEW SANITARY LANDFILL
PORT ORCHARD, WASHINGTON

DATE
MARCH 2013

FIGURE
1





KEY MAP

LEGEND

MW-36	GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL – WATER LEVEL ONLY
L-INF	LEACHATE INFLUENT MONITORING STATION
GP-10	GAS PROBE
	PROPERTY LINE (ASSUMED)
10	SECTION CENTER (ASSUMED – NOT FOUND)

N

200 0 200 400
SCALE IN FEET

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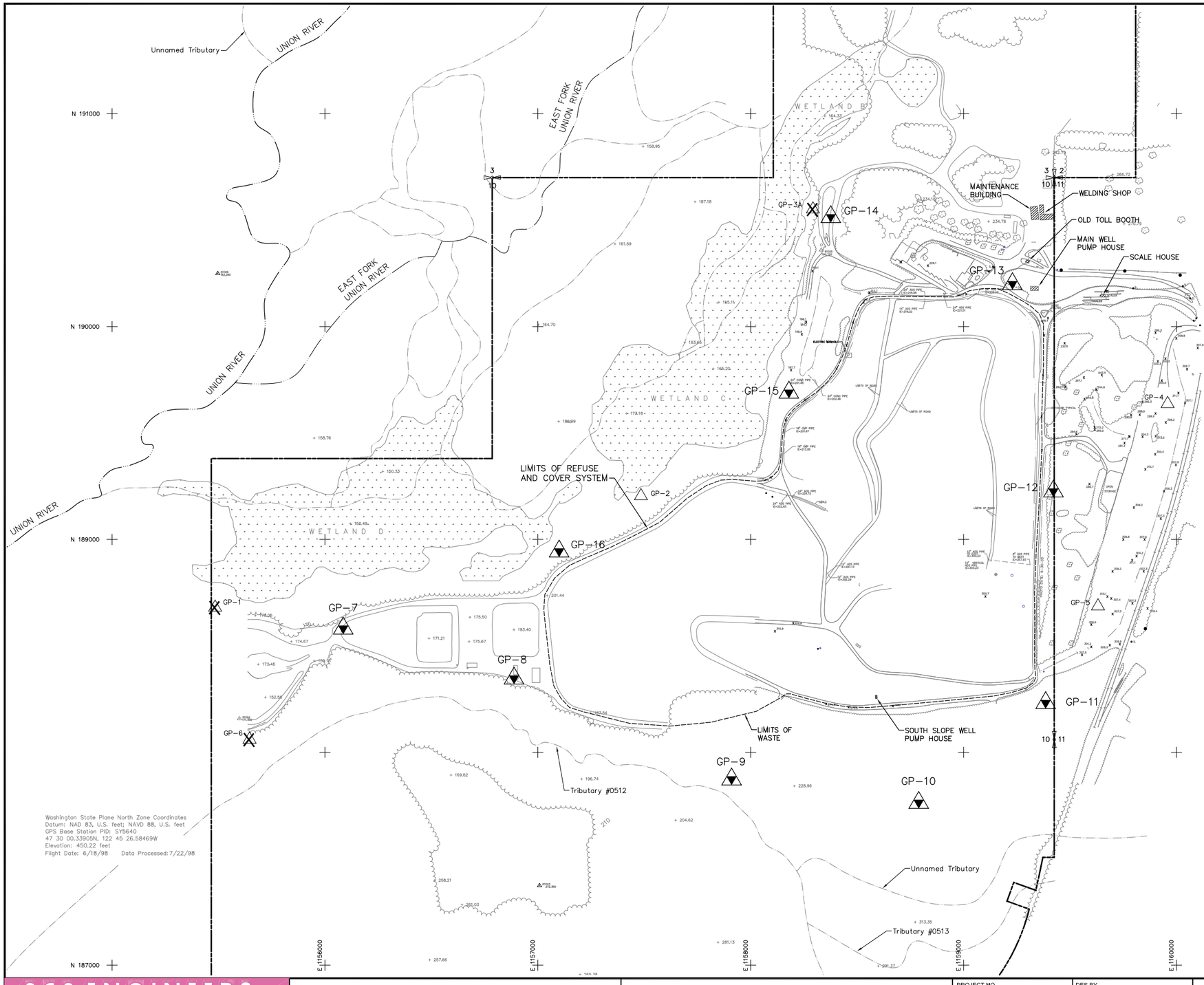
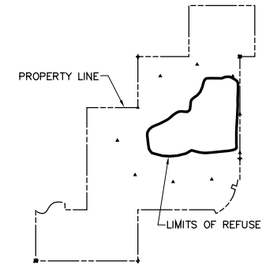
PROJECT NO. 04204027.16	DES BY L.L.	GROUNDWATER MONITORING WELL AND LEACHATE MONITORING LOCATIONS OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 2
CAD FILE FIGURE 2	APP BY D.V.		





KEY MAP

LEGEND

GP-1	ABANDON GAS PROBE
GP-2	EXISTING GAS PROBE (NOT PART OF MONITORING PROGRAM)
GP-7	NEW GAS PROBE
	PROPERTY LINE (ASSUMED)
	SECTION CORNER (ASSUMED – NOT FOUND)
	QUARTER SECTION CORNER (ASSUMED – NOT FOUND)
10	SECTION CENTER (ASSUMED – NOT FOUND)

200 0 200 400
SCALE IN FEET

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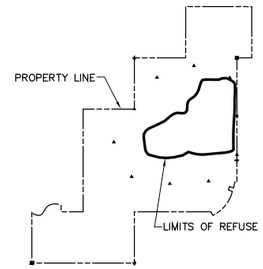
PROJECT NO. 04204027.16	DES BY T.M.	SUBSURFACE GAS MIGRATION MONITORING PROBES AND BUILDING MONITORING LOCATIONS OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 3
CAD FILE FIGURE 3	APP BY D.V.		

Note:

Water level contours were generated using depth to water and measuring point elevation data from wells screened between 89 and 200 ft-msl and one stream gauge. The water level elevations for fourteen wells and one stream gauge have not been used to generate contours for the following reasons:

- Wells MW-13, MW-13B, MW-19D, MW-23C, MW-30B, MW-33C, MW-34B, MW-40C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



KEY MAP

LEGEND

- MW-35 / 230.32 — MONITORING WELL; WATER LEVEL ELEVATION, FT-MSL, MARCH 2012
- 180 — ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
- GROUNDWATER FLOW DIRECTION

Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98

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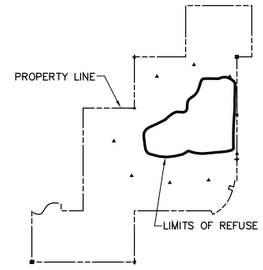
PROJECT NO. 04204027.15	DES BY W.C.	WATER LEVEL CONTOUR MAP MARCH 2012 OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 4
CAD FILE FIGURE 4	APP BY D.V.		

Note:

Water level contours were generated using depth to water and measuring point elevation data from wells screened between 89 and 200 ft-msl and one stream gauge. The water level elevations for fourteen wells and one stream gauge have not been used to generate contours for the following reasons:

- Wells MW-13, MW-13B, MW-19D, MW-23C, MW-30B, MW-33C, MW-34B, MW-40C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



KEY MAP

LEGEND

MW-35 230.62	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL, JUNE 2012
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
	GROUNDWATER FLOW DIRECTION

Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98

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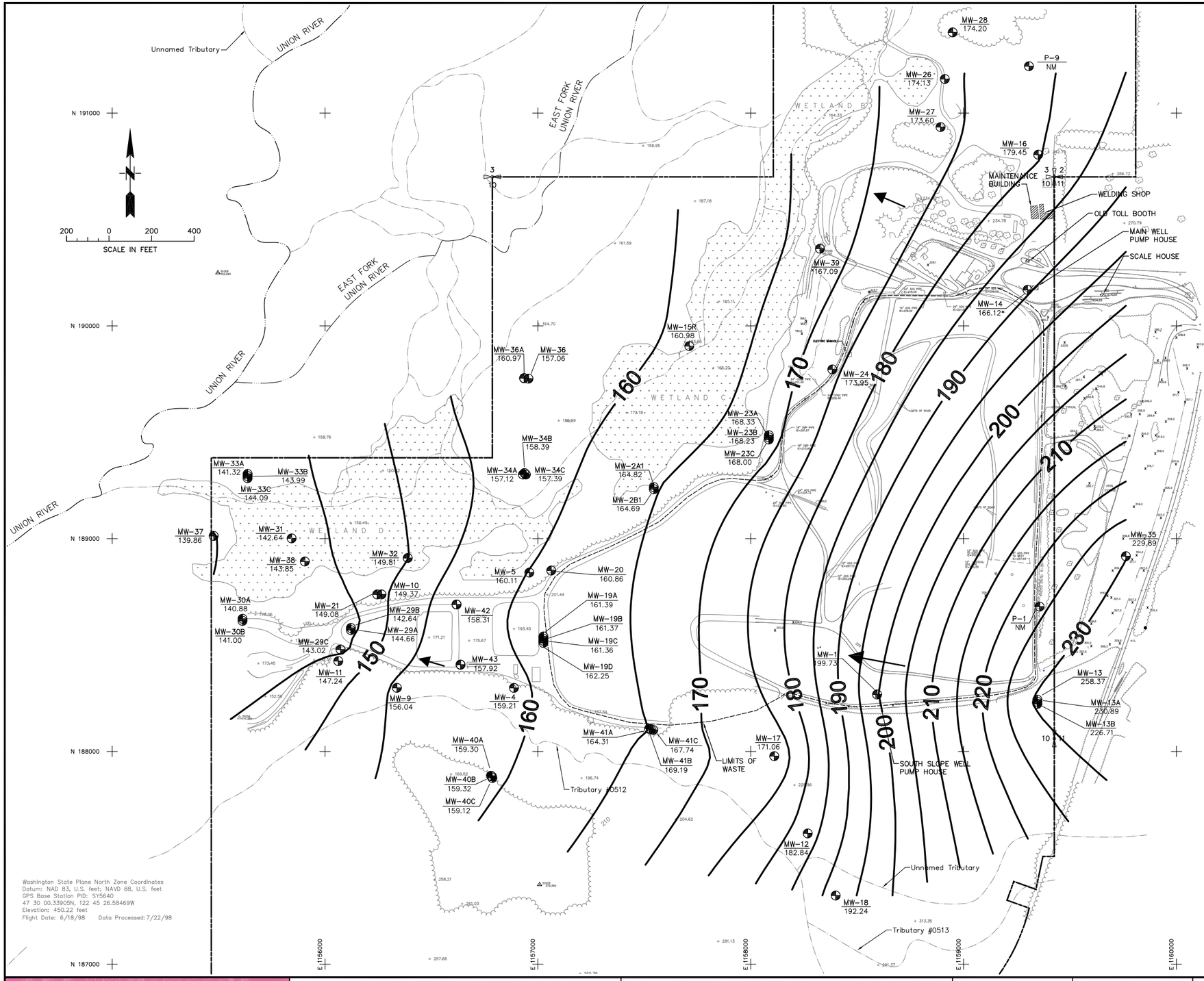
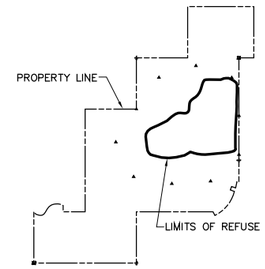
PROJECT NO. 04204027.15	DES BY W.C.	WATER LEVEL CONTOUR MAP JUNE 2012 OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 5
CAD FILE FIGURE 5	APP BY D.V.		



Note:

Water level contours were generated using depth to water and measuring point elevation data from wells screened between 89 and 200 ft-msl and one stream gauge. The water level elevations for fourteen wells and one stream gauge have not been used to generate contours for the following reasons:

- Wells MW-13, MW-13B, MW-19D, MW-23C, MW-30B, MW-33C, MW-34B, MW-40C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



KEY MAP

LEGEND

MW-35 229.89	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL, SEPTEMBER 2012
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
→	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING

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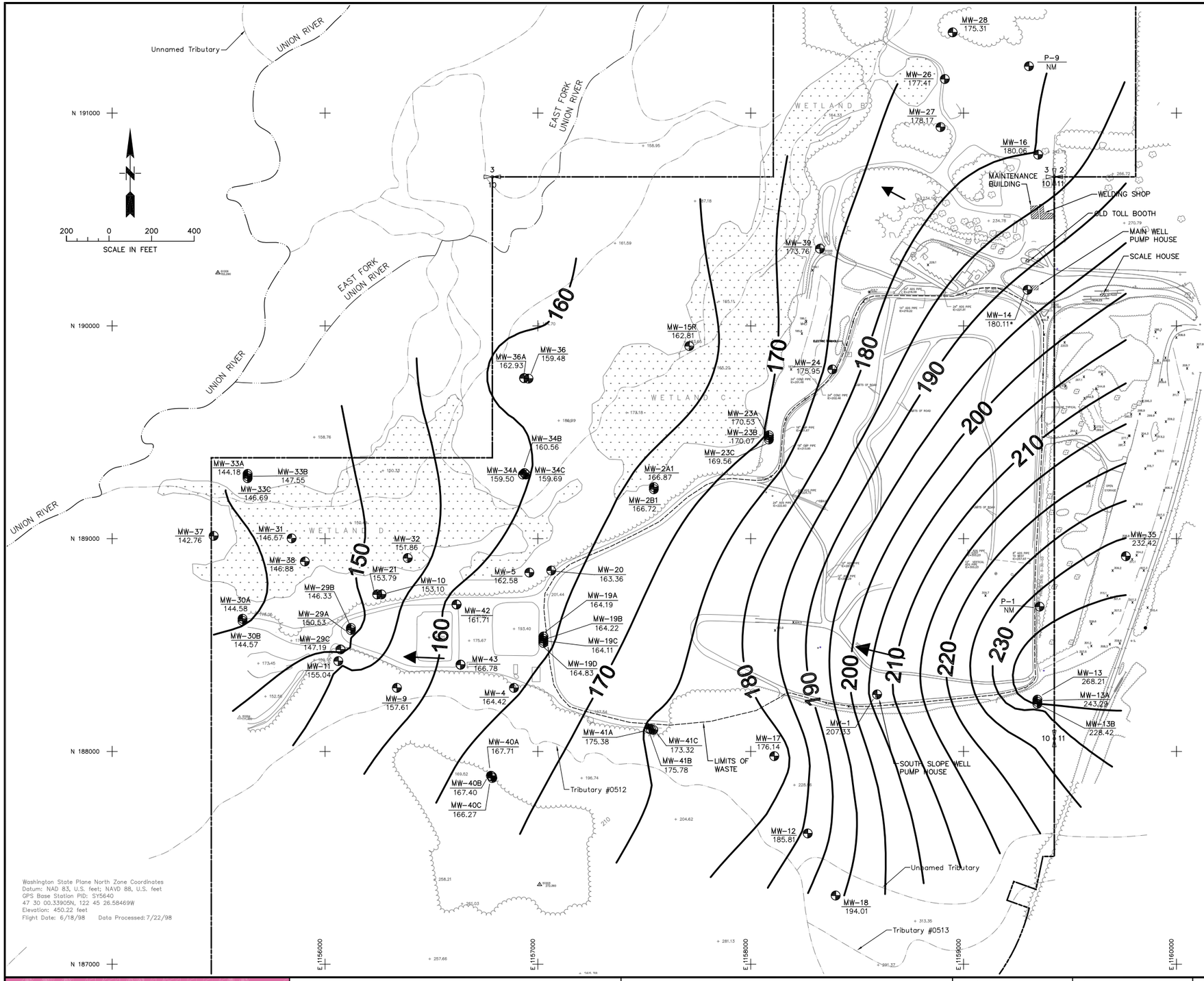
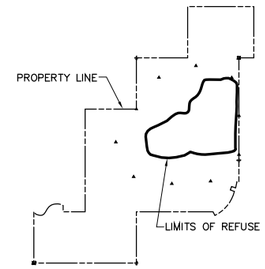
PROJECT NO. 04204027.16	DES BY M.O.	WATER LEVEL CONTOUR MAP SEPTEMBER 2012 OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 6
CAD FILE FIGURE 6	APP BY D.V.		



Note:

Water level contours were generated using depth to water and measuring point elevation data from wells screened between 89 and 200 ft-msl and one stream gauge. The water level elevations for fourteen wells and one stream gauge have not been used to generate contours for the following reasons:

- Wells MW-13, MW-13B, MW-19D, MW-23C, MW-30B, MW-33C, MW-34B, MW-40C, and MW-41C have screen elevations outside the 89 to 200 ft-msl range.



KEY MAP

LEGEND

MW-35 232.42	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL, DECEMBER 2012
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
→	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING

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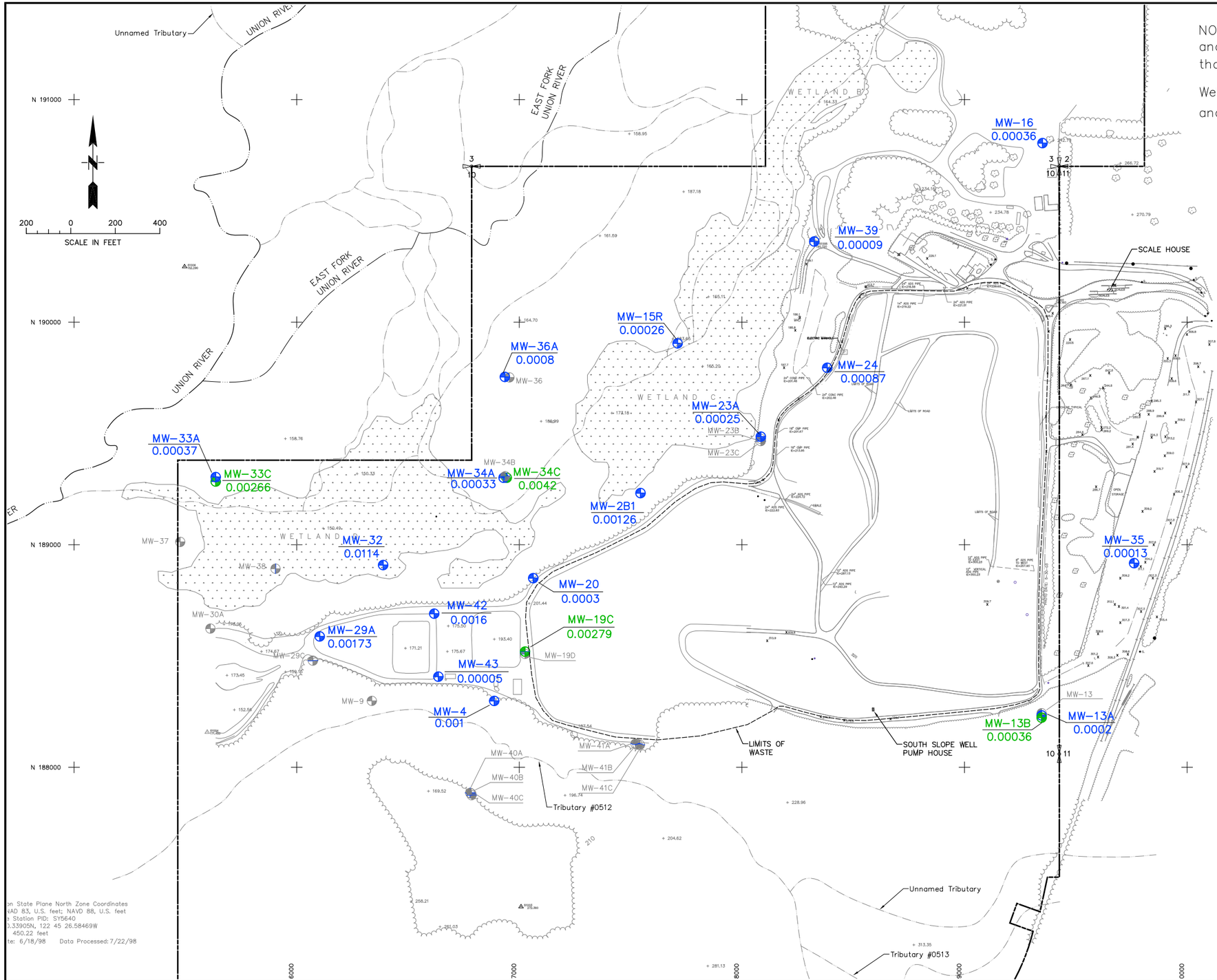
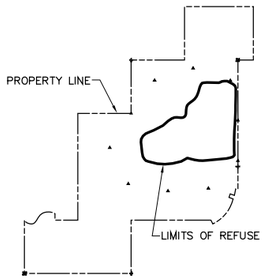
PROJECT NO. 04204027.16	DES BY M.O.	WATER LEVEL CONTOUR MAP DECEMBER 2012 OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.		FIGURE 7
CAD FILE FIGURE 7	APP BY D.V.		

NOTES : Analyte concentrations are color coded for deep and shallow groundwater wells. Where concentrations are less than the method detection limit, results are in black text.

Wells MW-29A and MW-33A are only sampled semi-annually and shown as NS when not sampled.





KEY MAP

LEGEND

MW-32 0.0088 — SHALLOW MONITORING WELL
ARSENIC, DISSOLVED (mg/L), SEPTEMBER 2012

MW-34C 0.00117 — DEEP MONITORING WELL
ARSENIC, DISSOLVED (mg/L), SEPTEMBER 2012

NOTE: Non-detect results are not color coded.

on State Plane North Zone Coordinates
AD 83, U.S. feet; NAVD 88, U.S. feet
Station PID: SY5640
3.33905N, 122 45 26.58469W
450.22 feet
te: 6/18/98 Data Processed: 7/22/98

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PROJECT NO. 04204027.16	DES BY M.O.
SCALE AS SHOWN	CHK BY E.S.
CAD FILE FIGURE 8	APP BY D.V.

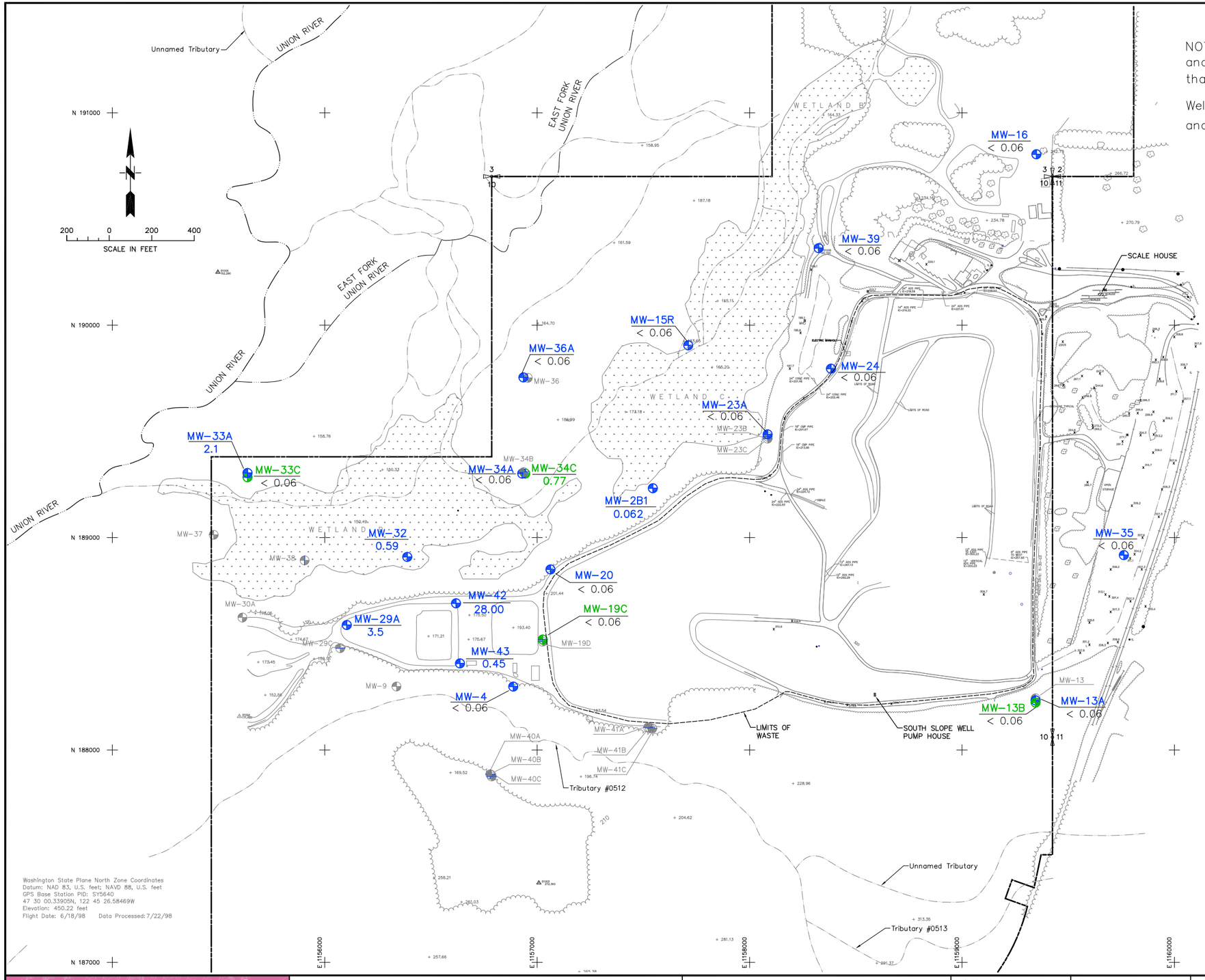
DISSOLVED ARSENIC CONCENTRATION MAP
DECEMBER 2012
OLYMPIC VIEW SANITARY LANDFILL
PORT ORCHARD, WASHINGTON

DATE March 2013

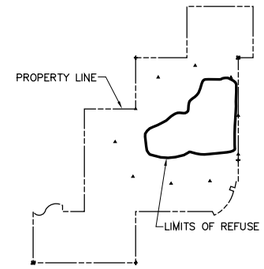
FIGURE 8

NOTES : Analyte concentrations are color coded for deep and shallow groundwater wells. Where concentrations are less than the method detection limit, results are in black text.

Wells MW–29A and MW–33A are only sampled semi–annually and shown as NS when not sampled.



Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98



KEY MAP

LEGEND

MW–32 0.77 — SHALLOW MONITORING WELL
IRON, DISSOLVED (mg/L), SEPTEMBER 2012

MW–34C 0.48 — DEEP MONITORING WELL
IRON, DISSOLVED (mg/L), SEPTEMBER 2012

NOTE: Non–detect results are not color coded.

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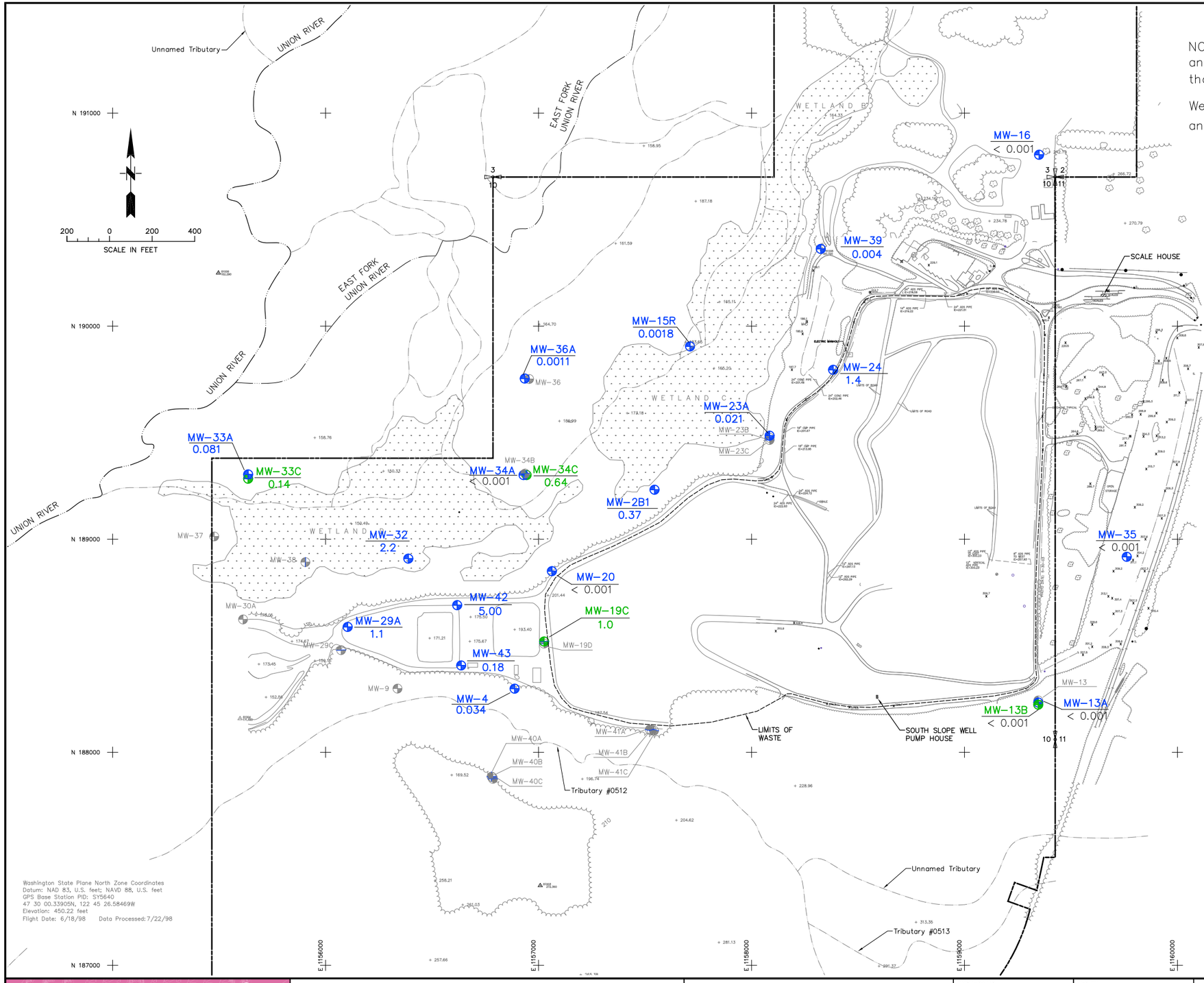
PROJECT NO. 04204027.16	DES BY M.O.
SCALE AS SHOWN	CHK BY E.S.
CAD FILE FIGURE 9	APP BY D.V.

DISSOLVED IRON CONCENTRATION MAP
DECEMBER 2012
OLYMPIC VIEW SANITARY LANDFILL
PORT ORCHARD, WASHINGTON

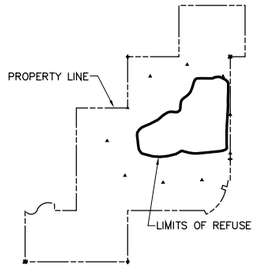
DATE March 2013
FIGURE 9

NOTES : Analyte concentrations are color coded for deep and shallow groundwater wells. Where concentrations are less than the method detection limit, results are in black text.

Wells MW–29A and MW–33A are only sampled semi–annually and shown as NS when not sampled.



Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98



KEY MAP

LEGEND

MW–32 2.70 — SHALLOW MONITORING WELL
MANGANESE, DISSOLVED (mg/L), SEPTEMBER 2012

MW–34C 0.64 — DEEP MONITORING WELL
MANGANESE, DISSOLVED (mg/L), SEPTEMBER 2012

NOTE: Non–detect results are not color coded.

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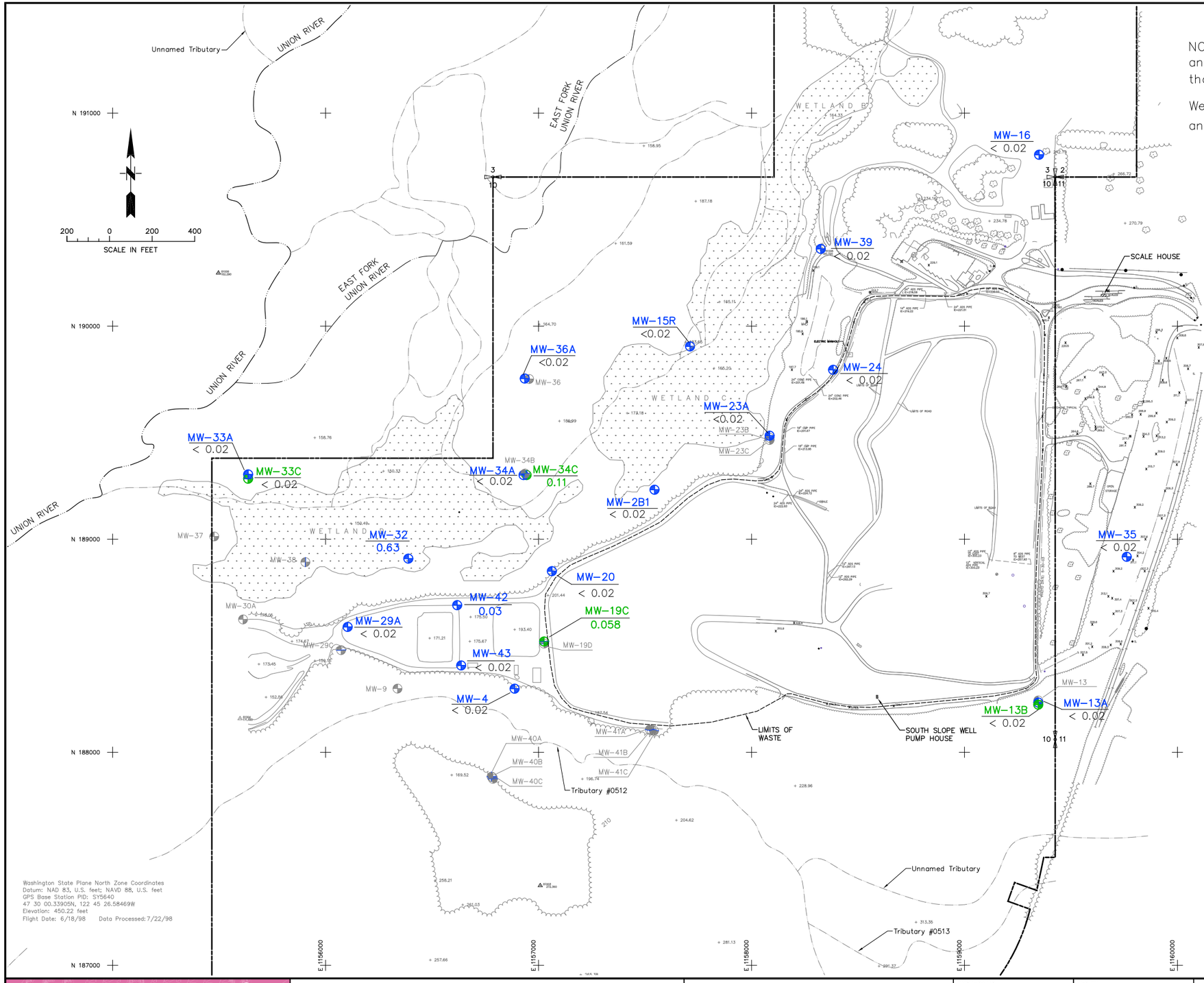
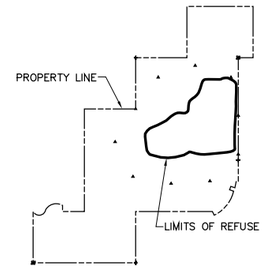
PROJECT NO. 04204027.16	DES BY M.O.	DISSOLVED MANGANESE CONCENTRATION MAP DECEMBER 2012	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.M.	OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	FIGURE 10
CAD FILE FIGURE 10	APP BY D.V.		

NOTES : Analyte concentrations are color coded for deep and shallow groundwater wells. Where concentrations are less than the method detection limit, results are in black text.

Wells MW–29A and MW–33A are only sampled semi–annually and shown as NS when not sampled.



Washington State Plane North Zone Coordinates
Datum: NAD 83, U.S. feet; NAVD 88, U.S. feet
GPS Base Station PID: SY5640
47 30 00.33905N, 122 45 26.58469W
Elevation: 450.22 feet
Flight Date: 6/18/98 Data Processed: 7/22/98



KEY MAP

LEGEND

MW–32 0.36 — SHALLOW MONITORING WELL
VINYL CHLORIDE (ug/L), SEPTEMBER 2012

MW–34C 0.13 — DEEP MONITORING WELL
VINYL CHLORIDE (ug/L), SEPTEMBER 2012

NOTES: Non–detect results are not color coded.

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PROJECT NO. 04204027.16	DES BY M.O.	VINYL CHLORIDE CONCENTRATION MAP DECEMBER 2012	DATE MARCH 2013
SCALE AS SHOWN	CHK BY E.S.	OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	FIGURE 11
CAD FILE FIGURE 11	APP BY D.V.		

Figure 12. Historic OVSL Groundwater Elevations

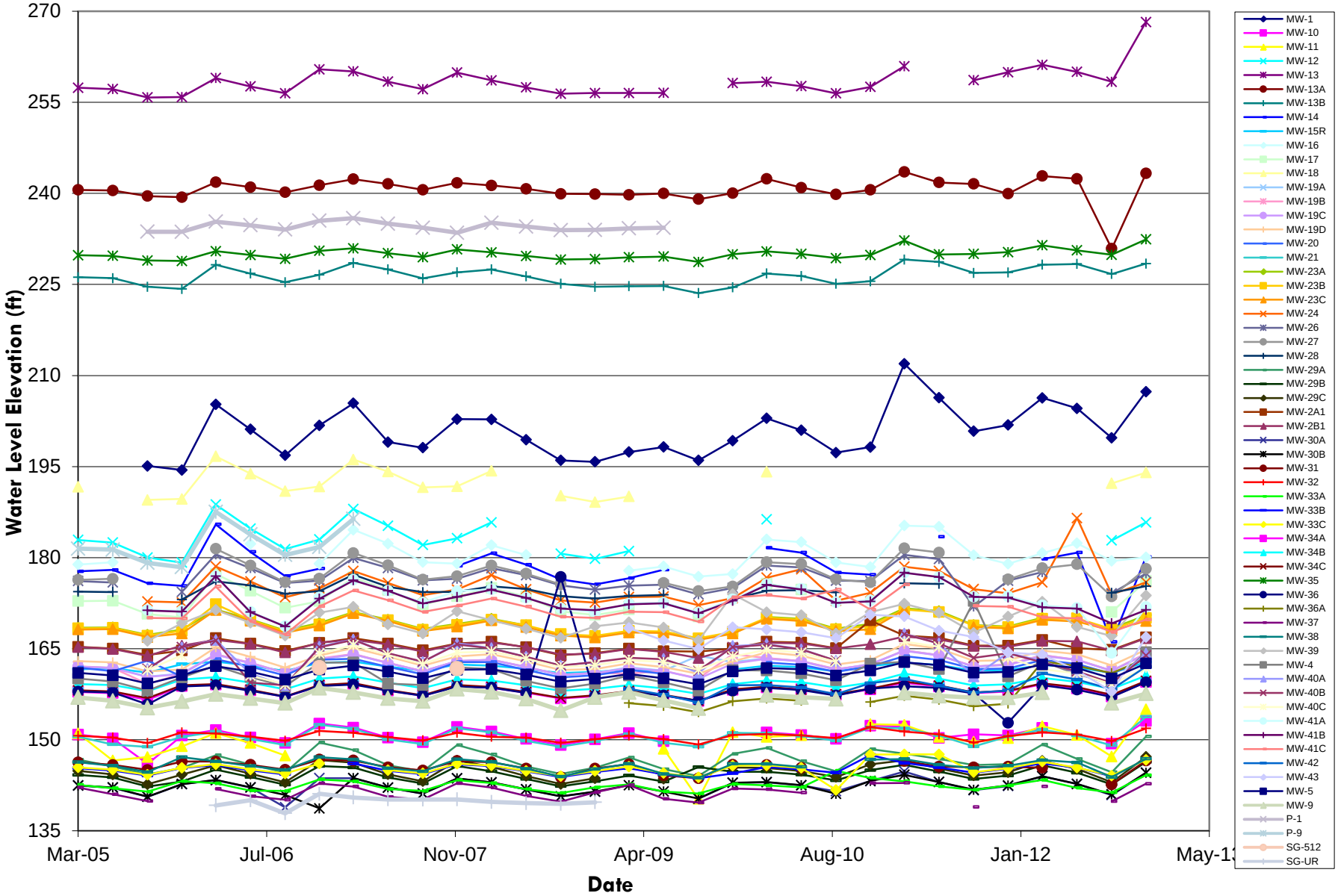


Figure 13: Leachate Generation at OVSL, 2007-2012

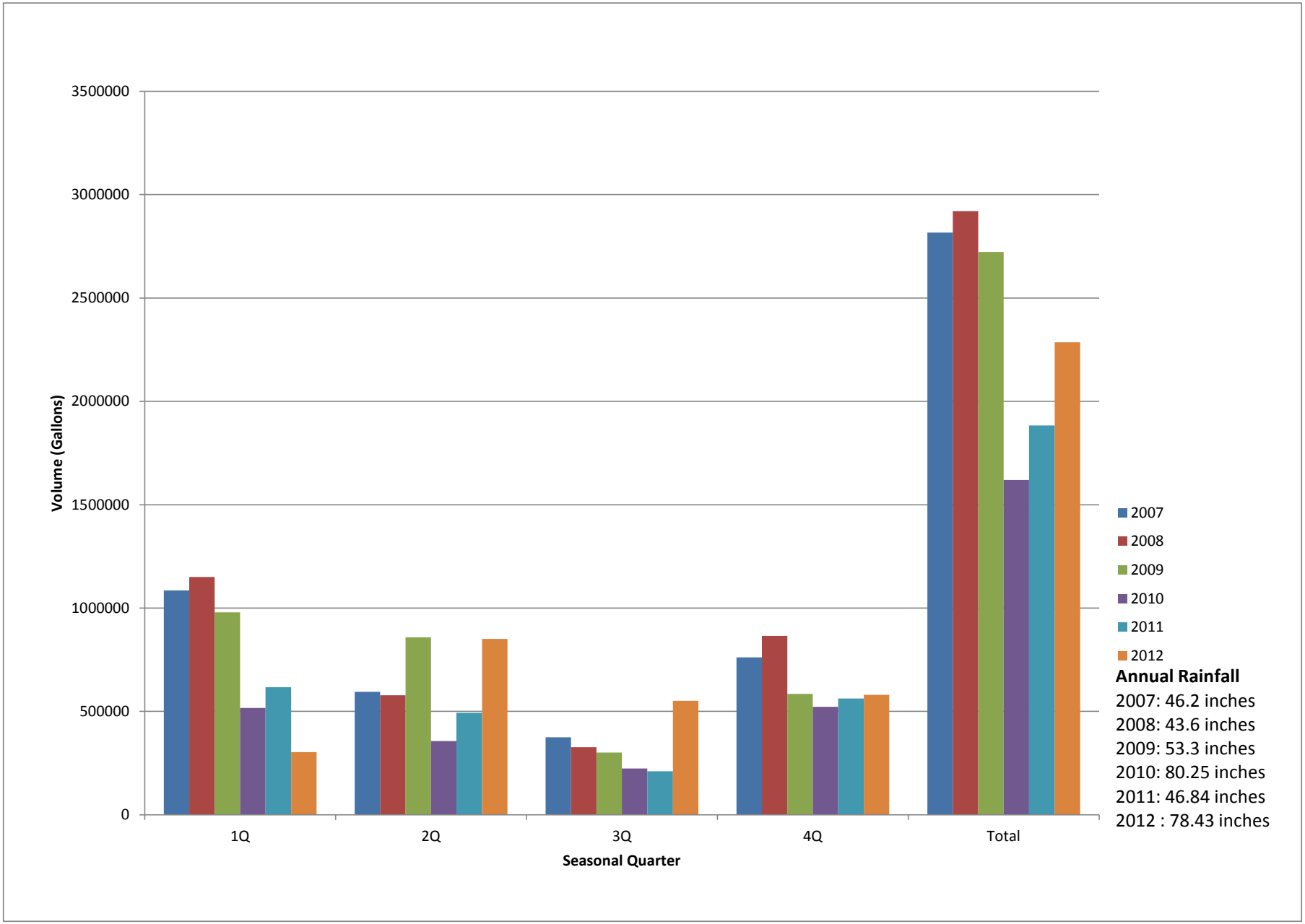
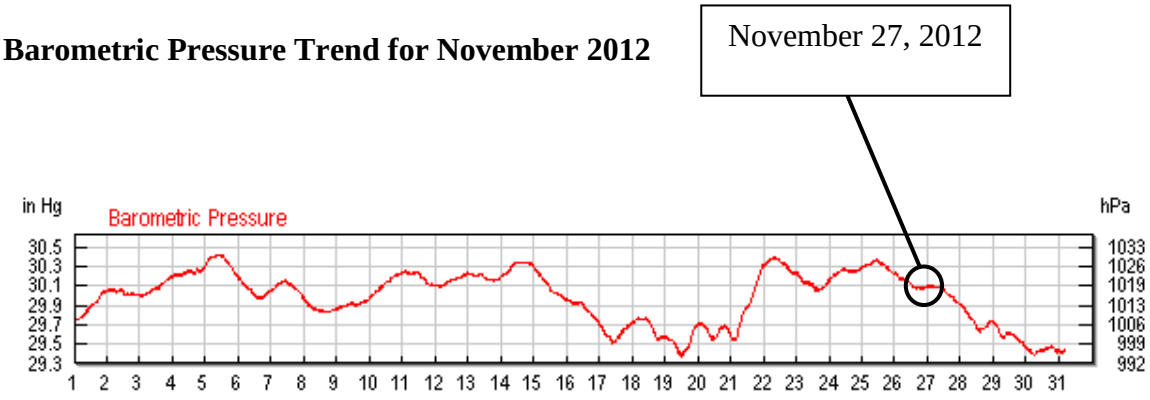


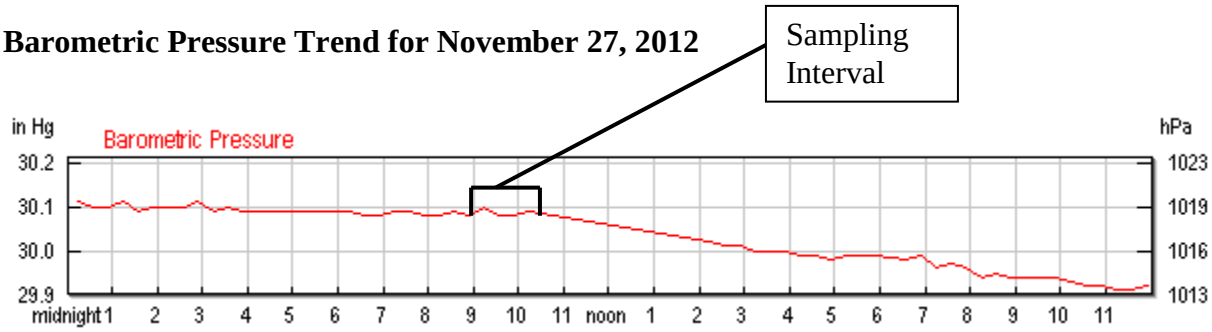
Figure 14.

Olympic View Sanitary Landfill
Landfill Gas Migration Monitoring
Fourth Quarter 2012

Barometric Pressure Trend for November 2012



Barometric Pressure Trend for November 27, 2012



Source: Bremerton National Airport, Station KPWT
Latitude 47.5, Longitude 122.75, Elevation 482 ft-AMSL

TABLES

Table 1. Groundwater Well Construction Data, Olympic View Sanitary Landfill

Well ID	Northing	Easting	Reference Elevation (ft-msl)	Total Depth (ft-bgs)	Top of Screen Elevation (ft-msl)	Bottom of Screen Elevation (ft-msl)	Screen Length (ft)
Sampled Wells							
MW-2B1	189232.23	1157544.63	172.94	18	163	153	10
MW-4	188298.52	1156887.57	175.78	34	149	139	10
MW-9	188298.84	1156337.75	160.34	24	140	135	5
MW-13A	188233.33	1159346.53	288.74	155	141	131	10
MW-13B	188223.33	1159346.53	288.66	260	36	26	10
MW-15R	189905.03	1157711.29	180.66	33	157	147	10
MW-16	190804.53	1159350.37	240.01	70	178	168	10
MW-19C	188520.03	1157025.96	196.96	90	111	106	5
MW-20	188850.01	1157062.68	198.41	49	165	150	15
MW-23A	189485.84	1158085.12	182.28	23	172	157	15
MW-24	189795.14	1158383.22	208.24	42	176	161	15
MW-29A	188570.27	1156121.60	160.21	25	140	135	5
MW-32	188908.88	1156388.52	152.36	21	135	130	5
MW-33A	189304.18	1155636.34	147.68	20	140	125	15
MW-33C	189284.18	1155636.34	147.59	65	89	79	10
MW-34A	189391.16	1156929.63	197.95	48	168	148	20
MW-34C	189391.16	1156943.77	199.89	98	114	99	15
MW-35	188917.42	1159762.03	302.69	149	161	151	10
MW-42	188690.50	1156617.90	187.43	33	159	154	5
MW-39	190362.60	1158325.32	189.92	25	174	164	10
MW-43	188407.60	1156636.60	186.42	30	161	156	5
MW-36A	189754.10	1156935.20	192.68	50	147	142	5
Locations for Water Level Measurement Only							
MW-1	188267.80	1158593.35	273.63	180	NA	NA	NA
MW-2A1	189242.23	1157544.63	174.22	38	143	133	10
MW-5	188840.50	1156959.90	164.37	14	159.5	149.5	10
MW-10	188737.81	1156265.18	155.12	17.5	142	137	5
MW-11	188424.54	1156062.42	155.04	22	137	132	5
MW-12	187614.62	1158267.67	233.09	70	183	163	20
MW-13	188243.33	1159346.53	288.94	40	256	246	10
MW-14	190169.37	1159300.21	228.22	80	151	146	5
MW-17	187977.80	1158110.35	208.01	54	163	153	10
MW-18	187322.70	1158398.81	258.34	75	199	184	15
MW-19A	188540.03	1157025.96	195.74	45.5	165	150	15
MW-19B	188530.03	1157025.96	195.82	59.5	146	136	10
MW-19D	188510.03	1157025.96	196.83	143	61	51	10
MW-21	188737.81	1156245.18	156.03	15	150	140	10
MW-23B	189475.84	1158085.12	182.42	60	130	120	10
MW-23C	189465.84	1158085.12	182.41	114	76	66	10
MW-26	191159.90	1158911.65	189.73	25.5	178	163	15
MW-27	190934.05	1158891.56	200.65	32.5	182	167	15
MW-28	191379.07	1158948.49	181.05	15	174.5	164.5	10
MW-29B	188580.27	1156121.60	161.69	65	110	95	15
MW-29C	188479.36	1156072.97	156.92	50	111	106	5
MW-30A	188623.50	1155612.45	166.74	35	136	131	5
MW-29B	188580.27	1156121.60	161.69	65	110	95	15
MW-30B	188613.50	1155612.45	166.6	86	84	79	5
MW-31	189001.26	1155843.17	148.28	20	136	126	10
MW-33B	189294.18	1155636.34	147.55	40	114	104	10
MW-34B	189308.15	1156936.77	198.93	208	-1	-11	10
MW-36	189751.87	1156955.77	189.39	100	99	89	10
MW-37	189012.89	1155477.10	145.93	9	139	134	5
MW-38	188892.50	1155905.23	149.93	47	110	101	10
MW-40A	187885.89	1156779.45	180.16	24.4	160	155	5
MW-40B	187882.31	1156784.38	180.24	67	118	113	5
MW-40C	187875.42	1156785.79	181.16	103.7	82	77	5
MW-41A	188106.83	1157522.05	199.43	35.7	168	163	5
MW-41B	188104.34	1157530.68	200.64	79	126	121	5
MW-41C	188101.13	1157541.93	199.67	117	87	82	5
P-1	188680.42	1159357.03	281.66	57.5	232	224	7.5
P-9	191220.13	1159306.83	211.34	36	179	174	5

NA: screened interval information was not available for well MW-1.

+ : Remedial Investigation Monitoring Locations

Table 2. Summary of Fourth Quarter 2012 Analytical Parameters, Olympic View Sanitary Landfill

Well	Volatile Organic Compounds		Appendix I Metals and Nitrate	Appendix II Field Parameters	Appendix II Geochemical Indicator Parameters	Appendix II Leachate Indicator Parameters	Appendix III Parmeters	WAC 173-351 Appendix IV
	WAC 173-351 Appendix I	Vinyl Chloride (SIM)	As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, V, Zn, NO_3	Dissolved Oxygen, Eh, pH, Specific Conductivity, Temperature	Cl, Fe, Mn, SO_4, Ca, Mg, Na, K, Alkalinity	Ammonia, TOC, TDS	VOCs, SVOCs, PCBs, Pest/Herb, Hg, Sn	Coilform, COD, BOD, Nitrite, Cyanide
Upgradient Monitoring Locations								
MW-13A	•	•	•	•	•	•		
MW-13B								
MW-16								
MW-35								
Compliance Monitoring Locations								
MW-15-R	•	•	•	•	•	•		
MW-34A								
MW-34C								
MW-39								
MW-42								
MW-43								
Downgradient Monitoring Locations								
MW-29A	•	•	•	•	•	•		
MW-32								
MW-33A								
MW-33C								
MW-36A								
Performance Monitoring Locations								
MW-2B1	•	•	•	•	•	•		
MW-4								
MW-19C								
MW-20								
MW-23A								
MW-24								
Leachate Monitoring Locations								
L-INF	×		×	×	×	×		×
OBWL-TD								
LP-LCD				×	×	×		

• Indicates enitre group of wells was sampled.

× Indicates specific wells/stations that were sampled.

OBWL-TD did not contain samplable volumes of liquid during 2010.

Table 3. 2012 Water Level Elevations, Groundwater Monitoring Wells
Olympic View Sanitary Landfill

Location ID	MPE	Mar-12		Jun-12		Sep-12		Dec-12	
		DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
MW-1	273.63	67.31	206.32	69.04	204.59	73.9	199.73	66.30	207.33
MW-10	155.12	3.15	151.97	NM	NM	5.75	149.37	2.02	153.10
MW-11	155.04	2.80	152.24	4.25	150.79	7.8	147.24	0.00	155.04
MW-12	233.09	NM	NM	NM	NM	50.25	182.84	47.28	185.81
MW-13	288.94	27.77	261.17	28.94	260.00	30.57	258.37	20.73	268.21
MW-13A	288.74	45.88	242.86	46.34	242.40	57.85	230.89	45.45	243.29
MW-13B	288.66	60.4	228.26	60.30	228.36	61.95	226.71	60.24	228.42
MW-14	228.22	48.46	179.76	47.38	180.84	62.1	166.12	48.11	180.11
MW-15R	180.66	18.33	162.33	18.72	161.94	19.68	160.98	17.85	162.81
MW-16	240.01	59.25	180.76	57.65	182.36	60.56	179.45	59.95	180.06
MW-17	208.01	NM	NM	NM	NM	36.95	171.06	31.87	176.14
MW-18	258.34	NM	NM	NM	NM	66.1	192.24	64.33	194.01
MW-19A	195.74	31.82	163.92	32.58	163.16	34.35	161.39	31.55	164.19
MW-19B	195.82	31.90	163.92	32.62	163.20	34.45	161.37	31.60	164.22
MW-19C	196.96	33.12	163.84	33.80	163.16	35.60	161.36	32.85	164.11
MW-19D	196.83	32.13	164.70	32.73	164.10	34.58	162.25	32.00	164.83
MW-20	198.41	35.25	163.16	35.91	162.50	37.55	160.86	35.05	163.36
MW-21	156.03	4.35	151.68	5.35	150.68	6.95	149.08	2.24	153.79
MW-23A	182.28	12.17	170.11	NM	NM	13.95	168.33	11.75	170.53
MW-23B	182.42	12.48	169.94	12.41	170.01	14.19	168.23	12.35	170.07
MW-23C	182.41	12.66	169.75	12.92	169.49	14.41	168.00	12.85	169.56
MW-24	208.25	32.32	175.93	21.74	186.51	34.3	173.95	32.3	175.95
MW-26	189.73	12.10	177.63	NM	NM	15.6	174.13	12.32	177.41
MW-27	200.65	22.37	178.28	21.74	178.91	27.05	173.60	22.48	178.17
MW-28	181.05	NM	NM	NM	NM	6.85	174.20	5.74	175.31
MW-29A	160.21	11.00	149.21	13.35	146.86	15.55	144.66	9.68	150.53
MW-29B	161.69	15.90	145.79	17.12	144.57	19.05	142.64	15.36	146.33
MW-29C	156.92	10.40	146.52	11.73	145.19	13.9	143.02	9.73	147.19
MW-2A1	174.22	7.77	166.45	9.12	165.10	9.4	164.82	7.35	166.87
MW-2B1	172.94	6.65	166.29	6.72	166.22	8.25	164.69	6.22	166.72
MW-30A	166.74	22.75	143.99	24.00	142.74	25.86	140.88	22.16	144.58
MW-30B	166.60	22.60	144.00	23.88	142.72	25.6	141.00	22.03	144.57
MW-31	148.28	2.89	145.39	NM	NM	5.64	142.64	1.71	146.57
MW-32	152.36	1.12	151.24	1.50	150.86	2.55	149.81	0.5	151.86
MW-33A	147.68	4.30	143.38	5.62	142.06	6.36	141.32	3.50	144.18
MW-33B	147.55	1.43	146.12	2.13	145.42	3.56	143.99	NM	NM
MW-33C	147.59	1.19	146.40	2.17	145.42	3.5	144.09	0.9	146.69
MW-34A	197.95	38.76	159.19	39.5	158.45	40.83	157.12	38.45	159.50
MW-34B	198.93	38.73	160.20	39.41	159.52	40.54	158.39	38.37	160.56
MW-34C	199.89	40.59	159.30	41.21	158.68	42.5	157.39	40.2	159.69
MW-35	302.69	71.25	231.44	72.07	230.62	72.8	229.89	70.27	232.42
MW-36	189.39	30.41	158.98	31.14	158.25	32.33	157.06	29.91	159.48
MW-36A	192.68	30.27	162.88	31.00	162.15	32.18	160.97	29.75	162.93
MW-37	145.93	3.60	142.33	NM	NM	6.07	139.86	3.17	142.76
MW-38	149.93	3.27	146.66	3.67	146.26	6.08	143.85	3.05	146.88
MW-39	189.92	17.17	172.75	21.34	168.58	22.83	167.09	16.16	173.76
MW-4	175.78	12.9	162.88	14.95	160.83	16.57	159.21	11.36	164.42
MW-40A	180.16	13.72	162.91	15.51	161.12	17.33	159.30	12.45	167.71
MW-40B	180.24	13.95	162.77	15.44	161.28	17.4	159.32	12.84	167.40
MW-40C	181.16	15.18	161.60	15.84	160.94	17.66	159.12	14.89	166.27
MW-41A	199.43	23.78	172.13	24.18	171.73	31.6	164.31	24.05	175.38
MW-41B	200.64	24.42	171.82	24.64	171.60	27.05	169.19	24.86	175.78
MW-41C	199.67	25.97	170.18	26.16	169.99	28.41	167.74	26.35	173.32
MW-42	187.43	26.82	160.94	27.85	159.91	29.45	158.31	25.72	161.71
MW-43	186.42	22.56	164.01	25.16	161.41	28.65	157.92	19.64	166.78
MW-5	164.37	1.97	162.40	2.57	161.80	4.26	160.11	1.79	162.58
MW-9	160.34	2.57	157.77	NM	NM	4.3	156.04	2.73	157.61

DTW Depth to Water (ft)
MPE Measuring Point Elevation (ft-msl)
WLE Water Level Elevation (ft-msl)
NM Not monitored
Please Note: MPE for well MW-1 is approximate ground surface elevations (not top of casing elevation).

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-13A	Field Parameter	Dissolved Oxygen	5.67	4.84	7.39	8.08
		eH	66	15	110	48.2
		pH	6.78	6.72	7.35	6.95
		Specific Conductivity	171	180	150	107
		TEMPERATURE	8.7	9.3	10.0	9.2
		Turbidity	0.5	1.8	0.5	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	89	87	87	83
		Alkalinity, Total (As CaCO3)	89	87	87	83
		Ammonia (As N)	0.039	0.28 JB	0.087	0.12
		Calcium, Dissolved	16	15	15	16
		Chloride	2.7	3	2.6	1.8
		Magnesium, Dissolved	9.9	8.9	9.6	9.2
		Nitrate (As N)	9.4	0.45	0.42	0.54
		Sodium, Dissolved	5.3	5.2	5.2	5.5
		Sulfate	1.9	2.1	2.1	2.2
		Total Dissolved Solids (TDS)	93	120	120	88
	Metals	Arsenic, Dissolved	0.0002	0.00023	0.0002	0.0002
		Barium, Dissolved	0.003	0.0028	0.0029	0.0029
		Vanadium, Dissolved	0.0037	0.0039	0.0039	0.0037

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-13B	Field Parameter	Dissolved Oxygen	6.11	5.28	7.96	7.57
		eH	89	19	93	89.5
		pH	7.09	7.15	7.32	7.32
		Specific Conductivity	165	175	148	140
		TEMPERATURE	8.5	9.4	10.6	9.2
		Turbidity	0.3	2.7	0	1.1
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	83	82	84	82
		Alkalinity, Total (As CaCO3)	83	82	84	82
		Ammonia (As N)		0.2 JB	0.076	
		Calcium, Dissolved	16	16	16	17
		Chloride	2.8	3.4	2.9	2.1
		Magnesium, Dissolved	8.5	8.1	8.6	8.2
		Nitrate (As N)	9.7	0.45	0.4	0.42
		Sodium, Dissolved	4.9	5.1	5	5.7
		Sulfate	3.2	3.5	3.6	3.5
		Total Dissolved Solids (TDS)	100	110	110	93
	Metals	Arsenic, Dissolved	0.0003	0.00037	0.00031	0.00036
		Barium, Dissolved	0.0031	0.0035	0.0036	0.0035
		Chromium, Dissolved	0.0033	0.003	0.0031	
		Vanadium, Dissolved	0.0055	0.0055	0.0055	0.0052
	VOC	Vinyl chloride	0.083			

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-15R	Field Parameter	Dissolved Oxygen	1.56	10.27	0.56	1.06
		eH	32.8	134.2	-46.8	127.6
		pH	6.30	6.59	6.64	6.30
		Specific Conductivity	210	164	166	134
		TEMPERATURE	9.8	10.0	10.4	10.0
		Turbidity	1.2	0.1	0.1	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	110	110	100	100
		Alkalinity, Total (As CaCO3)	110	110 JB	100	100
		Ammonia (As N)		0.31	0.058	
		Calcium, Dissolved	20	20	17	18
		Chloride	3.1	3.6	3.5	2.9
		Magnesium, Dissolved	12	13	12	11
		Nitrate (As N)	0.43		0.14	0.3
		Sodium, Dissolved	7.3	5.7	5.6	6.3
		Sulfate	4	6.1	5.9	5.6
		Total Dissolved Solids (TDS)	120	150	130	140
	Metals	Arsenic, Dissolved	0.00024	0.00025	0.00018	0.00026
		Barium, Dissolved	0.0068	0.006	0.0062	0.0059
		Manganese, Dissolved	0.0017	0.0044	0.0037	0.0018
		Vanadium, Dissolved	0.0044	0.0035	0.0026	0.0036
	VOC	Vinyl chloride	0.036	0.034		

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-16	Field Parameter	Dissolved Oxygen	4.8	4.33	5.86	6.16
		eH	49.5	85	50	136.6
		pH	6.32	6.25	6.26	6.22
		Specific Conductivity	79	118	106	85
		TEMPERATURE	8.8	9.2	9.1	9.1
		Turbidity	0.1	4.8	0	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	50	49	57	64
		Alkalinity, Total (As CaCO3)	50	49	57	64
		Ammonia (As N)	0.042	0.34 JB	0.3	
		Calcium, Dissolved	8.9	9.1	11	11
		Chloride	2.2	2.8	1	1.3
		Magnesium, Dissolved	5.5	5	6.4	6.6
		Nitrate (As N)	0.89	1.4	0.96	0.86
		Sodium, Dissolved	4.7	4.8	5.4	4.7
		Sulfate	1.6	3	3.1	3
		Total Dissolved Solids (TDS)	71	95	87	100
	Metals	Arsenic, Dissolved	0.00033	0.00035	0.0003	0.00036
		Barium, Dissolved	0.003	0.0032	0.0036	0.0037
		Chromium, Dissolved	0.0072	0.0076	0.0083	0.0067
		Vanadium, Dissolved	0.0042	0.0033	0.0043	0.0034

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-19C	Field Parameter	Dissolved Oxygen	0.24	0.43	0.35	0.23
		eH	29	2	25	78.1
		pH	6.60	6.46	6.77	6.65
		Specific Conductivity	143	161	134	104
		TEMPERATURE	9.9	10.3	11.1	10.3
		Turbidity	0.1	2.0	1.2	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	73	72	75	76
		Alkalinity, Total (As CaCO3)	73	72	75	76
		Ammonia (As N)	0.49	0.31 JB	0.37	0.55
		Calcium, Dissolved	13	13	13	13
		Chloride	3.7	4.1	3.6	3
		Magnesium, Dissolved	6.8	6.5	7.6	6.8
		Nitrate (As N)				0.12
		Potassium, Dissolved	1.2	1.5	1.3	1.5
		Sodium, Dissolved	5.7	5.7	5.8	5
		Sulfate	4.2	4.5	4.9	4.2
		Total Dissolved Solids (TDS)	110	120	100	100
	Metals	Arsenic, Dissolved	0.00307	0.00336	0.00294	0.00279
		Barium, Dissolved	0.0036	0.0037	0.0039	0.0039
		Iron, Dissolved	0.078	0.1	0.11	
		Manganese, Dissolved	1	1	1.1	1
	VOC	Trichloroethene	0.46	1.3	1.4	1.1
		Vinyl chloride	0.036	0.033	0.06	0.058

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-20	Field Parameter	Dissolved Oxygen	3.58	1.35	0.36	8.15
		eH	114	55	90	38.6
		pH	6.45	6.44	6.56	6.61
		Specific Conductivity	389	330	311	104
		TEMPERATURE	14.8	15.2	15.7	13.6
		Turbidity	3.0	0.3	0.1	2.1
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	130	150	150	53
		Alkalinity, Total (As CaCO3)	130	150	150	53
		Ammonia (As N)		0.15 JB	0.085	
		Calcium, Dissolved	34	31	30	14
		Chloride	19	14	11	1.1
		Magnesium, Dissolved	18	18	19	7.1
		Nitrate (As N)	9	2.3	0.68	8.2
		Potassium, Dissolved	3.8	3.5	3.4	2
		Sodium, Dissolved	17	13	9.5	8.4
		Sulfate	17	14	12	2
		Total Dissolved Solids (TDS)	240	240	210	130
		Total Organic Carbon (TOC)				1.3
	Metals	Arsenic, Dissolved	0.00024	0.0001	0.00026	0.0003
		Barium, Dissolved	0.018	0.013	0.012	0.0059
		Manganese, Dissolved		0.028	0.11	
	VOC	Trichloroethene			0.75 J	
		Vinyl chloride	0.022	0.11	0.17	

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-23A	Field Parameter	Dissolved Oxygen	1.14	0.17	0.27	5.77
		eH	41.3	78.1	-36.3	131.6
		pH	6.01	6.35	6.31	6.05
		Specific Conductivity	137	135	240	58
		TEMPERATURE	10.3	13.8	14.2	9.7
		Turbidity	10.6	12.9	4.9	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	86	90	120	42
		Alkalinity, Total (As CaCO3)	86	90	120	42
		Ammonia (As N)		0.15 JB	0.11	
		Calcium, Dissolved	18	18	22	8.7
		Chloride	3.8	4	3.9	1.2
		Magnesium, Dissolved	8.2	8	11	3.3
		Nitrate (As N)	0.28			0.5
		Potassium, Dissolved			1.2	
		Sodium, Dissolved	6.9 B	5.3	6.1	3
		Sulfate	5.5	4.1	4.8	1.8
		Total Dissolved Solids (TDS)	110	140	160	61
	Metals	Arsenic, Dissolved	0.00008	0.0002	0.00025	0.00025
		Barium, Dissolved	0.02	0.0067	0.012	0.0067
		Iron, Dissolved		0.41	0.92	
		Manganese, Dissolved	0.65 B	1.7	2.5	0.021
		Zinc, Dissolved		0.0081		
	VOC	1,1-Dichloroethene	0.29			

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-24	Field Parameter	Dissolved Oxygen	0.14	0.47	0.21	0.1
		eH	80	98	131	-56.9
		pH	6.2	6.3	6.4	6.5
		Specific Conductivity	193	129	138	155
		TEMPERATURE	12.1	12.6	12.0	12.0
		Turbidity	5.7	1.8	2.8	4.1
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	90	64	73	93
		Alkalinity, Total (As CaCO3)	90	64	73	93
		Ammonia (As N)		0.21 JB	0.085	
		Calcium, Dissolved	17	12	13	14
		Chloride	4	4.1	4	3.2
		Magnesium, Dissolved	10	6.7	8	7.9
		Nitrate (As N)	8.5	0.17		
		Sodium, Dissolved	5.6	4.4	4.7	4.5
		Sulfate	5.5	4.3	4.5	4.8
		Total Dissolved Solids (TDS)	110	110	100	110
	Metals	Arsenic, Dissolved	0.00043	0.00041	0.00032	0.00087
		Barium, Dissolved	0.004	0.0023	0.0028	0.0032
		Iron, Dissolved	0.081			
		Manganese, Dissolved	1.7	0.9	1.3	1.4

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-29A (monitored semi-annually)	Field Parameter	Dissolved Oxygen		0.56		0.26
		eH		-21		-21.2
		pH		5.94		5.89
		Specific Conductivity		97		76
		TEMPERATURE		8.1		8.5
		Turbidity		3.1		1.1
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)		40		37
		Alkalinity, Total (As CaCO3)		40		37
		Ammonia (As N)		0.14 JB		0.067
		Calcium, Dissolved		6.4		5.9
		Chloride		2.8		1
		Magnesium, Dissolved		3.3		3.1
		Sodium, Dissolved		3		2.6
		Total Dissolved Solids (TDS)		66		51
		Total Organic Carbon (TOC)		1.5		1.7
	Metals	Arsenic, Dissolved		0.00161		0.00173
		Barium, Dissolved		0.0093		0.0081
		Iron, Dissolved		3.7		3.5
		Manganese, Dissolved		1.2		1.1

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-2B1	Field Parameter	Dissolved Oxygen	0.89	0.91	0.24	0.87
		eH	26.9	-14	30	110.9
		pH	6.40	6.22	6.44	6.11
		Specific Conductivity	187	297	186	97
		TEMPERATURE	11.8	12.7	13.3	12.3
		Turbidity	4.7	10.5	0	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	90	140	99	61
		Alkalinity, Total (As CaCO3)	90	140	99	61
		Ammonia (As N)	2.5	1.4 JB	1.8	0.45
		Calcium, Dissolved	17	26	19	13
		Chloride	4.2	2.7	2.2	3.6
		Magnesium, Dissolved	5.6	8.4	6.3	4.7
		Nitrate (As N)	9.1	0.23	0.17	0.29
		Potassium, Dissolved	2.2	2.8	2.3	1.5
		Sodium, Dissolved	9	8.1	5.9	4.7
		Sulfate	4.5	8.1	6.7	5.3
		Total Dissolved Solids (TDS)	110 H	160	130	89
		Total Organic Carbon (TOC)		1		
	Metals	Arsenic, Dissolved	0.00027	0.0005	0.00049	0.00126
		Barium, Dissolved	0.0091	0.015	0.012	0.0059
		Iron, Dissolved		1	0.9	0.062
		Manganese, Dissolved	1.8	2.8	2.1	0.37

(H) reanalysis of sample was performed out of the 7-day holding time.

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-32	Field Parameter	Dissolved Oxygen	1.04	10.18	0.48	0.85
		eH	23	-58	-49.9	2.6
		pH	6.70	6.57	6.73	6.61
		Specific Conductivity	203	240	402	242
		TEMPERATURE	11.2	12.2	13.2	12.2
		Turbidity	2.3	2.7	3.0	2.1
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	120	120	150	120
		Alkalinity, Total (As CaCO3)	120	120	150	120
		Ammonia (As N)		0.17 JB	0.086	
		Calcium, Dissolved	25	22	33	22
		Chloride	10	9.5	19	12
		Magnesium, Dissolved	13	11	18	11
		Potassium, Dissolved			1.1	
		Sodium, Dissolved	16 B	14	17	13
		Sulfate	14	14	27	16
		Total Dissolved Solids (TDS)	190	200	270	200
		Total Organic Carbon (TOC)		1.1	1.7	1.1
	Metals	Arsenic, Dissolved	0.00859	0.009	0.0088	0.0114
		Barium, Dissolved	0.0052	0.004	0.0065	0.0052
		Iron, Dissolved	0.61	0.56	0.77	0.59
		Manganese, Dissolved	1.9 B	1.7	2.7	2.2
	VOC	Trichloroethene		0.7	0.48 J	0.57 J
		Vinyl chloride	0.34	0.41	0.36	0.63

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-33A (monitored semi-annually)	Field Parameter	Dissolved Oxygen		0.26		0.49
		eH		-31		-51.9
		pH		6.85		6.46
		Specific Conductivity		125		84
		TEMPERATURE		8.6		9.2
		Turbidity		4.6		9.5
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)		65		45
		Alkalinity, Total (As CaCO3)		65		45
		Ammonia (As N)		0.28 JB		0.25
		Calcium, Dissolved		14		9.4
		Chloride		2.4		2
		Magnesium, Dissolved		6.7		4.4
		Sodium, Dissolved		3.7		3.1
		Sulfate		3.9		2
		Total Dissolved Solids (TDS)		110		70
		Total Organic Carbon (TOC)				1.5
	Metals	Arsenic, Dissolved		0.00013		0.00037
		Barium, Dissolved		0.001		0.0021
		Iron, Dissolved				2.1
		Manganese, Dissolved		0.0036		0.081

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-33C	Field Parameter	Dissolved Oxygen	0.76	0.15	0.29	0.28
		eH	68	-95	-79.6	-36.4
		pH	7.65	6.94	8.05	7.89
		Specific Conductivity	119	140	135	141
		TEMPERATURE	8.5	9.0	9.6	9.0
		Turbidity	4.9	3.5	4.0	0.3
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	70	68	69	66
		Alkalinity, Total (As CaCO3)	70	68	69	66
		Ammonia (As N)	0.14	0.15 JB	0.11	
		Calcium, Dissolved	16	16	18	17
		Chloride	3.3	2.6	4.3	3
		Magnesium, Dissolved	7	6.7	7.3	6.7
		Potassium, Dissolved	1.2	1.2	1.4	1.3
		Sodium, Dissolved	4.2	4.4	4.5	4.6
		Sulfate	7.8	8.5	8.4	8
		Total Dissolved Solids (TDS)	91	130	100	92
	Metals	Arsenic, Dissolved	0.00223	0.00243	0.00203	0.00266
		Barium, Dissolved	0.0035	0.0034	0.0034	0.0038
		Manganese, Dissolved	0.13	0.12	0.14	0.14

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-34A	Field Parameter	Dissolved Oxygen	4.04	5.08	3.43	8.18
		eH	4.89	138.5	-0.3	51.9
		pH	5.99	6.22	6.18	5.76
		Specific Conductivity	140	114	183	93
		TEMPERATURE	10.9	11.6	11.8	11.2
		Turbidity	1.1	0.6	4.1	0.4
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	62	78	88	33
		Alkalinity, Total (As CaCO3)	62	78	88	33
		Ammonia (As N)	0.045	0.15 JB	0.07	
		Calcium, Dissolved	13	14	16	9.3
		Chloride	3.6	3.8	3.6	1.9
		Magnesium, Dissolved	5.8	6.8	8.4	2.6
		Nitrate (As N)	1.5	0.87	0.93	4.2
		Sodium, Dissolved	7.8	7.5	8.1	7.5
		Sulfate	1.9	2.2	1.6	
		Total Dissolved Solids (TDS)	110	150	140	85
	Metals	Arsenic, Dissolved	0.00041	0.00057	0.0005	0.00033
		Barium, Dissolved	0.0043	0.0038	0.0046	0.0044
		Chromium, Dissolved	0.0065	0.0069	0.0069	0.0055
		Nickel, Dissolved	0.0048			0.0073
		Vanadium, Dissolved	0.0042	0.0051	0.0048	0.0025

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-34C	Field Parameter	Dissolved Oxygen	0.76	0.56	2.9	0.58
		eH	16.3	4.3	-18.8	-6
		pH	6.48	6.67	6.65	6.62
		Specific Conductivity	297	206	286	246
		TEMPERATURE	11.6	12.2	12.3	12.6
		Turbidity	106.1	454.7	374.9	35.4
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	150	140	140	140
		Alkalinity, Total (As CaCO3)	150	140	140	140
		Ammonia (As N)		0.18 J B	0.18	
		Calcium, Dissolved	29	26	25	26
		Chloride	5.6	5.3	5.5	5.4
		Magnesium, Dissolved	13	11	12	12
		Potassium, Dissolved	1.1	1		1.1
		Sodium, Dissolved	16	15	16	16
		Sulfate	5.4	5.7	5.8	7.2
		Total Dissolved Solids (TDS)	200	210	210	210
		Total Organic Carbon (TOC)	1.9	2.7	2.6	1.4
	Metals	Arsenic, Dissolved	0.00117	0.0013	0.00117	0.0042
		Barium, Dissolved	0.011	0.011	0.0099	0.011
		Iron, Dissolved	0.8	0.82	0.48	0.77
		Manganese, Dissolved	0.68	0.61	0.64	0.64
	VOC	Vinyl chloride	0.14	0.14	0.13	0.11

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-35	Field Parameter	Dissolved Oxygen	5.92	4.75	7.58	7.14
		eH	88	42	48	-3
		pH	7.02	6.98	7.11	7.16
		Specific Conductivity	152	138	135	148
		TEMPERATURE	9.8	10.3	10.2	9.8
		Turbidity	0.2	3.0	0	3.3
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	77	77	78	76
		Alkalinity, Total (As CaCO3)	77	77	78	76
		Ammonia (As N)	0.03	0.6 JB	0.069	
		Calcium, Dissolved	14	13	13	14
		Chloride	2.9	1.3	2.4	1.9
		Magnesium, Dissolved	9	8.3	8.9	8.6
		Nitrate (As N)	0.45	0.43	0.37	0.42
		Sodium, Dissolved	5	4.8	4.9	4.5
		Sulfate	2.1	2.4	2.4	2.5
		Total Dissolved Solids (TDS)	85	120	110	100
	Metals	Arsenic, Dissolved	0.00011	0.00013	0.00013	0.00013
		Barium, Dissolved	0.0039	0.0028	0.003	0.0029
		Iron, Dissolved		0.07		
		Vanadium, Dissolved	0.0046	0.0042	0.0043	0.0041

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-36A	Field Parameter	Dissolved Oxygen	2.41	1.88	1.96	1.65
		eH	29.3	147.4	-23.4	164.2
		pH	6.04	6.10	6.25	5.78
		Specific Conductivity	158	114	104	93
		TEMPERATURE	9.0	9.3	10.0	9.2
		Turbidity	2.1	0.9	0.9	0
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	67	64	60	64
		Alkalinity, Total (As CaCO3)	67	64	60	64
		Ammonia (As N)	0.072	0.3 JB	0.055	
		Calcium, Dissolved	11	11	11	10
		Chloride	2.1	2.5	2.4	1.5
		Magnesium, Dissolved	6	5.7	6.1	5.9
		Nitrate (As N)	1.4	1.8	1.1	0.86
		Potassium, Dissolved	1.3	1.1	1.1	1.1
		Sodium, Dissolved	12	10	6.9	7.6
		Sulfate	8.2	5.7	2.9	4.9
		Total Dissolved Solids (TDS)	110	130	110	110
	Metals	Arsenic, Dissolved	0.00081	0.0008	0.00064	0.0008
		Barium, Dissolved	0.0034	0.0025	0.0022	0.0023
		Chromium, Dissolved	0.015	0.011	0.0078	0.011
		Manganese, Dissolved	0.0019	0.0015	0.0011	0.0011
		Selenium, Dissolved		0.0018		0.001
		Vanadium, Dissolved	0.0033	0.0029	0.0029	0.0028

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-39	Field Parameter	Dissolved Oxygen	1.01	0.39	0.33	1.58
		eH	64	-80	-84	-15.4
		pH	5.77	6.07	6.33	5.85
		Specific Conductivity	154	268	219	156
		TEMPERATURE	9.4	9.5	10.8	11.6
		Turbidity	7.7	4.9	1.8	3.3
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	57	93	110	61
		Alkalinity, Total (As CaCO3)	57	93	110	61
		Ammonia (As N)	0.033	0.36 JB	0.34	0.04
		Calcium, Dissolved	12	11	11	14
		Chloride	2.8	4.7	5.6	2
		Magnesium, Dissolved	5.8	6.9	7.2	6
		Nitrate (As N)	2.5	0.1		5.3
		Sodium, Dissolved	6	7.9	7.8	7.4
		Sulfate	2.1			2.1
		Total Dissolved Solids (TDS)	76	130	120	110
		Total Organic Carbon (TOC)		2.7	2.5	1
	Metals	Arsenic, Dissolved	0.00016	0.00223	0.00151	0.00009
		Barium, Dissolved	0.0095	0.011	0.011	0.01
		Cobalt, Dissolved		0.0072	0.0066	
		Iron, Dissolved	2.3	34	33	
		Manganese, Dissolved	0.073	0.44	0.44	0.004

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-4	Field Parameter	Dissolved Oxygen	2.82	0.2	1.12	4.17
		eH	46.8	80	26	66.4
		pH	5.77	6.52	6.63	5.77
		Specific Conductivity	50	125	116	50
		TEMPERATURE	8.1	9.2	9.1	10.0
		Turbidity	2.6	2.9	0	1.8
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	28	66	65	24
		Alkalinity, Total (As CaCO3)	28	66	65	24
		Ammonia (As N)		0.22 JB	0.12	
		Calcium, Dissolved	5.6	12	12	5.5
		Chloride	3.5	2.2	3.1	3.5
		Magnesium, Dissolved	2.8	5.9	6.5	2.5
		Nitrate (As N)	9			0.23
		Sodium, Dissolved	3.3	6.2	6.3	3.8
		Sulfate	2.6	4.5	4.1	1.8
		Total Dissolved Solids (TDS)	41	120	92	57
	Metals	Arsenic, Dissolved	0.00031	0.00072	0.00105	0.001
		Barium, Dissolved	0.0014	0.0021	0.0018	0.0017
		Manganese, Dissolved	0.047	0.9	1.1	0.034
	VOC	Vinyl chloride		0.083	0.11	

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-42	Field Parameter	Dissolved Oxygen	1.06	0.23	0.14	0.13
		eH	-72	-102	-123	-71.7
		pH	6.34	6.29	6.50	6.48
		Specific Conductivity	609	527	443	585
		TEMPERATURE	11.3	11.4	12.6	12.3
		Turbidity	3.8	2.2	2.1	0.8
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	250	220	200	240
		Alkalinity, Total (As CaCO3)	250	220	200	240
		Ammonia (As N)	5.0	2.2 JB	3.3	
		Calcium, Dissolved	42	40	36	44
		Chloride	18	28	27	24
		Magnesium, Dissolved	18	17	17	18
		Potassium, Dissolved	7.1	6.6	6	7.8
		Sodium, Dissolved	22	22	19	21
		Sulfate	15	14	14	16
		Total Dissolved Solids (TDS)	280	300	250	310
		Total Organic Carbon (TOC)	8	7.2	6.4	8.2
	Metals	Arsenic, Dissolved	0.00156	0.0014	0.0016	0.0016
		Barium, Dissolved	0.13	0.12	0.11	0.13
		Cobalt, Dissolved		0.0031		
		Iron, Dissolved	28	27	23	28
		Manganese, Dissolved	5.3	4.9	4.5	5
	VOC	Trichloroethene			0.51 J	
		Vinyl chloride	0.02	0.051	0.15	0.03

(J) result is an estimate, or elevated reporting limit

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
MW-43	Field Parameter	Dissolved Oxygen	4.75	1.73	1.9	2.37
		eH	120	73	163	11.2
		pH	5.60	5.77	6.16	5.60
		Specific Conductivity	39	45	41	49
		TEMPERATURE	6.6	7.5	9.4	11.1
		Turbidity	3.7	3.3	4.0	2.4
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	15	17	17	18
		Alkalinity, Total (As CaCO3)	15	17	17	18
		Ammonia (As N)	0.099	0.15	0.089	0.07
		Calcium, Dissolved	3.5	3.8	4	4.1
		Chloride		3.2	2.9	1.4
		Magnesium, Dissolved	1.5	1.5	1.8	1.7
		Nitrate (As N)	0.31	0.32	0.28	0.57
		Sodium, Dissolved	2.1	2.2	2.4	2.5
		Sulfate	1.8	1.9	1.8	2
		Total Dissolved Solids (TDS)	34	50	34	41
		Total Organic Carbon (TOC)	1.2		1.7	1.4
	Metals	Arsenic, Dissolved		0.00005		0.00005
		Barium, Dissolved	0.0043	0.0038	0.0034	0.0043
		Iron, Dissolved	0.38	0.42		0.45
		Manganese, Dissolved	0.25	0.21	0.017	0.18

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
LP-LCD	Field Parameter	Dissolved Oxygen	9.7	11.6	6.88	6.41
		eH	43.1	65.8	-4	-33.8
		pH	7.03	6.84	7.46	7.11
		Specific Conductivity	3096	4381	4130	3110
		TEMPERATURE	10.6	123	12.4	11.2
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)	960	1000	1100	1200
		Alkalinity, Total (As CaCO3)	960	1000	1100	1200
		Ammonia (As N)	20	8.5	12	17
		Calcium, Total	54	55	62	62
		Chloride	750	920	870	890
		Sulfate	190	230	250	230
		Total Dissolved Solids (TDS)	2700	2800	3200	3200
		Magnesium, Total	33	33	37	38
		Sodium, Total	920	970	990	960
		Potassium, Total	63	60	68	78
		Total Organic Carbon (TOC)	87	75	93	96
	Metal	Iron, Total	1.8	1	1	1
		Manganese, Total	1.6	1.1	1.4	1.5

(B) blank contamination

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 4. 2012 Groundwater, Leachate Influent (L-INF) and Leak Detection (LP-LCD) Analytical Results and Field Parameters, OVSL

Location	Class	Parameter	Mar-12	Jun-12	Sep-12	Dec-12
L-INF (monitored annually)	Field Parameter	Dissolved Oxygen				5.00
		eH				86.8
		pH				6.39
		Specific Conductivity				696
		TEMPERATURE				6.09
	General Chemistry	Alkalinity, Bicarbonate (As CaCO3)				150
		Alkalinity, Total (As CaCO3)				150
		Ammonia (As N)				31
		Calcium, Dissolved				42
		Calcium, Total				26
		Chemical Oxygen Demand (COD)				56
		Chloride				110
		Magnesium, Dissolved				16
		Magnesium, Total				10
		Nitrite (As N)				3
		Potassium, Dissolved				23
		Potassium, Total				14
		Sodium, Dissolved				140
		Sodium, Total				86
		Sulfate				87
		Total Dissolved Solids (TDS)				340
		Total Organic Carbon (TOC)				17
		Total Coliform				4590
	Metals	Antimony, Total				0.0028
		Arsenic, Total				0.0047
		Barium, Total				0.037
		Cadmium, Total				0.00022
		Copper, Total				0.0057
		Iron, Total				0.38
		Iron, Dissolved				0.22
		Manganese, Dissolved				0.47
		Manganese, Total				0.33
		Nickel, Total				0.01
		Vanadium, Total				0.0032
		Zinc, Dissolved				0.083
		Zinc, Total				0.063
	VOC	1,2,4-Trimethylbenzene				0.79 J
		1,4-Dichlorobenzene				0.87 J
		4-methyl 2-pentanone				4.2 J
		Acetone				7.5 J
		Ethylbenzene				0.81 J
		m,p-xylene				2.1
		o-Xylene				1.2
		Tetrahydrofuran				71
		Toluene				1.1

(J) result is an estimate, or elevated reporting limit

Blank cell parameter not detected abouve the reporting limit, or not analyzed

Table 5. 2012 Groundwater and Leachate Influent (L-INF) Volatile Organic Compound (µg/L) Detections, OVSL

Parameter	Sample Location	Event	Result	
1,1-Dichloroethene	MW-23A	Mar-12	0.29	
1,2,4-Trimethylbenzene	L-INF	Dec-12	0.79	J
1,4-Dichlorobenzene	L-INF	Dec-12	0.87	J
4-methyl 2-pentanone	L-INF	Dec-12	4.2	J
Acetone	L-INF	Dec-12	7.5	J
Ethylbenzene	L-INF	Dec-12	0.81	J
m,p-xylene	L-INF	Dec-12	2.1	
o-Xylene	L-INF	Dec-12	1.2	
Tetrahydrofuran	L-INF	Dec-12	71	
Toluene	L-INF	Dec-12	1.1	
Trichloroethene	MW-19C	Mar-12	0.46	
		Jun-12	1.3	
		Sep-12	1.4	
		Dec-12	1.1	
	MW-20	Sep-12	0.75	J
	MW-32	Jun-12	0.7	J
		Sep-12	0.48	J
		Dec-12	0.57	J
	MW-42	Sep-12	0.51	J
Vinyl chloride	MW-13B	Mar-12	0.083	
	MW-15R	Mar-12	0.036	
		Jun-12	0.034	
	MW-19C	Mar-12	0.036	
		Jun-12	0.033	
		Sep-12	0.06	
		Dec-12	0.058	
	MW-20	Mar-12	0.022	
		Jun-12	0.11	
		Sep-12	0.17	
	MW-32	Mar-12	0.34	
		Jun-12	0.41	
		Sep-12	0.36	
		Dec-12	0.63	
	MW-34C	Mar-12	0.14	
		Jun-12	0.14	
		Sep-12	0.13	
		Dec-12	0.11	
	MW-4	Jun-12	0.083	
		Sep-12	0.11	
	MW-42	Mar-12	0.02	
		Jun-12	0.051	
		Sep-12	0.15	
		Dec-12	0.03	

(J) result is an estimate, or elevated reporting limit

Table 6. 2012 MTCA Parameter Exceedances in Groundwater for Compliance and Downgradient Wells, OVSL

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	95% UCL of Mean[3]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-15R	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-15R	Compliance	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-15R	Compliance	Arsenic, dissolved	0.24	LN	0.462	ug/L	No	No
MW-15R	Compliance	Iron, dissolved	0.06	B	0.30	mg/L	No	No
MW-15R	Compliance	Manganese, dissolved	0.004	LN	0.05	mg/L	No	Yes (▼)
MW-15R	Compliance	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-15R	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-15R	Compliance	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-15R	Compliance	Vinyl Chloride	0.09	LN	0.20	ug/L	No	No
MW-15R	Compliance	Ammonia as N	0.05	LN	0.19	mg/L	No	No
MW-34A	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-34A	Compliance	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-34A	Compliance	Arsenic, dissolved	0.508	Z	0.462	ug/L	Yes	No
MW-34A	Compliance	Iron, dissolved	0.06	B	0.30	mg/L	No	No
MW-34A	Compliance	Manganese, dissolved	0.0010	B	0.05	mg/L	No	No
MW-34A	Compliance	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-34A	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-34A	Compliance	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-34A	Compliance	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-34A	Compliance	Ammonia as N	0.07	LN	0.19	mg/L	No	No
MW-34C	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-34C	Compliance	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-34C	Compliance	Arsenic, dissolved	1.89	Z	0.462	ug/L	Yes	Yes (▼)
MW-34C	Compliance	Iron, dissolved	1.16	LN	0.30	mg/L	Yes	No
MW-34C	Compliance	Manganese, dissolved	0.83	LN	0.05	mg/L	Yes	No
MW-34C	Compliance	cis-1,2-dichloroethene	0.81	A*	35	ug/L	No	No
MW-34C	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-34C	Compliance	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-34C	Compliance	Vinyl Chloride	0.20	Z	0.20	ug/L	No	No
MW-34C	Compliance	Ammonia as N	0.12	N	0.19	mg/L	No	No
MW-39	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-39	Compliance	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-39	Compliance	Arsenic, dissolved	1.84	N	0.462	ug/L	Yes	No
MW-39	Compliance	Iron, dissolved	33.8	Z	0.30	mg/L	Yes	No
MW-39	Compliance	Manganese, dissolved	0.51	Z	0.05	mg/L	Yes	No
MW-39	Compliance	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-39	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-39	Compliance	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-39	Compliance	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-39	Compliance	Ammonia as N	0.35	N	0.19	mg/L	Yes	No
MW-42	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-42	Compliance	1,4-Dichlorobenzene	0.84	A*	2.0	ug/L	No	No
MW-42	Compliance	Arsenic, dissolved	1.6	Z	0.462	ug/L	Yes	No
MW-42	Compliance	Iron, dissolved	26.6	Z	0.30	mg/L	Yes	No
MW-42	Compliance	Manganese, dissolved	5.2	LN	0.05	mg/L	Yes	No
MW-42	Compliance	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-42	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-42	Compliance	Trichloroethene	0.51	A	1.0	ug/L	No	No
MW-42	Compliance	Vinyl Chloride	0.10	LN	0.20	ug/L	No	No
MW-42	Compliance	Ammonia as N	4.75	Z	0.19	mg/L	Yes	No

Table 6. 2012 MTCA Parameter Exceedances in Groundwater for Compliance and Downgradient Wells, OVSL

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	95% UCL of Mean[3]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-43	Compliance	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-43	Compliance	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-43	Compliance	Arsenic, dissolved	0.05	A	0.462	ug/L	No	No
MW-43	Compliance	Iron, dissolved	0.29	N	0.30	mg/L	No	No
MW-43	Compliance	Manganese, dissolved	0.23	N	0.05	mg/L	Yes	No
MW-43	Compliance	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-43	Compliance	Ethyl ether	0.72	B	50	ug/L	No	No
MW-43	Compliance	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-43	Compliance	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-43	Compliance	Ammonia as N	0.13	LN	0.19	mg/L	No	No
MW-29A	Downgradient	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-29A	Downgradient	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-29A	Downgradient	Arsenic, dissolved	1.88	LN	0.462	ug/L	Yes	No
MW-29A	Downgradient	Iron, dissolved	4.27	LN	0.30	mg/L	Yes	No
MW-29A	Downgradient	Manganese, dissolved	1.37	Z	0.05	mg/L	Yes	No
MW-29A	Downgradient	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-29A	Downgradient	Ethyl ether	0.72	B	50	ug/L	No	No
MW-29A	Downgradient	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-29A	Downgradient	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-29A	Downgradient	Ammonia as N	0.14	Z	0.19	mg/L	No	No
MW-32	Downgradient	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-32	Downgradient	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-32	Downgradient	Arsenic, dissolved	10.5	LN	0.462	ug/L	Yes	No
MW-32	Downgradient	Iron, dissolved	0.71	Z	0.30	mg/L	Yes	Yes (▼)
MW-32	Downgradient	Manganese, dissolved	2.34	Z	0.05	mg/L	Yes	No
MW-32	Downgradient	cis-1,2-dichloroethene	0.81	A*	35	ug/L	No	No
MW-32	Downgradient	Ethyl ether	0.72	B	50	ug/L	No	No
MW-32	Downgradient	Trichloroethene	0.70	A	1.0	ug/L	No	No
MW-32	Downgradient	Vinyl Chloride	0.45	LN	0.20	ug/L	Yes	No
MW-32	Downgradient	Ammonia as N	0.10	LN	0.19	mg/L	No	No
MW-33A	Downgradient	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-33A	Downgradient	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-33A	Downgradient	Arsenic, dissolved	0.26	Z	0.462	ug/L	No	No
MW-33A	Downgradient	Iron, dissolved	1.3	N	0.30	mg/L	Yes	No
MW-33A	Downgradient	Manganese, dissolved	0.08	A**	0.05	mg/L	Yes	No
MW-33A	Downgradient	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-33A	Downgradient	Ethyl ether	0.72	B	50	ug/L	No	No
MW-33A	Downgradient	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-33A	Downgradient	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-33A	Downgradient	Ammonia as N	0.25	N	0.19	mg/L	Yes	No

Table 6. 2012 MTCA Parameter Exceedances in Groundwater for Compliance and Downgradient Wells, OVSL

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	95% UCL of Mean[3]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-33C	Downgradient	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-33C	Downgradient	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-33C	Downgradient	Arsenic, dissolved	2.59	Z	0.462	ug/L	**Yes**	No
MW-33C	Downgradient	Iron, dissolved	0.06	B	0.3	mg/L	No	No
MW-33C	Downgradient	Manganese, dissolved	0.14	Z	0.05	mg/L	**Yes**	No
MW-33C	Downgradient	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-33C	Downgradient	Ethyl ether	0.72	B	50	ug/L	No	No
MW-33C	Downgradient	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-33C	Downgradient	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-33C	Downgradient	Ammonia as N	0.14	LN	0.19	mg/L	No	No
MW-36A	Downgradient	1,1-Dichloroethane	0.38	B	50	ug/L	No	No
MW-36A	Downgradient	1,4-Dichlorobenzene	0.84	B	2.0	ug/L	No	No
MW-36A	Downgradient	Arsenic, dissolved	0.91	LN	0.462	ug/L	**Yes**	No
MW-36A	Downgradient	Iron, dissolved	0.06	B	0.3	mg/L	No	No
MW-36A	Downgradient	Manganese, dissolved	0.02	LN	0.05	mg/L	No	No
MW-36A	Downgradient	cis-1,2-dichloroethene	0.81	B	35	ug/L	No	No
MW-36A	Downgradient	Ethyl ether	0.72	B	50	ug/L	No	No
MW-36A	Downgradient	Trichloroethene	0.46	B	1.0	ug/L	No	No
MW-36A	Downgradient	Vinyl Chloride	0.02	B	0.20	ug/L	No	No
MW-36A	Downgradient	Ammonia as N	0.07	LN	0.19	mg/L	No	No

NOTES:

* Well MW-9 is no longer routinely sampled and no longer included on this table

[1] N = number of data points used for UCL calculation of the mean; only SIM results used for Vinyl Chloride (e.g., duplicate results with higher RLs by non-SIM were omi

[2] MAX = maximum detected result in the data set; if no detected results, then = maximum reporting limit for non-detect results (indicated with ND).

[3] A 3-year moving data set is used for calculation of the UCL.

[4] ug/L - micrograms per liter; mg/L = milligrams per liter.

[5] Groundwater Cleanup Levels are listed on Table 3 of the October 2010 Draft Cleanup Action Plan.

[6] Trend analysis results are based on data for the period January 2005 through December 2012; arrows indicated increasing (▲) or decreasing (▼) trends.

[7] For MW-15R, gross outlier of 0.31 mg/L from 6-7-12 sampling event was removed prior to UCL calculation.

[8] For MW-36A, gross outlier of 0.30 mg/L from 6-7-12 sampling event was removed prior to UCL calculation.

A = Detection frequency of data set too low to calculate 95% UCL of mean; therefore, the highest detected result in the data set used to represent 95% UCL of mean.

A* = Same as note "A" except that the highest value in the data set is below the reporting limit of one or more non-detected results; therefore, the highest reporting limit is used to represent the 95% UCL of the mean.

A** = MTCAStat suggests use of lognormal formula but calculation of 95% UCL of mean by Land's formula provides unrealistic result; therefore, the highest detected result is used to represent the 95% UCL of the mean.

B = Detection frequency = 0; therefore, the highest reporting limit in the data set is used to represent the 95% UCL of mean.

LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.

N = The 95% UCL of the mean is calculated using a normal-based t-statistic since a normal distribution is indicated.

Z = the 95% UCL of the mean is calculated using the Z-score method in MTCAStat since neither normal nor lognormal distribution can be determined.

Table 7. 2012 WAC 173-200, Federal MCL, and MTCA Exceedances in Groundwater, OVSL

Parameter	Well	Event	Result	WAC 173-200	Primary MCL	Secondary MCL	MTCA Cleanup Level
pH	MW-15R	Mar-12	6.30	6.5-8.5		6.5-8.5	
		Dec-12	6.30	6.5-8.5		6.5-8.5	
	MW-16	Mar-12	6.32	6.5-8.5		6.5-8.5	
		Jun-12	6.25	6.5-8.5		6.5-8.5	
		Sep-12	6.26	6.5-8.5		6.5-8.5	
		Dec-12	6.22	6.5-8.5		6.5-8.5	
	MW-19C	Jun-12	6.46	6.5-8.5		6.5-8.5	
	MW-20	Mar-12	6.45	6.5-8.5		6.5-8.5	
		Jun-12	6.44	6.5-8.5		6.5-8.5	
	MW-23A	Mar-12	6.01	6.5-8.5		6.5-8.5	
		Jun-12	6.35	6.5-8.5		6.5-8.5	
		Sep-12	6.31	6.5-8.5		6.5-8.5	
		Dec-12	6.05	6.5-8.5		6.5-8.5	
	MW-24	Mar-12	6.19	6.5-8.5		6.5-8.5	
		Jun-12	6.27	6.5-8.5		6.5-8.5	
		Sep-12	6.42	6.5-8.5		6.5-8.5	
		Dec-12	6.45	6.5-8.5		6.5-8.5	
	MW-29A	Jun-12	5.94	6.5-8.5		6.5-8.5	
		Dec-12	5.89	6.5-8.5		6.5-8.5	
	MW-2B1	Mar-12	6.40	6.5-8.5		6.5-8.5	
		Jun-12	6.22	6.5-8.5		6.5-8.5	
		Sep-12	6.44	6.5-8.5		6.5-8.5	
		Dec-12	6.11	6.5-8.5		6.5-8.5	
	MW-33A	Dec-12	6.46	6.5-8.5		6.5-8.5	
	MW-34A	Mar-12	5.99	6.5-8.5		6.5-8.5	
		Jun-12	6.22	6.5-8.5		6.5-8.5	
		Sep-12	6.18	6.5-8.5		6.5-8.5	
		Dec-12	5.76	6.5-8.5		6.5-8.5	
	MW-34C	Mar-12	6.48	6.5-8.5		6.5-8.5	
	MW-36A	Mar-12	6.04	6.5-8.5		6.5-8.5	
		Jun-12	6.10	6.5-8.5		6.5-8.5	
		Sep-12	6.25	6.5-8.5		6.5-8.5	
		Dec-12	5.78	6.5-8.5		6.5-8.5	
	MW-39	Mar-12	5.77	6.5-8.5		6.5-8.5	
		Jun-12	6.07	6.5-8.5		6.5-8.5	
		Sep-12	6.33	6.5-8.5		6.5-8.5	
		Dec-12	5.85	6.5-8.5		6.5-8.5	
	MW-4	Mar-12	5.77	6.5-8.5		6.5-8.5	
		Dec-12	5.77	6.5-8.5		6.5-8.5	
	MW-42	Mar-12	6.34	6.5-8.5		6.5-8.5	
		Jun-12	6.29	6.5-8.5		6.5-8.5	
		Dec-12	6.48	6.5-8.5		6.5-8.5	
	MW-43	Mar-12	5.60	6.5-8.5		6.5-8.5	
		Jun-12	5.77	6.5-8.5		6.5-8.5	
		Sep-12	6.16	6.5-8.5		6.5-8.5	
		Dec-12	5.60	6.5-8.5		6.5-8.5	

Table 7. 2012 WAC 173-200, Federal MCL, and MTCA Exceedances in Groundwater, OVSL

Parameter	Well	Event	Result	WAC 173-200	Primary MCL	Secondary MCL	MTCA Cleanup Level
Arsenic, Dissolved	MW-13A	Mar-12	0.00020	0.00005	0.01		0.00046
		Jun-12	0.00023	0.00005	0.01		0.00046
		Sep-12	0.00020	0.00005	0.01		0.00046
		Dec-12	0.00020	0.00005	0.01		0.00046
	MW-13B	Mar-12	0.00030	0.00005	0.01		0.00046
		Jun-12	0.00037	0.00005	0.01		0.00046
		Sep-12	0.00031	0.00005	0.01		0.00046
		Dec-12	0.00036	0.00005	0.01		0.00046
	MW-15R	Mar-12	0.00024	0.00005	0.01		0.00046
		Jun-12	0.00025	0.00005	0.01		0.00046
		Sep-12	0.00018	0.00005	0.01		0.00046
		Dec-12	0.00026	0.00005	0.01		0.00046
	MW-16	Mar-12	0.00033	0.00005	0.01		0.00046
		Jun-12	0.00035	0.00005	0.01		0.00046
		Sep-12	0.00030	0.00005	0.01		0.00046
		Dec-12	0.00036	0.00005	0.01		0.00046
	MW-19C	Mar-12	0.00307	0.00005	0.01		0.00046
		Jun-12	0.00336	0.00005	0.01		0.00046
		Sep-12	0.00294	0.00005	0.01		0.00046
		Dec-12	0.00279	0.00005	0.01		0.00046
	MW-20	Mar-12	0.00024	0.00005	0.01		0.00046
		Jun-12	0.00010	0.00005	0.01		0.00046
		Sep-12	0.00026	0.00005	0.01		0.00046
		Dec-12	0.00030	0.00005	0.01		0.00046
	MW-23A	Mar-12	0.00008	0.00005	0.01		0.00046
		Jun-12	0.00020	0.00005	0.01		0.00046
		Sep-12	0.00025	0.00005	0.01		0.00046
		Dec-12	0.00025	0.00005	0.01		0.00046
	MW-24	Mar-12	0.00043	0.00005	0.01		0.00046
		Jun-12	0.00041	0.00005	0.01		0.00046
		Sep-12	0.00032	0.00005	0.01		0.00046
		Dec-12	0.00087	0.00005	0.01		0.00046
	MW-29A	Jun-12	0.00161	0.00005	0.01		0.00046
		Dec-12	0.00173	0.00005	0.01		0.00046
	MW-2B1	Mar-12	0.00027	0.00005	0.01		0.00046
		Jun-12	0.00050	0.00005	0.01		0.00046
		Sep-12	0.00049	0.00005	0.01		0.00046
		Dec-12	0.00126	0.00005	0.01		0.00046
	MW-32	Mar-12	0.00859	0.00005	0.01		0.00046
		Jun-12	0.00900	0.00005	0.01		0.00046
		Sep-12	0.00880	0.00005	0.01		0.00046
		Dec-12	0.01140	0.00005	0.01		0.00046
	MW-33A	Jun-12	0.00013	0.00005	0.01		0.00046
		Dec-12	0.00037	0.00005	0.01		0.00046
	MW-33C	Mar-12	0.00223	0.00005	0.01		0.00046
		Jun-12	0.00243	0.00005	0.01		0.00046
		Sep-12	0.00203	0.00005	0.01		0.00046
		Dec-12	0.00266	0.00005	0.01		0.00046
	MW-34A	Mar-12	0.00041	0.00005	0.01		0.00046
		Jun-12	0.00057	0.00005	0.01		0.00046
		Sep-12	0.00050	0.00005	0.01		0.00046
		Dec-12	0.00033	0.00005	0.01		0.00046
	MW-34C	Mar-12	0.00117	0.00005	0.01		0.00046
		Jun-12	0.00130	0.00005	0.01		0.00046
		Sep-12	0.00117	0.00005	0.01		0.00046
		Dec-12	0.00420	0.00005	0.01		0.00046
	MW-35	Mar-12	0.00011	0.00005	0.01		0.00046
		Jun-12	0.00013	0.00005	0.01		0.00046
		Sep-12	0.00013	0.00005	0.01		0.00046
		Dec-12	0.00013	0.00005	0.01		0.00046
	MW-36A	Mar-12	0.00081	0.00005	0.01		0.00046
		Jun-12	0.00080	0.00005	0.01		0.00046
		Sep-12	0.00064	0.00005	0.01		0.00046
		Dec-12	0.00080	0.00005	0.01		0.00046
	MW-39	Mar-12	0.00016	0.00005	0.01		0.00046
		Jun-12	0.00223	0.00005	0.01		0.00046
		Sep-12	0.00151	0.00005	0.01		0.00046
		Dec-12	0.00009	0.00005	0.01		0.00046
	MW-4	Mar-12	0.00031	0.00005	0.01		0.00046
		Jun-12	0.00072	0.00005	0.01		0.00046
		Sep-12	0.00105	0.00005	0.01		0.00046
		Dec-12	0.00100	0.00005	0.01		0.00046
	MW-42	Mar-12	0.00156	0.00005	0.01		0.00046
		Jun-12	0.00140	0.00005	0.01		0.00046
		Sep-12	0.00160	0.00005	0.01		0.00046
		Dec-12	0.00160	0.00005	0.01		0.00046

Table 7. 2012 WAC 173-200, Federal MCL, and MTCA Exceedances in Groundwater, OVSL

Parameter	Well	Event	Result	WAC 173-200	Primary MCL	Secondary MCL	MTCA Cleanup Level
Iron, Dissolved	MW-23A	Jun-12	0.41	0.3		0.3	0.3
		Sep-12	0.92	0.3		0.3	0.3
	MW-29A	Jun-12	3.7	0.3		0.3	0.3
		Dec-12	3.5	0.3		0.3	0.3
	MW-2B1	Jun-12	1	0.3		0.3	0.3
		Sep-12	0.9	0.3		0.3	0.3
	MW-32	Mar-12	0.61	0.3		0.3	0.3
		Jun-12	0.56	0.3		0.3	0.3
		Sep-12	0.77	0.3		0.3	0.3
		Dec-12	0.59	0.3		0.3	0.3
	MW-33A	Dec-12	2.1	0.3		0.3	0.3
	MW-34C	Mar-12	0.8	0.3		0.3	0.3
		Jun-12	0.82	0.3		0.3	0.3
		Sep-12	0.48	0.3		0.3	0.3
		Dec-12	0.77	0.3		0.3	0.3
	MW-39	Mar-12	2.3	0.3		0.3	0.3
		Jun-12	34	0.3		0.3	0.3
		Sep-12	33	0.3		0.3	0.3
	MW-42	Mar-12	28	0.3		0.3	0.3
		Jun-12	27	0.3		0.3	0.3
		Sep-12	23	0.3		0.3	0.3
		Dec-12	28	0.3		0.3	0.3
	MW-43	Mar-12	0.38	0.3		0.3	0.3
		Jun-12	0.42	0.3		0.3	0.3
		Dec-12	0.45	0.3		0.3	0.3
Manganese, Dissolved	MW-19C	Mar-12	1	0.05		0.05	0.05
		Jun-12	1	0.05		0.05	0.05
		Sep-12	1.1	0.05		0.05	0.05
		Dec-12	1	0.05		0.05	0.05
	MW-20	Sep-12	0.11	0.05		0.05	0.05
	MW-23A	Mar-12	0.65	0.05		0.05	0.05
		Jun-12	1.7	0.05		0.05	0.05
		Sep-12	2.5	0.05		0.05	0.05
	MW-24	Mar-12	1.7	0.05		0.05	0.05
		Jun-12	0.9	0.05		0.05	0.05
		Sep-12	1.3	0.05		0.05	0.05
		Dec-12	1.4	0.05		0.05	0.05
	MW-29A	Jun-12	1.2	0.05		0.05	0.05
		Dec-12	1.1	0.05		0.05	0.05
	MW-2B1	Mar-12	1.8	0.05		0.05	0.05
		Jun-12	2.8	0.05		0.05	0.05
		Sep-12	2.1	0.05		0.05	0.05
		Dec-12	0.37	0.05		0.05	0.05
	MW-32	Mar-12	1.9	0.05		0.05	0.05
		Jun-12	1.7	0.05		0.05	0.05
		Sep-12	2.7	0.05		0.05	0.05
		Dec-12	2.2	0.05		0.05	0.05
	MW-33A	Dec-12	0.081	0.05		0.05	0.05
	MW-33C	Mar-12	0.13	0.05		0.05	0.05
		Jun-12	0.12	0.05		0.05	0.05
		Sep-12	0.14	0.05		0.05	0.05
		Dec-12	0.14	0.05		0.05	0.05
	MW-34C	Mar-12	0.68	0.05		0.05	0.05
		Jun-12	0.61	0.05		0.05	0.05
		Sep-12	0.64	0.05		0.05	0.05
		Dec-12	0.64	0.05		0.05	0.05
	MW-39	Mar-12	0.073	0.05		0.05	0.05
		Jun-12	0.44	0.05		0.05	0.05
		Sep-12	0.44	0.05		0.05	0.05
	MW-4	Jun-12	0.9	0.05		0.05	0.05
		Sep-12	1.1	0.05		0.05	0.05
	MW-42	Mar-12	5.3	0.05		0.05	0.05
		Jun-12	4.9	0.05		0.05	0.05
		Sep-12	4.5	0.05		0.05	0.05
		Dec-12	5	0.05		0.05	0.05
	MW-43	Mar-12	0.25	0.05		0.05	0.05
		Jun-12	0.21	0.05		0.05	0.05
		Dec-12	0.18	0.05		0.05	0.05

Table 7. 2012 WAC 173-200, Federal MCL, and MTCA Exceedances in Groundwater, OVSL

Parameter	Well	Event	Result	WAC 173-200	Primary MCL	Secondary MCL	MTCA Cleanup Level
Ammonia (As N)	MW-13A	Jun-12	0.28 JB				0.19
	MW-13B	Jun-12	0.2 JB				0.19
	MW-15R	Jun-12	0.31 JB				0.19
	MW-16	Jun-12	0.34 JB				0.19
		Sep-12	0.3				0.19
	MW-19C	Mar-12	0.49				0.19
		Jun-12	0.31 JB				0.19
		Sep-12	0.37				0.19
		Dec-12	0.55				0.19
	MW-24	Jun-12	0.21 JB				0.19
	MW-2B1	Mar-12	2.5				0.19
		Jun-12	1.4 JB				0.19
		Sep-12	1.8				0.19
		Dec-12	0.45				0.19
	MW-33A	Jun-12	0.28 JB				0.19
		Dec-12	0.25				0.19
	MW-35	Jun-12	0.6 JB				0.19
	MW-36A	Jun-12	0.3 JB				0.19
	MW-39	Jun-12	0.36 JB				0.19
		Sep-12	0.34				0.19
	MW-4	Jun-12	0.22 JB				0.19
	MW-42	Mar-12	5				0.19
		Jun-12	2.2 JB				0.19
		Sep-12	3.3				0.19
Trichloroethene	MW-19C	Jun-12	1.3				1
		Sep-12	1.4				1
		Dec-12	1.1				1
Vinyl chloride	MW-13B	Mar-12	0.083	0.02	2		0.2
	MW-15R	Mar-12	0.036	0.02	2		0.2
		Jun-12	0.034	0.02	2		0.2
	MW-19C	Mar-12	0.036	0.02	2		0.2
		Jun-12	0.033	0.02	2		0.2
		Sep-12	0.06	0.02	2		0.2
		Dec-12	0.058	0.02	2		0.2
	MW-20	Mar-12	0.022	0.02	2		0.2
		Jun-12	0.11	0.02	2		0.2
		Sep-12	0.17	0.02	2		0.2
	MW-32	Mar-12	0.34	0.02	2		0.2
		Jun-12	0.41	0.02	2		0.2
		Sep-12	0.36	0.02	2		0.2
		Dec-12	0.63	0.02	2		0.2
	MW-34C	Mar-12	0.14	0.02	2		0.2
		Jun-12	0.14	0.02	2		0.2
		Sep-12	0.13	0.02	2		0.2
		Dec-12	0.11	0.02	2		0.2
	MW-4	Jun-12	0.083	0.02	2		0.2
		Sep-12	0.11	0.02	2		0.2
	MW-42	Jun-12	0.051	0.02	2		0.2
		Sep-12	0.15	0.02	2		0.2
		Dec-12	0.03	0.02	2		0.2

(J) result is an estimate, or elevated reporting limit
(B) blank contamination

Table 8. Fourth Quarter 2012 Prediction Limit Exceedances in Groundwater, OVSL

Well	Parameter	Unit	Date Sampled	Latest Result	Prediction Limit
MW-15R	Alkalinity, bicarbonate (as caco3)	MG/L	12/04/2012	100	95.7583
MW-15R	Alkalinity, total (as caco3)	MG/L	12/04/2012	100	95.5861
MW-15R	Barium, dissolved	MG/L	12/04/2012	0.0059	0.0052
MW-15R	Calcium, dissolved	MG/L	12/04/2012	18	17.1
MW-15R	Magnesium, dissolved	MG/L	12/04/2012	11	10.57
MW-15R	Sodium, dissolved	MG/L	12/04/2012	6.3	5.9402
MW-29A	Arsenic, dissolved	UG/L	12/04/2012	1.73	0.38
MW-29A	Barium, dissolved	MG/L	12/04/2012	0.0081	0.0052
MW-29A	Iron, dissolved	MG/L	12/04/2012	3.5	0.097
MW-29A	Manganese, dissolved	MG/L	12/04/2012	1.1	0.0067
MW-29A	pH	pH Units	12/04/2012	5.89	5.90 - 8.32
MW-32	Alkalinity, bicarbonate (as caco3)	MG/L	12/05/2012	120	95.7583
MW-32	Alkalinity, total (as caco3)	MG/L	12/05/2012	120	95.5861
MW-32	Arsenic, dissolved	UG/L	12/05/2012	11.4	0.38
MW-32	Calcium, dissolved	MG/L	12/05/2012	22	17.1
MW-32	Chloride	MG/L	12/05/2012	12	3.86
MW-32	Iron, dissolved	MG/L	12/05/2012	0.59	0.097
MW-32	Magnesium, dissolved	MG/L	12/05/2012	11	10.57
MW-32	Manganese, dissolved	MG/L	12/05/2012	2.2	0.0067
MW-32	Sodium, dissolved	MG/L	12/05/2012	13	5.9402
MW-32	Specific conductivity	mS/cm	12/05/2012	0.242	0.176
MW-32	Sulfate	MG/L	12/05/2012	16	9.9
MW-32	Temperature	deg C	12/05/2012	12.2	11.14
MW-32	Total dissolved solids (tds)	MG/L	12/05/2012	200	175
MW-33A	Ammonia (as n)	MG/L	12/03/2012	0.25	0.18
MW-33A	Iron, dissolved	MG/L	12/03/2012	2.1	0.10
MW-33A	Manganese, dissolved	MG/L	12/03/2012	0.081	0.0067
MW-33C	Arsenic, dissolved	UG/L	12/03/2012	2.66	0.38
MW-33C	Manganese, dissolved	MG/L	12/03/2012	0.14	0.0
MW-33C	Potassium, dissolved	MG/L	12/03/2012	1.3	1
MW-34A	Nickel, dissolved	MG/L	12/03/2012	0.0073	0.00
MW-34A	Nitrate (as n)	MG/L	12/03/2012	4.2	1.8
MW-34A	pH	pH Units	12/03/2012	5.76	5.90 - 8.32
MW-34A	Sodium, dissolved	MG/L	12/03/2012	7.5	5.94
MW-34A	Temperature	deg C	12/03/2012	11.2	11.1355
MW-34C	Alkalinity, bicarbonate (as caco3)	MG/L	12/03/2012	140	95.7583
MW-34C	Alkalinity, total (as caco3)	MG/L	12/03/2012	140	95.5861
MW-34C	Arsenic, dissolved	UG/L	12/03/2012	4.2	0.38
MW-34C	Barium, dissolved	MG/L	12/03/2012	0.011	0.0052
MW-34C	Calcium, dissolved	MG/L	12/03/2012	26	17.10
MW-34C	Chloride	MG/L	12/03/2012	5.4	3.8606
MW-34C	Iron, dissolved	MG/L	12/03/2012	0.77	0.10
MW-34C	Magnesium, dissolved	MG/L	12/03/2012	12	10.57
MW-34C	Manganese, dissolved	MG/L	12/03/2012	0.64	0.0
MW-34C	Potassium, dissolved	MG/L	12/03/2012	1.1	1
MW-34C	Sodium, dissolved	MG/L	12/03/2012	16	5.9402
MW-34C	Specific conductivity	mS/cm	12/03/2012	0.246	0.18
MW-34C	Temperature	deg C	12/03/2012	12.6	11.1355
MW-34C	Total dissolved solids (tds)	MG/L	12/03/2012	210	175
MW-36A	Arsenic, dissolved	UG/L	12/04/2012	0.8	0.38

Table 8. Fourth Quarter 2012 Prediction Limit Exceedances in Groundwater, OVSL

Well	Parameter	Unit	Date Sampled	Latest Result	Prediction Limit
MW-36A	pH	pH Units	12/04/2012	5.78	5.90 - 8.32
MW-36A	Potassium, dissolved	MG/L	12/04/2012	1.1	1
MW-36A	Sodium, dissolved	MG/L	12/04/2012	7.6	5.9402
MW-39	Barium, dissolved	MG/L	12/04/2012	0.01	0.01
MW-39	Nitrate (as n)	MG/L	12/04/2012	5.3	1.8
MW-39	pH	pH Units	12/04/2012	5.85	5.90 - 8.32
MW-39	Sodium, dissolved	MG/L	12/04/2012	7.4	5.9402
MW-39	Temperature	deg C	12/04/2012	11.6	11.1355
MW-42	Alkalinity, bicarbonate (as caco3)	MG/L	12/04/2012	240	95.7583
MW-42	Alkalinity, total (as caco3)	MG/L	12/04/2012	240	95.5861
MW-42	Arsenic, dissolved	UG/L	12/04/2012	1.6	0.38
MW-42	Barium, dissolved	MG/L	12/04/2012	0.13	0.0052
MW-42	Calcium, dissolved	MG/L	12/04/2012	44	17.1
MW-42	Chloride	MG/L	12/04/2012	24	3.8606
MW-42	Iron, dissolved	MG/L	12/04/2012	28	0.097
MW-42	Magnesium, dissolved	MG/L	12/04/2012	18	10.57
MW-42	Manganese, dissolved	MG/L	12/04/2012	5	0.0067
MW-42	Potassium, dissolved	MG/L	12/04/2012	7.8	1
MW-42	Sodium, dissolved	MG/L	12/04/2012	21	5.94
MW-42	Specific conductivity	mS/cm	12/04/2012	0.585	0.176
MW-42	Sulfate	MG/L	12/04/2012	16	9.9
MW-42	Temperature	deg C	12/04/2012	12.3	11.1355
MW-42	Total dissolved solids (tds)	MG/L	12/04/2012	310	175
MW-42	Total organic carbon (toc)	MG/L	12/04/2012	8.2	6
MW-43	Iron, dissolved	MG/L	12/04/2012	0.45	0.10
MW-43	Manganese, dissolved	MG/L	12/04/2012	0.18	0.0067
MW-43	pH	pH Units	12/04/2012	5.6	5.90 - 8.32

Table 9. Summary of 2012 Increasing and Decreasing Parameter Trends in Groundwater: January 2005 - December 2012, OVSL

Sen's Trend Test A *= all organic parameters listed in Appendix I and Appendix II of WAC 173-351-990 that have been detected at least once in at least one of 22 wells comprising the network of 1) compliance, 2) performance, 3) downgradient, and 4) upgradient site monitoring wells, during the trend test period. This includes the following constituents:*

Parameter	Significant Increasing Trends	Significant Decreasing Trends
1,1-Dichloroethane	None	None
1,2-Dichloroethene (total)	None	None
1,2-Dichlorobenzene	None	None
1,4-Dichlorobenzene	None	None
Acetone	None	None
Benzene	None	None
Carbon Disulfide	None	None
Chlorobenzene	None	None
Chlorodifluoromethane	None	None
Chloroethane	None	None
Chloroform	None	None
Chloromethane	None	None
cis-1,2-dichloroethene	None	None
Dichlorodifluoromethane	None	None
Ethyl Ether	None	None
Methylene Chloride	None	None
Naphthalene	None	None
n-Butyl Alcohol	None	None
tert-Butyl Alcohol	None	None
Tetrachloroethene	None	None
Tetrahydrofuran	None	None
Toluene	None	None
trans-1,2-Dichloroethene	None	None
Trichloroethene	None	MW-19C (graph 533)
Vinyl Chloride	None	MW-19C (graph 555) MW-23A (graph 557) MW-24 (graph 558)

Trend Test Wells:

- Compliance Wells MW-39, MW-15R, MW-34A, MW-34C, MW-42, MW-43
- Performance Wells MW-24, MW-23A, MW-2B1, MW-20, MW-19C, MW-4
- Downgradient Wells MW-36A, MW-33A, MW-33C, MW-32, MW-29A, MW-9
- Upgradient Wells MW-13A, MW-13B, MW-35, MW-16

Table 9. Summary of 2012 Increasing and Decreasing Parameter Trends in Groundwater: January 2005 - December 2012, OVSL

Sen's Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*

Parameter	**Significant Increasing Trends**	**Significant Decreasing Trends**
Antimony, dissolved	None	None
Arsenic, dissolved	None	MW-19C (graph 93) MW-24 (graph 96) MW-34C (graph 103)
Barium, dissolved	MW-20 (graph 116)	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-36A (graph 127) MW-4 (graph 129)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-34A (graph 234)	None
Cobalt, dissolved	None	None
Copper, dissolved	None	None
Lead, dissolved	None	None
Nickel, dissolved	None	None
Selenium, dissolved	None	None
Silver, dissolved	None	None
Thallium, dissolved	None	None
Vanadium, dissolved	None	None
Zinc, dissolved	None	None
Nitrate (as N)	MW-16 (graph 400)	None
pH	None	None
Specific Conductivity	None	MW-15R (graph 531) MW-19C (graph 533) MW-23A (graph 535) MW-24 (graph 536) MW-34A (graph 542) MW-36A (graph 545) MW-4 (graph 547)
Temperature	MW-2B1 (graph 582)	MW-24 (graph 580)
Calcium, dissolved	None	MW-15R (graph 179) MW-23A (graph 183) MW-24 (graph 184)
Bicarbonate Alkalinity (as CaCO3)	MW-13A (graph 1) MW-13B (graph 2) MW-35 (graph 16)	MW-24 (graph 8) MW-36A (graph 17)

Table 9. Summary of 2012 Increasing and Decreasing Parameter Trends in Groundwater: January 2005 - December 2012, OVSL

Magnesium, dissolved	None	MW-15R (graph 333) MW-24 (graph 338) MW-33A (graph 342) MW-36A (graph 347)
Sulfate	MW-15R (graph 553) MW-20 (graph 556) MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-4 (graph 569)

Trend Test Wells:

- Compliance Wells MW-39, MW-15R, MW-34A, MW-34C, MW-42, MW-43
- Performance Wells MW-24, MW-23A, MW-2B1, MW-20, MW-19C, MW-4
- Downgradient Wells MW-36A, MW-33A, MW-33C, MW-32, MW-29A, MW-9
- Upgradient Wells MW-13A, MW-13B, MW-35, MW-16

Sen's Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*

Sodium, dissolved	None	MW-19C (graph 511) MW-23A (graph 513) MW-24 (graph 514) MW-34A (graph 520) MW-34C (graph 521)
Chloride	None	MW-2B1 (graph 208) MW-34A (graph 212) MW-34C (graph 213)
Potassium, dissolved	None	None
Total Alkalinity as CaCO3	MW-13A (graph 23) MW-13B (graph 24) MW-35 (graph 38)	MW-24 (graph 30) MW-36A (graph 39)
Iron, dissolved	None	MW-19C (graph 291) MW-24 (graph 294) MW-32 (graph 297) MW-9 (graph 308)
Manganese, dissolved	None	MW-15R (graph 355) MW-23A (graph 359) MW-24 (graph 360)
Ammonia (as N)	None	MW-19C (graph 49) MW-42 (graph 64)
Total Organic Carbon	None	None
Total Dissolved Solids	None	MW-24 (graph 624) MW-33A (graph 628)

Trend Test Wells:

- Compliance Wells MW-39, MW-15R, MW-34A, MW-34C, MW-42, MW-43
- Performance Wells MW-24, MW-23A, MW-2B1, MW-20, MW-19C, MW-4
- Downgradient Wells MW-36A, MW-33A, MW-33C, MW-32, MW-29A, MW-9
- Upgradient Wells MW-13A, MW-13B, MW-35, MW-16

Table 10. 2012 Leachate Leak Detection System Volumes, Olympic View Sanitary Landfill

Date	Totalizer Volume (Gals)	Comments
1/3/2012	0	
1/9/2012	0	
1/16/2012	0	
1/23/2012	0	
1/30/2012	0	
2/6/2012	0	
2/13/2012	0	
2/20/2012	0	
2/27/2012	0	
3/5/2012	0	
3/12/2012	0	
3/19/2012	0	
3/27/2012	0	Pump Failed/ Pullled and sent to shop for repair.
4/2/2012	0	Pump repaired and will be installed this week.
4/4/2012	88	LP-LCD sample collected on 4/4/2012 due to pump failure.
4/9/2012	0	
4/10/2012	0	
4/16/2012	0	
4/23/2012	0	
4/30/2012	0	
5/7/2012	0	
5/14/2012	0	
5/21/2012	0	
5/29/2012	0	
6/4/2012	0	
6/11/2012	42	LP-LCD sample collected on 6/7/2012
6/18/2012	0	
6/25/2012	0	
7/2/2012	0	
7/9/2012	0	
7/16/2012	0	
7/23/2012	0	
7/30/2012	0	
8/6/2012	0	
8/13/2012	0	
8/20/2012	0	
8/27/2012	0	
9/4/2012	0	
9/10/2012	0	Recieved approval to rebuild Secondary and add tank from WM 9-7-12
9/17/2012	0	
9/24/2012	224	LP-LCD sample collected on 9/25/2012
10/1/2012	0	Secondary sample collected last week for quarterly. Vault set for new piping this week and tank
10/8/2012	0	install.
10/15/2012	0	
10/22/2012	0	
10/29/2012	0	
11/5/2012	0	
11/12/2012	0	On 11/16/12 Final piping on Secondary completed- Meter taken Off-line. Pumping numbers will be
11/19/2012	0	in Gallons pumped each quarter
11/29/2012	0	
12/3/2012	0	LP-LCD Sample collected on 12/5/2012
12/10/2012	160	Gallons Pumped and measured in tank 160 pumped to tank
12/17/2012	0	
12/24/2012	0	
12/31/2012	80	80 gallons pumped over an 1.5 hour pump duration
Total	594	

Table 11. LFG Results

Results of Landfill Gas Monitoring

SCS Engineers

Landfill Gas Monitoring Network — 04204027.16

Olympic View Landfill

Waste Management Incorporated — 4rd Quarter 2012

Location Reference Designation	Date	Time	Pressure (in. H_2O)	CH_4 (% vol.)	CO_2 (% vol.)	O_2 (% vol.)	Comments: Spike CH_4 *Note 1* (% vol.)	Spike CO_2 *Note 1* (% vol.)	Depth to Water TOP (ft)	Exposed Portion of Perforations *Note 2 & 3* (ft)	(%)	Other
Subsurface Gas Detection Wells (Gas Probes)												
GP-7	27-Nov	9:00	7.12	0.1	8.3	4.8			12.5	1.9	38%	Note 5, Note 6.
GP-8	27-Nov	9:02	0.12	0.0	2.8	4.5			17.6	4.8	96%	Note 5.
GP-9s	27-Nov	9:05	-3.26	0.0	1.9	18.0			31.1	19.6	100%	Note 5, Note 6.
GP-9d	27-Nov	9:07	-2.33	0.0	1.6	19.5				4.8	96%	Note 5, Note 6.
GP-10s	27-Nov	9:12	0.57	0.0	0.9	20.2			28.6	15.6	100%	Note 5.
GP-10d	27-Nov	9:13	-7.16	0.0	0.7	19.7				4.5	90%	Note 5, Note 6.
GP-11s	27-Nov	9:18	0.70	0.0	2.2	18.9			27.5	17.2	100%	Note 5.
GP-11d	27-Nov	9:20	21.19	0.0	2.9	14.0				2.2	44%	Note 5, Note 6.
GP-12s	27-Nov	9:24	0.49	0.0	1.3	18.9			48.6	37.2	100%	Note 5.
GP-12m	27-Nov	9:26	0.35	0.0	1.2	18.9				17.0	100%	Note 5.
GP-12d	27-Nov	9:28	1.66	0.0	1.2	16.8				3.2	64%	Note 5, Note 6.
GP-13s	27-Nov	9:31	0.53	0.0	2.9	17.9			51.9	39.8	100%	Note 5.
GP-13m	27-Nov	9:33	0.56	0.0	2.1	18.9				18.4	100%	Note 5.
GP-13d	27-Nov	9:36	0.63	0.0	3.0	18.1				6.7	67%	Note 5.
GP-14	27-Nov	9:38	0.55	0.0	7.5	5.2			15.5	5.1	102%	Note 5.
GP-15	27-Nov	10:21	4.19	0.1	3.5	7.2			14.8	4.4	88%	Note 5, Note 6.
GP-16	27-Nov	9:45	0.56	0.0	4.8	13.8			14.3	4.1	82%	Note 5.
Onsite Building Interiors												
MB-Of												Note 4.
MB-Ba												Note 4.
MB-Sh												Note 4.
WS-R1												Note 4.
WS-Of												Note 4.
WS-R2												Note 4.
OldTB												Note 4.
MN-Wh												Note 4.
SH-SS	27-Nov	9:50	0.0	0.0	0.6	20.7						
SH-NS	27-Nov	9:59	0.0	0.0	0.3	20.8						
SH-In	27-Nov	9:52	0.0	0.0	0.4	20.9						
SS-Wh	27-Nov	9:55	0.0	0.0	0.5	20.7						
WR-Sh												Note 4.

General Data

Date:	27-Nov-12	Weather Conditions	
Monitored by:	bbeach_scsfieldservi	Sky Cover:	Mostly Cloudy
Instruments:	GEM 2000	Wind / Rain / Snow:	Wind 3.5mph NNE
Calibration Date:	27-Nov-12	Temperature:	38.8 °F
		Preceding 24 hr Baro. Trend:	see graph

Notes

1. Measurement for spike concentrations of CH4 and CO2 are recorded if observed during sampling.
2. Exposed Perforation = perforated pipe section not submerged by water.
3. Readings not reported: screened interval submerged.
4. No monitoring at these locations. Building no longer exists.
5. Depth to water measurements were taken on 11/7/2012. 10.89" of rain occurred before sampling on 11/27/12. Therefore, true exposed percent of perforation is unknown.
6. This relative pressure reading is believed to be an anomoly due to error in sampling procedure and is not representative of soil gas pressures.

CH4 = Methane
CO2 = Carbon Dioxide
O2 = Oxygen
GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
TOP = from Top of Pipe

MB-Of = Maintenance Building - Office
MB-Ba = Maintenance Building - Bathroom
MB-Sh = Maintenance Building - Shed
WS-R1 = Welding Shop - Storage Room 1
WS-Of = Welding Shop - Office
WS-R2 = Welding Shop - Storage Room 2

MN-WH = Main Well House
OldTB = Old Toll Booth
SH-SS = Scale House - South Side Exterior
SH-NS = Scale House - North Side Exterior
SH-Of = Scale House - Office Interior
SS-WH = South Slope Well House
WR-Sh = Wash Rack Shed

Table 12. Summary of 2012 Landfill Gas Monitoring Results, Olympic View Sanitary Landfill

Location	Date	Pressure (in. H2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-7	Mar-12	-0.04	0.0	4.2	3.5
	May-12	-0.29	0.0	6.0	4.2
	Aug-12	0.22	0.0	9.6	5.0
	Nov-12	7.12	0.1	8.3	4.8
GP-8	Mar-12	-0.12	0.0	1.7	5.4
	May-12	-0.27	0.0	3.1	5.8
	Aug-12	0.27	0.0	4.6	6.7
	Nov-12	0.12	0.0	2.8	4.5
GP-9s	Mar-12	-0.05	0.0	2.3	18.6
	May-12	-0.23	0.0	2.6	17.7
	Aug-12	0.96	0.0	2.5	18.5
	Nov-12	-3.26	0.0	1.9	18.0
GP-9d	Mar-12	-0.04	0.0	1.7	19.0
	May-12	-0.22	0.0	1.7	18.7
	Aug-12	0.99	0.0	1.4	18.4
	Nov-12	-2.33	0.0	1.6	19.5
GP-10s	Mar-12	-0.01	0.0	0.7	20.1
	May-12	-0.26	0.0	0.8	19.8
	Aug-12	0.97	0.0	0.8	19.3
	Nov-12	0.57	0.0	0.9	20.2
GP-10d	Mar-12	0.00	0.0	0.7	18.6
	May-12	-0.25	0.0	0.6	19.3
	Aug-12	0.97	0.0	0.6	18.6
	Nov-12	-7.16	0.0	0.7	19.7
GP-11s	Mar-12	-0.02	0.0	1.7	19.1
	May-12	-0.21	0.0	2.1	18.1
	Aug-12	0.19	0.0	2.8	17.9
	Nov-12	0.70	0.0	2.2	18.9
GP-11d	Mar-12	-	-	-	-
	May-12	-	-	-	-
	Aug-12	-3.31	0.0	2.8	12.5
	Nov-12	21.19	0.0	2.9	14.0
GP-12s	Mar-12	-0.02	0.0	1.9	18.0
	May-12	0.66	0.0	2.2	19.2
	Aug-12	1.49	0.0	1.8	18.3
	Nov-12	0.49	0.0	1.3	18.9
GP-12m	Mar-12	0.01	0.0	1.9	17.7
	May-12	-0.19	0.0	1.1	19.3
	Aug-12	0.94	0.0	1.5	18.0
	Nov-12	0.35	0.0	1.2	18.9
GP-12d	Mar-12	-	-	-	-
	May-12	-	-	-	-
	Aug-12	-	-	-	-
	Nov-12	1.66	0.0	1.2	16.8
GP-13s	Mar-12	-0.60	0.0	3.0	18.2
	May-12	0.66	0.0	2.6	18.0
	Aug-12	0.32	0.0	3.5	16.9
	Nov-12	0.53	0.0	2.9	17.9
GP-13m	Mar-12	0.11	0.0	3.2	17.6
	May-12	0.54	0.0	1.7	19.1
	Aug-12	0.87	0.0	2.1	17.5
	Nov-12	0.56	0.0	2.1	18.9

Table 12. Summary of 2012 Landfill Gas Monitoring Results, Olympic View Sanitary Landfill

Location	Date	Pressure (in. H2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-13d	Mar-12	-0.67	0.0	2.8	18.3
	May-12	-0.32	0.0	1.1	19.8
	Aug-12	0.82	0.0	1.6	18.4
	Nov-12	0.63	0.0	3.0	18.1
GP-14	Apr-12	-0.25	0.0	5.0	6.3
	May-12	-0.24	0.0	5.7	5.5
	Aug-12	0.32	0.0	7.9	4.3
	Nov-12	0.55	0.0	7.5	5.2
GP-15	Mar-12	3.41	2.9	6.2	0.0
	May-12	-1.67	0.2	3.4	13.0
	Aug-12	0.24	0.0	1.7	19.1
	Nov-12	4.19	0.1	3.5	7.2
GP-16	Mar-12	-0.06	0.0	4.4	15.6
	May-12	-0.16	0.0	5.1	15.0
	Aug-12	0.79	0.0	6.1	15.3
	Nov-12	0.56	0.0	4.8	13.8

(—) Readings not reported: screened interval submerged

Notes:

APPENDIX A

FIELD RECORDS

{Appendix A is included on the attached data CD to conserve paper}

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	12/3/12					
Time	0900					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	100, ~~1000,~~ 10, ~~0.2~~ 1	
Pre-Cal Reading	477	3.95	7.09	8.55	100, 12, 1.9	
Post Cal Reading	~~445~~	4.01	7.00			
Descrepancy						
Calib. Successful?	yes					
Calibration by	WC					
Instrument Type, ID	MP20	MP20	MP20	MP20	MicoTPW	
Calibration Location	OUSL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	12/3/12					
Time	0900					
Weather (sky or precip, temp)	Mostly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2	
Pre-Cal Reading	452	4.03	6.69	8.54		
Post Cal Reading	445	4.00	7.01	~~8.54~~	1000, 9.93, 0.00	
Descrepancy	—	.01	.01			
Calib. Successful?	Yes					
Calibration by	MJO					
Instrument Type, ID	MP20	MP20	MP20	MP20	MicoTPW	
Calibration Location	OCSL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	12/4/12					
Time	815					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5		
Pre-Cal Reading	419	3.77	7.61	8.74		
Post Cal Reading	445	4.01	7.02	8.49		
Descrepancy			.02	.01		
Calib. Successful?	Yes					
Calibration by	MKO					
Instrument Type, ID	YSI 556	YSI 556	YSI 556	YSI 556		
Calibration Location	DUSL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	12/5/12					
Time	740					
Weather (sky or precip, temp)	Clear					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, ~~0.2~~ 0.02	
Pre-Cal Reading	549	3.89	7.11	~~8~~ 8.47	1100, 9.73, 0.00	
Post Cal Reading	445	4.01	7.01	8.50		
Descrepancy			.01			
Calib. Successful?	Yes					
Calibration by	LWO					
Instrument Type, ID	MP20	MP20	MP20	MP20	MicoTPW	
Calibration Location	OUSL					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-34C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 03 12	1310				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	40.20 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1315	1st	6.27	241	11.80	>1,000.0	2.13	36.1	40.2
1320	2nd	6.53	241	11.91	600.0	1.39	24.3	
1325	3rd	6.60	244	12.03	650.0	1.28	14.5	40.2
1330	4th	6.62	242	12.10	650.0	1.27	9.0	
1335		6.62	244	12.06	370	1.34	5.6	40.2
1354		6.62	240	12.08	450	1.32	0.6	
1410		6.62	244	12.08	850	1.06	-5.9	40.2
1420		6.59	244	12.13	>1000.	1.25	-6.6	
1430		6.62	244	12.57	220.	0.62	-0.8	40.2
1436		6.62	243	12.57	33.	0.57	-4.8	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12 03 12	6.62	246	12.57	35.4	0.58	-6.0	1442

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: Rain (down pour) Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8	8	1439; 6.62; 243; 12.56; 33; 0.54; -6.6; 40.2
7	7	1442; 6.62; 246; 12.57; 35.4; 0.58; -6.0
50	65	
400	600	
	@ 1420	

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-13B/A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120312	1150				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: [Y] or [N]

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bailer

X-Other:

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 13.50 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1150	1st	7.53	10	9.72	12	6.30	91.3	13.57
1153	2nd	7.46	6	9.29	10	5.67	87.8	13.25
1156	3rd	6.50	69	9.20		0.63	-3.35	8.25
1159	4th	6.48	73	9.24		0.51	-4.35	13.40
1202		6.44	80	9.23	9.2	0.48	-5.12	8.45
1205		6.45	84	9.25	10.0	0.54	-5.18	8.61
1208	t	6.46	84	9.24	9.5	0.49	-5.19	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120312	6.46	84	9.24	9.5	0.49	-5.19	1208

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Odor: Color: Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

5
7
10
500

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: ____ Sample Point: MW-113A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/03/12	1012				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: ____

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A (A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____)

Sample Tube Type: ____ (A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____)

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 45.55 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1025		6.97	1.08	9.26	0.0	8.41	51.0	45.60
2nd	1030		6.98	1.07	9.25	0.0	8.21	48.5	45.55
3rd	1035		6.96	1.08	9.26	0.0	8.13	48.4	
4th	1038		6.95	1.07	9.24		8.08	48.2	
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 10%	+/- 0.5 °C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/03/12	6.95	1.07	9.24	10	8.08	48.2	1038

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
30
400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW3M A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the Sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 03 12	13:05				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Sampling Device:

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 38.45 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:05	1st	Begin	Begin	Begin				
13:08	400 2nd	6.58 1st	1918 2nd	11.10 1st	1.33	7.27	518.1	38.50
13:11	1 3rd	6.213 3rd	94 3rd	11.10 3rd	0.87	7.89	514.6	38.50
13:14	1 4th	5.87 4th	93 4th	11.16 4th	0.15	8.13	512.2	38.55
13:17	V	5.76	93	11.16	0.41	8.18	511.9	38.60
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12 03 12	5.76	93	11.16	0.41	8.18	511.9	13:17

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	McHollister		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW33C (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120312	1146				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: [Y] or [N]

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 090 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1146	1st		1st					
1149	2nd	6.40	2nd 143	9.01	1.32	3.12	16.5	0.9
1152	3rd	7.04	3rd 141	9.00	0.98	1.40	-14.9	0.8
1155	4th	7.65	4th 141	9.00	0.55	0.55	-32.6	0.8
1158		7.81	142	8.99	0.35	0.36	-28.5	0.9
1201		7.89	141	8.96	0.28	0.28	-36.4	0.9
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120312	7.89	141	8.99	0.28	0.28	-36.4	1201

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Odor: Color: Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12,3,12	Matt Oliver		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: 4W13B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/03/12	10:16				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 60.24 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:16	1st		1st					
10:20	2nd	7.08	2nd 1410	9.24	1.42	8.02	83.2	60.24
10:23	3rd	7.05	3rd 1410	9.18	0.89	7.43	89.5	60.24
10:26	4th	7.23	4th 1410	9.18	0.73	7.56	89.8	60.25
10:29		7.32	1410	9.19	1.10	7.57	89.5	60.40
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/03/12	7.32	1410	9.19	1.10	7.57	89.5	1029

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: OBWL-TD (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 03 12	0955		6.46		

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ..., Dedicated: Y or (N)

Purging Device: X — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: X

X-Other: PORAB

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): _____ (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0955	1st	7.43	21	10.4	3.45	10.6	71.8	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12 03 12	7.43	21	10.4	3.45	10.6	71.8	0955

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Grab Sample

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	[signature]	[signature]	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-4R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1108				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A

Sampling Device: A

X-Other:

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 25.72 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1110	450	1st 6.17	1st 5.69	12.25	2.83	11.62	-35.8	25.75
1113		2nd 6.33	2nd 5.84	12.30	1.62	10.31	-61.6	25.75
1116		3rd 6.41	3rd 5.85	12.26	0.93	10.20	-68.1	25.80
1119		4th 6.48	4th 5.85	12.30	0.77	10.13	-71.7	25.85
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	6.48	5.85	12.30	0.77	0.13	-71.7	1119

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit)*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-39 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/4/12	1220				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: ____ Sampling Device: ____ X-Other: ____

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: ____ — A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	16.16	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1223	450 1st	6.02 1st	1160 1st	11.70	4.73	1.64	120	16.16
1226	450 2nd	5.91 2nd	1156 2nd	11.64	3.99	1.48	-25	16.20
1229	475 3rd	5.81 3rd	1155 3rd	11.63	3.45	1.45	40.0	16.20
1232	475 4th	5.85 4th	1156 4th	11.64	3.33	1.58	-15.4	16.25
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/4/12	5.85	1156	11.64	3.33	1.58	-15.4	1232

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	Matt Ottone		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-43 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	0920				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: ____ Sampling Device: ____ X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 19.64 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0926	400 1st	5.67 1st	4.9 1st	11.10	10.97	2.44	155	19.75
0929	2nd	5.60 2nd	4.9 2nd	11.08	13.34	2.38	124	19.80
0932	3rd	5.62 3rd	4.9 3rd	11.08	12.96	2.36	107	19.85
0935	4th	5.60 4th	4.9 4th	11.09	12.43	2.37	112	20.00
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5 °C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/04/12	5.60	4.9	11.04	2.43	2.37	112	0935

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/04/12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-29A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the Sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1008				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 9.68 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:11	500 1st	5.75 1st	7.6 1st	8.40	3.72	1.30	-10.7	9.68
10:14	2nd	5.82 2nd	7.7 2nd	8.44	2.96	0.64	-11.3	9.73
10:17	3rd	5.87 3rd	7.6 3rd	8.44	2.13	0.39	-11.6	9.80
10:20	4th	5.89 4th	7.6 4th	8.46	1.08	0.26	-21.2	9.85
	V							
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120412	5.89	7.6	8.46	1.08	0.26	-21.2	1020

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Matt Oliver	Matt	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW35 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1333				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	702.7	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1336	450	6.74	147	10.11	7.65	7.35	28	70.35
1339		6.97	147	9.85	5.32	7.20	-1.1	70.35
1342		7.09	148	9.82	4.11	7.14	-2.6	70.35
1345	↓	7.16	148	9.76	3.26	7.14	-3.0	70.35
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120412	7.16	148	9.76	3.26	7.14	-3.0	1345

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: Rain Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12,4,12	Matt O'Hare	MATT	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	1458				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 32.30 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1501	500 1st	6.52 1st	153 1st	11.95	37.74	0.82	-284	32.30
1504	500 2nd	6.50 2nd	154 2nd	11.96	11.36	0.35	-402	32.30
1507	500 3rd	6.49 3rd	154 3rd	11.99	13.22	0.20	-467	32.40
1510	~~500~~ 4th	6.48 4th	155 4th	11.98	9.17	0.15	-504	32.40
1513	500	6.47	155	11.95	6.16	0.13	-529	32.45
1516	500	6.46	155	11.98	6.27	0.10	-545	32.45
1519	500	6.45	155	11.99	6.90	0.11	-555	32.48
1522	500	6.45	155	11.99	4.06	0.10	-569	32.50
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/04/12	6.45	155	11.99	4.06	0.10	-569	1522

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	Matt Dittmer		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-23B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1210				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: ____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 11.75 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note; Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1215	1st	6.05	58	9.75	32.1	5.91	127.9	
1220	2nd	6.05	58	9.74		5.87	129.9	
1225	3rd	6.05	58	9.72	0.0	5.85	130.5	11.87
1230	4th	6.05	58	9.74		5.77	131.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120412	6.05	58	9.74	0.0	5.77	131.6	1230

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8 MW-23B; 12.35

7 MW-25C; 12.25

15

400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-28B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1040				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: _____

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 6.22 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1041	1st	6.30	110	12.28		0.74	118.7	
1045	2nd	6.17	102	12.27	2.29	0.43	117.7	
1050	3rd	6.12	98	12.30		0.74	113.3	6.35
1055	4th	6.12	98	12.32	0.0	0.78	110.9	
1058		6.11	97	12.34		0.87	110.9	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	611	97	1234	00	0.87	110.9	1058

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8 2A1 = 7.35

7

10

380

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-11 51R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	0936				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other: _____

X-Other: _____

Sample Tube Type: _____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 17.85 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:39	1st	6.06	8	9.96	0.0	7.45	155.4	17.95
09:45	2nd	6.25	22	10.03		6.30	140.6	
09:50	3rd	6.28	134	9.99	0.0	1.16	132.5	17.90
09:55	4th	6.29	133	10.00		1.10	129.7	
09:58		6.30	134	9.99		1.06	127.6	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/04/12	6.30	134	9.99	0.0	1.06	127.6	0958

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
20
400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.04.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-116 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1320				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N; 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: ____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 59.95 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1322	1st	6.12	80	9.31		7.93	135.9	
1325	2nd	6.16	87	9.19	0.0	6.96	139.7	60.1
1330	3rd	6.20	86	9.15		6.09	137.8	
1335	4th	6.22	85	9.14		6.16	136.6	60.1
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data seperately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120412	622	85	9.14	0.0	6.16	136.6	1335

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8

7

50

400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-11 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	1740				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: ____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft msl)

Depth to Water (DTW) (from TOC): 32.85 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1445		5.99	1.03	10.38	0.0	1.72	172	
2nd	1450		6.56	1.03	10.33		0.35	103	
3rd	1455		6.63	1.03	10.30	0.0	0.29	89.9	32.85
4th	1500		6.65	1.04	10.28		0.23	78.1	
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/04/12	6.65	1.04	10.28	0.0	0.23	78.1	1500

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8"
7
40
4.00

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-36A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the Sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 04 12	0835				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — 0.45 µ — µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 29.75 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0840	1st	5.54	1st 10.1	9.29	0.0	2.26	165.9	
0845	2nd	5.76	2nd 9.9	9.25		1.50	171.1	
0850	3rd	5.77	3rd 9.8	9.24	0.0	1.64	169.1	31.22
0855	4th	5.78	4th 9.5	9.24		1.54	166.6	
0858		5.78	9.3	9.24		1.65	164.2	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12 04 12	578	93	9.24	0.0	1.65	164.2	0858

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Odor: Color: Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
25
300
MW36 : DTW : 29.91

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-20 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120512	0931				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: ____
Sampling Device: ____
X-Other: ____

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable
B-Pressure
C-Vacuum
X-Other ____

Sample Tube Type: ____

A-Teflon
B-Stainless Steel
C-PVC
D-Polypropylene
X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)
Depth to Water (DTW) (from TOC): 350.5 (ft)
Groundwater Elevation (site datum, from TOC): ____ (ft/msl)
Total Well Depth (from TOC): ____ (ft)
Stick Up (from ground elevation): ____ (ft)
Casing ID: ____ (in)
Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0934	500 1st	6.47 1st	9.94 1st	13.51	5.21	8.16	88.8	25.10
0937	500 2nd	6.61 2nd	10.1 2nd	13.54	3.68	8.17	55.5	35.10
0940	500 3rd	6.61 3rd	10.4 3rd	13.60	2.08	8.15	38.6	35.10
	4th	4th						
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120512	6.61	10.4	13.60	2.08	8.15	38.6	0940

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
___/___/___			SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
Site No.:
Sample Point: MW-PLCD
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/5/12	11:15				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

X-Other: Grab Sample

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) ____ (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:15	1st	7.11 1st	3110 1st	11.18		5.89	-33.8	
	2nd	2nd	2nd			6.41		
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
12/5/12	7.11	3110	11.18		6.41	-338	11115

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/5/12	Matthew O'Hare		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-14 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120512	0955				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other:

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A
A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type:
A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	11.36 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:58	1st	6.08	68	9.58	2.09	4.98	33.2	11.44
10:01	2nd	5.89	49	9.94	1.91	4.23	47.2	
10:04	3rd	5.85	49	9.99	3.03	4.22	52.4	11.46
10:07	4th	5.77	50	9.99	1.80	4.17	66.4	11.49
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120512	5.77	50	9.99	1.80	4.17	66.4	1007

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
20
380

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.5.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: [redacted] Sample Point: MW-32 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/5/12	0910				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below:

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — Sampling Device: C — X-Other:

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: (Y) or N — (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl) — Depth to Water (DTW) (from TOC) 05 (ft) — Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft) — Stick Up (from ground elevation) ____ (ft) — Casing ID ____ (in) — Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:05	1st	5.99	1st 2.61	11.88	3.96	4.35	110.5	0.5
09:10	2nd	6.55	2nd 2.41	12.09		1.18	26.4	0.5
09:15	3rd	6.59	3rd 2.42	12.10	2.14	0.95	111.8	0.5
09:20	4th	6.61	4th 2.42	12.16		0.85	26	0.5
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5 °C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/5/12	6.61	2.42	12.16	2.14	0.85	26	09:20

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

8
7
15
4.00

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/5/12	Dayne Chang	Dayne Chang	SCS Engineers

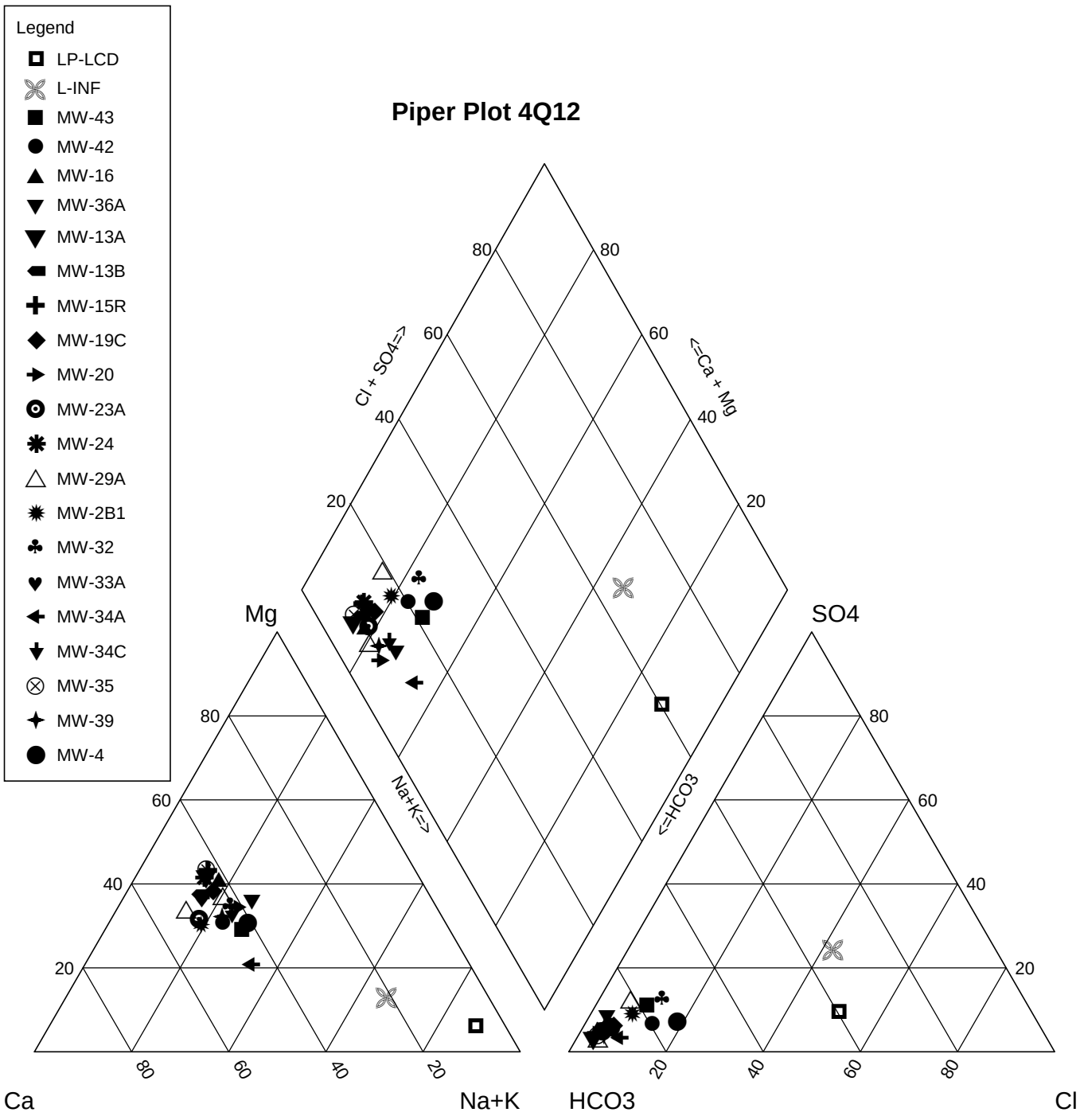
DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

APPENDIX B

GROUNDWATER GEOCHEMICAL RESULTS

{Appendix B is included on the attached data CD to conserve paper}



Description: Piper Plot		
	PROJECT: OVSL Fourth Quarter 2012	PROJECT NO: 04204027.16
	CLIENT: Waste Management	DATE: December 2012

Cation/Anion Balance

Location	LP-LCD
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	960	41.7577	
K	0.02258	78	1.994972	
Ca	0.04990	62	3.093967	
Mg	0.08229	38	3.126929	
		Sum of Cations	49.97357	meq/L
Cl	0.02821	890	25.10387	
SO4	0.02082	230	4.791667	
NO3	0.01613			
HCO3	0.01639	1200	19.6666	
		Sum of Anions	49.56214	meq/L
Balance (% difference) *			0.4133457	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-13A
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	5.5	0.2392368	
K	0.02258	1	2.557656E-02	
Ca	0.04990	16	0.7984431	
Mg	0.08229	9.2	0.7570459	
		Sum of Cations	1.820302	meq/L
Cl	0.02821	1.8	5.077187E-02	
SO4	0.02082	2.2	4.583333E-02	
NO3	0.01613	0.54	8.709677E-03	
HCO3	0.01639	83	1.360273	
		Sum of Anions	1.465588	meq/L
Balance (% difference) *			10.79506	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-13B
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	5.7	0.2479364	
K	0.02258	1	2.557656E-02	
Ca	0.04990	17	0.8483458	
Mg	0.08229	8.2	0.6747583	
		Sum of Cations	1.796617	meq/L
Cl	0.02821	2.1	5.923384E-02	
SO4	0.02082	3.5	7.291667E-02	
NO3	0.01613	0.42	6.774193E-03	
HCO3	0.01639	82	1.343885	
		Sum of Anions	1.482809	meq/L
Balance (% difference) *			9.568975	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-15R
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	6.3	0.2740349	
K	0.02258	1	2.557656E-02	
Ca	0.04990	18	0.8982484	
Mg	0.08229	11	0.9051635	
		Sum of Cations	2.103024	meq/L
Cl	0.02821	2.9	8.179913E-02	
SO4	0.02082	5.6	0.1166667	
NO3	0.01613	0.3	4.83871E-03	
HCO3	0.01639	100	1.638884	
		Sum of Anions	1.842188	meq/L
Balance (% difference) *			6.61144	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-16
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	4.7	0.2044387	
K	0.02258	1	2.557656E-02	
Ca	0.04990	11	0.5489296	
Mg	0.08229	6.6	0.5430981	
		Sum of Cations	1.322043	meq/L
Cl	0.02821	1.3	3.666857E-02	
SO4	0.02082	3	0.0625	
NO3	0.01613	0.86	1.387097E-02	
HCO3	0.01639	64	1.048886	
		Sum of Anions	1.161925	meq/L
Balance (% difference) *			6.446052	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-19C
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	5	0.217488	
K	0.02258	1.5	3.836484E-02	
Ca	0.04990	13	0.648735	
Mg	0.08229	6.8	0.5595556	
		Sum of Cations	1.464144	meq/L
Cl	0.02821	3	8.461978E-02	
SO4	0.02082	4.2	0.0875	
NO3	0.01613	0.12	1.935484E-03	
HCO3	0.01639	76	1.245552	
		Sum of Anions	1.419607	meq/L
Balance (% difference) *			1.544402	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-20
Sample Date	12/5/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	8.4	0.3653799	
K	0.02258	2	5.115312E-02	
Ca	0.04990	14	0.6986377	
Mg	0.08229	7.1	0.5842419	
		Sum of Cations	1.699413	meq/L
Cl	0.02821	1.1	3.102725E-02	
SO4	0.02082	2	4.166667E-02	
NO3	0.01613	8.2	0.1322581	
HCO3	0.01639	53	0.8686084	
		Sum of Anions	1.07356	meq/L
Balance (% difference) *			22.56972	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-23A
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	3	0.1304928	
K	0.02258	1	2.557656E-02	
Ca	0.04990	8.7	0.4341534	
Mg	0.08229	3.3	0.271549	
		Sum of Cations	0.8617718	meq/L
Cl	0.02821	1.2	3.384791E-02	
SO4	0.02082	1.8	0.0375	
NO3	0.01613	0.5	8.064516E-03	
HCO3	0.01639	42	0.6883312	
		Sum of Anions	0.7677436	meq/L
Balance (% difference) *			5.770315	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-24
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	4.5	0.1957392	
K	0.02258	1	2.557656E-02	
Ca	0.04990	14	0.6986377	
Mg	0.08229	7.9	0.650072	
		Sum of Cations	1.570025	meq/L
Cl	0.02821	3.2	0.0902611	
SO4	0.02082	4.8	0.1	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	93	1.524162	
		Sum of Anions	1.715229	meq/L
Balance (% difference) *			-4.419868	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-29A
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	2.6	0.1130938	
K	0.02258	1	2.557656E-02	
Ca	0.04990	5.9	0.2944259	
Mg	0.08229	3.1	0.2550915	
		Sum of Cations	0.6881878	meq/L
Cl	0.02821	1	2.820659E-02	
SO4	0.02082	1	2.083333E-02	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	37	0.606387	
		Sum of Anions	0.6562333	meq/L
Balance (% difference) *			2.37682	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-2B1
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	4.7	0.2044387	
K	0.02258	1.5	3.836484E-02	
Ca	0.04990	13	0.648735	
Mg	0.08229	4.7	0.3867517	
		Sum of Cations	1.27829	meq/L
Cl	0.02821	3.6	0.1015437	
SO4	0.02082	5.3	0.1104167	
NO3	0.01613	0.29	4.677419E-03	
HCO3	0.01639	61	0.9997191	
		Sum of Anions	1.216357	meq/L
Balance (% difference) *			2.482652	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-32
Sample Date	12/5/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	13	0.5654689	
K	0.02258	1	2.557656E-02	
Ca	0.04990	22	1.097859	
Mg	0.08229	11	0.9051635	
		Sum of Cations	2.594068	meq/L
Cl	0.02821	12	0.3384791	
SO4	0.02082	16	0.3333333	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	120	1.96666	
		Sum of Anions	2.639279	meq/L
Balance (% difference) *			-0.8639082	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-33A
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	3.1	0.1348426	
K	0.02258	1	2.557656E-02	
Ca	0.04990	9.4	0.4690853	
Mg	0.08229	4.4	0.3620654	
		Sum of Cations	0.9915698	meq/L
Cl	0.02821	2	5.641319E-02	
SO4	0.02082	2	4.166667E-02	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	45	0.7374977	
		Sum of Anions	0.836384	meq/L
Balance (% difference) *			8.489592	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-33C
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	4.6	0.200089	
K	0.02258	1.3	3.324953E-02	
Ca	0.04990	17	0.8483458	
Mg	0.08229	6.7	0.5513269	
		Sum of Cations	1.633011	meq/L
Cl	0.02821	3	8.461978E-02	
SO4	0.02082	8	0.1666667	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	66	1.081663	
		Sum of Anions	1.333756	meq/L
Balance (% difference) *			10.08691	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-34A
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	7.5	0.326232	
K	0.02258	1	2.557656E-02	
Ca	0.04990	9.3	0.4640951	
Mg	0.08229	2.6	0.2139477	
		Sum of Cations	1.029851	meq/L
Cl	0.02821	1.9	5.359253E-02	
SO4	0.02082	1	2.083333E-02	
NO3	0.01613	4.2	6.774193E-02	
HCO3	0.01639	33	0.5408316	
		Sum of Anions	0.6829994	meq/L
Balance (% difference) *			20.24999	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-34C
Sample Date	12/3/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	16	0.6959617	
K	0.02258	1.1	2.813422E-02	
Ca	0.04990	26	1.29747	
Mg	0.08229	12	0.9874511	
		Sum of Cations	3.009017	meq/L
Cl	0.02821	5.4	0.1523156	
SO4	0.02082	7.2	0.15	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	140	2.294437	
		Sum of Anions	2.597559	meq/L
Balance (% difference) *			7.338838	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-35
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	4.5	0.1957392	
K	0.02258	1	2.557656E-02	
Ca	0.04990	14	0.6986377	
Mg	0.08229	8.6	0.7076734	
		Sum of Cations	1.627627	meq/L
Cl	0.02821	1.9	5.359253E-02	
SO4	0.02082	2.5	5.208334E-02	
NO3	0.01613	0.42	6.774193E-03	
HCO3	0.01639	76	1.245552	
		Sum of Anions	1.358002	meq/L
Balance (% difference) *			9.030767	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-36A
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	7.6	0.3305818	
K	0.02258	1.1	2.813422E-02	
Ca	0.04990	10	0.4990269	
Mg	0.08229	5.9	0.4854968	
		Sum of Cations	1.34324	meq/L
Cl	0.02821	1.5	4.230989E-02	
SO4	0.02082	4.9	0.1020833	
NO3	0.01613	0.86	1.387097E-02	
HCO3	0.01639	64	1.048886	
		Sum of Anions	1.20715	meq/L
Balance (% difference) *			5.336045	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-39
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	7.4	0.3218823	
K	0.02258	1	2.557656E-02	
Ca	0.04990	14	0.6986377	
Mg	0.08229	6	0.4937256	
		Sum of Cations	1.539822	meq/L
Cl	0.02821	2	5.641319E-02	
SO4	0.02082	2.1	0.04375	
NO3	0.01613	5.3	8.548387E-02	
HCO3	0.01639	61	0.9997191	
		Sum of Anions	1.185366	meq/L
Balance (% difference) *			13.00665	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-4
Sample Date	12/5/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	3.8	0.1652909	
K	0.02258	1	2.557656E-02	
Ca	0.04990	5.5	0.2744648	
Mg	0.08229	2.5	0.205719	
		Sum of Cations	0.6710513	meq/L
Cl	0.02821	3.5	9.872308E-02	
SO4	0.02082	1.8	0.0375	
NO3	0.01613	0.23	3.709677E-03	
HCO3	0.01639	24	0.3933321	
		Sum of Anions	0.5332649	meq/L
Balance (% difference) *			11.44105	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-42
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	21	0.9134498	
K	0.02258	7.8	0.1994972	
Ca	0.04990	44	2.195719	
Mg	0.08229	18	1.481177	
		Sum of Cations	4.789842	meq/L
Cl	0.02821	24	0.6769583	
SO4	0.02082	16	0.3333333	
NO3	0.01613	0.05	8.064516E-04	
HCO3	0.01639	240	3.933321	
		Sum of Anions	4.944419	meq/L
Balance (% difference) *			-1.587966	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-43
Sample Date	12/4/2012

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364			
Fe	0.03581			
Na	0.04350	2.5	0.108744	
K	0.02258	1	2.557656E-02	
Ca	0.04990	4.1	0.204601	
Mg	0.08229	1.7	0.1398889	
		Sum of Cations	0.4788105	meq/L
Cl	0.02821	1.4	3.948923E-02	
SO4	0.02082	2	4.166667E-02	
NO3	0.01613	0.57	9.193548E-03	
HCO3	0.01639	18	0.2949991	
		Sum of Anions	0.3853485	meq/L
Balance (% difference) *			10.81538	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

APPENDIX C

STATISTICAL EVALUATION SUMMARY DATA

Olympic View Sanitary Landfill

Annual Statistical Evaluation & Summary

2012 Monitoring Year

Prepared for:

SCS ENGINEERS

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FEBRUARY 2013

CONTENTS:

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1. Statistical Trend Analysis

- Trend Results Summary Table (showing status through Q4 2012) (Table 1-1)
- Time-Series Graphs Depicting Significant Trends for “Trend Test A”
- Time-Series Graphs Depicting Significant Trends for “Trend Test B”

TABLE 1-1

Results of Sen's Non-Parametric Test for Trend

FOURTH QUARTER 2012 REPORT

Trend Test Period: January 2005 through December 2012

Trend Test Wells:

- Compliance Wells: MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43
- Performance Wells: MW-2B1, MW-4, MW-19C, MW-20, MW-23A, MW-24
- Downgradient Wells: MW-9*, MW-29A**, MW-32, MW-33A**, MW-33C, MW-36A
- Upgradient Wells MW-13A, MW-13B, MW-16, MW-35,

*no longer routinely sampled; **sampled semi-annually

Trend Test A *= all organic parameters listed in Appendix I and Appendix II of WAC 173-351-990 that have been detected at least once in at least one of 22 wells comprising the network of 1) compliance, 2) performance, 3) downgradient, and 4) upgradient site monitoring wells, during the trend test period. This includes the following constituents:*

	Significant Increasing Trends	Significant Decreasing Trends
1,1-Dichloroethane	None	None
1,2-Dichloroethene (total)	None	None
1,2-Dichlorobenzene	None	None
1,4-Dichlorobenzene	None	None
Acetone	None	None
Benzene	None	None
Carbon Disulfide	None	None
Chlorobenzene	None	None
Chlorodifluoromethane	None	None
Chloroethane	None	None
Chloroform	None	None
Chloromethane	None	None
cis-1,2-dichloroethene	None	None
Dichlorodifluoromethane	None	None
Ethyl Ether	None	None
Methylene Chloride	None	None
Naphthalene	None	None
n-Butyl Alcohol	None	None
tert-Butyl Alcohol	None	None
Tetrachloroethene	None	None
Tetrahydrofuran	None	None
Toluene	None	None
trans-1,2-Dichloroethene	None	None
Trichloroethene	None	MW-19C (graph 533)
Vinyl Chloride	None	MW-19C (graph 555) MW-23A (graph 557) MW-24 (graph 558)

TABLE 1-1

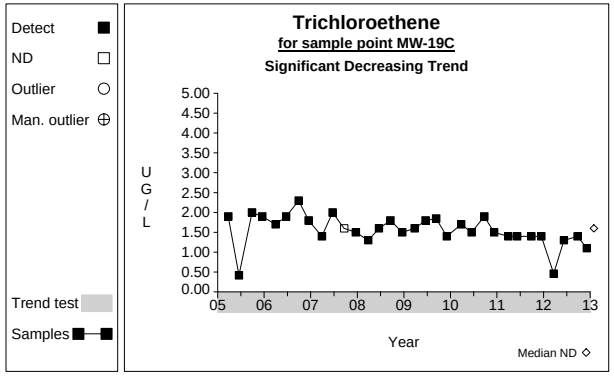
Trend Test B *= all metals and groundwater quality parameters listed in Appendix I and Appendix II of WAC (173-351-990)*

	Significant Increasing Trends	Significant Decreasing Trends
Antimony, dissolved	None	None
Arsenic, dissolved	None	MW-19C (graph 93) MW-24 (graph 96) MW-34C (graph 103)
Barium, dissolved	MW-20 (graph 116)	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-36A (graph 127) MW-4 (graph 129)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-34A (graph 234)	None
Cobalt, dissolved	None	None
Copper, dissolved	None	None
Lead, dissolved	None	None
Nickel, dissolved	None	None
Selenium, dissolved	None	None
Silver, dissolved	None	None
Thallium, dissolved	None	None
Vanadium, dissolved	None	None
Zinc, dissolved	None	None
Nitrate (as N)	MW-16 (graph 400)	None
pH	None	None
Specific Conductivity	None	MW-15R (graph 531) MW-19C (graph 533) MW-23A (graph 535) MW-24 (graph 536) MW-34A (graph 542) MW-36A (graph 545) MW-4 (graph 547)
Temperature	MW-2B1 (graph 582)	MW-24 (graph 580)
Calcium, dissolved	None	MW-15R (graph 179) MW-23A (graph 183) MW-24 (graph 184) MW-29A (graph 185) MW-33A (graph 188) MW-36A (graph 193) MW-9 (graph 198)

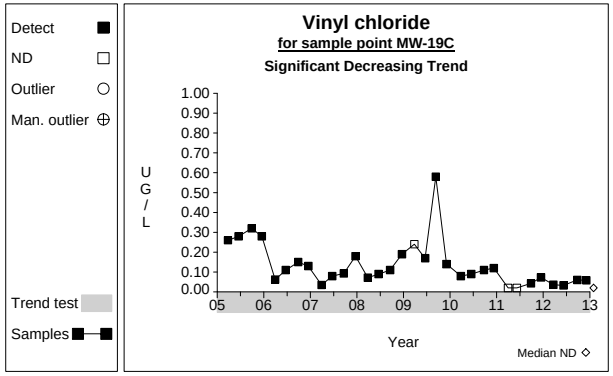
TABLE 1-1

Bicarbonate Alkalinity (as CaCO3)	MW-13A (graph 1) MW-13B (graph 2) MW-35 (graph 16)	MW-24 (graph 8) MW-36A (graph 17)
Magnesium, dissolved		MW-15R (graph 333) MW-24 (graph 338) MW-33A (graph 342) MW-36A (graph 347)
Sulfate	MW-15R (graph 553) MW-20 (graph 556) MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-4 (graph 569)
Sodium, dissolved	None	MW-19C (graph 511) MW-23A (graph 513) MW-24 (graph 514) MW-34A (graph 520) MW-34C (graph 521)
Chloride	None	MW-2B1 (graph 208) MW-34A (graph 212) MW-34C (graph 213)
Potassium, dissolved	None	None
Total Alkalinity as CaCO3	MW-13A (graph 23) MW-13B (graph 24) MW-35 (graph 38)	MW-24 (graph 30) MW-36A (graph 39)
Iron, dissolved	None	MW-19C (graph 291) MW-24 (graph 294) MW-32 (graph 297) MW-9 (graph 308)
Manganese, dissolved	None	MW-15R (graph 355) MW-23A (graph 359) MW-24 (graph 360)
Ammonia (as N)	None	MW-19C (graph 49) MW-42 (graph 64)
Total Organic Carbon	None	None
Total Dissolved Solids	None	MW-24 (graph 624) MW-33A (graph 628)

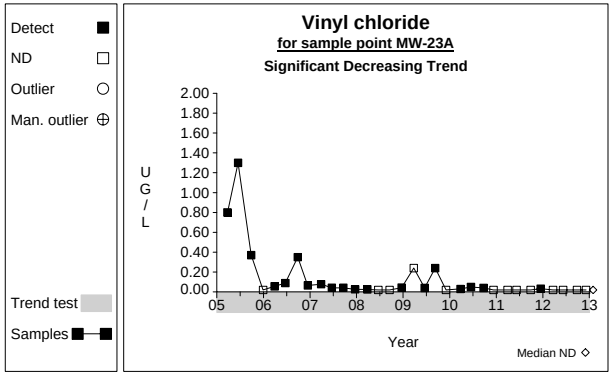
Time Series



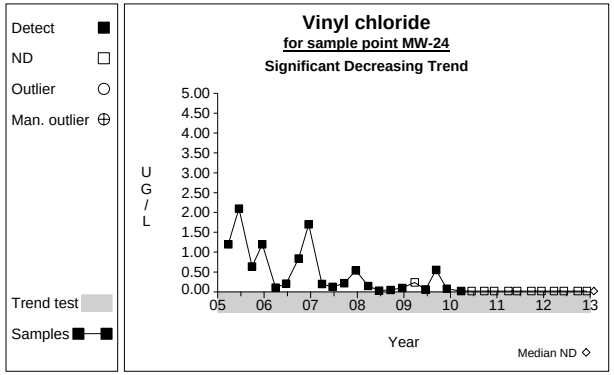
Graph 533



Graph 555

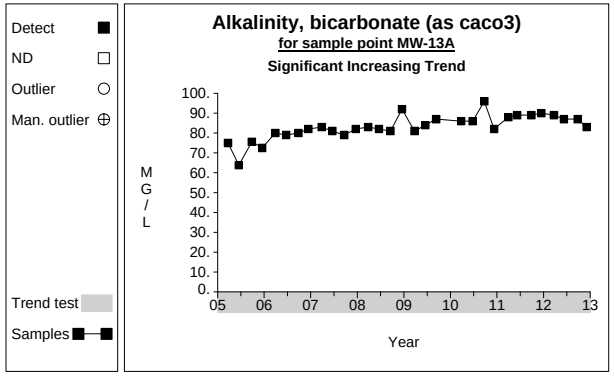


Graph 557

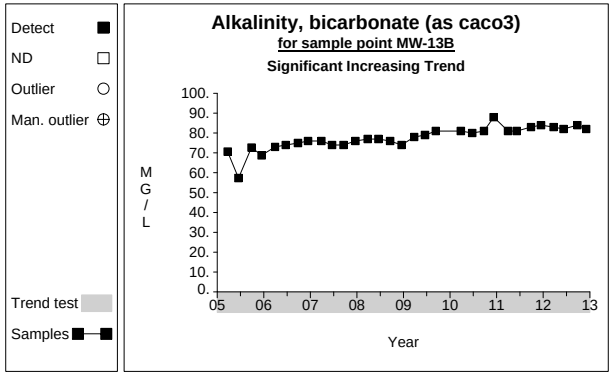


Graph 558

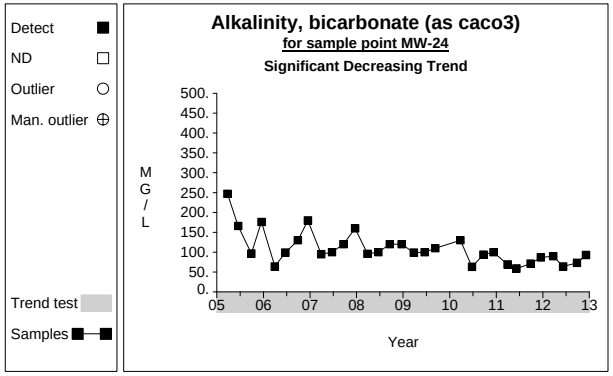
Time Series



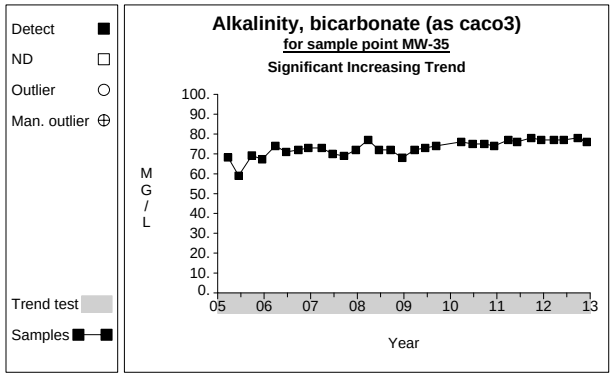
Graph 1



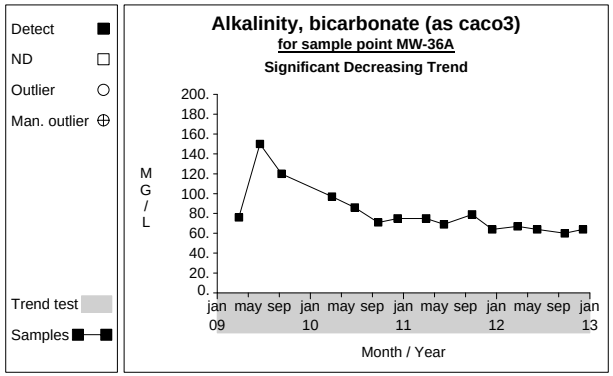
Graph 2



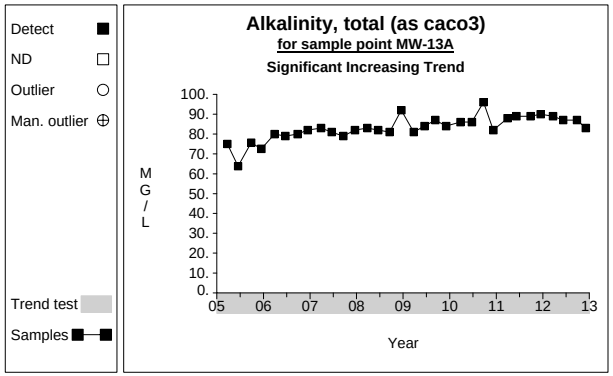
Graph 8



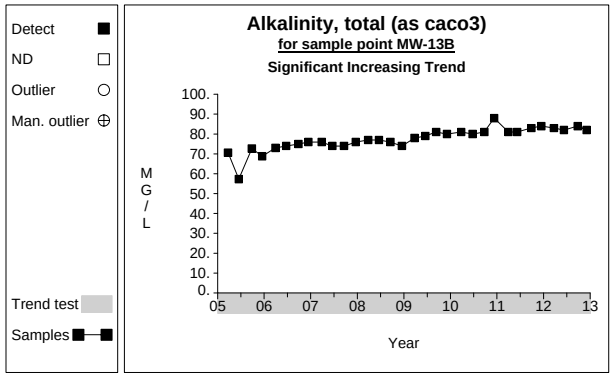
Graph 16



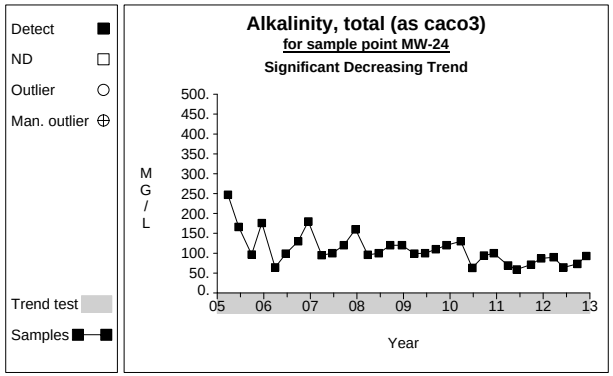
Graph 17



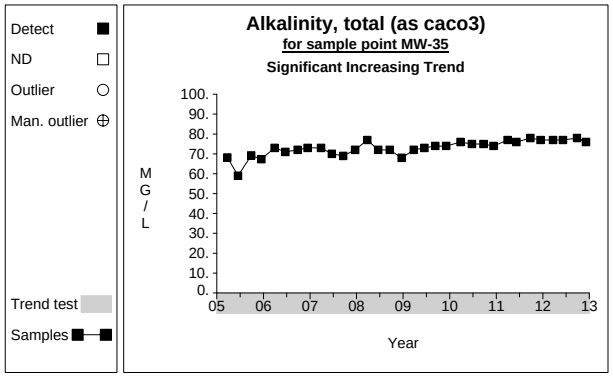
Graph 23



Graph 24

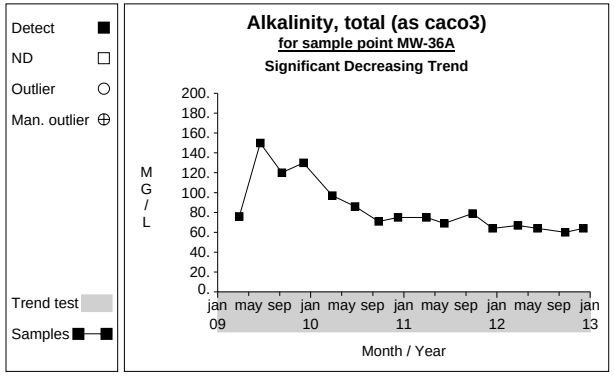


Graph 30

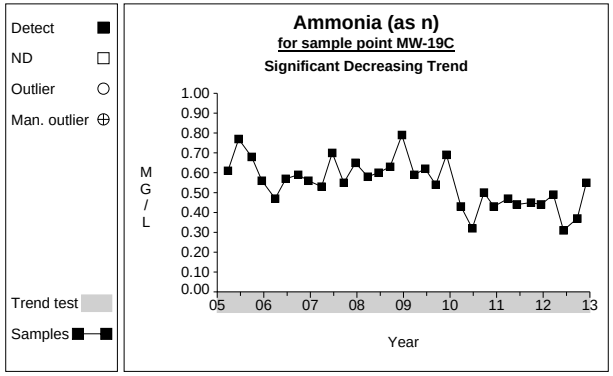


Graph 38

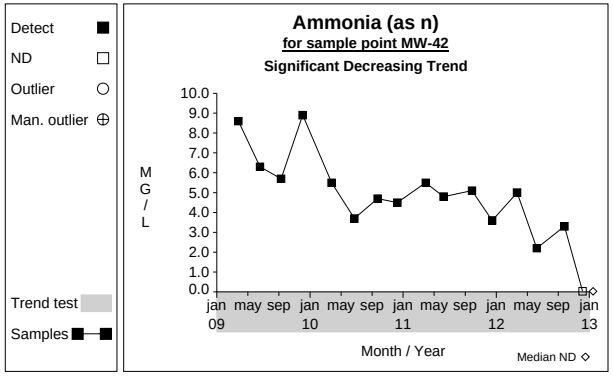
Time Series



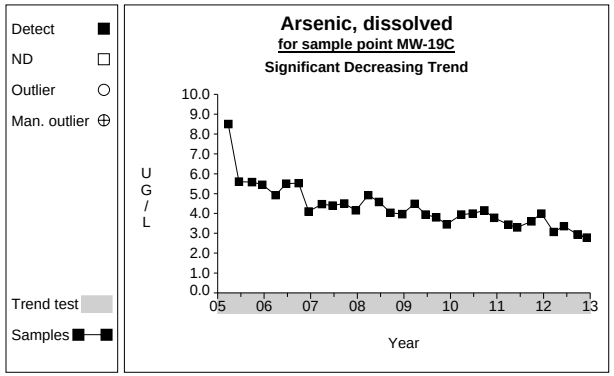
Graph 39



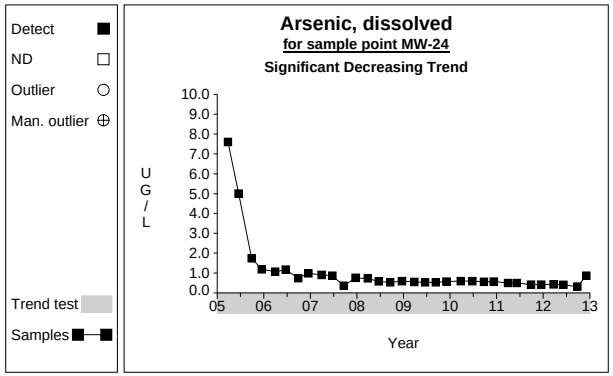
Graph 49



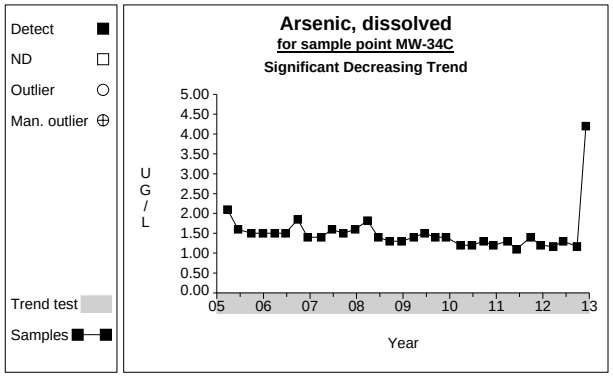
Graph 64



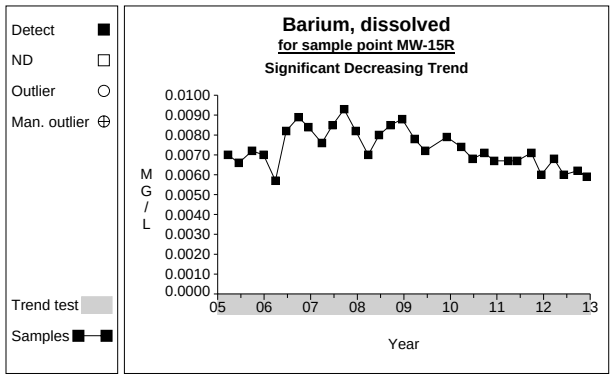
Graph 93



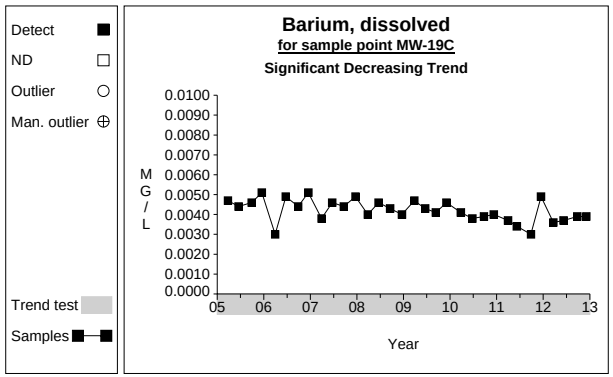
Graph 96



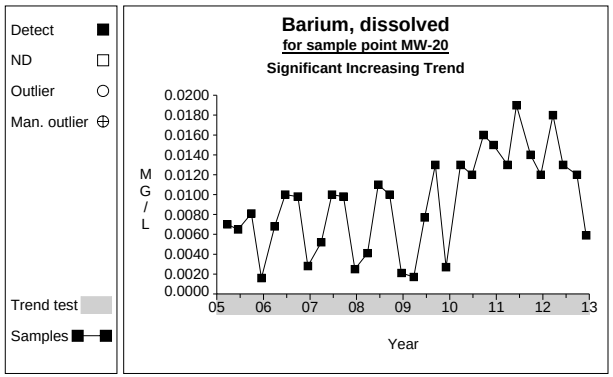
Graph 103



Graph 113

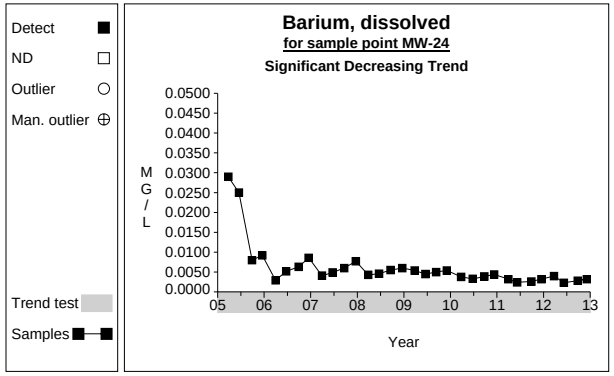


Graph 115

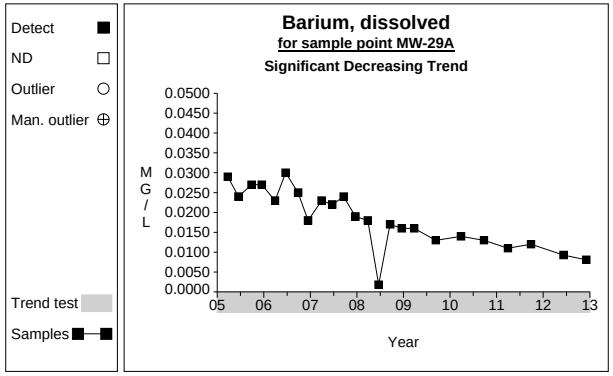


Graph 116

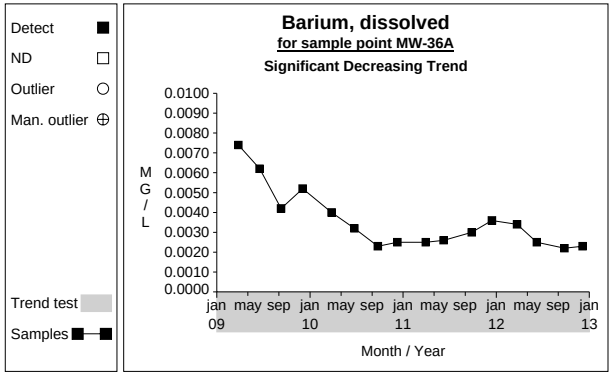
Time Series



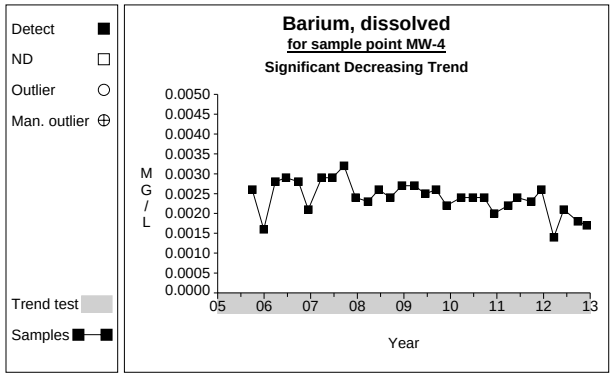
Graph 118



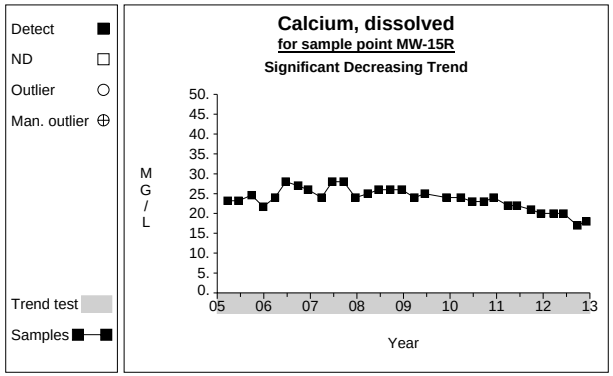
Graph 119



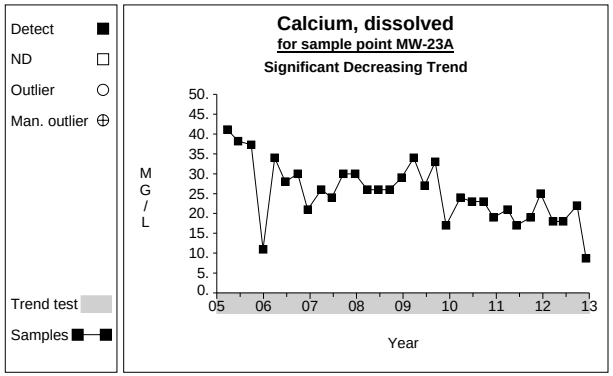
Graph 127



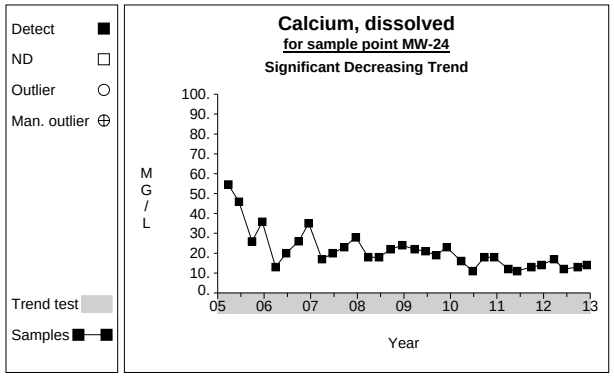
Graph 129



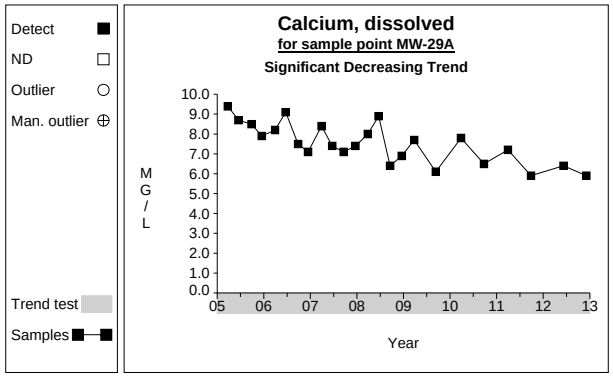
Graph 179



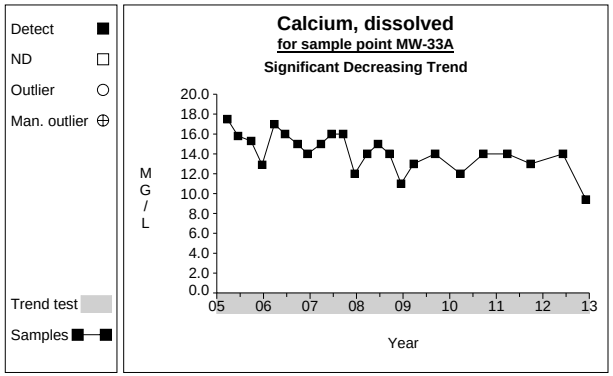
Graph 183



Graph 184

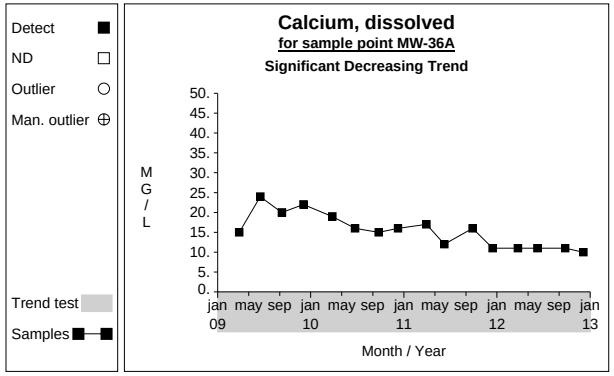


Graph 185

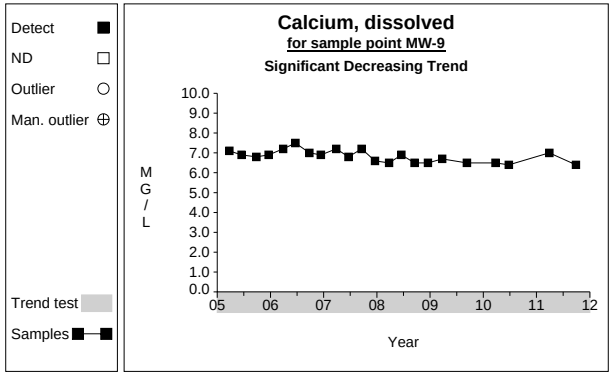


Graph 188

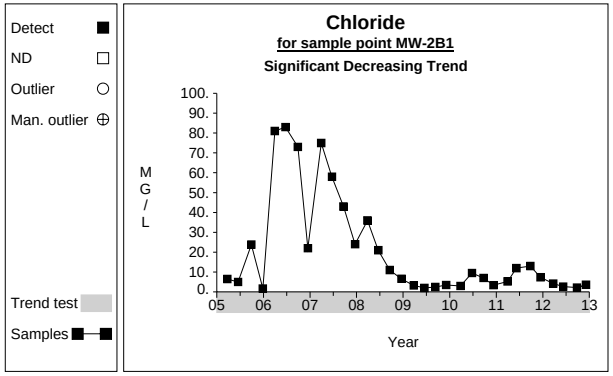
Time Series



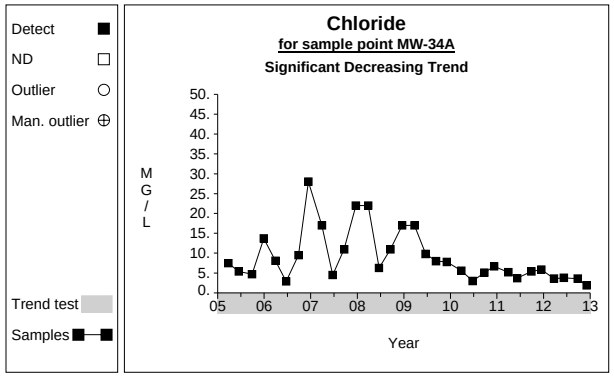
Graph 193



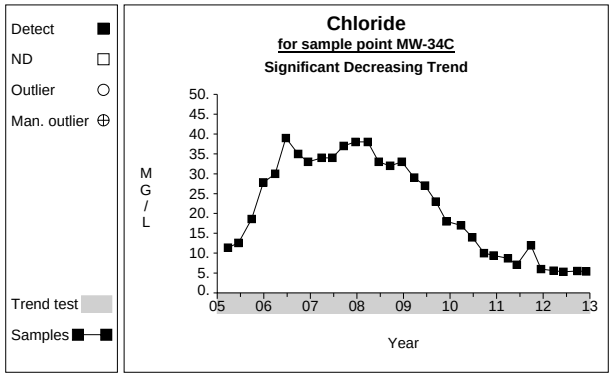
Graph 198



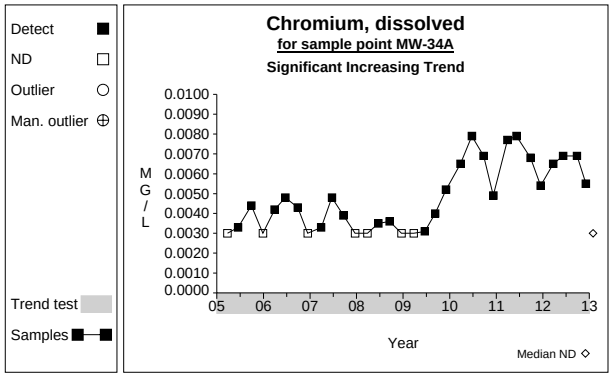
Graph 208



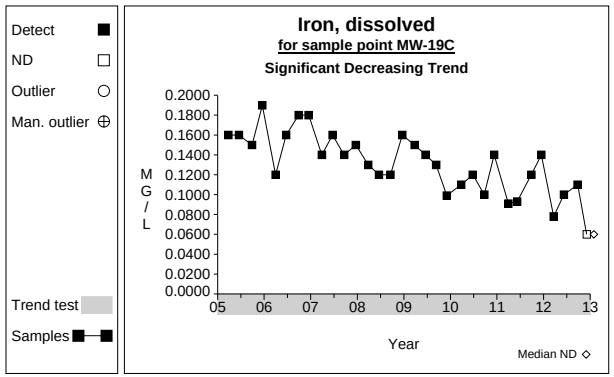
Graph 212



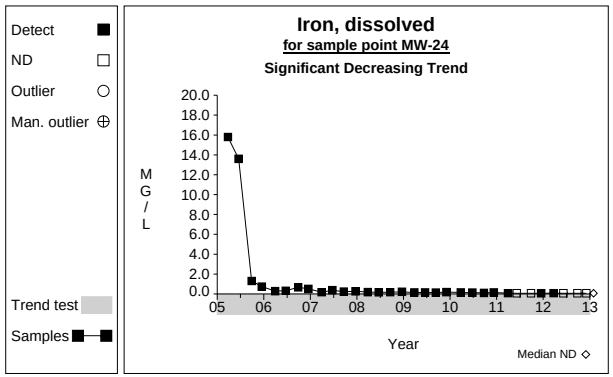
Graph 213



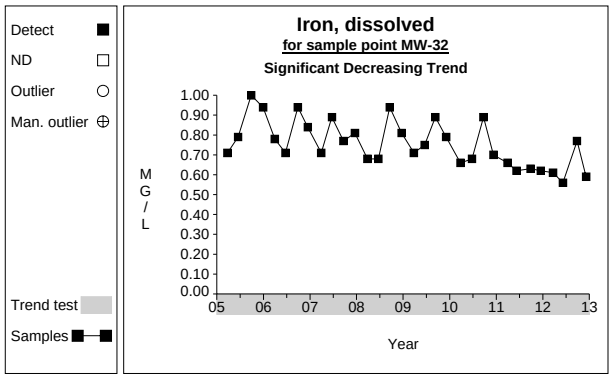
Graph 234



Graph 291

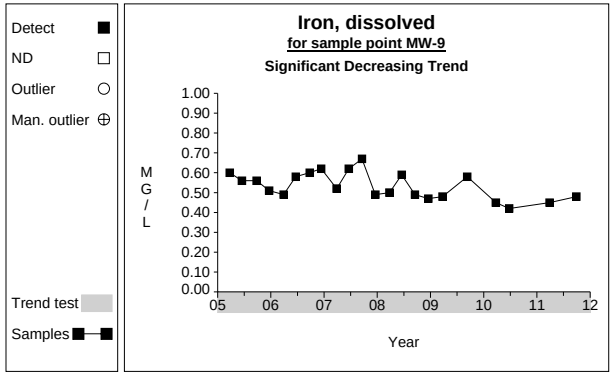


Graph 294

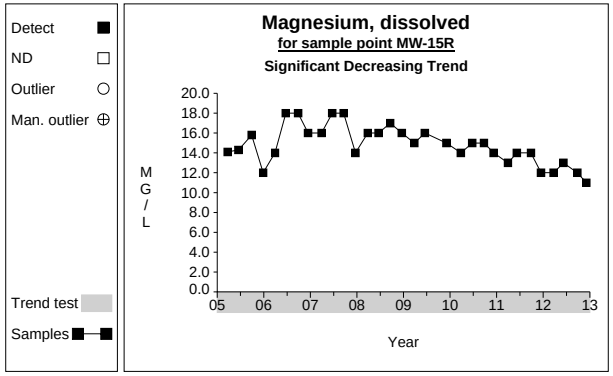


Graph 297

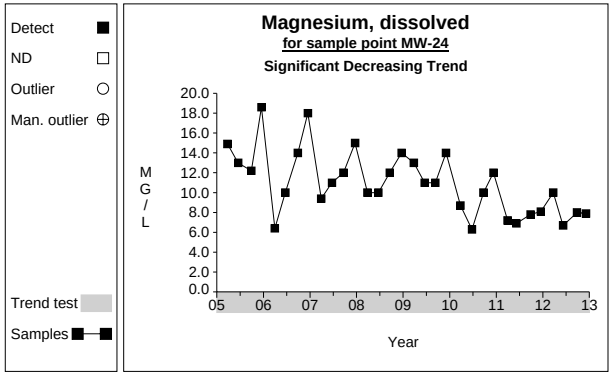
Time Series



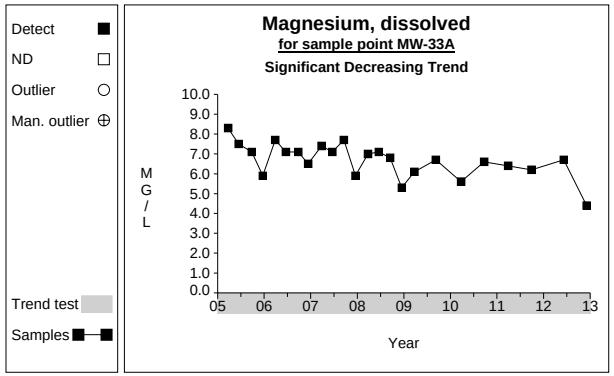
Graph 308



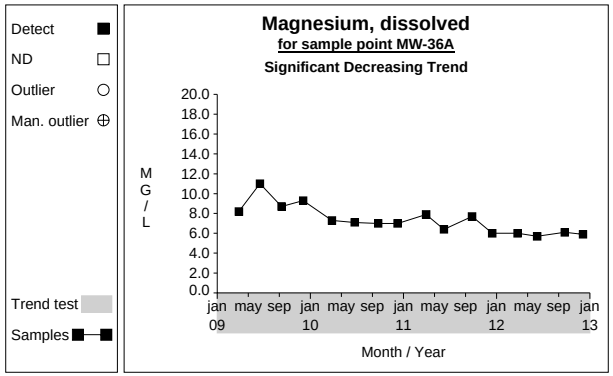
Graph 333



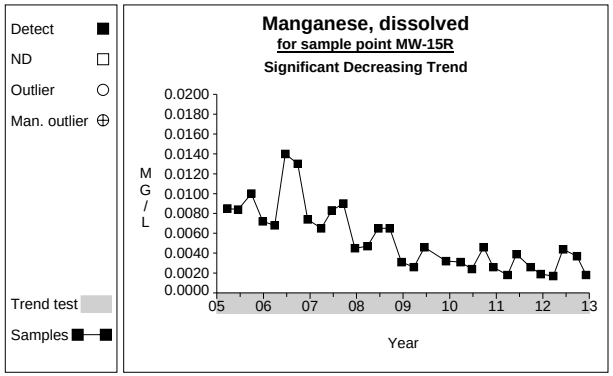
Graph 338



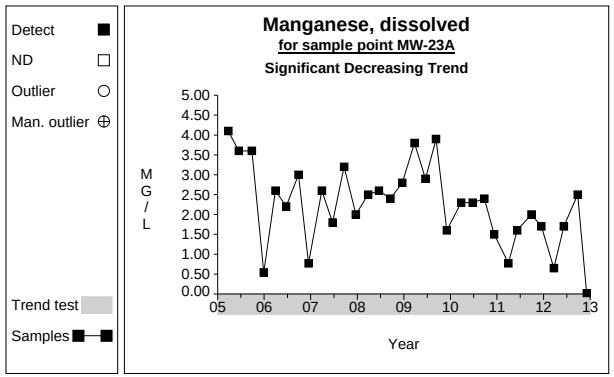
Graph 342



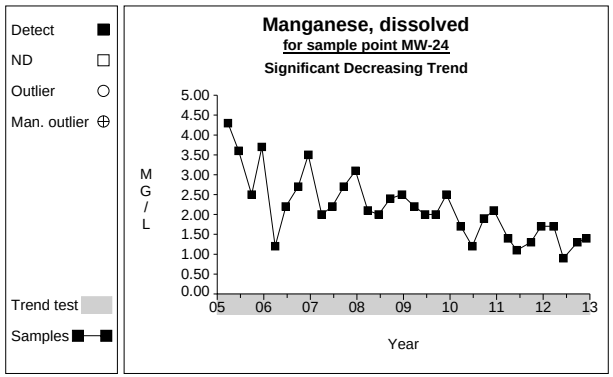
Graph 347



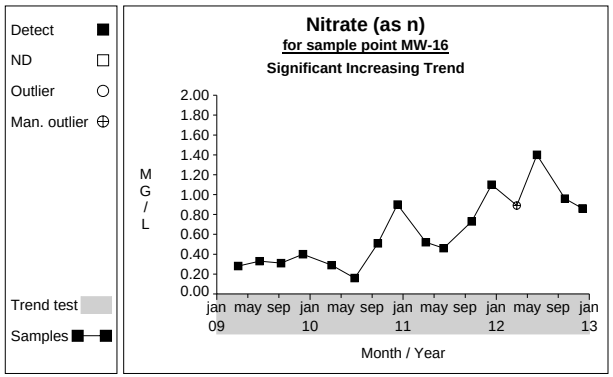
Graph 355



Graph 359

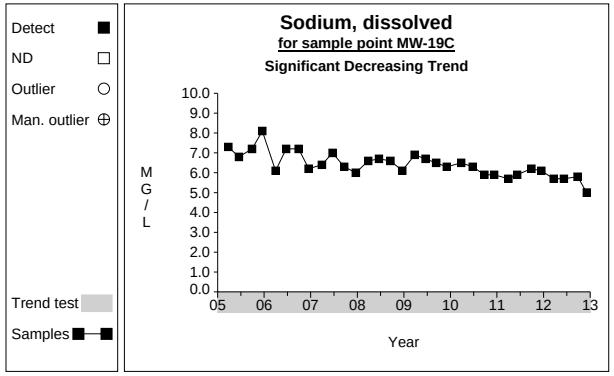


Graph 360

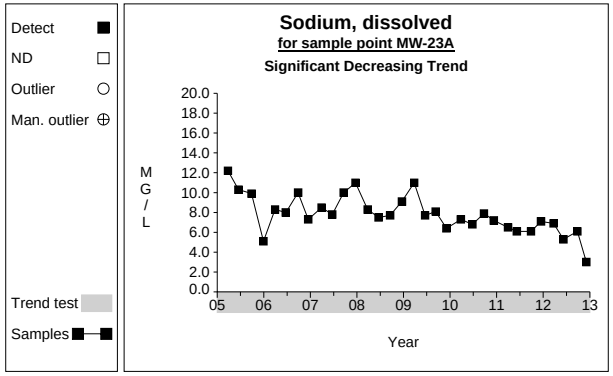


Graph 400

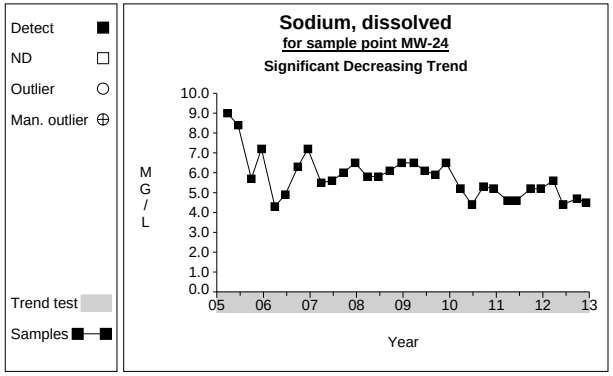
Time Series



Graph 511



Graph 513



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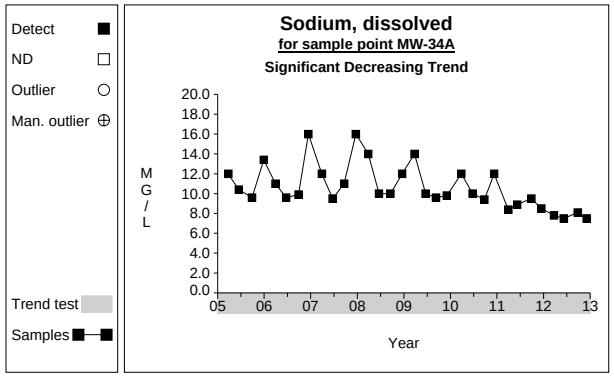
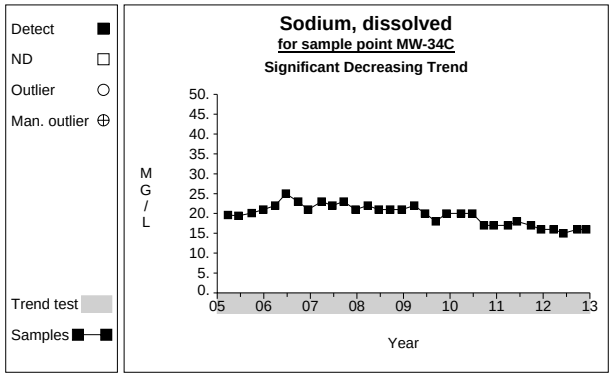
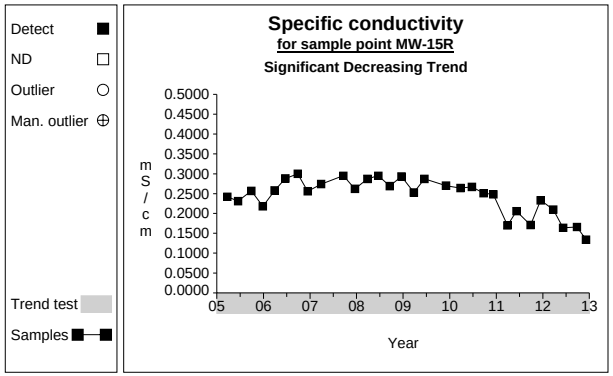


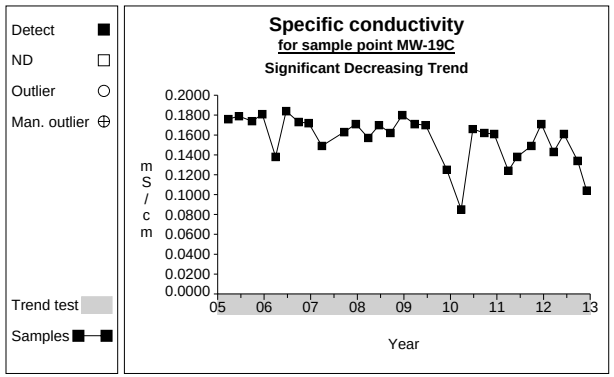
Graph 520



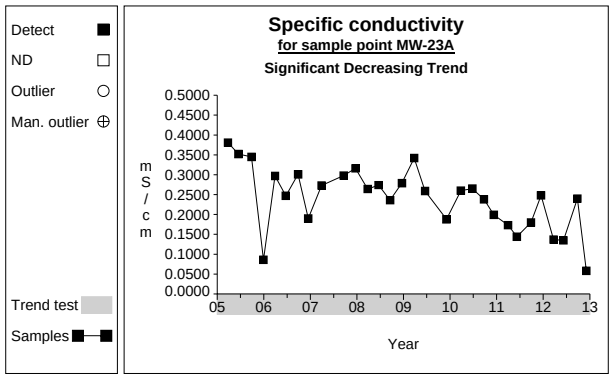
Graph 521



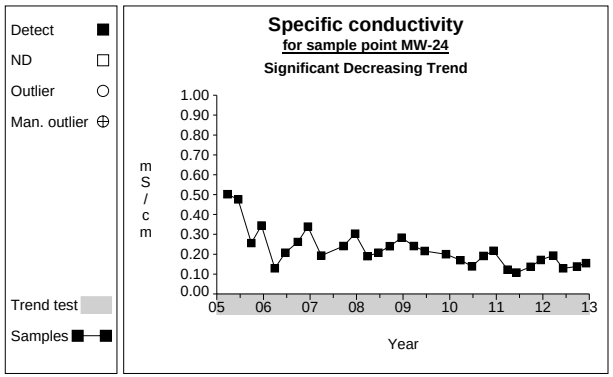
Graph 531



Graph 533

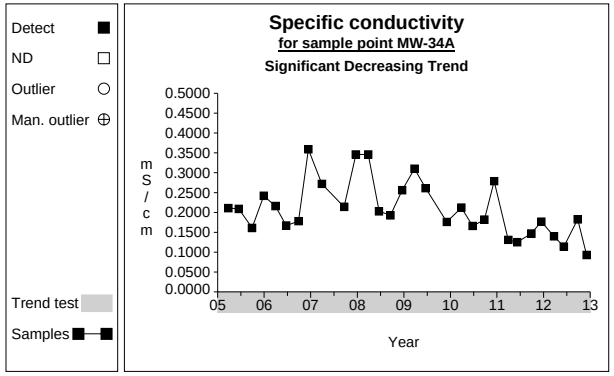


Graph 535



Graph 536

Time Series



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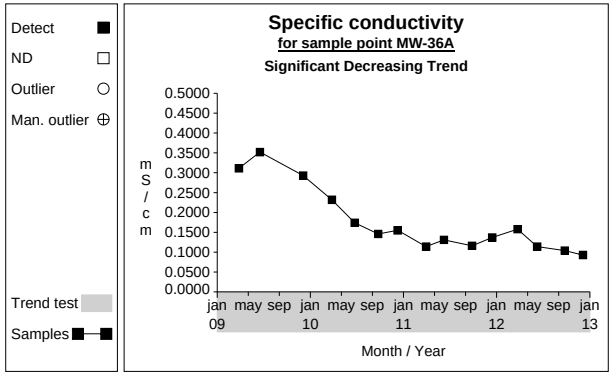
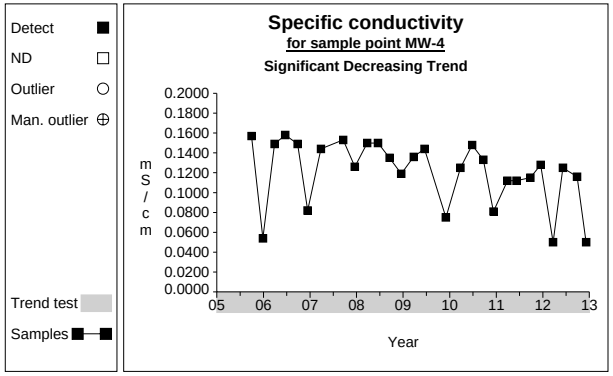
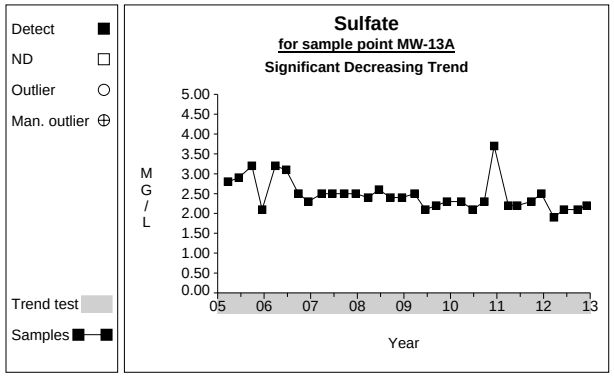


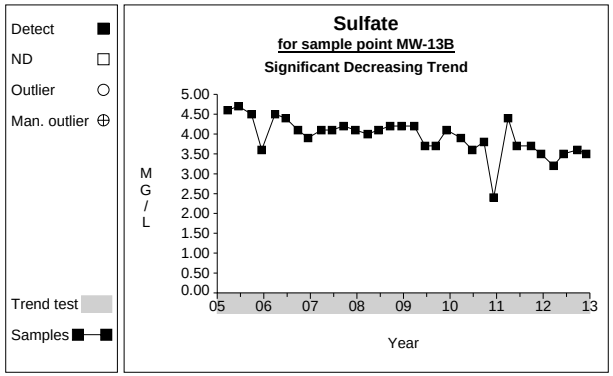
Graph 545



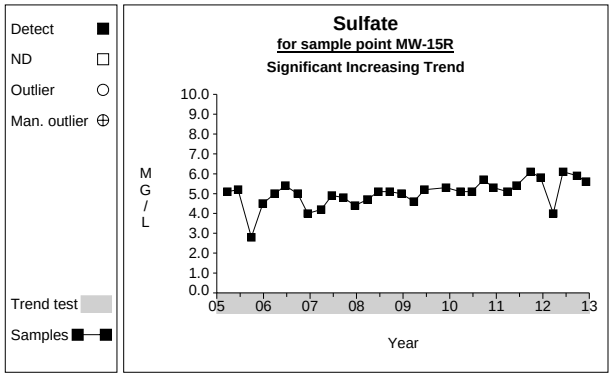
Graph 547



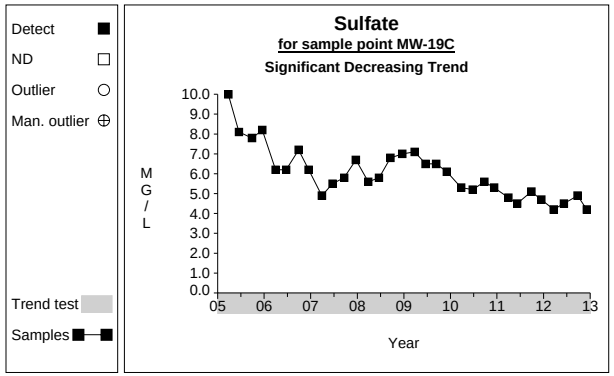
Graph 551



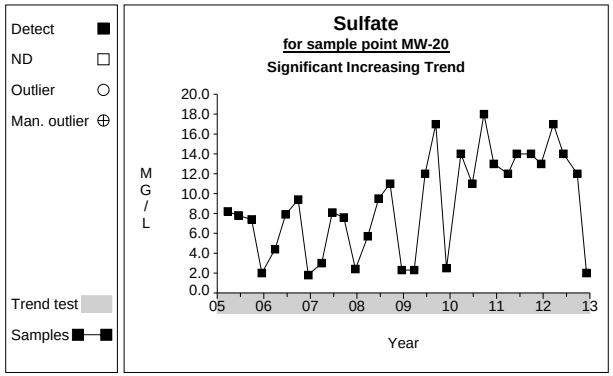
Graph 552



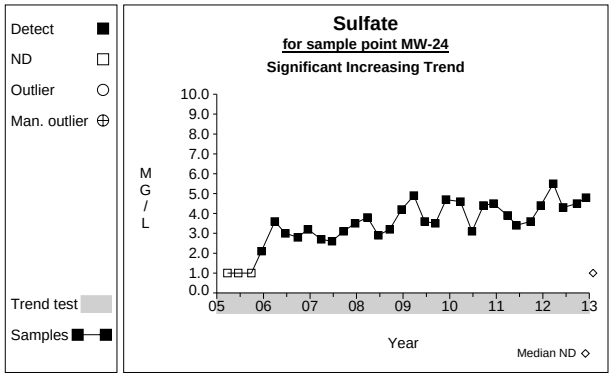
Graph 553



Graph 555

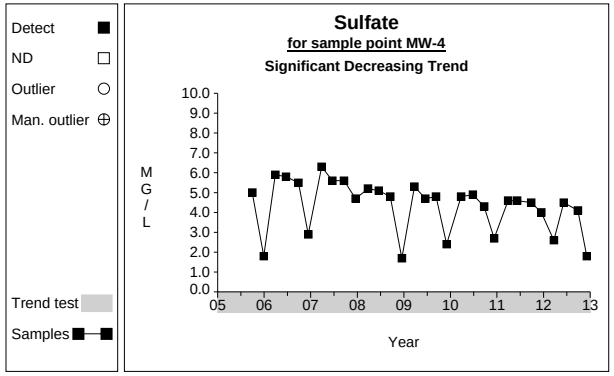


Graph 556

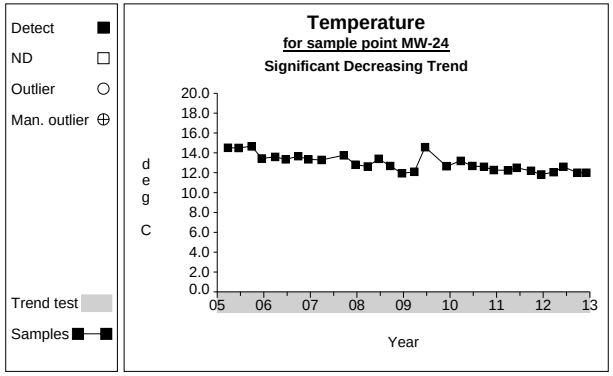


Graph 558

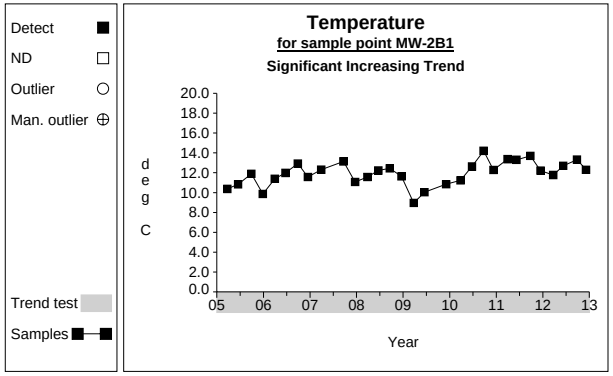
Time Series



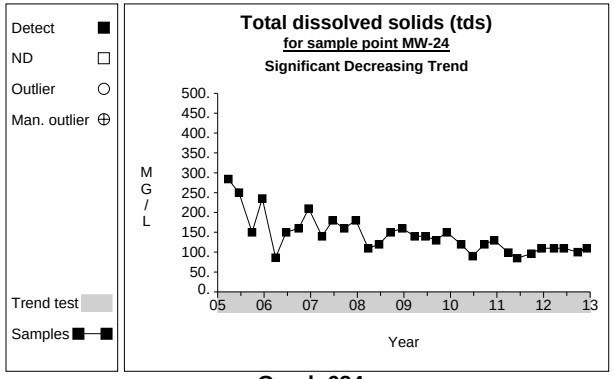
Graph 569



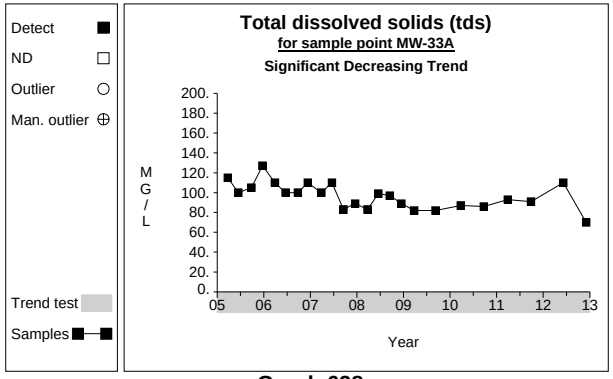
Graph 580



Graph 582



Graph 624



Graph 628

2. Prediction Limits for Detection Monitoring

- 2012 Prediction Limits and Q4 2012 Exeedance Summary Table (Table 2-1)
- Updated Prediction Limits for Use During 2013 Monitoring Year (Table 2-2)
- Upgradient Data used in 2013 Prediction Limit Calculations (Table 2-3)
- Results of Shapiro-Wilk Test for Normality for 2013 Upgradient Data (Table 2-4)
- Comparison of 2012 Prediction Limits with 2013 Prediction Limits (Table 2-5)

TABLE 2-1
SUMMARY OF CURRENT PREDICTION LIMIT EXCEEDANCES
Q4 2012
Olympic View Sanitary Landfill

Statistical Methodology:

1. Inter-Well Prediction Limits using DUMPStat™
2. Upgradient Data Set: pooled data from wells MW-13A, MW-13B, MW-16, and MW-35
3. "Detection Monitoring" well comparisons:
   - complance wells: MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43
   - downgradient wells: MW-9*, MW-29A**, MW-32, MW-33A**, MW-33C, MW-36A
     *no longer routinely sampled, therefore no results presented
     **sampled semi-annually, most current results presented
4. Parameters: all Appendix I and II inorganic and ground water quality parameters
5. Background Data Sets: January 2005 - December 2011
6. Arsenic: only low-level Method 200.8 data used
7. Units: MG/L = milligrams per liter; mS/cm = millisiemens per centimeter; deg C = degrees Celcius

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Alkalinity, bicarbonate (as caco3)	MG/L	MW-15R	100	12/04/2012	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-32	120	12/05/2012	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-34C	140	12/03/2012	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-42	240	12/04/2012	96
Alkalinity, total (as caco3)	MG/L	MW-15R	100	12/04/2012	96
Alkalinity, total (as caco3)	MG/L	MW-32	120	12/05/2012	96
Alkalinity, total (as caco3)	MG/L	MW-34C	140	12/03/2012	96
Alkalinity, total (as caco3)	MG/L	MW-42	240	12/04/2012	96
Ammonia (as n)	MG/L	MW-33A	0.25	12/03/2012	0.18
Arsenic, dissolved	UG/L	MW-29A	1.73	12/04/2012	0.38
Arsenic, dissolved	UG/L	MW-32	11.4	12/05/2012	0.38
Arsenic, dissolved	UG/L	MW-33C	2.66	12/03/2012	0.38
Arsenic, dissolved	UG/L	MW-34C	4.2	12/03/2012	0.38
Arsenic, dissolved	UG/L	MW-36A	0.8	12/04/2012	0.38
Arsenic, dissolved	UG/L	MW-42	1.6	12/04/2012	0.38
Barium, dissolved	MG/L	MW-15R	0.0059	12/04/2012	0.0052
Barium, dissolved	MG/L	MW-29A	0.0081	12/04/2012	0.0052
Barium, dissolved	MG/L	MW-34C	0.011	12/03/2012	0.0052
Barium, dissolved	MG/L	MW-39	0.01	12/04/2012	0.0052
Barium, dissolved	MG/L	MW-42	0.13	12/04/2012	0.0052
Calcium, dissolved	MG/L	MW-15R	18	12/04/2012	17.1
Calcium, dissolved	MG/L	MW-32	22	12/05/2012	17.1
Calcium, dissolved	MG/L	MW-34C	26	12/03/2012	17.1
Calcium, dissolved	MG/L	MW-42	44	12/04/2012	17.1
Chloride	MG/L	MW-32	12	12/05/2012	3.86
Chloride	MG/L	MW-34C	5.4	12/03/2012	3.86
Chloride	MG/L	MW-42	24	12/04/2012	3.86

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Iron, dissolved	MG/L	MW-33A	2.1	12/03/2012	0.097
Iron, dissolved	MG/L	MW-43	0.45	12/04/2012	0.097
Iron, dissolved	MG/L	MW-29A	3.5	12/04/2012	0.097
Iron, dissolved	MG/L	MW-32	0.59	12/05/2012	0.097
Iron, dissolved	MG/L	MW-34C	0.77	12/03/2012	0.097
Iron, dissolved	MG/L	MW-42	28	12/04/2012	0.097
Magnesium, dissolved	MG/L	MW-15R	11	12/04/2012	10.57
Magnesium, dissolved	MG/L	MW-32	11	12/05/2012	10.57
Magnesium, dissolved	MG/L	MW-34C	12	12/03/2012	10.57
Magnesium, dissolved	MG/L	MW-42	18	12/04/2012	10.57
Manganese, dissolved	MG/L	MW-33A	0.081	12/03/2012	0.0067
Manganese, dissolved	MG/L	MW-29A	1.1	12/04/2012	0.0067
Manganese, dissolved	MG/L	MW-32	2.2	12/05/2012	0.0067
Manganese, dissolved	MG/L	MW-33C	0.14	12/03/2012	0.0067
Manganese, dissolved	MG/L	MW-34C	0.64	12/03/2012	0.0067
Manganese, dissolved	MG/L	MW-42	5	12/04/2012	0.0067
Manganese, dissolved	MG/L	MW-43	0.18	12/04/2012	0.0067
Nickel, dissolved	MG/L	MW-34A	0.0073	12/03/2012	0.004
Nitrate (as n)	MG/L	MW-34A	4.2	12/03/2012	1.8
Nitrate (as n)	MG/L	MW-39	5.3	12/04/2012	1.8
pH	pH Units	MW-29A	5.89	12/04/2012	5.90 - 8.32
pH	pH Units	MW-34A	5.76	12/03/2012	5.90 - 8.32
pH	pH Units	MW-36A	5.78	12/04/2012	5.90 - 8.32
pH	pH Units	MW-39	5.85	12/04/2012	5.90 - 8.32
pH	pH Units	MW-43	5.6	12/04/2012	5.90 - 8.32
Potassium, dissolved	MG/L	MW-34C	1.1	12/03/2012	1.00
Potassium, dissolved	MG/L	MW-33C	1.3	12/03/2012	1.00
Potassium, dissolved	MG/L	MW-36A	1.1	12/04/2012	1.00
Potassium, dissolved	MG/L	MW-42	7.8	12/04/2012	1.00
Sodium, dissolved	MG/L	MW-15R	6.3	12/04/2012	5.94
Sodium, dissolved	MG/L	MW-32	13	12/05/2012	5.94
Sodium, dissolved	MG/L	MW-34A	7.5	12/03/2012	5.94
Sodium, dissolved	MG/L	MW-34C	16	12/03/2012	5.94
Sodium, dissolved	MG/L	MW-36A	7.6	12/04/2012	5.94
Sodium, dissolved	MG/L	MW-39	7.4	12/04/2012	5.94
Sodium, dissolved	MG/L	MW-42	21	12/04/2012	5.94
Specific conductivity	mS/cm	MW-32	0.242	12/05/2012	0.176
Specific conductivity	mS/cm	MW-34C	0.246	12/03/2012	0.176
Specific conductivity	mS/cm	MW-42	0.585	12/04/2012	0.176
Sulfate	MG/L	MW-32	16	12/05/2012	9.9
Sulfate	MG/L	MW-42	16	12/04/2012	9.9
Temperature	deg C	MW-39	11.6	12/04/2012	11.14
Temperature	deg C	MW-32	12.2	12/05/2012	11.14
Temperature	deg C	MW-34A	11.2	12/03/2012	11.14
Temperature	deg C	MW-34C	12.6	12/03/2012	11.14

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Temperature	deg C	MW-42	12.3	12/04/2012	11.14
Total dissolved solids (tds)	MG/L	MW-32	200	12/05/2012	175
Total dissolved solids (tds)	MG/L	MW-34C	210	12/03/2012	175
Total dissolved solids (tds)	MG/L	MW-42	310	12/04/2012	175
Total organic carbon (toc)	MG/L	MW-42	8.2	12/04/2012	6.0

TABLE 2-2
STATISTICAL PREDICTION LIMITS UPDATED FOR 2013 MONITORING YEAR
Olympic View Sanitary Landfill

Statistical Methodology:

1. Inter-Well Prediction Limits using DUMPStat
2. Upgradient Data Set: pooled data from wells 13A, 13B, 16, and 35
3. "Detection Monitoring" well comparisons:
   - complance wells
   - performance wells
   - downgradient wells
4. Parameters: all Appendix I and II inorganic and ground water quality parameters
5. Background Data Sets: January 2005 - December 2012 (updated annually)
6. Arsenic: only low-level Method 200.8 data used
7. Units: MG/L = milligrams per liter; mS/cm = millisiemens per centimeter; deg C = degrees Celcius

Constituent	Units	Distributional Assumption[1]	Total N[2]	Detected N	Mean	Standard Deviation	Prediction Limit[3]	Nonparametric Confidence[4]
Alkalinity, bicarbonate (as $CaCO_3$)	MG/L	nonparametric	108	108			96	
Alkalinity, total (as $CaCO_3$)	MG/L	nonparametric	112	112			96	
Ammonia (as N)	MG/L	nonparametric	109	70			0.340	0.99
Antimony, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Arsenic, dissolved	UG/L	nonparametric	109	109			0.380	0.99
Barium, dissolved	MG/L	nonparametric	112	111			0.0052	0.99
Beryllium, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Cadmium, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Calcium, dissolved	MG/L	nonparametric	112	112			17.10	0.99
Chloride	MG/L	normal	112	112	2.61	0.543	3.91	
Chromium, dissolved	MG/L	nonparametric	112	37			0.033	0.99
Cobalt, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Copper, dissolved	MG/L	nonparametric	112	2			0.0094	0.99
Iron, dissolved	MG/L	nonparametric	112	4			0.097	0.99
Lead, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Magnesium, dissolved	MG/L	normal	112	112	8.37	0.992	10.74	
Manganese, dissolved	MG/L	nonparametric	112	7			0.0067	0.99
Nickel, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Nitrate (as N)	MG/L	nonparametric	108	108			1.80	0.99
pH	pH Units	normal	105	105	7.07	0.451	5.87 - 8.27	
Potassium, dissolved	MG/L	nonparametric	112	12			1.00	0.99
Selenium, dissolved	MG/L	nonparametric	112	2			0.0011	0.99
Silver, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Sodium, dissolved	MG/L	nonparametric	112	112			6.20	
Specific conductivity	mS/cm	nonparametric	105	105			0.18	0.99
Sulfate	MG/L	nonparametric	112	111			9.90	0.99
Temperature	deg C	normal	105	105	9.43	0.691	11.09	
Thallium, dissolved	MG/L	nonparametric	112	0			Current RL*	0.99
Total dissolved solids (tds)	MG/L	nonparametric	112	112			175	0.99
Total organic carbon (toc)	MG/L	nonparametric	112	7			6.0	0.99
Vanadium, dissolved	MG/L	nonparametric	112	111			0.0066	0.99
Zinc, dissolved	MG/L	nonparametric	79	1			0.0096	0.99

[1] Distributional Assumption based on Multiple Group Shapiro-Wilk Test (results presented on Table 4 herein).

[2] N = number of background data points from the pooled upgradient well data set AFTER removal of outliers (see Table 3 herein).

[3] Prediction Limit calculated at 95% confidence level and adjusted for multiple comparisons and one verification resample per Unified Guidance (USEPA, March 2009).

[4] Nonparametric confidence level as calculated by DUMPStat.

*Current RL: in cases where all background data are non-detected, a nonparametric prediction limit is set at the current constituent-specific laboratory reporting limit (RL).

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/22/2005		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/15/2005		63.8000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/27/2005		75.6000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/15/2005		72.5000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/28/2006		80.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/21/2006		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/26/2006		80.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/13/2006		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/27/2007		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/19/2007		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/19/2007		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/19/2007		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/25/2008		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/18/2008		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/17/2008		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/17/2008		92.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/24/2009		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/17/2009		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/10/2009		87.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/25/2010		86.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/23/2010		86.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/23/2010		96.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/08/2010		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/30/2011		88.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/06/2011		89.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/27/2011		89.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/14/2011		90.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/21/2012		89.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/08/2012		87.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/26/2012		87.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/03/2012		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/22/2005		70.6000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/15/2005		57.3000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/27/2005		72.7000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/15/2005		68.8000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/29/2006		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/21/2006		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/26/2006		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/13/2006		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/27/2007		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/19/2007		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/18/2007		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/19/2007		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/25/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/18/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/17/2008		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/16/2008		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/24/2009		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/17/2009		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/10/2009		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/25/2010		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/23/2010		80.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/23/2010		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/08/2010		88.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/30/2011		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/06/2011		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/27/2011		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/14/2011		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/21/2012		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/08/2012		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/26/2012		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/03/2012		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	03/24/2009		66.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/16/2009		59.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/09/2009		66.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	03/25/2010		46.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/24/2010		71.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/24/2010		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	12/09/2010		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	03/30/2011		53.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/07/2011		59.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/27/2011		66.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	12/13/2011		60.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	03/21/2012		50.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/08/2012		49.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/27/2012		57.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	12/04/2012		64.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/22/2005		68.2000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/14/2005		59.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/27/2005		69.2000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/15/2005		67.3000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/28/2006		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/21/2006		71.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2006		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/12/2006		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/27/2007		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/20/2007		70.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/18/2007		69.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/20/2007		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/25/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/18/2008		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/18/2008		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/19/2008		68.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/24/2009		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/16/2009		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/10/2009		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/25/2010		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/23/2010		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/23/2010		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/09/2010		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/30/2011		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/06/2011		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2011		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/13/2011		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/21/2012		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/06/2012		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2012		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/04/2012		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/22/2005		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/15/2005		63.8000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/27/2005		75.6000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/15/2005		72.5000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/28/2006		80.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/21/2006		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/26/2006		80.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/13/2006		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/27/2007		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/19/2007		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/19/2007		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/19/2007		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/25/2008		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/18/2008		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/17/2008		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/17/2008		92.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/24/2009		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/17/2009		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/10/2009		87.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/03/2009		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/25/2010		86.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/23/2010		86.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/23/2010		96.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/08/2010		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/30/2011		88.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/06/2011		89.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/27/2011		89.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/14/2011		90.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/21/2012		89.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/08/2012		87.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/26/2012		87.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/03/2012		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/22/2005		70.6000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/15/2005		57.3000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/27/2005		72.7000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/15/2005		68.8000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/29/2006		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/21/2006		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/26/2006		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/13/2006		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/27/2007		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/19/2007		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/18/2007		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/19/2007		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/25/2008		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/18/2008		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/17/2008		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/16/2008		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/24/2009		78.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/17/2009		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/10/2009		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/03/2009		80.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/25/2010		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/23/2010		80.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/23/2010		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/08/2010		88.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/30/2011		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/06/2011		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/27/2011		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/14/2011		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/21/2012		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/08/2012		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/26/2012		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/03/2012		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	03/24/2009		66.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/16/2009		59.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/09/2009		66.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	12/03/2009		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	03/25/2010		46.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/24/2010		71.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/24/2010		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	12/09/2010		72.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	03/30/2011		53.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/07/2011		59.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/27/2011		66.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	12/13/2011		60.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	03/21/2012		50.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/08/2012		49.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/27/2012		57.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	12/04/2012		64.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/22/2005		68.2000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/14/2005		59.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/27/2005		69.2000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/15/2005		67.3000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/28/2006		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/21/2006		71.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/26/2006		72.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Alkalinity, total (as caco3)	MG/L	MW-35	12/12/2006		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/27/2007		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/20/2007		70.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/18/2007		69.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/20/2007		72.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/25/2008		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/18/2008		72.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/18/2008		72.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/19/2008		68.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/24/2009		72.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/16/2009		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/10/2009		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/03/2009		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/25/2010		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/23/2010		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/23/2010		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/09/2010		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/30/2011		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/06/2011		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/26/2011		78.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/13/2011		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/21/2012		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/06/2012		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/26/2012		78.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/04/2012		76.0000	
Ammonia (as n)	MG/L	MW-13A	03/22/2005		0.0200	
Ammonia (as n)	MG/L	MW-13A	06/15/2005		0.1300	
Ammonia (as n)	MG/L	MW-13A	09/27/2005		0.0210	
Ammonia (as n)	MG/L	MW-13A	12/15/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-13A	03/28/2006		0.0490	
Ammonia (as n)	MG/L	MW-13A	06/21/2006		0.0680	
Ammonia (as n)	MG/L	MW-13A	09/26/2006		0.0360	
Ammonia (as n)	MG/L	MW-13A	12/13/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	03/27/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	06/19/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/19/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/19/2007		0.0420	
Ammonia (as n)	MG/L	MW-13A	03/25/2008		0.0500	
Ammonia (as n)	MG/L	MW-13A	06/18/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/17/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/17/2008		0.0630	
Ammonia (as n)	MG/L	MW-13A	03/24/2009		0.0830	
Ammonia (as n)	MG/L	MW-13A	06/17/2009		0.0930	
Ammonia (as n)	MG/L	MW-13A	09/10/2009	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/03/2009		0.0590	
Ammonia (as n)	MG/L	MW-13A	03/25/2010		0.0460	
Ammonia (as n)	MG/L	MW-13A	06/23/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/23/2010		0.0490	
Ammonia (as n)	MG/L	MW-13A	12/08/2010		0.0610	
Ammonia (as n)	MG/L	MW-13A	03/30/2011		0.0640	
Ammonia (as n)	MG/L	MW-13A	06/06/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/27/2011		0.0750	
Ammonia (as n)	MG/L	MW-13A	12/14/2011		0.0860	
Ammonia (as n)	MG/L	MW-13A	03/21/2012		0.0390	
Ammonia (as n)	MG/L	MW-13A	06/08/2012		0.2800	
Ammonia (as n)	MG/L	MW-13A	09/26/2012		0.0870	
Ammonia (as n)	MG/L	MW-13A	12/03/2012		0.1200	
Ammonia (as n)	MG/L	MW-13B	03/22/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-13B	06/15/2005		0.1200	
Ammonia (as n)	MG/L	MW-13B	09/27/2005		0.1700	
Ammonia (as n)	MG/L	MW-13B	12/15/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-13B	03/29/2006		0.0360	
Ammonia (as n)	MG/L	MW-13B	06/21/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	09/26/2006		0.0300	
Ammonia (as n)	MG/L	MW-13B	12/13/2006	ND	0.0300	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Ammonia (as n)	MG/L	MW-13B	03/27/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	06/19/2007		0.0300	
Ammonia (as n)	MG/L	MW-13B	12/19/2007		0.1100	
Ammonia (as n)	MG/L	MW-13B	03/25/2008		0.0600	
Ammonia (as n)	MG/L	MW-13B	06/18/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	09/17/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	12/16/2008		0.0560	
Ammonia (as n)	MG/L	MW-13B	03/24/2009		0.0630	
Ammonia (as n)	MG/L	MW-13B	06/17/2009		0.0870	
Ammonia (as n)	MG/L	MW-13B	09/10/2009		0.0450	
Ammonia (as n)	MG/L	MW-13B	12/03/2009	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	03/25/2010		0.0440	
Ammonia (as n)	MG/L	MW-13B	06/23/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	09/23/2010		0.0450	
Ammonia (as n)	MG/L	MW-13B	12/08/2010		0.0520	
Ammonia (as n)	MG/L	MW-13B	03/30/2011		0.0620	
Ammonia (as n)	MG/L	MW-13B	06/06/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	09/27/2011		0.0320	
Ammonia (as n)	MG/L	MW-13B	12/14/2011		0.0300	
Ammonia (as n)	MG/L	MW-13B	03/21/2012	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	06/08/2012		0.2000	
Ammonia (as n)	MG/L	MW-13B	09/26/2012		0.0760	
Ammonia (as n)	MG/L	MW-13B	12/03/2012	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	03/24/2009		0.0620	
Ammonia (as n)	MG/L	MW-16	06/16/2009		0.0930	
Ammonia (as n)	MG/L	MW-16	09/09/2009		0.0360	
Ammonia (as n)	MG/L	MW-16	12/03/2009		0.0580	
Ammonia (as n)	MG/L	MW-16	03/25/2010		0.0460	
Ammonia (as n)	MG/L	MW-16	06/24/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	09/24/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	12/09/2010		0.0590	
Ammonia (as n)	MG/L	MW-16	03/30/2011		0.0600	
Ammonia (as n)	MG/L	MW-16	06/07/2011		0.0480	
Ammonia (as n)	MG/L	MW-16	09/27/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	12/13/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	03/21/2012		0.0420	
Ammonia (as n)	MG/L	MW-16	06/08/2012		0.3400	
Ammonia (as n)	MG/L	MW-16	09/27/2012		0.3000	
Ammonia (as n)	MG/L	MW-16	12/04/2012	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	03/22/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-35	06/14/2005		0.1200	
Ammonia (as n)	MG/L	MW-35	09/27/2005		0.1500	
Ammonia (as n)	MG/L	MW-35	12/15/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-35	03/28/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	06/21/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	09/26/2006		0.0330	
Ammonia (as n)	MG/L	MW-35	12/12/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	03/27/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	06/20/2007		0.0420	
Ammonia (as n)	MG/L	MW-35	12/20/2007		0.0600	
Ammonia (as n)	MG/L	MW-35	03/25/2008		0.0590	
Ammonia (as n)	MG/L	MW-35	06/18/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	09/18/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	12/19/2008		0.0810	
Ammonia (as n)	MG/L	MW-35	03/24/2009		0.0600	
Ammonia (as n)	MG/L	MW-35	06/16/2009		0.0660	
Ammonia (as n)	MG/L	MW-35	09/10/2009	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	12/03/2009		0.0760	
Ammonia (as n)	MG/L	MW-35	03/25/2010		0.0410	
Ammonia (as n)	MG/L	MW-35	06/23/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	09/23/2010		0.0530	
Ammonia (as n)	MG/L	MW-35	12/09/2010		0.0550	
Ammonia (as n)	MG/L	MW-35	03/30/2011		0.0630	
Ammonia (as n)	MG/L	MW-35	06/06/2011		0.1800	
Ammonia (as n)	MG/L	MW-35	09/26/2011		0.0650	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Ammonia (as n)	MG/L	MW-35	12/13/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	03/21/2012		0.0300	
Ammonia (as n)	MG/L	MW-35	06/06/2012		0.6000	*
Ammonia (as n)	MG/L	MW-35	09/26/2012		0.0690	
Ammonia (as n)	MG/L	MW-35	12/04/2012	ND	0.0300	
Antimony, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Antimony, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Antimony, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Arsenic, dissolved	UG/L	MW-13A	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-13A	06/15/2005		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/27/2005		0.2200	
Arsenic, dissolved	UG/L	MW-13A	12/15/2005		0.2100	
Arsenic, dissolved	UG/L	MW-13A	03/28/2006		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/21/2006		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/26/2006		0.1900	
Arsenic, dissolved	UG/L	MW-13A	12/13/2006		0.2100	
Arsenic, dissolved	UG/L	MW-13A	03/27/2007		0.2100	
Arsenic, dissolved	UG/L	MW-13A	06/19/2007		0.1900	
Arsenic, dissolved	UG/L	MW-13A	09/19/2007		0.2100	
Arsenic, dissolved	UG/L	MW-13A	12/19/2007		0.1800	
Arsenic, dissolved	UG/L	MW-13A	03/25/2008		0.2000	

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ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic, dissolved	UG/L	MW-13A	06/18/2008		0.2000	
Arsenic, dissolved	UG/L	MW-13A	09/17/2008		0.1700	
Arsenic, dissolved	UG/L	MW-13A	12/17/2008		0.1900	
Arsenic, dissolved	UG/L	MW-13A	03/24/2009		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/17/2009		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/10/2009		0.2100	
Arsenic, dissolved	UG/L	MW-13A	12/03/2009		0.2000	
Arsenic, dissolved	UG/L	MW-13A	03/25/2010		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/23/2010		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/23/2010		0.2100	
Arsenic, dissolved	UG/L	MW-13A	12/08/2010		0.3400	
Arsenic, dissolved	UG/L	MW-13A	03/30/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/06/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	09/27/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	12/14/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	03/21/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/08/2012		0.2300	
Arsenic, dissolved	UG/L	MW-13A	09/26/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13A	12/03/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13B	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-13B	06/15/2005		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/27/2005		0.3700	
Arsenic, dissolved	UG/L	MW-13B	12/15/2005		0.3500	
Arsenic, dissolved	UG/L	MW-13B	03/29/2006		0.3300	
Arsenic, dissolved	UG/L	MW-13B	06/21/2006		0.3500	
Arsenic, dissolved	UG/L	MW-13B	09/26/2006		0.3100	
Arsenic, dissolved	UG/L	MW-13B	12/13/2006		0.3300	
Arsenic, dissolved	UG/L	MW-13B	03/27/2007		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/19/2007		0.3300	
Arsenic, dissolved	UG/L	MW-13B	09/18/2007		0.3600	
Arsenic, dissolved	UG/L	MW-13B	12/19/2007		0.3100	
Arsenic, dissolved	UG/L	MW-13B	03/25/2008		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/18/2008		0.3300	
Arsenic, dissolved	UG/L	MW-13B	09/17/2008		0.3000	
Arsenic, dissolved	UG/L	MW-13B	12/16/2008		0.3200	
Arsenic, dissolved	UG/L	MW-13B	03/24/2009		0.3300	
Arsenic, dissolved	UG/L	MW-13B	06/17/2009		0.3400	
Arsenic, dissolved	UG/L	MW-13B	09/10/2009		0.3500	
Arsenic, dissolved	UG/L	MW-13B	12/03/2009		0.3500	
Arsenic, dissolved	UG/L	MW-13B	03/25/2010		0.3200	
Arsenic, dissolved	UG/L	MW-13B	06/23/2010		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/23/2010		0.3600	
Arsenic, dissolved	UG/L	MW-13B	12/08/2010		0.2000	
Arsenic, dissolved	UG/L	MW-13B	03/30/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/06/2011		0.3500	
Arsenic, dissolved	UG/L	MW-13B	09/27/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	12/14/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	03/21/2012		0.3000	
Arsenic, dissolved	UG/L	MW-13B	06/08/2012		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/26/2012		0.3100	
Arsenic, dissolved	UG/L	MW-13B	12/03/2012		0.3600	
Arsenic, dissolved	UG/L	MW-16	03/24/2009		0.3500	
Arsenic, dissolved	UG/L	MW-16	06/16/2009		0.3800	
Arsenic, dissolved	UG/L	MW-16	09/09/2009		0.3500	
Arsenic, dissolved	UG/L	MW-16	12/03/2009		0.3300	
Arsenic, dissolved	UG/L	MW-16	03/25/2010		0.3500	
Arsenic, dissolved	UG/L	MW-16	06/24/2010		0.3400	
Arsenic, dissolved	UG/L	MW-16	09/24/2010		0.3300	
Arsenic, dissolved	UG/L	MW-16	12/09/2010		0.3200	
Arsenic, dissolved	UG/L	MW-16	03/30/2011		0.3300	
Arsenic, dissolved	UG/L	MW-16	06/07/2011		0.3400	
Arsenic, dissolved	UG/L	MW-16	09/27/2011		0.3200	
Arsenic, dissolved	UG/L	MW-16	12/13/2011		0.3200	
Arsenic, dissolved	UG/L	MW-16	03/21/2012		0.3300	
Arsenic, dissolved	UG/L	MW-16	06/08/2012		0.3500	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic, dissolved	UG/L	MW-16	09/27/2012		0.3000	
Arsenic, dissolved	UG/L	MW-16	12/04/2012		0.3600	
Arsenic, dissolved	UG/L	MW-35	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-35	06/14/2005		0.1400	
Arsenic, dissolved	UG/L	MW-35	09/27/2005		0.1500	
Arsenic, dissolved	UG/L	MW-35	12/15/2005		0.1400	
Arsenic, dissolved	UG/L	MW-35	03/28/2006		0.1200	
Arsenic, dissolved	UG/L	MW-35	06/21/2006		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2006		0.1200	
Arsenic, dissolved	UG/L	MW-35	12/12/2006		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/27/2007		0.1500	
Arsenic, dissolved	UG/L	MW-35	06/20/2007		0.1200	
Arsenic, dissolved	UG/L	MW-35	09/18/2007		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/20/2007		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/25/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/18/2008		0.1200	
Arsenic, dissolved	UG/L	MW-35	09/18/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/19/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/24/2009		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/16/2009		0.1600	
Arsenic, dissolved	UG/L	MW-35	09/10/2009		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/03/2009		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/25/2010		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/23/2010		0.1600	
Arsenic, dissolved	UG/L	MW-35	09/23/2010		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/09/2010		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/30/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/06/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/13/2011		0.1400	
Arsenic, dissolved	UG/L	MW-35	03/21/2012		0.1100	
Arsenic, dissolved	UG/L	MW-35	06/06/2012		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2012		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/04/2012		0.1300	
Barium, dissolved	MG/L	MW-13A	03/22/2005		0.0029	
Barium, dissolved	MG/L	MW-13A	06/15/2005		0.0025	
Barium, dissolved	MG/L	MW-13A	09/27/2005		0.0025	
Barium, dissolved	MG/L	MW-13A	12/15/2005		0.0026	
Barium, dissolved	MG/L	MW-13A	03/28/2006		0.0028	
Barium, dissolved	MG/L	MW-13A	06/21/2006		0.0030	
Barium, dissolved	MG/L	MW-13A	09/26/2006		0.0028	
Barium, dissolved	MG/L	MW-13A	12/13/2006		0.0026	
Barium, dissolved	MG/L	MW-13A	03/27/2007		0.0028	
Barium, dissolved	MG/L	MW-13A	06/19/2007		0.0027	
Barium, dissolved	MG/L	MW-13A	09/19/2007		0.0035	
Barium, dissolved	MG/L	MW-13A	12/19/2007		0.0028	
Barium, dissolved	MG/L	MW-13A	03/25/2008		0.0028	
Barium, dissolved	MG/L	MW-13A	06/18/2008		0.0027	
Barium, dissolved	MG/L	MW-13A	09/17/2008		0.0029	
Barium, dissolved	MG/L	MW-13A	12/17/2008		0.0029	
Barium, dissolved	MG/L	MW-13A	03/24/2009		0.0030	
Barium, dissolved	MG/L	MW-13A	06/17/2009		0.0029	
Barium, dissolved	MG/L	MW-13A	09/10/2009		0.0029	
Barium, dissolved	MG/L	MW-13A	12/03/2009		0.0028	
Barium, dissolved	MG/L	MW-13A	03/25/2010		0.0031	
Barium, dissolved	MG/L	MW-13A	06/23/2010		0.0029	
Barium, dissolved	MG/L	MW-13A	09/23/2010		0.0028	
Barium, dissolved	MG/L	MW-13A	12/08/2010		0.0044	
Barium, dissolved	MG/L	MW-13A	03/30/2011		0.0029	
Barium, dissolved	MG/L	MW-13A	06/06/2011		0.0035	
Barium, dissolved	MG/L	MW-13A	09/27/2011		0.0026	
Barium, dissolved	MG/L	MW-13A	12/14/2011		0.0030	
Barium, dissolved	MG/L	MW-13A	03/21/2012		0.0030	
Barium, dissolved	MG/L	MW-13A	06/08/2012		0.0028	
Barium, dissolved	MG/L	MW-13A	09/26/2012		0.0029	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, dissolved	MG/L	MW-13A	12/03/2012		0.0029	
Barium, dissolved	MG/L	MW-13B	03/22/2005		0.0036	
Barium, dissolved	MG/L	MW-13B	06/15/2005		0.0033	
Barium, dissolved	MG/L	MW-13B	09/27/2005		0.0034	
Barium, dissolved	MG/L	MW-13B	12/15/2005		0.0031	
Barium, dissolved	MG/L	MW-13B	03/29/2006		0.0034	
Barium, dissolved	MG/L	MW-13B	06/21/2006		0.0034	
Barium, dissolved	MG/L	MW-13B	09/26/2006		0.0033	
Barium, dissolved	MG/L	MW-13B	12/13/2006		0.0033	
Barium, dissolved	MG/L	MW-13B	03/27/2007		0.0034	
Barium, dissolved	MG/L	MW-13B	06/19/2007		0.0032	
Barium, dissolved	MG/L	MW-13B	09/18/2007		0.0037	
Barium, dissolved	MG/L	MW-13B	12/19/2007		0.0034	
Barium, dissolved	MG/L	MW-13B	03/25/2008		0.0033	
Barium, dissolved	MG/L	MW-13B	06/18/2008		0.0033	
Barium, dissolved	MG/L	MW-13B	09/17/2008		0.0034	
Barium, dissolved	MG/L	MW-13B	12/16/2008		0.0037	
Barium, dissolved	MG/L	MW-13B	03/24/2009		0.0034	
Barium, dissolved	MG/L	MW-13B	06/17/2009		0.0034	
Barium, dissolved	MG/L	MW-13B	09/10/2009		0.0035	
Barium, dissolved	MG/L	MW-13B	12/03/2009		0.0035	
Barium, dissolved	MG/L	MW-13B	03/25/2010		0.0036	
Barium, dissolved	MG/L	MW-13B	06/23/2010		0.0034	
Barium, dissolved	MG/L	MW-13B	09/23/2010		0.0034	
Barium, dissolved	MG/L	MW-13B	12/08/2010		0.0029	
Barium, dissolved	MG/L	MW-13B	03/30/2011		0.0035	
Barium, dissolved	MG/L	MW-13B	06/06/2011		0.0034	
Barium, dissolved	MG/L	MW-13B	09/27/2011		0.0029	
Barium, dissolved	MG/L	MW-13B	12/14/2011		0.0035	
Barium, dissolved	MG/L	MW-13B	03/21/2012		0.0031	
Barium, dissolved	MG/L	MW-13B	06/08/2012		0.0035	
Barium, dissolved	MG/L	MW-13B	09/26/2012		0.0036	
Barium, dissolved	MG/L	MW-13B	12/03/2012		0.0035	
Barium, dissolved	MG/L	MW-16	03/24/2009		0.0044	
Barium, dissolved	MG/L	MW-16	06/16/2009		0.0037	
Barium, dissolved	MG/L	MW-16	09/09/2009		0.0040	
Barium, dissolved	MG/L	MW-16	12/03/2009		0.0051	
Barium, dissolved	MG/L	MW-16	03/25/2010		0.0033	
Barium, dissolved	MG/L	MW-16	06/24/2010		0.0046	
Barium, dissolved	MG/L	MW-16	09/24/2010		0.0052	
Barium, dissolved	MG/L	MW-16	12/09/2010		0.0045	
Barium, dissolved	MG/L	MW-16	03/30/2011		0.0039	
Barium, dissolved	MG/L	MW-16	06/07/2011		0.0039	
Barium, dissolved	MG/L	MW-16	09/27/2011		0.0047	
Barium, dissolved	MG/L	MW-16	12/13/2011		0.0038	
Barium, dissolved	MG/L	MW-16	03/21/2012		0.0030	
Barium, dissolved	MG/L	MW-16	06/08/2012		0.0032	
Barium, dissolved	MG/L	MW-16	09/27/2012		0.0036	
Barium, dissolved	MG/L	MW-16	12/04/2012		0.0037	
Barium, dissolved	MG/L	MW-35	03/22/2005		0.0030	
Barium, dissolved	MG/L	MW-35	06/14/2005		0.0027	
Barium, dissolved	MG/L	MW-35	09/27/2005		0.0030	
Barium, dissolved	MG/L	MW-35	12/15/2005		0.0026	
Barium, dissolved	MG/L	MW-35	03/28/2006		0.0030	
Barium, dissolved	MG/L	MW-35	06/21/2006		0.0030	
Barium, dissolved	MG/L	MW-35	09/26/2006		0.0030	
Barium, dissolved	MG/L	MW-35	12/12/2006		0.0027	
Barium, dissolved	MG/L	MW-35	03/27/2007		0.0030	
Barium, dissolved	MG/L	MW-35	06/20/2007		0.0032	
Barium, dissolved	MG/L	MW-35	09/18/2007		0.0035	
Barium, dissolved	MG/L	MW-35	12/20/2007		0.0033	
Barium, dissolved	MG/L	MW-35	03/25/2008		0.0028	
Barium, dissolved	MG/L	MW-35	06/18/2008		0.0029	
Barium, dissolved	MG/L	MW-35	09/18/2008		0.0029	
Barium, dissolved	MG/L	MW-35	12/19/2008		0.0029	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, dissolved	MG/L	MW-35	03/24/2009		0.0029	
Barium, dissolved	MG/L	MW-35	06/16/2009		0.0028	
Barium, dissolved	MG/L	MW-35	09/10/2009		0.0031	
Barium, dissolved	MG/L	MW-35	12/03/2009		0.0031	
Barium, dissolved	MG/L	MW-35	03/25/2010		0.0030	
Barium, dissolved	MG/L	MW-35	06/23/2010		0.0029	
Barium, dissolved	MG/L	MW-35	09/23/2010		0.0028	
Barium, dissolved	MG/L	MW-35	12/09/2010		0.0031	
Barium, dissolved	MG/L	MW-35	03/30/2011		0.0033	
Barium, dissolved	MG/L	MW-35	06/06/2011		0.0034	
Barium, dissolved	MG/L	MW-35	09/26/2011		0.0030	
Barium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Barium, dissolved	MG/L	MW-35	03/21/2012		0.0039	
Barium, dissolved	MG/L	MW-35	06/06/2012		0.0028	
Barium, dissolved	MG/L	MW-35	09/26/2012		0.0030	
Barium, dissolved	MG/L	MW-35	12/04/2012		0.0029	
Beryllium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	

* - Outlier for that well and constituent.
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Upgradient Data

Constituent	Units	Well	Date		Result	
Beryllium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Beryllium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Cadmium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0002	

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0002	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0010	
Cadmium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0002	
Calcium, dissolved	MG/L	MW-13A	03/22/2005		15.7000	
Calcium, dissolved	MG/L	MW-13A	06/15/2005		14.2000	
Calcium, dissolved	MG/L	MW-13A	09/27/2005		14.2000	
Calcium, dissolved	MG/L	MW-13A	12/15/2005		15.1000	
Calcium, dissolved	MG/L	MW-13A	03/28/2006		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/21/2006		16.0000	
Calcium, dissolved	MG/L	MW-13A	09/26/2006		15.0000	
Calcium, dissolved	MG/L	MW-13A	12/13/2006		15.0000	
Calcium, dissolved	MG/L	MW-13A	03/27/2007		15.0000	
Calcium, dissolved	MG/L	MW-13A	06/19/2007		16.0000	
Calcium, dissolved	MG/L	MW-13A	09/19/2007		16.0000	
Calcium, dissolved	MG/L	MW-13A	12/19/2007		15.0000	
Calcium, dissolved	MG/L	MW-13A	03/25/2008		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/18/2008		16.0000	
Calcium, dissolved	MG/L	MW-13A	09/17/2008		15.0000	
Calcium, dissolved	MG/L	MW-13A	12/17/2008		16.0000	
Calcium, dissolved	MG/L	MW-13A	03/24/2009		15.0000	
Calcium, dissolved	MG/L	MW-13A	06/17/2009		17.0000	
Calcium, dissolved	MG/L	MW-13A	09/10/2009		15.0000	
Calcium, dissolved	MG/L	MW-13A	12/03/2009		15.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Calcium, dissolved	MG/L	MW-13A	03/25/2010		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/23/2010		15.0000	
Calcium, dissolved	MG/L	MW-13A	09/23/2010		15.0000	
Calcium, dissolved	MG/L	MW-13A	12/08/2010		16.0000	
Calcium, dissolved	MG/L	MW-13A	03/30/2011		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/06/2011		16.0000	
Calcium, dissolved	MG/L	MW-13A	09/27/2011		16.0000	
Calcium, dissolved	MG/L	MW-13A	12/14/2011		16.0000	
Calcium, dissolved	MG/L	MW-13A	03/21/2012		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/08/2012		15.0000	
Calcium, dissolved	MG/L	MW-13A	09/26/2012		15.0000	
Calcium, dissolved	MG/L	MW-13A	12/03/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/22/2005		16.9000	
Calcium, dissolved	MG/L	MW-13B	06/15/2005		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/27/2005		17.1000	
Calcium, dissolved	MG/L	MW-13B	12/15/2005		16.1000	
Calcium, dissolved	MG/L	MW-13B	03/29/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/21/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/26/2006		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/13/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	03/27/2007		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/19/2007		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/18/2007		17.0000	
Calcium, dissolved	MG/L	MW-13B	12/19/2007		15.0000	
Calcium, dissolved	MG/L	MW-13B	03/25/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/18/2008		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/17/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/16/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/24/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/17/2009		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/10/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/03/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/25/2010		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/23/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/23/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/08/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/30/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/06/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/27/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/14/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/21/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/08/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/26/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/03/2012		17.0000	
Calcium, dissolved	MG/L	MW-16	03/24/2009		12.0000	
Calcium, dissolved	MG/L	MW-16	06/16/2009		10.0000	
Calcium, dissolved	MG/L	MW-16	09/09/2009		11.0000	
Calcium, dissolved	MG/L	MW-16	12/03/2009		14.0000	
Calcium, dissolved	MG/L	MW-16	03/25/2010		9.6000	
Calcium, dissolved	MG/L	MW-16	06/24/2010		12.0000	
Calcium, dissolved	MG/L	MW-16	09/24/2010		13.0000	
Calcium, dissolved	MG/L	MW-16	12/09/2010		13.0000	
Calcium, dissolved	MG/L	MW-16	03/30/2011		9.8000	
Calcium, dissolved	MG/L	MW-16	06/07/2011		9.7000	
Calcium, dissolved	MG/L	MW-16	09/27/2011		12.0000	
Calcium, dissolved	MG/L	MW-16	12/13/2011		11.0000	
Calcium, dissolved	MG/L	MW-16	03/21/2012		8.9000	
Calcium, dissolved	MG/L	MW-16	06/08/2012		9.1000	
Calcium, dissolved	MG/L	MW-16	09/27/2012		11.0000	
Calcium, dissolved	MG/L	MW-16	12/04/2012		11.0000	
Calcium, dissolved	MG/L	MW-35	03/22/2005		13.9000	
Calcium, dissolved	MG/L	MW-35	06/14/2005		12.9000	
Calcium, dissolved	MG/L	MW-35	09/27/2005		14.8000	
Calcium, dissolved	MG/L	MW-35	12/15/2005		13.2000	
Calcium, dissolved	MG/L	MW-35	03/28/2006		14.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Calcium, dissolved	MG/L	MW-35	06/21/2006		14.0000	
Calcium, dissolved	MG/L	MW-35	09/26/2006		13.0000	
Calcium, dissolved	MG/L	MW-35	12/12/2006		14.0000	
Calcium, dissolved	MG/L	MW-35	03/27/2007		13.0000	
Calcium, dissolved	MG/L	MW-35	06/20/2007		14.0000	
Calcium, dissolved	MG/L	MW-35	09/18/2007		14.0000	
Calcium, dissolved	MG/L	MW-35	12/20/2007		13.0000	
Calcium, dissolved	MG/L	MW-35	03/25/2008		13.0000	
Calcium, dissolved	MG/L	MW-35	06/18/2008		13.0000	
Calcium, dissolved	MG/L	MW-35	09/18/2008		13.0000	
Calcium, dissolved	MG/L	MW-35	12/19/2008		12.0000	
Calcium, dissolved	MG/L	MW-35	03/24/2009		13.0000	
Calcium, dissolved	MG/L	MW-35	06/16/2009		13.0000	
Calcium, dissolved	MG/L	MW-35	09/10/2009		12.0000	
Calcium, dissolved	MG/L	MW-35	12/03/2009		13.0000	
Calcium, dissolved	MG/L	MW-35	03/25/2010		13.0000	
Calcium, dissolved	MG/L	MW-35	06/23/2010		13.0000	
Calcium, dissolved	MG/L	MW-35	09/23/2010		13.0000	
Calcium, dissolved	MG/L	MW-35	12/09/2010		14.0000	
Calcium, dissolved	MG/L	MW-35	03/30/2011		14.0000	
Calcium, dissolved	MG/L	MW-35	06/06/2011		13.0000	
Calcium, dissolved	MG/L	MW-35	09/26/2011		14.0000	
Calcium, dissolved	MG/L	MW-35	12/13/2011		14.0000	
Calcium, dissolved	MG/L	MW-35	03/21/2012		14.0000	
Calcium, dissolved	MG/L	MW-35	06/06/2012		13.0000	
Calcium, dissolved	MG/L	MW-35	09/26/2012		13.0000	
Calcium, dissolved	MG/L	MW-35	12/04/2012		14.0000	
Chloride	MG/L	MW-13A	03/22/2005		2.6000	
Chloride	MG/L	MW-13A	06/15/2005		1.9000	
Chloride	MG/L	MW-13A	09/27/2005		2.4000	
Chloride	MG/L	MW-13A	12/15/2005		2.1000	
Chloride	MG/L	MW-13A	03/28/2006		3.0000	
Chloride	MG/L	MW-13A	06/21/2006		2.4000	
Chloride	MG/L	MW-13A	09/26/2006		2.6000	
Chloride	MG/L	MW-13A	12/13/2006		3.0000	
Chloride	MG/L	MW-13A	03/27/2007		2.8000	
Chloride	MG/L	MW-13A	06/19/2007		2.6000	
Chloride	MG/L	MW-13A	09/19/2007		2.6000	
Chloride	MG/L	MW-13A	12/19/2007		2.6000	
Chloride	MG/L	MW-13A	03/25/2008		2.5000	
Chloride	MG/L	MW-13A	06/18/2008		2.6000	
Chloride	MG/L	MW-13A	09/17/2008		2.5000	
Chloride	MG/L	MW-13A	12/17/2008		3.1000	
Chloride	MG/L	MW-13A	03/24/2009		2.7000	
Chloride	MG/L	MW-13A	06/17/2009		2.4000	
Chloride	MG/L	MW-13A	09/10/2009		2.1000	
Chloride	MG/L	MW-13A	12/03/2009		3.4000	
Chloride	MG/L	MW-13A	03/25/2010		2.2000	
Chloride	MG/L	MW-13A	06/23/2010		2.6000	
Chloride	MG/L	MW-13A	09/23/2010		2.8000	
Chloride	MG/L	MW-13A	12/08/2010		2.9000	
Chloride	MG/L	MW-13A	03/30/2011		2.9000	
Chloride	MG/L	MW-13A	06/06/2011		3.0000	
Chloride	MG/L	MW-13A	09/27/2011		3.8000	
Chloride	MG/L	MW-13A	12/14/2011		4.4000	
Chloride	MG/L	MW-13A	03/21/2012		2.7000	
Chloride	MG/L	MW-13A	06/08/2012		3.0000	
Chloride	MG/L	MW-13A	09/26/2012		2.6000	
Chloride	MG/L	MW-13A	12/03/2012		1.8000	
Chloride	MG/L	MW-13B	03/22/2005		3.0000	
Chloride	MG/L	MW-13B	06/15/2005		2.3000	
Chloride	MG/L	MW-13B	09/27/2005		2.8000	
Chloride	MG/L	MW-13B	12/15/2005		2.4000	
Chloride	MG/L	MW-13B	03/29/2006		3.2000	
Chloride	MG/L	MW-13B	06/21/2006		2.9000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Chloride	MG/L	MW-13B	09/26/2006		2.7000	
Chloride	MG/L	MW-13B	12/13/2006		3.3000	
Chloride	MG/L	MW-13B	03/27/2007		3.0000	
Chloride	MG/L	MW-13B	06/19/2007		2.8000	
Chloride	MG/L	MW-13B	09/18/2007		2.8000	
Chloride	MG/L	MW-13B	12/19/2007		2.8000	
Chloride	MG/L	MW-13B	03/25/2008		2.7000	
Chloride	MG/L	MW-13B	06/18/2008		2.8000	
Chloride	MG/L	MW-13B	09/17/2008		2.7000	
Chloride	MG/L	MW-13B	12/16/2008		3.2000	
Chloride	MG/L	MW-13B	03/24/2009		2.6000	
Chloride	MG/L	MW-13B	06/17/2009		3.0000	
Chloride	MG/L	MW-13B	09/10/2009		2.3000	
Chloride	MG/L	MW-13B	12/03/2009		2.9000	
Chloride	MG/L	MW-13B	03/25/2010		2.5000	
Chloride	MG/L	MW-13B	06/23/2010		2.8000	
Chloride	MG/L	MW-13B	09/23/2010		3.0000	
Chloride	MG/L	MW-13B	12/08/2010		2.5000	
Chloride	MG/L	MW-13B	03/30/2011		3.1000	
Chloride	MG/L	MW-13B	06/06/2011		3.2000	
Chloride	MG/L	MW-13B	09/27/2011		3.7000	
Chloride	MG/L	MW-13B	12/14/2011		3.4000	
Chloride	MG/L	MW-13B	03/21/2012		2.8000	
Chloride	MG/L	MW-13B	06/08/2012		3.4000	
Chloride	MG/L	MW-13B	09/26/2012		2.9000	
Chloride	MG/L	MW-13B	12/03/2012		2.1000	
Chloride	MG/L	MW-16	03/24/2009		2.1000	
Chloride	MG/L	MW-16	06/16/2009		2.2000	
Chloride	MG/L	MW-16	09/09/2009		1.3000	
Chloride	MG/L	MW-16	12/03/2009		1.9000	
Chloride	MG/L	MW-16	03/25/2010		1.7000	
Chloride	MG/L	MW-16	06/24/2010		1.6000	
Chloride	MG/L	MW-16	09/24/2010		1.7000	
Chloride	MG/L	MW-16	12/09/2010		2.3000	
Chloride	MG/L	MW-16	03/30/2011		3.6000	
Chloride	MG/L	MW-16	06/07/2011		2.4000	
Chloride	MG/L	MW-16	09/27/2011		3.9000	
Chloride	MG/L	MW-16	12/13/2011		2.1000	
Chloride	MG/L	MW-16	03/21/2012		2.2000	
Chloride	MG/L	MW-16	06/08/2012		2.8000	
Chloride	MG/L	MW-16	09/27/2012		1.0000	
Chloride	MG/L	MW-16	12/04/2012		1.3000	
Chloride	MG/L	MW-35	03/22/2005		2.2000	
Chloride	MG/L	MW-35	06/14/2005		2.2000	
Chloride	MG/L	MW-35	09/27/2005		2.6000	
Chloride	MG/L	MW-35	12/15/2005		1.9000	
Chloride	MG/L	MW-35	03/28/2006		2.9000	
Chloride	MG/L	MW-35	06/21/2006		2.8000	
Chloride	MG/L	MW-35	09/26/2006		2.5000	
Chloride	MG/L	MW-35	12/12/2006		3.0000	
Chloride	MG/L	MW-35	03/27/2007		2.8000	
Chloride	MG/L	MW-35	06/20/2007		2.6000	
Chloride	MG/L	MW-35	09/18/2007		2.4000	
Chloride	MG/L	MW-35	12/20/2007		2.3000	
Chloride	MG/L	MW-35	03/25/2008		2.4000	
Chloride	MG/L	MW-35	06/18/2008		2.6000	
Chloride	MG/L	MW-35	09/18/2008		2.4000	
Chloride	MG/L	MW-35	12/19/2008		2.9000	
Chloride	MG/L	MW-35	03/24/2009		2.3000	
Chloride	MG/L	MW-35	06/16/2009		2.4000	
Chloride	MG/L	MW-35	09/10/2009		2.5000	
Chloride	MG/L	MW-35	12/03/2009		2.8000	
Chloride	MG/L	MW-35	03/25/2010		2.0000	
Chloride	MG/L	MW-35	06/23/2010		2.1000	
Chloride	MG/L	MW-35	09/23/2010		2.6000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Chloride	MG/L	MW-35	12/09/2010		2.7000	
Chloride	MG/L	MW-35	03/30/2011		3.2000	
Chloride	MG/L	MW-35	06/06/2011		2.3000	
Chloride	MG/L	MW-35	09/26/2011		3.0000	
Chloride	MG/L	MW-35	12/13/2011		3.2000	
Chloride	MG/L	MW-35	03/21/2012		2.9000	
Chloride	MG/L	MW-35	06/06/2012		1.3000	
Chloride	MG/L	MW-35	09/26/2012		2.4000	
Chloride	MG/L	MW-35	12/04/2012		1.9000	
Chromium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/08/2010		0.0032	
Chromium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/22/2005		0.0035	
Chromium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/27/2005		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/29/2006		0.0035	
Chromium, dissolved	MG/L	MW-13B	06/21/2006		0.0032	
Chromium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/27/2007		0.0033	
Chromium, dissolved	MG/L	MW-13B	06/19/2007		0.0031	
Chromium, dissolved	MG/L	MW-13B	09/18/2007		0.0030	
Chromium, dissolved	MG/L	MW-13B	12/19/2007		0.0031	
Chromium, dissolved	MG/L	MW-13B	03/25/2008		0.0032	
Chromium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/24/2009		0.0030	
Chromium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/10/2009		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/03/2009		0.0030	
Chromium, dissolved	MG/L	MW-13B	03/25/2010		0.0031	
Chromium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium, dissolved	MG/L	MW-13B	03/30/2011		0.0031	
Chromium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/27/2011		0.0032	
Chromium, dissolved	MG/L	MW-13B	12/14/2011		0.0031	
Chromium, dissolved	MG/L	MW-13B	03/21/2012		0.0033	
Chromium, dissolved	MG/L	MW-13B	06/08/2012		0.0030	
Chromium, dissolved	MG/L	MW-13B	09/26/2012		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-16	03/24/2009		0.0100	
Chromium, dissolved	MG/L	MW-16	06/16/2009		0.0082	
Chromium, dissolved	MG/L	MW-16	09/09/2009		0.0094	
Chromium, dissolved	MG/L	MW-16	12/03/2009		0.0094	
Chromium, dissolved	MG/L	MW-16	03/25/2010		0.0062	
Chromium, dissolved	MG/L	MW-16	06/24/2010		0.0088	
Chromium, dissolved	MG/L	MW-16	09/24/2010		0.0099	
Chromium, dissolved	MG/L	MW-16	12/09/2010		0.0088	
Chromium, dissolved	MG/L	MW-16	03/30/2011		0.0082	
Chromium, dissolved	MG/L	MW-16	06/07/2011		0.0077	
Chromium, dissolved	MG/L	MW-16	09/27/2011		0.0088	
Chromium, dissolved	MG/L	MW-16	12/13/2011		0.0073	
Chromium, dissolved	MG/L	MW-16	03/21/2012		0.0072	
Chromium, dissolved	MG/L	MW-16	06/08/2012		0.0076	
Chromium, dissolved	MG/L	MW-16	09/27/2012		0.0083	
Chromium, dissolved	MG/L	MW-16	12/04/2012		0.0067	
Chromium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/16/2009		0.0330	
Chromium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0150	
Chromium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cobalt, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/16/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/09/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/24/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/24/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/09/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/07/2011	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cobalt, dissolved	MG/L	MW-16	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/13/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/08/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/27/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/04/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/14/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/28/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/12/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/27/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/20/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/18/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/20/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/19/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/16/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/09/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/13/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/06/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/04/2012	ND	0.0030	
Copper, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/21/2006		0.0094	
Copper, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Copper, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/18/2007		0.0040	
Copper, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/16/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/09/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/24/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/24/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/09/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/07/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/27/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/13/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/27/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/04/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/14/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/28/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/21/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/12/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/20/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/18/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/20/2007	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Copper, dissolved	MG/L	MW-35	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/19/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/16/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/09/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/13/2011	ND	0.0100	
Copper, dissolved	MG/L	MW-35	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/06/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/04/2012	ND	0.0020	
Iron, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/10/2009		0.0630	
Iron, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Iron, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/10/2009		0.0970	
Iron, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/16/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/09/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/24/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/24/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/09/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/07/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/13/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/27/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/04/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/14/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/28/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/21/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/12/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/20/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/18/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/20/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/25/2008		0.0740	
Iron, dissolved	MG/L	MW-35	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/19/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/16/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/10/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/09/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/26/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/13/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/06/2012		0.0700	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Iron, dissolved	MG/L	MW-35	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/04/2012	ND	0.0600	
Lead, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Lead, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Magnesium, dissolved	MG/L	MW-13A	03/22/2005		9.2000	
Magnesium, dissolved	MG/L	MW-13A	06/15/2005		8.2000	
Magnesium, dissolved	MG/L	MW-13A	09/27/2005		8.4000	
Magnesium, dissolved	MG/L	MW-13A	12/15/2005		8.6000	
Magnesium, dissolved	MG/L	MW-13A	03/28/2006		9.2000	
Magnesium, dissolved	MG/L	MW-13A	06/21/2006		9.1000	
Magnesium, dissolved	MG/L	MW-13A	09/26/2006		9.2000	
Magnesium, dissolved	MG/L	MW-13A	12/13/2006		9.3000	
Magnesium, dissolved	MG/L	MW-13A	03/27/2007		9.3000	
Magnesium, dissolved	MG/L	MW-13A	06/19/2007		9.0000	
Magnesium, dissolved	MG/L	MW-13A	09/19/2007		9.4000	
Magnesium, dissolved	MG/L	MW-13A	12/19/2007		8.6000	
Magnesium, dissolved	MG/L	MW-13A	03/25/2008		9.1000	
Magnesium, dissolved	MG/L	MW-13A	06/18/2008		9.3000	
Magnesium, dissolved	MG/L	MW-13A	09/17/2008		9.2000	
Magnesium, dissolved	MG/L	MW-13A	12/17/2008		9.3000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Magnesium, dissolved	MG/L	MW-13A	03/24/2009		9.6000	
Magnesium, dissolved	MG/L	MW-13A	06/17/2009		9.6000	
Magnesium, dissolved	MG/L	MW-13A	09/10/2009		9.3000	
Magnesium, dissolved	MG/L	MW-13A	12/03/2009		9.1000	
Magnesium, dissolved	MG/L	MW-13A	03/25/2010		8.7000	
Magnesium, dissolved	MG/L	MW-13A	06/23/2010		9.7000	
Magnesium, dissolved	MG/L	MW-13A	09/23/2010		9.4000	
Magnesium, dissolved	MG/L	MW-13A	12/08/2010		8.1000	
Magnesium, dissolved	MG/L	MW-13A	03/30/2011		9.6000	
Magnesium, dissolved	MG/L	MW-13A	06/06/2011		10.0000	
Magnesium, dissolved	MG/L	MW-13A	09/27/2011		9.7000	
Magnesium, dissolved	MG/L	MW-13A	12/14/2011		9.3000	
Magnesium, dissolved	MG/L	MW-13A	03/21/2012		9.9000	
Magnesium, dissolved	MG/L	MW-13A	06/08/2012		8.9000	
Magnesium, dissolved	MG/L	MW-13A	09/26/2012		9.6000	
Magnesium, dissolved	MG/L	MW-13A	12/03/2012		9.2000	
Magnesium, dissolved	MG/L	MW-13B	03/22/2005		8.6000	
Magnesium, dissolved	MG/L	MW-13B	06/15/2005		8.0000	
Magnesium, dissolved	MG/L	MW-13B	09/27/2005		8.7000	
Magnesium, dissolved	MG/L	MW-13B	12/15/2005		8.0000	
Magnesium, dissolved	MG/L	MW-13B	03/29/2006		8.1000	
Magnesium, dissolved	MG/L	MW-13B	06/21/2006		8.3000	
Magnesium, dissolved	MG/L	MW-13B	09/26/2006		8.5000	
Magnesium, dissolved	MG/L	MW-13B	12/13/2006		8.7000	
Magnesium, dissolved	MG/L	MW-13B	03/27/2007		8.4000	
Magnesium, dissolved	MG/L	MW-13B	06/19/2007		7.9000	
Magnesium, dissolved	MG/L	MW-13B	09/18/2007		8.7000	
Magnesium, dissolved	MG/L	MW-13B	12/19/2007		7.6000	
Magnesium, dissolved	MG/L	MW-13B	03/25/2008		8.0000	
Magnesium, dissolved	MG/L	MW-13B	06/18/2008		8.2000	
Magnesium, dissolved	MG/L	MW-13B	09/17/2008		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/16/2008		8.3000	
Magnesium, dissolved	MG/L	MW-13B	03/24/2009		8.5000	
Magnesium, dissolved	MG/L	MW-13B	06/17/2009		8.5000	
Magnesium, dissolved	MG/L	MW-13B	09/10/2009		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/03/2009		8.0000	
Magnesium, dissolved	MG/L	MW-13B	03/25/2010		8.1000	
Magnesium, dissolved	MG/L	MW-13B	06/23/2010		8.7000	
Magnesium, dissolved	MG/L	MW-13B	09/23/2010		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/08/2010		9.3000	
Magnesium, dissolved	MG/L	MW-13B	03/30/2011		8.2000	
Magnesium, dissolved	MG/L	MW-13B	06/06/2011		9.0000	
Magnesium, dissolved	MG/L	MW-13B	09/27/2011		8.4000	
Magnesium, dissolved	MG/L	MW-13B	12/14/2011		8.1000	
Magnesium, dissolved	MG/L	MW-13B	03/21/2012		8.5000	
Magnesium, dissolved	MG/L	MW-13B	06/08/2012		8.1000	
Magnesium, dissolved	MG/L	MW-13B	09/26/2012		8.6000	
Magnesium, dissolved	MG/L	MW-13B	12/03/2012		8.2000	
Magnesium, dissolved	MG/L	MW-16	03/24/2009		7.2000	
Magnesium, dissolved	MG/L	MW-16	06/16/2009		5.9000	
Magnesium, dissolved	MG/L	MW-16	09/09/2009		6.9000	
Magnesium, dissolved	MG/L	MW-16	12/03/2009		8.0000	
Magnesium, dissolved	MG/L	MW-16	03/25/2010		5.1000	
Magnesium, dissolved	MG/L	MW-16	06/24/2010		6.9000	
Magnesium, dissolved	MG/L	MW-16	09/24/2010		7.4000	
Magnesium, dissolved	MG/L	MW-16	12/09/2010		8.3000	
Magnesium, dissolved	MG/L	MW-16	03/30/2011		5.8000	
Magnesium, dissolved	MG/L	MW-16	06/07/2011		5.6000	
Magnesium, dissolved	MG/L	MW-16	09/27/2011		6.6000	
Magnesium, dissolved	MG/L	MW-16	12/13/2011		6.2000	
Magnesium, dissolved	MG/L	MW-16	03/21/2012		5.5000	
Magnesium, dissolved	MG/L	MW-16	06/08/2012		5.0000	
Magnesium, dissolved	MG/L	MW-16	09/27/2012		6.4000	
Magnesium, dissolved	MG/L	MW-16	12/04/2012		6.6000	
Magnesium, dissolved	MG/L	MW-35	03/22/2005		8.6000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Magnesium, dissolved	MG/L	MW-35	06/14/2005		8.1000	
Magnesium, dissolved	MG/L	MW-35	09/27/2005		9.2000	
Magnesium, dissolved	MG/L	MW-35	12/15/2005		8.0000	
Magnesium, dissolved	MG/L	MW-35	03/28/2006		8.3000	
Magnesium, dissolved	MG/L	MW-35	06/21/2006		8.4000	
Magnesium, dissolved	MG/L	MW-35	09/26/2006		8.2000	
Magnesium, dissolved	MG/L	MW-35	12/12/2006		8.8000	
Magnesium, dissolved	MG/L	MW-35	03/27/2007		8.6000	
Magnesium, dissolved	MG/L	MW-35	06/20/2007		8.4000	
Magnesium, dissolved	MG/L	MW-35	09/18/2007		9.1000	
Magnesium, dissolved	MG/L	MW-35	12/20/2007		8.1000	
Magnesium, dissolved	MG/L	MW-35	03/25/2008		8.2000	
Magnesium, dissolved	MG/L	MW-35	06/18/2008		8.1000	
Magnesium, dissolved	MG/L	MW-35	09/18/2008		8.1000	
Magnesium, dissolved	MG/L	MW-35	12/19/2008		8.1000	
Magnesium, dissolved	MG/L	MW-35	03/24/2009		8.7000	
Magnesium, dissolved	MG/L	MW-35	06/16/2009		8.1000	
Magnesium, dissolved	MG/L	MW-35	09/10/2009		8.1000	
Magnesium, dissolved	MG/L	MW-35	12/03/2009		8.3000	
Magnesium, dissolved	MG/L	MW-35	03/25/2010		7.9000	
Magnesium, dissolved	MG/L	MW-35	06/23/2010		8.8000	
Magnesium, dissolved	MG/L	MW-35	09/23/2010		8.7000	
Magnesium, dissolved	MG/L	MW-35	12/09/2010		9.3000	
Magnesium, dissolved	MG/L	MW-35	03/30/2011		8.8000	
Magnesium, dissolved	MG/L	MW-35	06/06/2011		9.0000	
Magnesium, dissolved	MG/L	MW-35	09/26/2011		8.7000	
Magnesium, dissolved	MG/L	MW-35	12/13/2011		8.8000	
Magnesium, dissolved	MG/L	MW-35	03/21/2012		9.0000	
Magnesium, dissolved	MG/L	MW-35	06/06/2012		8.3000	
Magnesium, dissolved	MG/L	MW-35	09/26/2012		8.9000	
Magnesium, dissolved	MG/L	MW-35	12/04/2012		8.6000	
Manganese, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Manganese, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/25/2010		0.0027	
Manganese, dissolved	MG/L	MW-16	06/24/2010		0.0067	
Manganese, dissolved	MG/L	MW-16	09/24/2010		0.0027	
Manganese, dissolved	MG/L	MW-16	12/09/2010		0.0021	
Manganese, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/07/2011		0.0028	
Manganese, dissolved	MG/L	MW-16	09/27/2011		0.0029	
Manganese, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Manganese, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2011		0.0010	
Manganese, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Manganese, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Nickel, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0040	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/16/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/09/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/24/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/24/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/09/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/07/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/13/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/27/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/04/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/14/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/28/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/12/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/20/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/18/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/20/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/19/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/16/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/09/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/13/2011	ND	0.0200	
Nickel, dissolved	MG/L	MW-35	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/06/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/04/2012	ND	0.0040	
Nitrate (as n)	MG/L	MW-13A	03/22/2005		0.5100	
Nitrate (as n)	MG/L	MW-13A	06/15/2005		0.4400	
Nitrate (as n)	MG/L	MW-13A	09/27/2005		1.8000	
Nitrate (as n)	MG/L	MW-13A	12/15/2005		0.4700	
Nitrate (as n)	MG/L	MW-13A	03/28/2006		0.4400	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Nitrate (as n)	MG/L	MW-13A	06/21/2006		0.5400	
Nitrate (as n)	MG/L	MW-13A	09/26/2006		0.4400	
Nitrate (as n)	MG/L	MW-13A	12/13/2006		0.4600	
Nitrate (as n)	MG/L	MW-13A	03/27/2007		0.4200	
Nitrate (as n)	MG/L	MW-13A	06/19/2007		0.4600	
Nitrate (as n)	MG/L	MW-13A	09/19/2007		0.4600	
Nitrate (as n)	MG/L	MW-13A	12/19/2007		0.4100	
Nitrate (as n)	MG/L	MW-13A	03/25/2008		0.4900	
Nitrate (as n)	MG/L	MW-13A	06/18/2008		0.5100	
Nitrate (as n)	MG/L	MW-13A	09/17/2008		0.4400	
Nitrate (as n)	MG/L	MW-13A	12/17/2008		0.4800	
Nitrate (as n)	MG/L	MW-13A	03/24/2009		0.4700	
Nitrate (as n)	MG/L	MW-13A	06/17/2009		0.4900	
Nitrate (as n)	MG/L	MW-13A	09/10/2009		0.4500	
Nitrate (as n)	MG/L	MW-13A	12/03/2009		0.4100	
Nitrate (as n)	MG/L	MW-13A	03/25/2010		0.4800	
Nitrate (as n)	MG/L	MW-13A	06/23/2010		0.4700	
Nitrate (as n)	MG/L	MW-13A	09/23/2010		0.5100	
Nitrate (as n)	MG/L	MW-13A	12/08/2010		0.4900	
Nitrate (as n)	MG/L	MW-13A	03/30/2011		0.5300	
Nitrate (as n)	MG/L	MW-13A	06/06/2011		0.4600	
Nitrate (as n)	MG/L	MW-13A	09/27/2011		0.4800	
Nitrate (as n)	MG/L	MW-13A	12/14/2011		0.4800	
Nitrate (as n)	MG/L	MW-13A	03/21/2012		9.4000	*
Nitrate (as n)	MG/L	MW-13A	06/08/2012		0.4500	
Nitrate (as n)	MG/L	MW-13A	09/26/2012		0.4200	
Nitrate (as n)	MG/L	MW-13A	12/03/2012		0.5400	
Nitrate (as n)	MG/L	MW-13B	03/22/2005		0.5000	
Nitrate (as n)	MG/L	MW-13B	06/15/2005		0.7400	
Nitrate (as n)	MG/L	MW-13B	09/27/2005		0.4600	
Nitrate (as n)	MG/L	MW-13B	12/15/2005		0.4900	
Nitrate (as n)	MG/L	MW-13B	03/29/2006		0.4400	
Nitrate (as n)	MG/L	MW-13B	06/21/2006		0.5600	
Nitrate (as n)	MG/L	MW-13B	09/26/2006		0.4400	
Nitrate (as n)	MG/L	MW-13B	12/13/2006		0.4000	
Nitrate (as n)	MG/L	MW-13B	03/27/2007		0.4300	
Nitrate (as n)	MG/L	MW-13B	06/19/2007		0.4800	
Nitrate (as n)	MG/L	MW-13B	09/18/2007		0.4800	
Nitrate (as n)	MG/L	MW-13B	12/19/2007		0.8900	
Nitrate (as n)	MG/L	MW-13B	03/25/2008		0.4800	
Nitrate (as n)	MG/L	MW-13B	06/18/2008		0.9500	
Nitrate (as n)	MG/L	MW-13B	09/17/2008		0.4600	
Nitrate (as n)	MG/L	MW-13B	12/16/2008		0.5300	
Nitrate (as n)	MG/L	MW-13B	03/24/2009		0.4600	
Nitrate (as n)	MG/L	MW-13B	06/17/2009		0.4900	
Nitrate (as n)	MG/L	MW-13B	09/10/2009		0.4600	
Nitrate (as n)	MG/L	MW-13B	12/03/2009		0.4000	
Nitrate (as n)	MG/L	MW-13B	03/25/2010		0.4600	
Nitrate (as n)	MG/L	MW-13B	06/23/2010		0.4500	
Nitrate (as n)	MG/L	MW-13B	09/23/2010		0.4800	
Nitrate (as n)	MG/L	MW-13B	12/08/2010		0.5000	
Nitrate (as n)	MG/L	MW-13B	03/30/2011		0.5100	
Nitrate (as n)	MG/L	MW-13B	06/06/2011		0.4300	
Nitrate (as n)	MG/L	MW-13B	09/27/2011		0.4600	
Nitrate (as n)	MG/L	MW-13B	12/14/2011		0.4700	
Nitrate (as n)	MG/L	MW-13B	03/21/2012		9.7000	*
Nitrate (as n)	MG/L	MW-13B	06/08/2012		0.4500	
Nitrate (as n)	MG/L	MW-13B	09/26/2012		0.4000	
Nitrate (as n)	MG/L	MW-13B	12/03/2012		0.4200	
Nitrate (as n)	MG/L	MW-16	03/24/2009		0.2800	
Nitrate (as n)	MG/L	MW-16	06/16/2009		0.3300	
Nitrate (as n)	MG/L	MW-16	09/09/2009		0.3100	
Nitrate (as n)	MG/L	MW-16	12/03/2009		0.4000	
Nitrate (as n)	MG/L	MW-16	03/25/2010		0.2900	
Nitrate (as n)	MG/L	MW-16	06/24/2010		0.1600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Nitrate (as n)	MG/L	MW-16	09/24/2010		0.5100	
Nitrate (as n)	MG/L	MW-16	12/09/2010		0.9000	
Nitrate (as n)	MG/L	MW-16	03/30/2011		0.5200	
Nitrate (as n)	MG/L	MW-16	06/07/2011		0.4600	
Nitrate (as n)	MG/L	MW-16	09/27/2011		0.7300	
Nitrate (as n)	MG/L	MW-16	12/13/2011		1.1000	
Nitrate (as n)	MG/L	MW-16	03/21/2012		0.8900	*
Nitrate (as n)	MG/L	MW-16	06/08/2012		1.4000	
Nitrate (as n)	MG/L	MW-16	09/27/2012		0.9600	
Nitrate (as n)	MG/L	MW-16	12/04/2012		0.8600	
Nitrate (as n)	MG/L	MW-35	03/22/2005		0.3700	
Nitrate (as n)	MG/L	MW-35	06/14/2005		0.3300	
Nitrate (as n)	MG/L	MW-35	09/27/2005		0.9600	
Nitrate (as n)	MG/L	MW-35	12/15/2005		0.2900	
Nitrate (as n)	MG/L	MW-35	03/28/2006		0.3400	
Nitrate (as n)	MG/L	MW-35	06/21/2006		0.4000	
Nitrate (as n)	MG/L	MW-35	09/26/2006		0.3100	
Nitrate (as n)	MG/L	MW-35	12/12/2006		0.3500	
Nitrate (as n)	MG/L	MW-35	03/27/2007		0.3000	
Nitrate (as n)	MG/L	MW-35	06/20/2007		0.3400	
Nitrate (as n)	MG/L	MW-35	09/18/2007		0.3200	
Nitrate (as n)	MG/L	MW-35	12/20/2007		0.3200	
Nitrate (as n)	MG/L	MW-35	03/25/2008		0.3000	
Nitrate (as n)	MG/L	MW-35	06/18/2008		1.0000	
Nitrate (as n)	MG/L	MW-35	09/18/2008		0.3500	
Nitrate (as n)	MG/L	MW-35	12/19/2008		0.3700	
Nitrate (as n)	MG/L	MW-35	03/24/2009		0.3500	
Nitrate (as n)	MG/L	MW-35	06/16/2009		0.3700	
Nitrate (as n)	MG/L	MW-35	09/10/2009		0.3500	
Nitrate (as n)	MG/L	MW-35	12/03/2009		0.5200	
Nitrate (as n)	MG/L	MW-35	03/25/2010		0.3600	
Nitrate (as n)	MG/L	MW-35	06/23/2010		0.3200	
Nitrate (as n)	MG/L	MW-35	09/23/2010		0.4000	
Nitrate (as n)	MG/L	MW-35	12/09/2010		0.3900	
Nitrate (as n)	MG/L	MW-35	03/30/2011		0.3900	
Nitrate (as n)	MG/L	MW-35	06/06/2011		0.3900	
Nitrate (as n)	MG/L	MW-35	09/26/2011		0.4000	
Nitrate (as n)	MG/L	MW-35	12/13/2011		0.3900	
Nitrate (as n)	MG/L	MW-35	03/21/2012		0.4500	*
Nitrate (as n)	MG/L	MW-35	06/06/2012		0.4300	
Nitrate (as n)	MG/L	MW-35	09/26/2012		0.3700	
Nitrate (as n)	MG/L	MW-35	12/04/2012		0.4200	
pH	pH Units	MW-13A	03/22/2005		7.0100	
pH	pH Units	MW-13A	06/15/2005		7.2100	
pH	pH Units	MW-13A	09/27/2005		7.1000	
pH	pH Units	MW-13A	12/15/2005		6.3400	
pH	pH Units	MW-13A	03/28/2006		6.9000	
pH	pH Units	MW-13A	06/21/2006		7.2500	
pH	pH Units	MW-13A	09/26/2006		7.2500	
pH	pH Units	MW-13A	12/13/2006		6.8700	
pH	pH Units	MW-13A	03/27/2007		7.3200	
pH	pH Units	MW-13A	09/19/2007		6.6800	
pH	pH Units	MW-13A	12/19/2007		7.2900	
pH	pH Units	MW-13A	03/25/2008		7.1200	
pH	pH Units	MW-13A	06/18/2008		7.1900	
pH	pH Units	MW-13A	09/17/2008		7.0000	
pH	pH Units	MW-13A	12/17/2008		6.5100	
pH	pH Units	MW-13A	03/24/2009		6.8500	
pH	pH Units	MW-13A	06/17/2009		7.0700	
pH	pH Units	MW-13A	12/03/2009		7.0300	
pH	pH Units	MW-13A	03/25/2010		6.9600	
pH	pH Units	MW-13A	06/23/2010		6.9900	
pH	pH Units	MW-13A	09/23/2010		6.7800	
pH	pH Units	MW-13A	12/08/2010		7.4800	
pH	pH Units	MW-13A	03/30/2011		6.9500	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
pH	pH Units	MW-13A	06/06/2011		7.4500	
pH	pH Units	MW-13A	09/27/2011		6.9100	
pH	pH Units	MW-13A	12/14/2011		7.1300	
pH	pH Units	MW-13A	03/21/2012		6.7800	
pH	pH Units	MW-13A	06/08/2012		6.7200	
pH	pH Units	MW-13A	09/26/2012		7.3500	
pH	pH Units	MW-13A	12/03/2012		6.9500	
pH	pH Units	MW-13B	03/22/2005		7.4900	
pH	pH Units	MW-13B	06/15/2005		7.8100	
pH	pH Units	MW-13B	09/27/2005		7.7300	
pH	pH Units	MW-13B	12/15/2005		6.9300	
pH	pH Units	MW-13B	03/29/2006		7.4500	
pH	pH Units	MW-13B	06/21/2006		7.7600	
pH	pH Units	MW-13B	09/26/2006		7.7800	
pH	pH Units	MW-13B	12/13/2006		7.3200	
pH	pH Units	MW-13B	03/27/2007		7.7600	
pH	pH Units	MW-13B	09/18/2007		7.4800	
pH	pH Units	MW-13B	12/19/2007		7.8500	
pH	pH Units	MW-13B	03/25/2008		7.7800	
pH	pH Units	MW-13B	06/18/2008		7.7400	
pH	pH Units	MW-13B	09/17/2008		7.5700	
pH	pH Units	MW-13B	12/16/2008		7.2300	
pH	pH Units	MW-13B	03/24/2009		7.3700	
pH	pH Units	MW-13B	06/17/2009		7.5600	
pH	pH Units	MW-13B	12/03/2009		6.9300	
pH	pH Units	MW-13B	03/25/2010		7.4900	
pH	pH Units	MW-13B	06/23/2010		7.2700	
pH	pH Units	MW-13B	09/23/2010		7.1100	
pH	pH Units	MW-13B	12/08/2010		7.0500	
pH	pH Units	MW-13B	03/30/2011		7.5100	
pH	pH Units	MW-13B	06/06/2011		7.5800	
pH	pH Units	MW-13B	09/27/2011		7.0800	
pH	pH Units	MW-13B	12/14/2011		7.5300	
pH	pH Units	MW-13B	03/21/2012		7.0900	
pH	pH Units	MW-13B	06/08/2012		7.1500	
pH	pH Units	MW-13B	09/26/2012		7.3200	
pH	pH Units	MW-13B	12/03/2012		7.3200	
pH	pH Units	MW-16	03/24/2009		6.2700	
pH	pH Units	MW-16	06/16/2009		6.3300	
pH	pH Units	MW-16	12/03/2009		6.2700	
pH	pH Units	MW-16	03/25/2010		6.2600	
pH	pH Units	MW-16	06/24/2010		6.0400	
pH	pH Units	MW-16	09/24/2010		5.9000	
pH	pH Units	MW-16	12/09/2010		6.1700	
pH	pH Units	MW-16	03/30/2011		6.3100	
pH	pH Units	MW-16	06/07/2011		6.1500	
pH	pH Units	MW-16	09/27/2011		6.4400	
pH	pH Units	MW-16	12/13/2011		6.3000	
pH	pH Units	MW-16	03/21/2012		6.3200	
pH	pH Units	MW-16	06/08/2012		6.2500	
pH	pH Units	MW-16	09/27/2012		6.2600	
pH	pH Units	MW-16	12/04/2012		6.2200	
pH	pH Units	MW-35	03/22/2005		7.0600	
pH	pH Units	MW-35	06/14/2005		7.4300	
pH	pH Units	MW-35	09/27/2005		7.3900	
pH	pH Units	MW-35	12/15/2005		6.4100	
pH	pH Units	MW-35	03/28/2006		7.1000	
pH	pH Units	MW-35	06/21/2006		7.4600	
pH	pH Units	MW-35	09/26/2006		7.5000	
pH	pH Units	MW-35	12/12/2006		6.9900	
pH	pH Units	MW-35	03/27/2007		7.5100	
pH	pH Units	MW-35	09/18/2007		6.9700	
pH	pH Units	MW-35	12/20/2007		7.2500	
pH	pH Units	MW-35	03/25/2008		7.4000	
pH	pH Units	MW-35	06/18/2008		7.4400	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	pH Units	MW-35	09/18/2008		7.4200	
pH	pH Units	MW-35	12/19/2008		7.1900	
pH	pH Units	MW-35	03/24/2009		7.2100	
pH	pH Units	MW-35	06/16/2009		7.1500	
pH	pH Units	MW-35	12/03/2009		7.2200	
pH	pH Units	MW-35	03/25/2010		7.2400	
pH	pH Units	MW-35	06/23/2010		7.3700	
pH	pH Units	MW-35	09/23/2010		6.8500	
pH	pH Units	MW-35	12/09/2010		7.3900	
pH	pH Units	MW-35	03/30/2011		7.3700	
pH	pH Units	MW-35	06/06/2011		7.2300	
pH	pH Units	MW-35	09/26/2011		6.8600	
pH	pH Units	MW-35	12/13/2011		7.0000	
pH	pH Units	MW-35	03/21/2012		7.0200	
pH	pH Units	MW-35	06/06/2012		6.9800	
pH	pH Units	MW-35	09/26/2012		7.1100	
pH	pH Units	MW-35	12/04/2012		7.1600	
Potassium, dissolved	MG/L	MW-13A	03/22/2005		0.5700	
Potassium, dissolved	MG/L	MW-13A	06/15/2005		0.5200	
Potassium, dissolved	MG/L	MW-13A	09/27/2005		0.4800	
Potassium, dissolved	MG/L	MW-13A	12/15/2005		0.5000	
Potassium, dissolved	MG/L	MW-13A	03/28/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/21/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/26/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/13/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/27/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/19/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/19/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/19/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/25/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/18/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/17/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/17/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/24/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/17/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/10/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/03/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/25/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/08/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/30/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/06/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/27/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/14/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/21/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/08/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/26/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/03/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/22/2005		0.6000	
Potassium, dissolved	MG/L	MW-13B	06/15/2005		0.5500	
Potassium, dissolved	MG/L	MW-13B	09/27/2005		0.5500	
Potassium, dissolved	MG/L	MW-13B	12/15/2005		0.5200	
Potassium, dissolved	MG/L	MW-13B	03/29/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/21/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/26/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/13/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/27/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/19/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/18/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/19/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/25/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/18/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/17/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/16/2008	ND	1.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Potassium, dissolved	MG/L	MW-13B	03/24/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/17/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/10/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/03/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/25/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/08/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/30/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/06/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/27/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/14/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/21/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/08/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/26/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/03/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	03/24/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/16/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	09/09/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	12/03/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	03/25/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/24/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	09/24/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	12/09/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	03/30/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/07/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	09/27/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	12/13/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	03/21/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/08/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	09/27/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	12/04/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/22/2005		0.5200	
Potassium, dissolved	MG/L	MW-35	06/14/2005		0.4800	
Potassium, dissolved	MG/L	MW-35	09/27/2005		0.5200	
Potassium, dissolved	MG/L	MW-35	12/15/2005		0.4600	
Potassium, dissolved	MG/L	MW-35	03/28/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/21/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/26/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/12/2006	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/27/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/20/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/18/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/20/2007	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/25/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/18/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/18/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/19/2008	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/24/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/16/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/10/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/03/2009	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/25/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/23/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/09/2010	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/30/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/06/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/26/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/13/2011	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/21/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/06/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/26/2012	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/04/2012	ND	1.0000	
Selenium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Selenium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/03/2009		0.0010	
Selenium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Selenium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/03/2009		0.0011	
Selenium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Selenium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Silver, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Silver, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/16/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/09/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/24/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/24/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/09/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/07/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/13/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/27/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/04/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/14/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/15/2005	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Silver, dissolved	MG/L	MW-35	03/28/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/12/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/27/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/20/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/18/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/20/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/19/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/16/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/10/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/09/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/13/2011	ND	0.0100	
Silver, dissolved	MG/L	MW-35	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/06/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/04/2012	ND	0.0020	
Sodium, dissolved	MG/L	MW-13A	03/22/2005		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/15/2005		4.4000	
Sodium, dissolved	MG/L	MW-13A	09/27/2005		4.5000	
Sodium, dissolved	MG/L	MW-13A	12/15/2005		4.8000	
Sodium, dissolved	MG/L	MW-13A	03/28/2006		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/21/2006		5.2000	
Sodium, dissolved	MG/L	MW-13A	09/26/2006		5.5000	
Sodium, dissolved	MG/L	MW-13A	12/13/2006		4.8000	
Sodium, dissolved	MG/L	MW-13A	03/27/2007		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/19/2007		5.5000	
Sodium, dissolved	MG/L	MW-13A	09/19/2007		5.4000	
Sodium, dissolved	MG/L	MW-13A	12/19/2007		4.9000	
Sodium, dissolved	MG/L	MW-13A	03/25/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	06/18/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	09/17/2008		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/17/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	03/24/2009		5.3000	
Sodium, dissolved	MG/L	MW-13A	06/17/2009		5.4000	
Sodium, dissolved	MG/L	MW-13A	09/10/2009		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/03/2009		5.6000	
Sodium, dissolved	MG/L	MW-13A	03/25/2010		6.1000	
Sodium, dissolved	MG/L	MW-13A	06/23/2010		5.7000	
Sodium, dissolved	MG/L	MW-13A	09/23/2010		5.0000	
Sodium, dissolved	MG/L	MW-13A	12/08/2010		5.2000	
Sodium, dissolved	MG/L	MW-13A	03/30/2011		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/06/2011		5.4000	
Sodium, dissolved	MG/L	MW-13A	09/27/2011		5.6000	
Sodium, dissolved	MG/L	MW-13A	12/14/2011		5.5000	
Sodium, dissolved	MG/L	MW-13A	03/21/2012		5.3000	
Sodium, dissolved	MG/L	MW-13A	06/08/2012		5.2000	
Sodium, dissolved	MG/L	MW-13A	09/26/2012		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/03/2012		5.5000	
Sodium, dissolved	MG/L	MW-13B	03/22/2005		5.3000	
Sodium, dissolved	MG/L	MW-13B	06/15/2005		4.8000	
Sodium, dissolved	MG/L	MW-13B	09/27/2005		5.0000	
Sodium, dissolved	MG/L	MW-13B	12/15/2005		4.8000	
Sodium, dissolved	MG/L	MW-13B	03/29/2006		4.9000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Sodium, dissolved	MG/L	MW-13B	06/21/2006		5.0000	
Sodium, dissolved	MG/L	MW-13B	09/26/2006		5.5000	
Sodium, dissolved	MG/L	MW-13B	12/13/2006		4.8000	
Sodium, dissolved	MG/L	MW-13B	03/27/2007		5.2000	
Sodium, dissolved	MG/L	MW-13B	06/19/2007		5.2000	
Sodium, dissolved	MG/L	MW-13B	09/18/2007		5.2000	
Sodium, dissolved	MG/L	MW-13B	12/19/2007		4.9000	
Sodium, dissolved	MG/L	MW-13B	03/25/2008		5.3000	
Sodium, dissolved	MG/L	MW-13B	06/18/2008		5.3000	
Sodium, dissolved	MG/L	MW-13B	09/17/2008		5.0000	
Sodium, dissolved	MG/L	MW-13B	12/16/2008		5.1000	
Sodium, dissolved	MG/L	MW-13B	03/24/2009		5.1000	
Sodium, dissolved	MG/L	MW-13B	06/17/2009		5.3000	
Sodium, dissolved	MG/L	MW-13B	09/10/2009		5.1000	
Sodium, dissolved	MG/L	MW-13B	12/03/2009		5.3000	
Sodium, dissolved	MG/L	MW-13B	03/25/2010		5.3000	
Sodium, dissolved	MG/L	MW-13B	06/23/2010		5.3000	
Sodium, dissolved	MG/L	MW-13B	09/23/2010		4.8000	
Sodium, dissolved	MG/L	MW-13B	12/08/2010		5.6000	
Sodium, dissolved	MG/L	MW-13B	03/30/2011		5.1000	
Sodium, dissolved	MG/L	MW-13B	06/06/2011		5.2000	
Sodium, dissolved	MG/L	MW-13B	09/27/2011		5.2000	
Sodium, dissolved	MG/L	MW-13B	12/14/2011		5.1000	
Sodium, dissolved	MG/L	MW-13B	03/21/2012		4.9000	
Sodium, dissolved	MG/L	MW-13B	06/08/2012		5.1000	
Sodium, dissolved	MG/L	MW-13B	09/26/2012		5.0000	
Sodium, dissolved	MG/L	MW-13B	12/03/2012		5.7000	
Sodium, dissolved	MG/L	MW-16	03/24/2009		5.4000	
Sodium, dissolved	MG/L	MW-16	06/16/2009		5.3000	
Sodium, dissolved	MG/L	MW-16	09/09/2009		5.4000	
Sodium, dissolved	MG/L	MW-16	12/03/2009		6.2000	
Sodium, dissolved	MG/L	MW-16	03/25/2010		4.9000	
Sodium, dissolved	MG/L	MW-16	06/24/2010		5.7000	
Sodium, dissolved	MG/L	MW-16	09/24/2010		5.7000	
Sodium, dissolved	MG/L	MW-16	12/09/2010		5.2000	
Sodium, dissolved	MG/L	MW-16	03/30/2011		4.7000	
Sodium, dissolved	MG/L	MW-16	06/07/2011		5.0000	
Sodium, dissolved	MG/L	MW-16	09/27/2011		5.8000	
Sodium, dissolved	MG/L	MW-16	12/13/2011		5.3000	
Sodium, dissolved	MG/L	MW-16	03/21/2012		4.7000	
Sodium, dissolved	MG/L	MW-16	06/08/2012		4.8000	
Sodium, dissolved	MG/L	MW-16	09/27/2012		5.4000	
Sodium, dissolved	MG/L	MW-16	12/04/2012		4.7000	
Sodium, dissolved	MG/L	MW-35	03/22/2005		5.1000	
Sodium, dissolved	MG/L	MW-35	06/14/2005		4.5000	
Sodium, dissolved	MG/L	MW-35	09/27/2005		5.1000	
Sodium, dissolved	MG/L	MW-35	12/15/2005		4.6000	
Sodium, dissolved	MG/L	MW-35	03/28/2006		5.0000	
Sodium, dissolved	MG/L	MW-35	06/21/2006		4.9000	
Sodium, dissolved	MG/L	MW-35	09/26/2006		5.1000	
Sodium, dissolved	MG/L	MW-35	12/12/2006		4.7000	
Sodium, dissolved	MG/L	MW-35	03/27/2007		5.1000	
Sodium, dissolved	MG/L	MW-35	06/20/2007		5.2000	
Sodium, dissolved	MG/L	MW-35	09/18/2007		5.2000	
Sodium, dissolved	MG/L	MW-35	12/20/2007		4.8000	
Sodium, dissolved	MG/L	MW-35	03/25/2008		5.1000	
Sodium, dissolved	MG/L	MW-35	06/18/2008		4.9000	
Sodium, dissolved	MG/L	MW-35	09/18/2008		4.8000	
Sodium, dissolved	MG/L	MW-35	12/19/2008		4.7000	
Sodium, dissolved	MG/L	MW-35	03/24/2009		5.0000	
Sodium, dissolved	MG/L	MW-35	06/16/2009		5.1000	
Sodium, dissolved	MG/L	MW-35	09/10/2009		4.9000	
Sodium, dissolved	MG/L	MW-35	12/03/2009		5.3000	
Sodium, dissolved	MG/L	MW-35	03/25/2010		5.0000	
Sodium, dissolved	MG/L	MW-35	06/23/2010		5.1000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Sodium, dissolved	MG/L	MW-35	09/23/2010		4.7000	
Sodium, dissolved	MG/L	MW-35	12/09/2010		4.8000	
Sodium, dissolved	MG/L	MW-35	03/30/2011		4.9000	
Sodium, dissolved	MG/L	MW-35	06/06/2011		5.1000	
Sodium, dissolved	MG/L	MW-35	09/26/2011		5.2000	
Sodium, dissolved	MG/L	MW-35	12/13/2011		5.1000	
Sodium, dissolved	MG/L	MW-35	03/21/2012		5.0000	
Sodium, dissolved	MG/L	MW-35	06/06/2012		4.8000	
Sodium, dissolved	MG/L	MW-35	09/26/2012		4.9000	
Sodium, dissolved	MG/L	MW-35	12/04/2012		4.5000	
Specific conductivity	mS/cm	MW-13A	03/22/2005		0.1580	
Specific conductivity	mS/cm	MW-13A	06/15/2005		0.1670	
Specific conductivity	mS/cm	MW-13A	09/27/2005		0.1610	
Specific conductivity	mS/cm	MW-13A	12/15/2005		0.1590	
Specific conductivity	mS/cm	MW-13A	03/28/2006		0.1520	
Specific conductivity	mS/cm	MW-13A	06/21/2006		0.1690	
Specific conductivity	mS/cm	MW-13A	09/26/2006		0.1710	
Specific conductivity	mS/cm	MW-13A	12/13/2006		0.1700	
Specific conductivity	mS/cm	MW-13A	03/27/2007		0.1670	
Specific conductivity	mS/cm	MW-13A	09/19/2007		0.1670	
Specific conductivity	mS/cm	MW-13A	12/19/2007		0.1690	
Specific conductivity	mS/cm	MW-13A	03/25/2008		0.1660	
Specific conductivity	mS/cm	MW-13A	06/18/2008		0.1700	
Specific conductivity	mS/cm	MW-13A	09/17/2008		0.1680	
Specific conductivity	mS/cm	MW-13A	12/17/2008		0.1390	
Specific conductivity	mS/cm	MW-13A	03/24/2009		0.1680	
Specific conductivity	mS/cm	MW-13A	06/17/2009		0.1740	
Specific conductivity	mS/cm	MW-13A	12/03/2009		0.1730	
Specific conductivity	mS/cm	MW-13A	03/25/2010		0.0930	
Specific conductivity	mS/cm	MW-13A	06/23/2010		0.1450	
Specific conductivity	mS/cm	MW-13A	09/23/2010		0.1700	
Specific conductivity	mS/cm	MW-13A	12/08/2010		0.0700	
Specific conductivity	mS/cm	MW-13A	03/30/2011		0.1510	
Specific conductivity	mS/cm	MW-13A	06/06/2011		0.1580	
Specific conductivity	mS/cm	MW-13A	09/27/2011		0.1580	
Specific conductivity	mS/cm	MW-13A	12/14/2011		0.1760	
Specific conductivity	mS/cm	MW-13A	03/21/2012		0.1710	
Specific conductivity	mS/cm	MW-13A	06/08/2012		0.1800	
Specific conductivity	mS/cm	MW-13A	09/26/2012		0.1500	
Specific conductivity	mS/cm	MW-13A	12/03/2012		0.1070	
Specific conductivity	mS/cm	MW-13B	03/22/2005		0.1550	
Specific conductivity	mS/cm	MW-13B	06/15/2005		0.1650	
Specific conductivity	mS/cm	MW-13B	09/27/2005		0.1590	
Specific conductivity	mS/cm	MW-13B	12/15/2005		0.1570	
Specific conductivity	mS/cm	MW-13B	03/29/2006		0.1510	
Specific conductivity	mS/cm	MW-13B	06/21/2006		0.1650	
Specific conductivity	mS/cm	MW-13B	09/26/2006		0.1680	
Specific conductivity	mS/cm	MW-13B	12/13/2006		0.1650	
Specific conductivity	mS/cm	MW-13B	03/27/2007		0.1610	
Specific conductivity	mS/cm	MW-13B	09/18/2007		0.1680	
Specific conductivity	mS/cm	MW-13B	12/19/2007		0.1640	
Specific conductivity	mS/cm	MW-13B	03/25/2008		0.1620	
Specific conductivity	mS/cm	MW-13B	06/18/2008		0.1650	
Specific conductivity	mS/cm	MW-13B	09/17/2008		0.1640	
Specific conductivity	mS/cm	MW-13B	12/16/2008		0.1630	
Specific conductivity	mS/cm	MW-13B	03/24/2009		0.1670	
Specific conductivity	mS/cm	MW-13B	06/17/2009		0.1690	
Specific conductivity	mS/cm	MW-13B	12/03/2009		0.1670	
Specific conductivity	mS/cm	MW-13B	03/25/2010		0.0900	
Specific conductivity	mS/cm	MW-13B	06/23/2010		0.1410	
Specific conductivity	mS/cm	MW-13B	09/23/2010		0.1620	
Specific conductivity	mS/cm	MW-13B	12/08/2010		0.0730	
Specific conductivity	mS/cm	MW-13B	03/30/2011		0.1440	
Specific conductivity	mS/cm	MW-13B	06/06/2011		0.1350	
Specific conductivity	mS/cm	MW-13B	09/27/2011		0.1510	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Specific conductivity	mS/cm	MW-13B	12/14/2011		0.1690	
Specific conductivity	mS/cm	MW-13B	03/21/2012		0.1650	
Specific conductivity	mS/cm	MW-13B	06/08/2012		0.1750	
Specific conductivity	mS/cm	MW-13B	09/26/2012		0.1480	
Specific conductivity	mS/cm	MW-13B	12/03/2012		0.1400	
Specific conductivity	mS/cm	MW-16	03/24/2009		0.1350	
Specific conductivity	mS/cm	MW-16	06/16/2009		0.1230	
Specific conductivity	mS/cm	MW-16	12/03/2009		0.1600	
Specific conductivity	mS/cm	MW-16	03/25/2010		0.1180	
Specific conductivity	mS/cm	MW-16	06/24/2010		0.1550	
Specific conductivity	mS/cm	MW-16	09/24/2010		0.1480	
Specific conductivity	mS/cm	MW-16	12/09/2010		0.1500	
Specific conductivity	mS/cm	MW-16	03/30/2011		0.1020	
Specific conductivity	mS/cm	MW-16	06/07/2011		0.0960	
Specific conductivity	mS/cm	MW-16	09/27/2011		0.0680	
Specific conductivity	mS/cm	MW-16	12/13/2011		0.1200	
Specific conductivity	mS/cm	MW-16	03/21/2012		0.0790	
Specific conductivity	mS/cm	MW-16	06/08/2012		0.1180	
Specific conductivity	mS/cm	MW-16	09/27/2012		0.1060	
Specific conductivity	mS/cm	MW-16	12/04/2012		0.0850	
Specific conductivity	mS/cm	MW-35	03/22/2005		0.1430	
Specific conductivity	mS/cm	MW-35	06/14/2005		0.1530	
Specific conductivity	mS/cm	MW-35	09/27/2005		0.1480	
Specific conductivity	mS/cm	MW-35	12/15/2005		0.1450	
Specific conductivity	mS/cm	MW-35	03/28/2006		0.1360	
Specific conductivity	mS/cm	MW-35	06/21/2006		0.1520	
Specific conductivity	mS/cm	MW-35	09/26/2006		0.1550	
Specific conductivity	mS/cm	MW-35	12/12/2006		0.1510	
Specific conductivity	mS/cm	MW-35	03/27/2007		0.1480	
Specific conductivity	mS/cm	MW-35	09/18/2007		0.1520	
Specific conductivity	mS/cm	MW-35	12/20/2007		0.1520	
Specific conductivity	mS/cm	MW-35	03/25/2008		0.1470	
Specific conductivity	mS/cm	MW-35	06/18/2008		0.1510	
Specific conductivity	mS/cm	MW-35	09/18/2008		0.1420	
Specific conductivity	mS/cm	MW-35	12/19/2008		0.1440	
Specific conductivity	mS/cm	MW-35	03/24/2009		0.1500	
Specific conductivity	mS/cm	MW-35	06/16/2009		0.1550	
Specific conductivity	mS/cm	MW-35	12/03/2009		0.1520	
Specific conductivity	mS/cm	MW-35	03/25/2010		0.0840	
Specific conductivity	mS/cm	MW-35	06/23/2010		0.1280	
Specific conductivity	mS/cm	MW-35	09/23/2010		0.1510	
Specific conductivity	mS/cm	MW-35	12/09/2010		0.1500	
Specific conductivity	mS/cm	MW-35	03/30/2011		0.1320	
Specific conductivity	mS/cm	MW-35	06/06/2011		0.1230	
Specific conductivity	mS/cm	MW-35	09/26/2011		0.1310	
Specific conductivity	mS/cm	MW-35	12/13/2011		0.1480	
Specific conductivity	mS/cm	MW-35	03/21/2012		0.1520	
Specific conductivity	mS/cm	MW-35	06/06/2012		0.1380	
Specific conductivity	mS/cm	MW-35	09/26/2012		0.1350	
Specific conductivity	mS/cm	MW-35	12/04/2012		0.1480	
Sulfate	MG/L	MW-13A	03/22/2005		2.8000	
Sulfate	MG/L	MW-13A	06/15/2005		2.9000	
Sulfate	MG/L	MW-13A	09/27/2005		3.2000	
Sulfate	MG/L	MW-13A	12/15/2005		2.1000	
Sulfate	MG/L	MW-13A	03/28/2006		3.2000	
Sulfate	MG/L	MW-13A	06/21/2006		3.1000	
Sulfate	MG/L	MW-13A	09/26/2006		2.5000	
Sulfate	MG/L	MW-13A	12/13/2006		2.3000	
Sulfate	MG/L	MW-13A	03/27/2007		2.5000	
Sulfate	MG/L	MW-13A	06/19/2007		2.5000	
Sulfate	MG/L	MW-13A	09/19/2007		2.5000	
Sulfate	MG/L	MW-13A	12/19/2007		2.5000	
Sulfate	MG/L	MW-13A	03/25/2008		2.4000	
Sulfate	MG/L	MW-13A	06/18/2008		2.6000	
Sulfate	MG/L	MW-13A	09/17/2008		2.4000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Sulfate	MG/L	MW-13A	12/17/2008		2.4000	
Sulfate	MG/L	MW-13A	03/24/2009		2.5000	
Sulfate	MG/L	MW-13A	06/17/2009		2.1000	
Sulfate	MG/L	MW-13A	09/10/2009		2.2000	
Sulfate	MG/L	MW-13A	12/03/2009		2.3000	
Sulfate	MG/L	MW-13A	03/25/2010		2.3000	
Sulfate	MG/L	MW-13A	06/23/2010		2.1000	
Sulfate	MG/L	MW-13A	09/23/2010		2.3000	
Sulfate	MG/L	MW-13A	12/08/2010		3.7000	
Sulfate	MG/L	MW-13A	03/30/2011		2.2000	
Sulfate	MG/L	MW-13A	06/06/2011		2.2000	
Sulfate	MG/L	MW-13A	09/27/2011		2.3000	
Sulfate	MG/L	MW-13A	12/14/2011		2.5000	
Sulfate	MG/L	MW-13A	03/21/2012		1.9000	
Sulfate	MG/L	MW-13A	06/08/2012		2.1000	
Sulfate	MG/L	MW-13A	09/26/2012		2.1000	
Sulfate	MG/L	MW-13A	12/03/2012		2.2000	
Sulfate	MG/L	MW-13B	03/22/2005		4.6000	
Sulfate	MG/L	MW-13B	06/15/2005		4.7000	
Sulfate	MG/L	MW-13B	09/27/2005		4.5000	
Sulfate	MG/L	MW-13B	12/15/2005		3.6000	
Sulfate	MG/L	MW-13B	03/29/2006		4.5000	
Sulfate	MG/L	MW-13B	06/21/2006		4.4000	
Sulfate	MG/L	MW-13B	09/26/2006		4.1000	
Sulfate	MG/L	MW-13B	12/13/2006		3.9000	
Sulfate	MG/L	MW-13B	03/27/2007		4.1000	
Sulfate	MG/L	MW-13B	06/19/2007		4.1000	
Sulfate	MG/L	MW-13B	09/18/2007		4.2000	
Sulfate	MG/L	MW-13B	12/19/2007		4.1000	
Sulfate	MG/L	MW-13B	03/25/2008		4.0000	
Sulfate	MG/L	MW-13B	06/18/2008		4.1000	
Sulfate	MG/L	MW-13B	09/17/2008		4.2000	
Sulfate	MG/L	MW-13B	12/16/2008		4.2000	
Sulfate	MG/L	MW-13B	03/24/2009		4.2000	
Sulfate	MG/L	MW-13B	06/17/2009		3.7000	
Sulfate	MG/L	MW-13B	09/10/2009		3.7000	
Sulfate	MG/L	MW-13B	12/03/2009		4.1000	
Sulfate	MG/L	MW-13B	03/25/2010		3.9000	
Sulfate	MG/L	MW-13B	06/23/2010		3.6000	
Sulfate	MG/L	MW-13B	09/23/2010		3.8000	
Sulfate	MG/L	MW-13B	12/08/2010		2.4000	
Sulfate	MG/L	MW-13B	03/30/2011		4.4000	
Sulfate	MG/L	MW-13B	06/06/2011		3.7000	
Sulfate	MG/L	MW-13B	09/27/2011		3.7000	
Sulfate	MG/L	MW-13B	12/14/2011		3.5000	
Sulfate	MG/L	MW-13B	03/21/2012		3.2000	
Sulfate	MG/L	MW-13B	06/08/2012		3.5000	
Sulfate	MG/L	MW-13B	09/26/2012		3.6000	
Sulfate	MG/L	MW-13B	12/03/2012		3.5000	
Sulfate	MG/L	MW-16	03/24/2009		3.0000	
Sulfate	MG/L	MW-16	06/16/2009		2.2000	
Sulfate	MG/L	MW-16	09/09/2009		4.3000	
Sulfate	MG/L	MW-16	12/03/2009		3.6000	
Sulfate	MG/L	MW-16	03/25/2010		9.9000	
Sulfate	MG/L	MW-16	06/24/2010		2.5000	
Sulfate	MG/L	MW-16	09/24/2010		2.3000	
Sulfate	MG/L	MW-16	12/09/2010		2.7000	
Sulfate	MG/L	MW-16	03/30/2011		7.1000	
Sulfate	MG/L	MW-16	06/07/2011		2.4000	
Sulfate	MG/L	MW-16	09/27/2011		4.1000	
Sulfate	MG/L	MW-16	12/13/2011		2.3000	
Sulfate	MG/L	MW-16	03/21/2012		1.6000	
Sulfate	MG/L	MW-16	06/08/2012		3.0000	
Sulfate	MG/L	MW-16	09/27/2012		3.1000	
Sulfate	MG/L	MW-16	12/04/2012		3.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Sulfate	MG/L	MW-35	03/22/2005		2.5000	
Sulfate	MG/L	MW-35	06/14/2005		1.6000	
Sulfate	MG/L	MW-35	09/27/2005		1.3000	
Sulfate	MG/L	MW-35	12/15/2005	ND	1.0000	
Sulfate	MG/L	MW-35	03/28/2006		3.0000	
Sulfate	MG/L	MW-35	06/21/2006		3.0000	
Sulfate	MG/L	MW-35	09/26/2006		2.4000	
Sulfate	MG/L	MW-35	12/12/2006		2.2000	
Sulfate	MG/L	MW-35	03/27/2007		2.5000	
Sulfate	MG/L	MW-35	06/20/2007		2.4000	
Sulfate	MG/L	MW-35	09/18/2007		2.6000	
Sulfate	MG/L	MW-35	12/20/2007		2.4000	
Sulfate	MG/L	MW-35	03/25/2008		2.4000	
Sulfate	MG/L	MW-35	06/18/2008		2.6000	
Sulfate	MG/L	MW-35	09/18/2008		2.3000	
Sulfate	MG/L	MW-35	12/19/2008		2.6000	
Sulfate	MG/L	MW-35	03/24/2009		2.7000	
Sulfate	MG/L	MW-35	06/16/2009		2.2000	
Sulfate	MG/L	MW-35	09/10/2009		2.4000	
Sulfate	MG/L	MW-35	12/03/2009		2.5000	
Sulfate	MG/L	MW-35	03/25/2010		2.6000	
Sulfate	MG/L	MW-35	06/23/2010		2.3000	
Sulfate	MG/L	MW-35	09/23/2010		2.5000	
Sulfate	MG/L	MW-35	12/09/2010		2.2000	
Sulfate	MG/L	MW-35	03/30/2011		2.6000	
Sulfate	MG/L	MW-35	06/06/2011		2.5000	
Sulfate	MG/L	MW-35	09/26/2011		2.6000	
Sulfate	MG/L	MW-35	12/13/2011		2.5000	
Sulfate	MG/L	MW-35	03/21/2012		2.1000	
Sulfate	MG/L	MW-35	06/06/2012		2.4000	
Sulfate	MG/L	MW-35	09/26/2012		2.4000	
Sulfate	MG/L	MW-35	12/04/2012		2.5000	
Temperature	deg C	MW-13A	03/22/2005		9.0800	
Temperature	deg C	MW-13A	06/15/2005		9.3700	
Temperature	deg C	MW-13A	09/27/2005		9.6500	
Temperature	deg C	MW-13A	12/15/2005		8.6000	
Temperature	deg C	MW-13A	03/28/2006		9.4400	
Temperature	deg C	MW-13A	06/21/2006		9.4100	
Temperature	deg C	MW-13A	09/26/2006		9.7100	
Temperature	deg C	MW-13A	12/13/2006		8.7900	
Temperature	deg C	MW-13A	03/27/2007		9.1400	
Temperature	deg C	MW-13A	09/19/2007		9.2600	
Temperature	deg C	MW-13A	12/19/2007		8.1700	
Temperature	deg C	MW-13A	03/25/2008		8.4700	
Temperature	deg C	MW-13A	06/18/2008		9.3000	
Temperature	deg C	MW-13A	09/17/2008		8.8000	
Temperature	deg C	MW-13A	12/17/2008		8.7500	
Temperature	deg C	MW-13A	03/24/2009		8.3200	
Temperature	deg C	MW-13A	06/17/2009		9.8500	
Temperature	deg C	MW-13A	12/03/2009		8.9200	
Temperature	deg C	MW-13A	03/25/2010		9.2200	
Temperature	deg C	MW-13A	06/23/2010		9.5800	
Temperature	deg C	MW-13A	09/23/2010		9.4200	
Temperature	deg C	MW-13A	12/08/2010		9.4500	
Temperature	deg C	MW-13A	03/30/2011		9.3700	
Temperature	deg C	MW-13A	06/06/2011		10.4000	
Temperature	deg C	MW-13A	09/27/2011		9.5800	
Temperature	deg C	MW-13A	12/14/2011		8.9200	
Temperature	deg C	MW-13A	03/21/2012		8.7400	
Temperature	deg C	MW-13A	06/08/2012		9.3000	
Temperature	deg C	MW-13A	09/26/2012		10.0400	
Temperature	deg C	MW-13A	12/03/2012		9.2000	
Temperature	deg C	MW-13B	03/22/2005		9.5500	
Temperature	deg C	MW-13B	06/15/2005		9.9200	
Temperature	deg C	MW-13B	09/27/2005		10.7900	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Temperature	deg C	MW-13B	12/15/2005		8.1100	
Temperature	deg C	MW-13B	03/29/2006		8.8000	
Temperature	deg C	MW-13B	06/21/2006		9.7600	
Temperature	deg C	MW-13B	09/26/2006		10.3200	
Temperature	deg C	MW-13B	12/13/2006		8.8500	
Temperature	deg C	MW-13B	03/27/2007		9.0400	
Temperature	deg C	MW-13B	09/18/2007		10.0100	
Temperature	deg C	MW-13B	12/19/2007		8.0800	
Temperature	deg C	MW-13B	03/25/2008		8.0900	
Temperature	deg C	MW-13B	06/18/2008		9.2300	
Temperature	deg C	MW-13B	09/17/2008		9.0100	
Temperature	deg C	MW-13B	12/16/2008		8.4300	
Temperature	deg C	MW-13B	03/24/2009		8.3700	
Temperature	deg C	MW-13B	06/17/2009		10.8100	
Temperature	deg C	MW-13B	12/03/2009		8.7900	
Temperature	deg C	MW-13B	03/25/2010		9.2300	
Temperature	deg C	MW-13B	06/23/2010		9.9700	
Temperature	deg C	MW-13B	09/23/2010		9.6000	
Temperature	deg C	MW-13B	12/08/2010		9.2500	
Temperature	deg C	MW-13B	03/30/2011		9.3200	
Temperature	deg C	MW-13B	06/06/2011		11.3000	
Temperature	deg C	MW-13B	09/27/2011		10.5700	
Temperature	deg C	MW-13B	12/14/2011		8.7600	
Temperature	deg C	MW-13B	03/21/2012		8.5000	
Temperature	deg C	MW-13B	06/08/2012		9.4000	
Temperature	deg C	MW-13B	09/26/2012		10.5900	
Temperature	deg C	MW-13B	12/03/2012		9.2000	
Temperature	deg C	MW-16	03/24/2009		9.0800	
Temperature	deg C	MW-16	06/16/2009		9.9800	
Temperature	deg C	MW-16	12/03/2009		9.0800	
Temperature	deg C	MW-16	03/25/2010		9.1100	
Temperature	deg C	MW-16	06/24/2010		9.3900	
Temperature	deg C	MW-16	09/24/2010		9.4400	
Temperature	deg C	MW-16	12/09/2010		9.1300	
Temperature	deg C	MW-16	03/30/2011		9.1400	
Temperature	deg C	MW-16	06/07/2011		9.4600	
Temperature	deg C	MW-16	09/27/2011		9.4300	
Temperature	deg C	MW-16	12/13/2011		8.8400	
Temperature	deg C	MW-16	03/21/2012		8.8200	
Temperature	deg C	MW-16	06/08/2012		9.2000	
Temperature	deg C	MW-16	09/27/2012		9.0600	
Temperature	deg C	MW-16	12/04/2012		9.1000	
Temperature	deg C	MW-35	03/22/2005		9.8000	
Temperature	deg C	MW-35	06/14/2005		10.2800	
Temperature	deg C	MW-35	09/27/2005		10.4900	
Temperature	deg C	MW-35	12/15/2005		8.8600	
Temperature	deg C	MW-35	03/28/2006		9.5300	
Temperature	deg C	MW-35	06/21/2006		10.3100	
Temperature	deg C	MW-35	09/26/2006		10.6200	
Temperature	deg C	MW-35	12/12/2006		9.2600	
Temperature	deg C	MW-35	03/27/2007		9.4000	
Temperature	deg C	MW-35	09/18/2007		10.2400	
Temperature	deg C	MW-35	12/20/2007		8.6900	
Temperature	deg C	MW-35	03/25/2008		8.7500	
Temperature	deg C	MW-35	06/18/2008		9.7300	
Temperature	deg C	MW-35	09/18/2008		9.9800	
Temperature	deg C	MW-35	12/19/2008		8.5000	
Temperature	deg C	MW-35	03/24/2009		9.3200	
Temperature	deg C	MW-35	06/16/2009		11.7600	
Temperature	deg C	MW-35	12/03/2009		9.5700	
Temperature	deg C	MW-35	03/25/2010		9.8200	
Temperature	deg C	MW-35	06/23/2010		10.0700	
Temperature	deg C	MW-35	09/23/2010		10.0900	
Temperature	deg C	MW-35	12/09/2010		9.8500	
Temperature	deg C	MW-35	03/30/2011		9.7200	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Temperature	deg C	MW-35	06/06/2011		10.2000	
Temperature	deg C	MW-35	09/26/2011		10.1400	
Temperature	deg C	MW-35	12/13/2011		9.4100	
Temperature	deg C	MW-35	03/21/2012		9.7800	
Temperature	deg C	MW-35	06/06/2012		10.3000	
Temperature	deg C	MW-35	09/26/2012		10.2000	
Temperature	deg C	MW-35	12/04/2012		9.8000	
Thallium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Thallium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Thallium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Total dissolved solids (tds)	MG/L	MW-13A	03/22/2005		113.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/15/2005		111.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/27/2005		175.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/15/2005		166.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/28/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/21/2006		120.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/26/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/13/2006		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/27/2007		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/19/2007		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/19/2007		110.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Total dissolved solids (tds)	MG/L	MW-13A	12/19/2007		84.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/25/2008		99.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/18/2008		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/17/2008		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/17/2008		90.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/24/2009		95.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/17/2009		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/10/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/03/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/25/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/23/2010		120.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/23/2010		98.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/08/2010		90.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/30/2011		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/06/2011		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/27/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/14/2011		97.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/21/2012		93.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/08/2012		120.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/26/2012		120.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/03/2012		88.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/22/2005		108.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/15/2005		114.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/27/2005		111.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/15/2005		130.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/29/2006		89.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/21/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/26/2006		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/13/2006		98.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/27/2007		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/19/2007		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/18/2007		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/19/2007		91.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/25/2008		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/18/2008		120.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/17/2008		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/16/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/24/2009		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/17/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/10/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/03/2009		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/25/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/23/2010		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/23/2010		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/08/2010		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/30/2011		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/06/2011		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/27/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/14/2011		91.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/21/2012		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/08/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/26/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/03/2012		93.0000	
Total dissolved solids (tds)	MG/L	MW-16	03/24/2009		87.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/16/2009		85.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/09/2009		89.0000	
Total dissolved solids (tds)	MG/L	MW-16	12/03/2009		97.0000	
Total dissolved solids (tds)	MG/L	MW-16	03/25/2010		83.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/24/2010		95.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/24/2010		120.0000	
Total dissolved solids (tds)	MG/L	MW-16	12/09/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-16	03/30/2011		91.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/07/2011		94.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/27/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-16	12/13/2011		93.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Total dissolved solids (tds)	MG/L	MW-16	03/21/2012		71.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/08/2012		95.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/27/2012		87.0000	
Total dissolved solids (tds)	MG/L	MW-16	12/04/2012		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/22/2005		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/14/2005		88.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/27/2005		123.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/15/2005		87.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/28/2006		91.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/21/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/12/2006		90.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/27/2007		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/20/2007		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/18/2007		90.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/20/2007		120.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/25/2008		76.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/18/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/18/2008		92.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/19/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/24/2009		84.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/16/2009		95.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/10/2009		83.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/03/2009		85.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/25/2010		96.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/23/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/23/2010		86.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/09/2010		97.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/30/2011		91.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/06/2011		96.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/13/2011		95.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/21/2012		85.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/06/2012		120.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/04/2012		100.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/22/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/15/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/27/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/15/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/28/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/21/2006		2.2000	
Total organic carbon (toc)	MG/L	MW-13A	09/26/2006		6.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/13/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/27/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/19/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/19/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/19/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/25/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/18/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/17/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/17/2008		1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/24/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/17/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/10/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/03/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/25/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/08/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/30/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/06/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/27/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/14/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/21/2012	ND	1.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Total organic carbon (toc)	MG/L	MW-13A	06/08/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/26/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/03/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/22/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/15/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/27/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/15/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/29/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/21/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/26/2006		4.8000	
Total organic carbon (toc)	MG/L	MW-13B	12/13/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/27/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/19/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/18/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/19/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/25/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/18/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/17/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/16/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/24/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/17/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/10/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/03/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/25/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/08/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/30/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/06/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/27/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/14/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/21/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/08/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/26/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/03/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	03/24/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	06/16/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/09/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	12/03/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	03/25/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	06/24/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/24/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	12/09/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	03/30/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	06/07/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/27/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	12/13/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	03/21/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	06/08/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/27/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	12/04/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/22/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/14/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/27/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/15/2005	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/28/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/21/2006		2.1000	
Total organic carbon (toc)	MG/L	MW-35	09/26/2006		4.3000	
Total organic carbon (toc)	MG/L	MW-35	12/12/2006	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/27/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/20/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/18/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/20/2007	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/25/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/18/2008	ND	1.0000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Total organic carbon (toc)	MG/L	MW-35	09/18/2008	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/19/2008		1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/24/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/16/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/10/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/03/2009	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/25/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/23/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/09/2010	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/30/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/06/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/26/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/13/2011	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/21/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/06/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/26/2012	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/04/2012	ND	1.0000	
Vanadium, dissolved	MG/L	MW-13A	03/22/2005		0.0042	
Vanadium, dissolved	MG/L	MW-13A	06/15/2005		0.0036	
Vanadium, dissolved	MG/L	MW-13A	09/27/2005		0.0036	
Vanadium, dissolved	MG/L	MW-13A	12/15/2005		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/28/2006		0.0041	
Vanadium, dissolved	MG/L	MW-13A	06/21/2006		0.0043	
Vanadium, dissolved	MG/L	MW-13A	09/26/2006		0.0041	
Vanadium, dissolved	MG/L	MW-13A	12/13/2006		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/27/2007		0.0041	
Vanadium, dissolved	MG/L	MW-13A	06/19/2007		0.0041	
Vanadium, dissolved	MG/L	MW-13A	09/19/2007		0.0039	
Vanadium, dissolved	MG/L	MW-13A	12/19/2007		0.0043	
Vanadium, dissolved	MG/L	MW-13A	03/25/2008		0.0040	
Vanadium, dissolved	MG/L	MW-13A	06/18/2008		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/17/2008		0.0040	
Vanadium, dissolved	MG/L	MW-13A	12/17/2008		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/24/2009		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/17/2009		0.0039	
Vanadium, dissolved	MG/L	MW-13A	09/10/2009		0.0041	
Vanadium, dissolved	MG/L	MW-13A	12/03/2009		0.0041	
Vanadium, dissolved	MG/L	MW-13A	03/25/2010		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/23/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/23/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13A	12/08/2010		0.0058	
Vanadium, dissolved	MG/L	MW-13A	03/30/2011		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/06/2011		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/27/2011		0.0037	
Vanadium, dissolved	MG/L	MW-13A	12/14/2011		0.0041	
Vanadium, dissolved	MG/L	MW-13A	03/21/2012		0.0037	
Vanadium, dissolved	MG/L	MW-13A	06/08/2012		0.0039	
Vanadium, dissolved	MG/L	MW-13A	09/26/2012		0.0039	
Vanadium, dissolved	MG/L	MW-13A	12/03/2012		0.0037	
Vanadium, dissolved	MG/L	MW-13B	03/22/2005		0.0066	
Vanadium, dissolved	MG/L	MW-13B	06/15/2005		0.0057	
Vanadium, dissolved	MG/L	MW-13B	09/27/2005		0.0058	
Vanadium, dissolved	MG/L	MW-13B	12/15/2005		0.0057	
Vanadium, dissolved	MG/L	MW-13B	03/29/2006		0.0061	
Vanadium, dissolved	MG/L	MW-13B	06/21/2006		0.0059	
Vanadium, dissolved	MG/L	MW-13B	09/26/2006		0.0058	
Vanadium, dissolved	MG/L	MW-13B	12/13/2006		0.0056	
Vanadium, dissolved	MG/L	MW-13B	03/27/2007		0.0059	
Vanadium, dissolved	MG/L	MW-13B	06/19/2007		0.0060	
Vanadium, dissolved	MG/L	MW-13B	09/18/2007		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/19/2007		0.0060	
Vanadium, dissolved	MG/L	MW-13B	03/25/2008		0.0060	
Vanadium, dissolved	MG/L	MW-13B	06/18/2008		0.0054	
Vanadium, dissolved	MG/L	MW-13B	09/17/2008		0.0056	

* - Outlier for that well and constituent.
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Upgradient Data

Constituent	Units	Well	Date		Result	
Vanadium, dissolved	MG/L	MW-13B	12/16/2008		0.0058	
Vanadium, dissolved	MG/L	MW-13B	03/24/2009		0.0056	
Vanadium, dissolved	MG/L	MW-13B	06/17/2009		0.0059	
Vanadium, dissolved	MG/L	MW-13B	09/10/2009		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/03/2009		0.0062	
Vanadium, dissolved	MG/L	MW-13B	03/25/2010		0.0056	
Vanadium, dissolved	MG/L	MW-13B	06/23/2010		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/23/2010		0.0055	
Vanadium, dissolved	MG/L	MW-13B	12/08/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13B	03/30/2011		0.0057	
Vanadium, dissolved	MG/L	MW-13B	06/06/2011		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/27/2011		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/14/2011		0.0066	
Vanadium, dissolved	MG/L	MW-13B	03/21/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	06/08/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/26/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	12/03/2012		0.0052	
Vanadium, dissolved	MG/L	MW-16	03/24/2009		0.0035	
Vanadium, dissolved	MG/L	MW-16	06/16/2009		0.0036	
Vanadium, dissolved	MG/L	MW-16	09/09/2009		0.0036	
Vanadium, dissolved	MG/L	MW-16	12/03/2009		0.0034	
Vanadium, dissolved	MG/L	MW-16	03/25/2010		0.0036	
Vanadium, dissolved	MG/L	MW-16	06/24/2010		0.0038	
Vanadium, dissolved	MG/L	MW-16	09/24/2010		0.0041	
Vanadium, dissolved	MG/L	MW-16	12/09/2010		0.0037	
Vanadium, dissolved	MG/L	MW-16	03/30/2011		0.0039	
Vanadium, dissolved	MG/L	MW-16	06/07/2011		0.0039	
Vanadium, dissolved	MG/L	MW-16	09/27/2011		0.0043	
Vanadium, dissolved	MG/L	MW-16	12/13/2011		0.0035	
Vanadium, dissolved	MG/L	MW-16	03/21/2012		0.0042	
Vanadium, dissolved	MG/L	MW-16	06/08/2012		0.0033	
Vanadium, dissolved	MG/L	MW-16	09/27/2012		0.0043	
Vanadium, dissolved	MG/L	MW-16	12/04/2012		0.0034	
Vanadium, dissolved	MG/L	MW-35	03/22/2005		0.0047	
Vanadium, dissolved	MG/L	MW-35	06/14/2005		0.0039	
Vanadium, dissolved	MG/L	MW-35	09/27/2005		0.0044	
Vanadium, dissolved	MG/L	MW-35	12/15/2005		0.0041	
Vanadium, dissolved	MG/L	MW-35	03/28/2006		0.0048	
Vanadium, dissolved	MG/L	MW-35	06/21/2006		0.0046	
Vanadium, dissolved	MG/L	MW-35	09/26/2006		0.0046	
Vanadium, dissolved	MG/L	MW-35	12/12/2006		0.0044	
Vanadium, dissolved	MG/L	MW-35	03/27/2007		0.0047	
Vanadium, dissolved	MG/L	MW-35	06/20/2007		0.0046	
Vanadium, dissolved	MG/L	MW-35	09/18/2007		0.0050	
Vanadium, dissolved	MG/L	MW-35	12/20/2007		0.0045	
Vanadium, dissolved	MG/L	MW-35	03/25/2008		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/18/2008		0.0047	
Vanadium, dissolved	MG/L	MW-35	09/18/2008		0.0045	
Vanadium, dissolved	MG/L	MW-35	12/19/2008		0.0042	
Vanadium, dissolved	MG/L	MW-35	03/24/2009		0.0043	
Vanadium, dissolved	MG/L	MW-35	06/16/2009		0.0041	
Vanadium, dissolved	MG/L	MW-35	09/10/2009		0.0047	
Vanadium, dissolved	MG/L	MW-35	12/03/2009		0.0048	
Vanadium, dissolved	MG/L	MW-35	03/25/2010		0.0043	
Vanadium, dissolved	MG/L	MW-35	06/23/2010		0.0044	
Vanadium, dissolved	MG/L	MW-35	09/23/2010		0.0043	
Vanadium, dissolved	MG/L	MW-35	12/09/2010		0.0045	
Vanadium, dissolved	MG/L	MW-35	03/30/2011		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/06/2011		0.0044	
Vanadium, dissolved	MG/L	MW-35	09/26/2011		0.0045	
Vanadium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0020	
Vanadium, dissolved	MG/L	MW-35	03/21/2012		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/06/2012		0.0042	
Vanadium, dissolved	MG/L	MW-35	09/26/2012		0.0043	
Vanadium, dissolved	MG/L	MW-35	12/04/2012		0.0041	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/18/2007		0.0096	
Zinc, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/16/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/09/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/24/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/24/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/09/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/07/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/13/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/27/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/04/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/20/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/19/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/16/2009	ND	0.0050	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc, dissolved	MG/L	MW-35	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/09/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/26/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/06/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/04/2012	ND	0.0050	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-4

Shapiro Wilk Test of Normality for Multiple Groups

Constituent	N (Detects)	Detect Freq	G raw	G log	Critical Value	Limit Type
Alkalinity, bicarbonate (as caco3)	108	1.000	2.430	3.769	2.326	nonpar
Alkalinity, total (as caco3)	112	1.000	2.357	3.741	2.326	nonpar
Ammonia (as n)	70	0.642	7.423	7.044	2.326	nonpar
Antimony, dissolved	0	0.000				nonpar
Arsenic, dissolved	109	1.000	6.737	6.721	2.326	nonpar
Barium, dissolved	111	0.991	4.849	4.846	2.326	nonpar
Beryllium, dissolved	0	0.000				nonpar
Cadmium, dissolved	0	0.000				nonpar
Calcium, dissolved	112	1.000	6.288	6.194	2.326	nonpar
Chloride	112	1.000	1.099	0.525	2.326	normal
Chromium, dissolved	37	0.330	1.372	1.373	2.326	nonpar
Cobalt, dissolved	0	0.000				nonpar
Copper, dissolved	2	0.018				nonpar
Iron, dissolved	4	0.036				nonpar
Lead, dissolved	0	0.000				nonpar
Magnesium, dissolved	112	1.000	0.914	0.694	2.326	normal
Manganese, dissolved	7	0.063	3.410	3.404	2.326	nonpar
Nickel, dissolved	0	0.000				nonpar
Nitrate (as n)	108	1.000	11.701	10.518	2.326	nonpar
pH	105	1.000	1.857	2.267	2.326	normal
Potassium, dissolved	12	0.107	0.153	0.091	2.326	nonpar
Selenium, dissolved	2	0.018				nonpar
Silver, dissolved	0	0.000				nonpar
Sodium, dissolved	112	1.000	2.644	2.791	2.326	nonpar
Specific conductivity	105	1.000	7.571	7.712	2.326	nonpar
Sulfate	111	0.991	6.039	5.765	2.326	nonpar
Temperature	105	1.000	0.605	0.328	2.326	normal
Thallium, dissolved	0	0.000				nonpar
Total dissolved solids (tds)	112	1.000	4.669	3.309	2.326	nonpar
Total organic carbon (toc)	7	0.063	0.146	1.287	2.326	nonpar
Vanadium, dissolved	111	0.991	5.049	5.050	2.326	nonpar
Zinc, dissolved	1	0.013				nonpar

Fit to distribution is confirmed if G < critical value.
If detection frequency is < 50% nonparametric or Poisson limit is used
Data in this table are based on pooled data shown in Table 2-3, outliers excluded

TABLE 2-5
COMPARISON OF UPDATED (2013) PREDICTION LIMITS TO PREVIOUS YEAR (2012) PREDICTION LIMITS
Olympic View Sanitary Landfill

Constituent	2012 Pred. Limit	Distributional Assumption	2013 Pred. Limit	Distributional Assumption
Alkalinity, bicarbonate (as caco3)	96	normal	96	nonparametric
Alkalinity, total (as caco3)	96	normal	96	nonparametric
Ammonia (as n)	0.18	nonparametric	0.34	nonparametric
Antimony, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Arsenic, dissolved	0.38	nonparametric	0.38	nonparametric
Barium, dissolved	0.0052	nonparametric	0.0052	nonparametric
Beryllium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Cadmium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Calcium, dissolved	17.1	nonparametric	17.1	nonparametric
Chloride	3.86	normal	3.91	normal
Chromium, dissolved	0.033	nonparametric	0.033	nonparametric
Cobalt, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Copper, dissolved	0.0094	nonparametric	0.0094	nonparametric
Iron, dissolved	0.097	nonparametric	0.097	nonparametric
Lead, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Magnesium, dissolved	10.57	normal	10.74	normal
Manganese, dissolved	0.0067	nonparametric	0.0067	nonparametric
Nickel, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Nitrate (as n)	1.80	nonparametric	1.80	nonparametric
pH	5.90 - 8.32	normal	5.87 - 8.27	normal
Potassium, dissolved	1.00	nonparametric	1.00	nonparametric
Selenium, dissolved	0.0011	nonparametric	0.0011	nonparametric
Silver, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Sodium, dissolved	5.94	normal	6.20	nonparametric
Specific conductivity	0.176	nonparametric	0.18	nonparametric
Sulfate	9.90	nonparametric	9.90	nonparametric
Temperature	11.14	normal	11.09	normal
Thallium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Total dissolved solids (tds)	175	nonparametric	175	nonparametric
Total organic carbon (toc)	6.0	nonparametric	6.0	nonparametric
Vanadium, dissolved	0.0066	nonparametric	0.0066	nonparametric
Zinc, dissolved	0.0096	nonparametric	0.0096	nonparametric

* in cases where all background data are non-detected values, a nonparametric prediction limit is set at the current constituent-specific laboratory reporting limit (RL)

3. Annual UCL Calculations using Preliminary Groundwater Cleanup Goals

- 2012 Annual Preliminary Groundwater Cleanup Goals Statistical Evaluation Summary (Table 3-1)

TABLE 3-1: 2012 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2010 through December 31, 2012

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9+, MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-15R	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-15R	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-15R	Compliance	Arsenic, dissolved	12	100%	0.26	0.24	ug/L	LN	0.462	ug/L	No	No
MW-15R	Compliance	Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
MW-15R	Compliance	Manganese, dissolved	12	100%	0.0046	0.004	mg/L	LN	0.05	mg/L	No	Yes (▼)
MW-15R	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-15R	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-15R	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-15R	Compliance	Vinyl Chloride	12	75%	0.16	0.09	ug/L	LN	0.20	ug/L	No	No
MW-15R	Compliance	Ammonia as N	12[7]	75%	0.069	0.05	mg/L	LN	0.19	mg/L	No	No
MW-34A	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-34A	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-34A	Compliance	Arsenic, dissolved	12	100%	0.57	0.508	ug/L	Z	0.462	ug/L	Yes	No
MW-34A	Compliance	Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
MW-34A	Compliance	Manganese, dissolved	12	0.0%	0.0010	0.0010	mg/L	B	0.05	mg/L	No	No
MW-34A	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-34A	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-34A	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-34A	Compliance	Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-34A	Compliance	Ammonia as N	12	83%	0.15	0.07	mg/L	LN	0.19	mg/L	No	No
MW-34C	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-34C	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-34C	Compliance	Arsenic, dissolved	12	100%	4.2	1.89	ug/L	Z	0.462	ug/L	Yes	Yes (▼)
MW-34C	Compliance	Iron, dissolved	12	100%	1.4	1.16	mg/L	LN	0.30	mg/L	Yes	No
MW-34C	Compliance	Manganese, dissolved	12	100%	0.96	0.83	mg/L	LN	0.05	mg/L	Yes	No
MW-34C	Compliance	cis-1,2-dichloroethene	12	8.3%	0.54	0.81	ug/L	A*	35	ug/L	No	No

TABLE 3-1: 2012 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2010 through December 31, 2012

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9+, MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-34C	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-34C	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-34C	Compliance	Vinyl Chloride	12	100%	0.32	0.20	ug/L	Z	0.20	ug/L	No	No
MW-34C	Compliance	Ammonia as N	12	75%	0.18	0.12	mg/L	N	0.19	mg/L	No	No
MW-39	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-39	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-39	Compliance	Arsenic, dissolved	12	100%	2.8	1.84	ug/L	N	0.462	ug/L	**Yes**	No
MW-39	Compliance	Iron, dissolved	12	92%	45.0	33.8	mg/L	Z	0.30	mg/L	**Yes**	No
MW-39	Compliance	Manganese, dissolved	12	100%	0.92	0.51	mg/L	Z	0.05	mg/L	**Yes**	No
MW-39	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-39	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-39	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-39	Compliance	Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-39	Compliance	Ammonia as N	12	100%	0.48	0.35	mg/L	N	0.19	mg/L	**Yes**	No
MW-42	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-42	Compliance	1,4-Dichlorobenzene	12	17%	0.50	0.84	ug/L	A*	2.0	ug/L	No	No
MW-42	Compliance	Arsenic, dissolved	12	100%	1.7	1.6	ug/L	Z	0.462	ug/L	**Yes**	No
MW-42	Compliance	Iron, dissolved	12	100%	28	26.6	mg/L	Z	0.30	mg/L	**Yes**	No
MW-42	Compliance	Manganese, dissolved	12	100%	5.4	5.2	mg/L	LN	0.05	mg/L	**Yes**	No
MW-42	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-42	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-42	Compliance	Trichloroethene	12	17%	0.51	0.51	ug/L	A	1.0	ug/L	No	No
MW-42	Compliance	Vinyl Chloride	12	83%	0.15	0.10	ug/L	LN	0.20	ug/L	No	No
MW-42	Compliance	Ammonia as N	12	92%	5.5	4.75	mg/L	Z	0.19	mg/L	**Yes**	No
MW-43	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-43	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No

TABLE 3-1: 2012 Annual Groundwater Cleanup Level Statistical Evaluation Summary

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Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-43	Compliance	Arsenic, dissolved	12	50%	0.05	0.05	ug/L	A	0.462	ug/L	No	No
MW-43	Compliance	Iron, dissolved	12	58%	0.60	0.29	mg/L	N	0.30	mg/L	No	No
MW-43	Compliance	Manganese, dissolved	12	100%	0.37	0.23	mg/L	N	0.05	mg/L	Yes	No
MW-43	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-43	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-43	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-43	Compliance	Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-43	Compliance	Ammonia as N	12	100%	0.18	0.13	mg/L	LN	0.19	mg/L	No	No
MW-29A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-29A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-29A	Downgradient	Arsenic, dissolved	6	100%	1.99	1.88	ug/L	LN	0.462	ug/L	Yes	No
MW-29A	Downgradient	Iron, dissolved	6	100%	4.6	4.27	mg/L	LN	0.30	mg/L	Yes	No
MW-29A	Downgradient	Manganese, dissolved	6	100%	1.5	1.37	mg/L	Z	0.05	mg/L	Yes	No
MW-29A	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-29A	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-29A	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-29A	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-29A	Downgradient	Ammonia as N	6	100%	0.14	0.14	mg/L	Z	0.19	mg/L	No	No
MW-32	Downgradient	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-32	Downgradient	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-32	Downgradient	Arsenic, dissolved	12	100%	11.4	10.5	ug/L	LN	0.462	ug/L	Yes	No
MW-32	Downgradient	Iron, dissolved	12	100%	0.89	0.71	mg/L	Z	0.30	mg/L	Yes	Yes (▼)
MW-32	Downgradient	Manganese, dissolved	12	100%	2.9	2.34	mg/L	Z	0.05	mg/L	Yes	No
MW-32	Downgradient	cis-1,2-dichloroethene	12	8.3%	0.62	0.81	ug/L	A*	35	ug/L	No	No
MW-32	Downgradient	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-32	Downgradient	Trichloroethene	12	33%	0.70	0.70	ug/L	A	1.0	ug/L	No	No
MW-32	Downgradient	Vinyl Chloride	12	100%	0.63	0.45	ug/L	LN	0.20	ug/L	Yes	No

TABLE 3-1: 2012 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2010 through December 31, 2012

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9+, MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-32	Downgradient	Ammonia as N	12	75%	0.17	0.10	mg/L	LN	0.19	mg/L	No	No
MW-33A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-33A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-33A	Downgradient	Arsenic, dissolved	6	100%	0.37	0.26	ug/L	Z	0.462	ug/L	No	No
MW-33A	Downgradient	Iron, dissolved	6	67%	2.1	1.3	mg/L	N	0.30	mg/L	**Yes**	No
MW-33A	Downgradient	Manganese, dissolved	6	100%	0.081	0.08	mg/L	A**	0.05	mg/L	**Yes**	No
MW-33A	Downgradient	cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-33A	Downgradient	Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-33A	Downgradient	Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-33A	Downgradient	Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-33A	Downgradient	Ammonia as N	6	83%	0.28	0.25	mg/L	N	0.19	mg/L	**Yes**	No
MW-33C	Downgradient	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-33C	Downgradient	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-33C	Downgradient	Arsenic, dissolved	12	100%	2.7	2.59	ug/L	Z	0.462	ug/L	**Yes**	No
MW-33C	Downgradient	Iron, dissolved	12	0%	0.06(ND)	0.06	mg/L	B	0.3	mg/L	No	No
MW-33C	Downgradient	Manganese, dissolved	12	100%	0.15	0.14	mg/L	Z	0.05	mg/L	**Yes**	No
MW-33C	Downgradient	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-33C	Downgradient	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-33C	Downgradient	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-33C	Downgradient	Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-33C	Downgradient	Ammonia as N	12	67%	0.15	0.14	mg/L	LN	0.19	mg/L	No	No
MW-36A	Downgradient	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-36A	Downgradient	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-36A	Downgradient	Arsenic, dissolved	12	100%	1.02	0.91	ug/L	LN	0.462	ug/L	**Yes**	No
MW-36A	Downgradient	Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.3	mg/L	No	No
MW-36A	Downgradient	Manganese, dissolved	12	67%	0.018	0.02	mg/L	LN	0.05	mg/L	No	No

TABLE 3-1: 2012 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2010 through December 31, 2012

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9[+], MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-36A	Downgradient	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-36A	Downgradient	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-36A	Downgradient	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-36A	Downgradient	Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
MW-36A	Downgradient	Ammonia as N	12[8]	75%	0.077	0.07	mg/L	LN	0.19	mg/L	No	No

NOTES:

[+] Well MW-9 is no longer routinely sampled and no longer included on this table

[1] N = number of data points used for UCL calculation of the mean; only SIM results used for Vinyl Chloride (e.g., duplicate results with higher RLs by non-SIM were omitted).

[2] MAX = maximum detected result in the data set; if no detected results, then = maximum reporting limit for non-detect results (indicated with ND).

[3] A 3-year moving data set is used for calculation of the UCL.

[4] ug/L - micrograms per liter; mg/L = milligrams per liter.

[5] Groundwater Cleanup Levels are listed on Table 3 of the October 2010 Draft Cleanup Action Plan.

[6] Trend analysis results are based on data for the period January 2005 through December 2011; arrows indicated increasing (▲) or decreasing (▼) trends.

[7] For MW-15R, gross outlier of 0.31 mg/L from 6-7-12 sampling event was removed prior to UCL calculation

[8] For MW-36A, gross outlier of 0.30 mg/L from 6-7-12 sampling event was removed prior to UCL calculation

A = Detection frequency of data set too low to calculate 95% UCL of mean; therefore, the highest detected result in the data set used to represent 95% UCL of mean.

A* = Same as note "A" except that the highest value in the data set is below the reporting limit of one or more non-detected results; therefore, the highest reporting limit is used to represent the 95% UCL of the mean.

A** = MTCAStat suggests use of lognormal formula but calculation of 95% UCL of mean by Land's formula provides unrealistic result; therefore, the highest detected result is used to represent the 95% UCL of the mean.

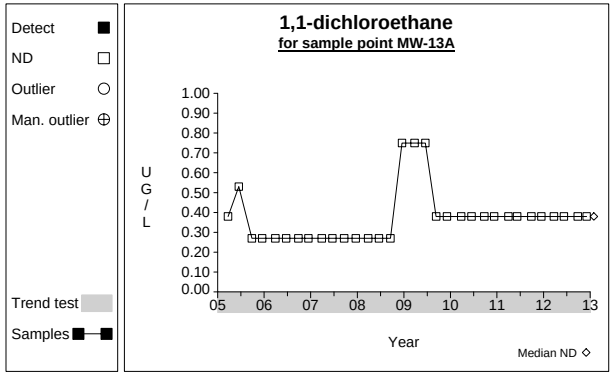
B = Detection frequency = 0; therefore, the highest reporting limit in the data set is used to represent the 95% UCL of mean.

LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.

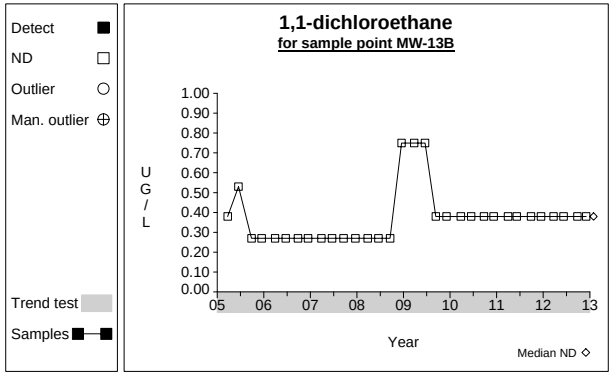
N = The 95% UCL of the mean is calculated using a normal-based t-statistic since a normal distribution is indicated.

Z = the 95% UCL of the mean is calculated using the Z-score method in MTCAStat since neither normal nor lognormal distribution can be determined.

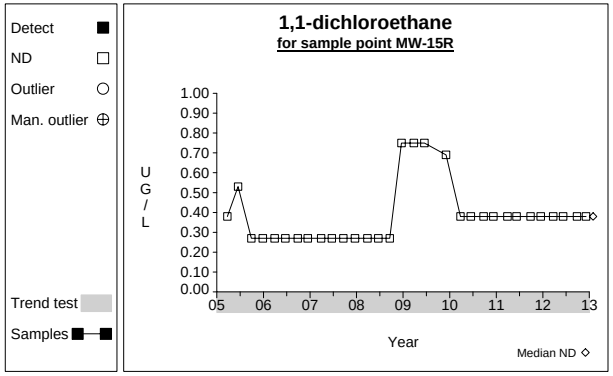
Time Series



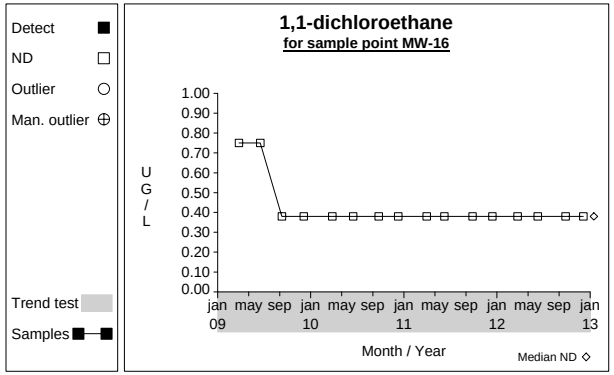
Graph 1



Graph 2



Graph 3



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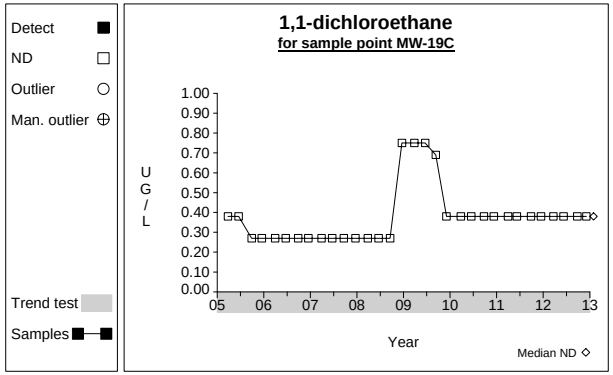

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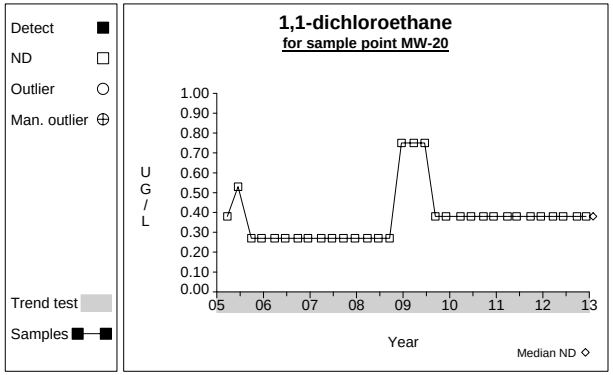

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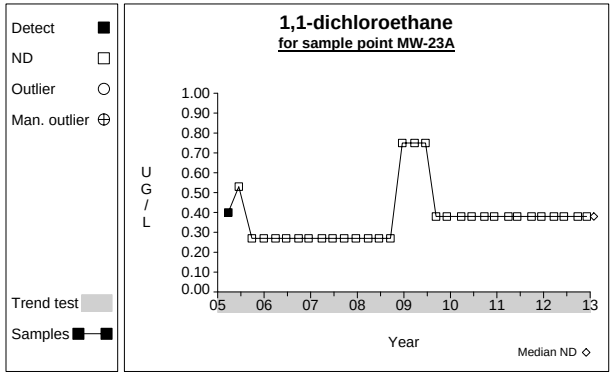
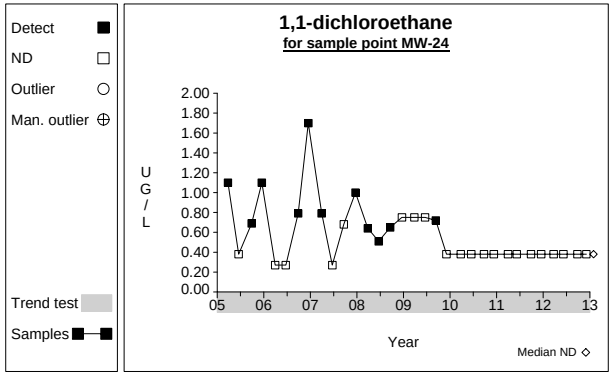


Graph 7



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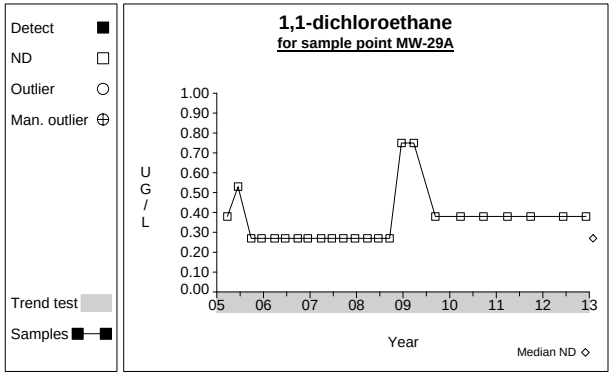
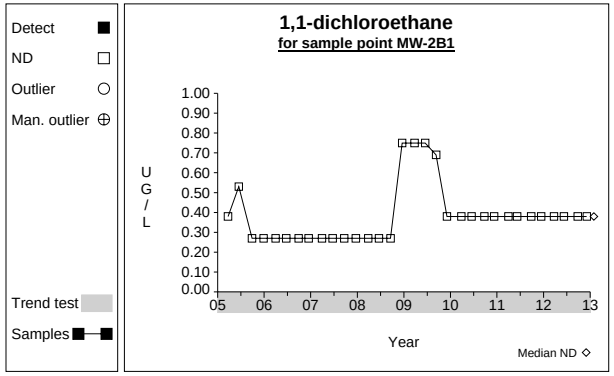
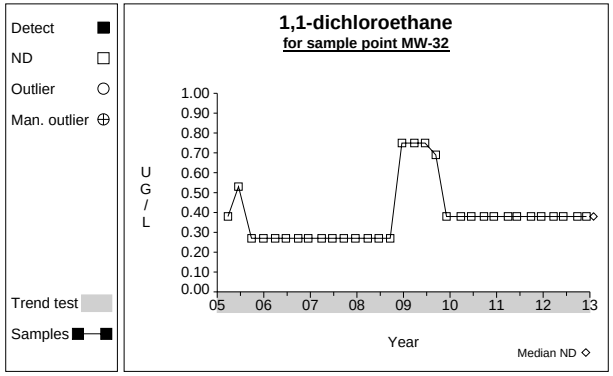


Graph 9

Time Series



Graph 10



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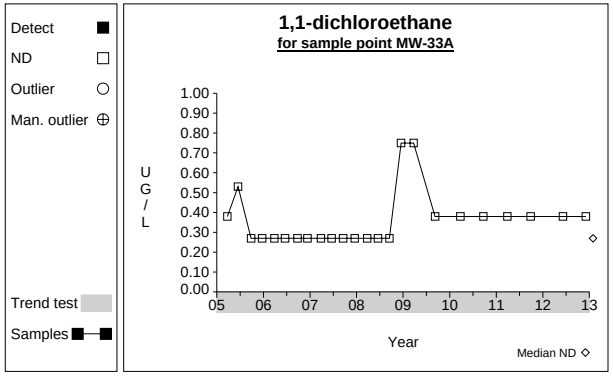

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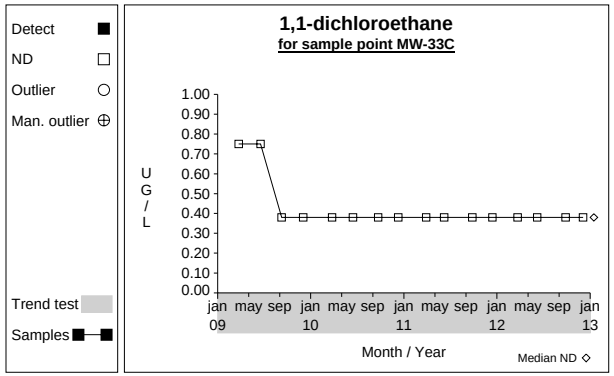

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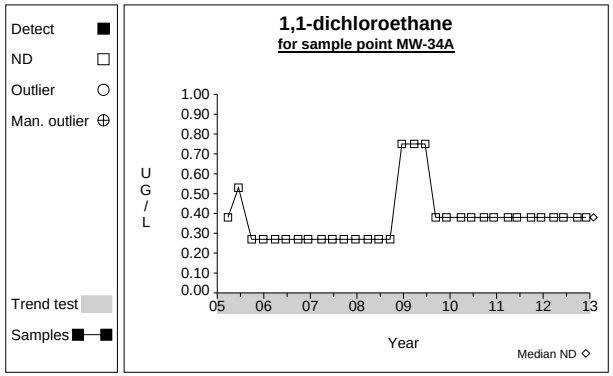

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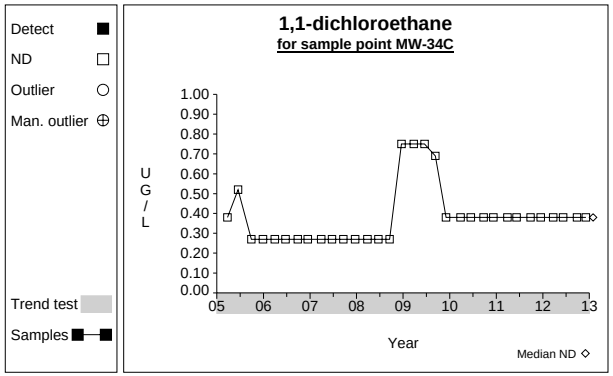

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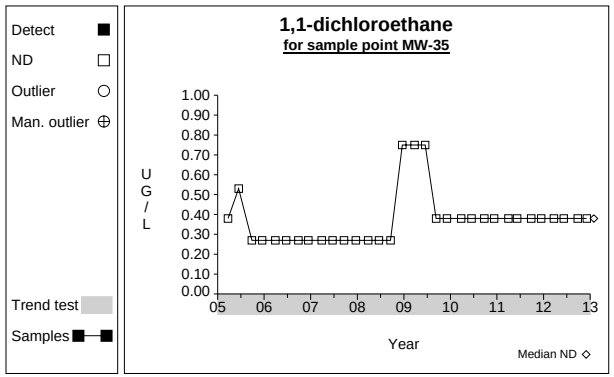

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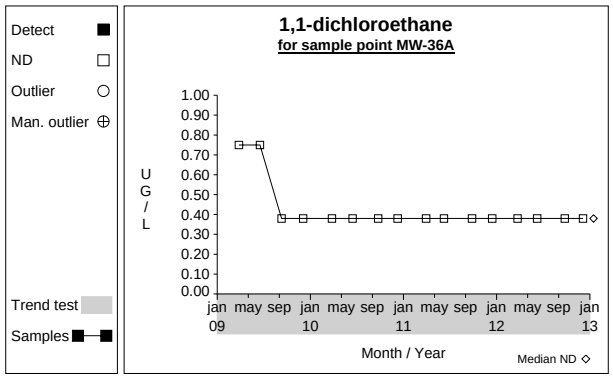

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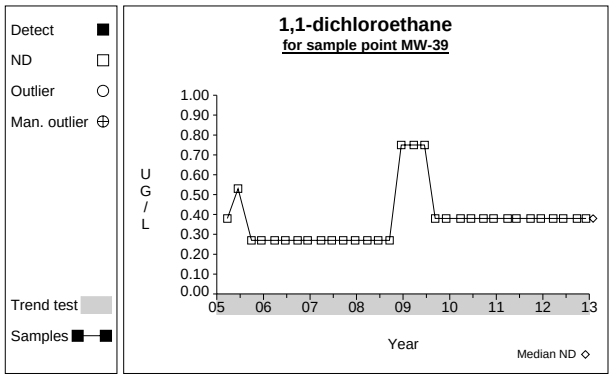
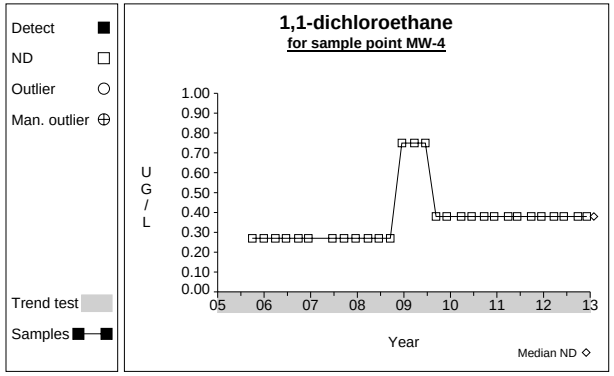


Graph 18

Time Series



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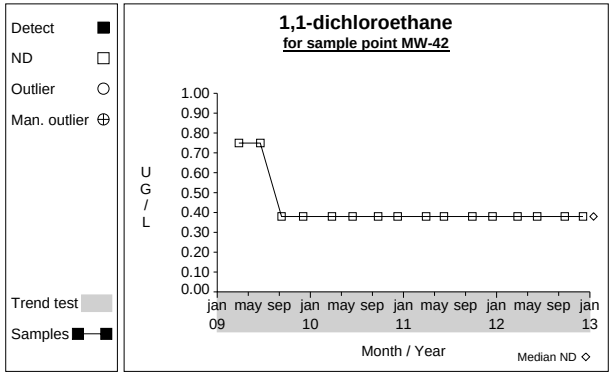

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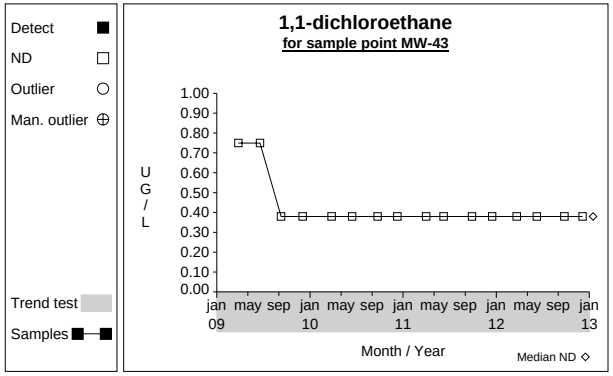

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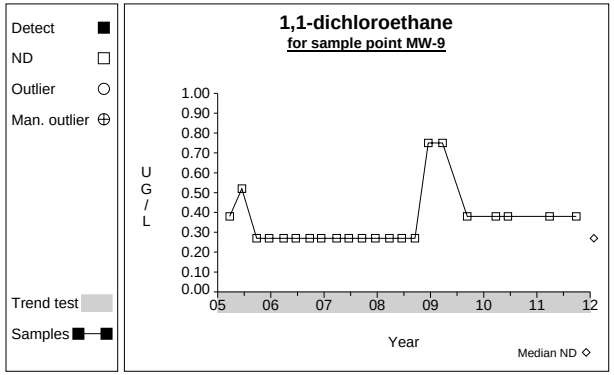

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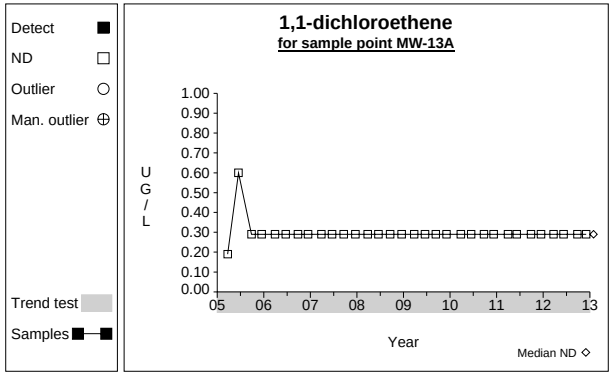

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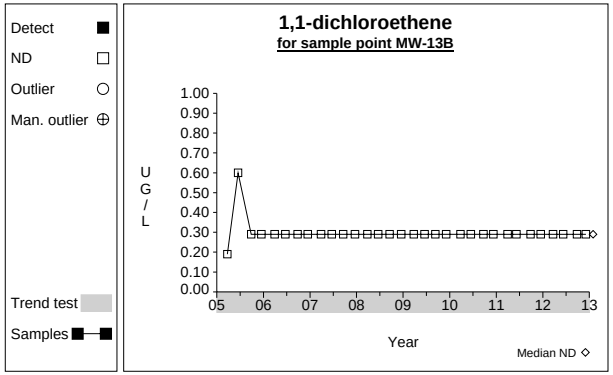

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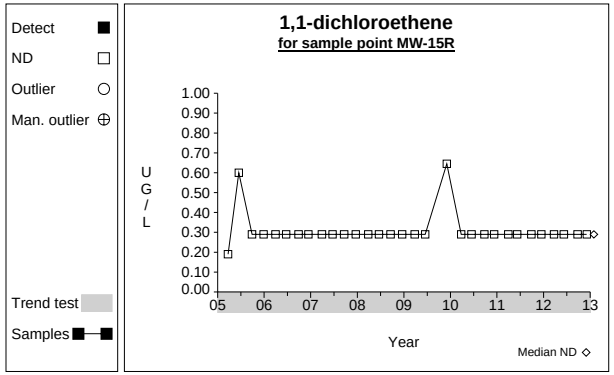

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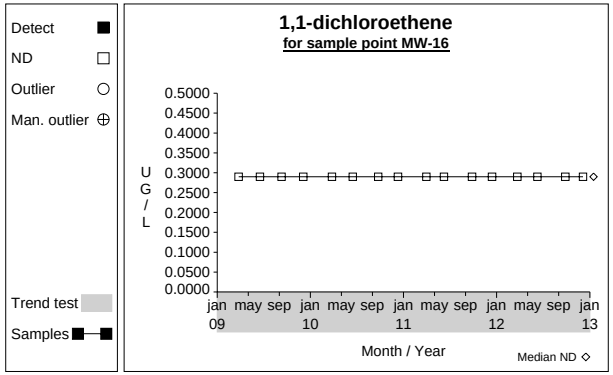

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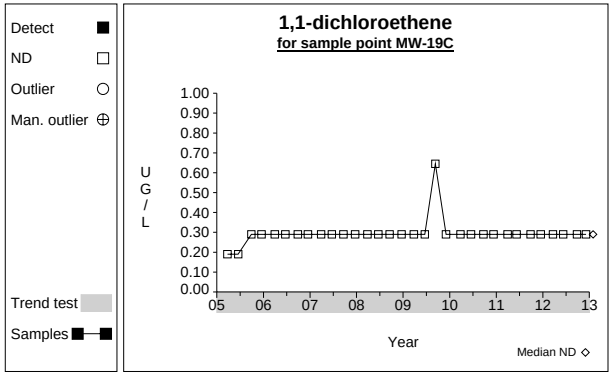
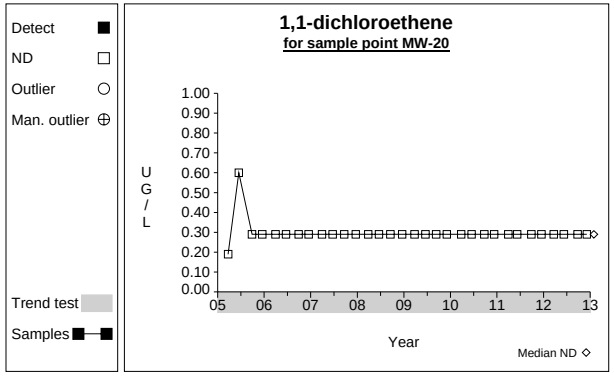


Graph 27

Time Series



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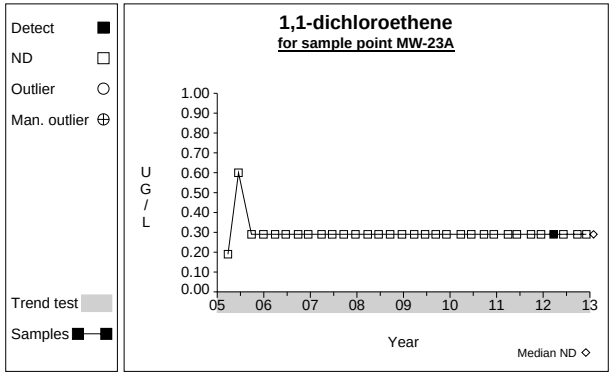

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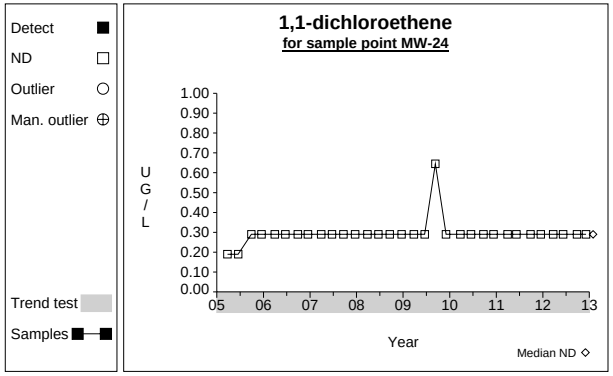

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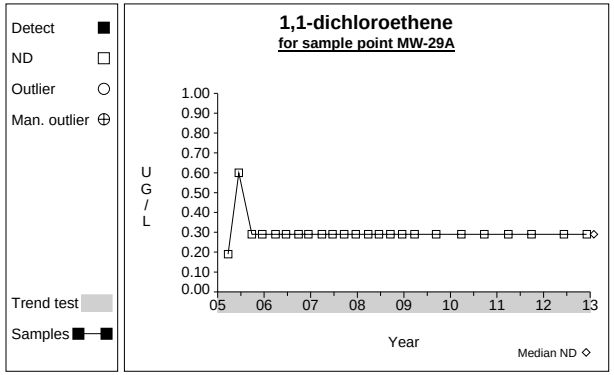

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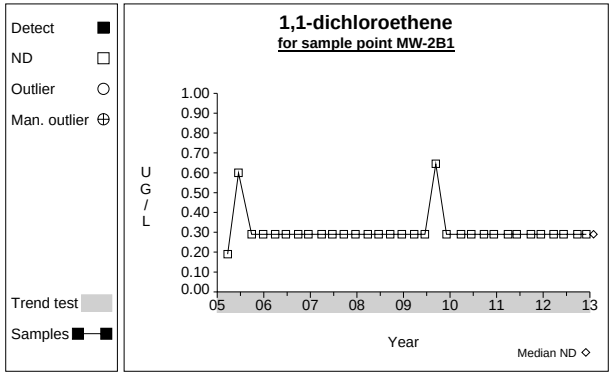

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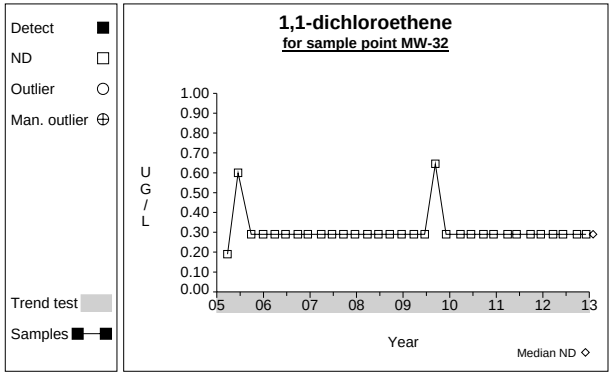
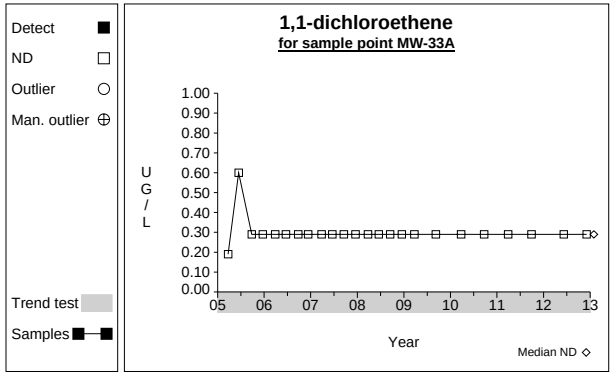
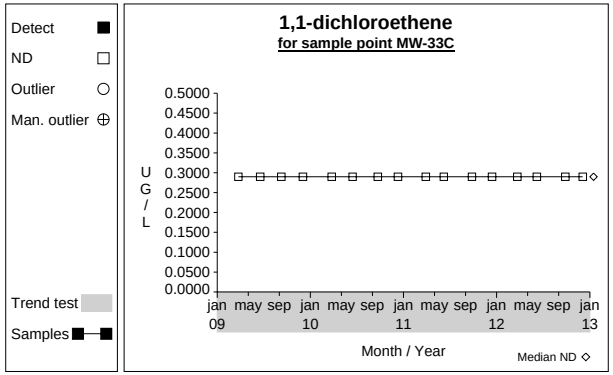


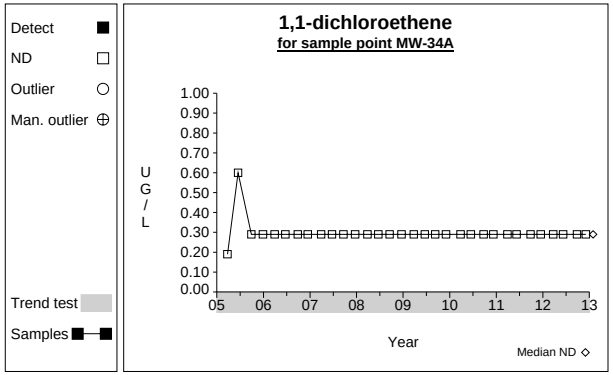
Graph 33



Graph 34

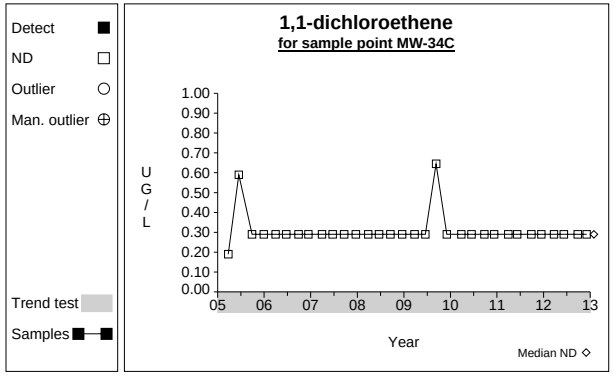


Graph 35

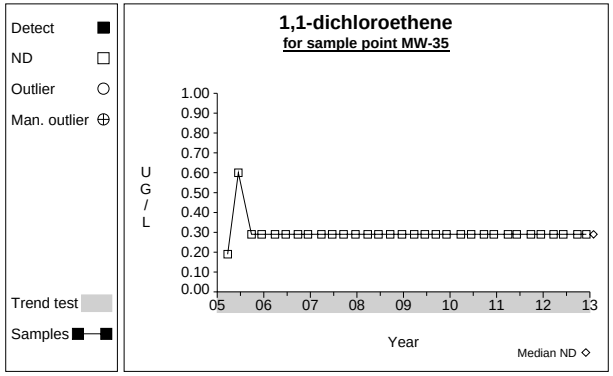


Graph 36

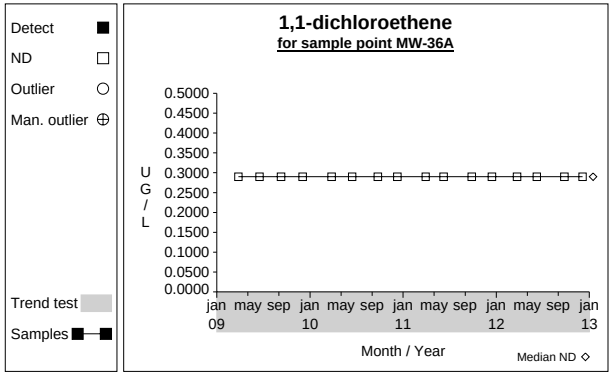
Time Series



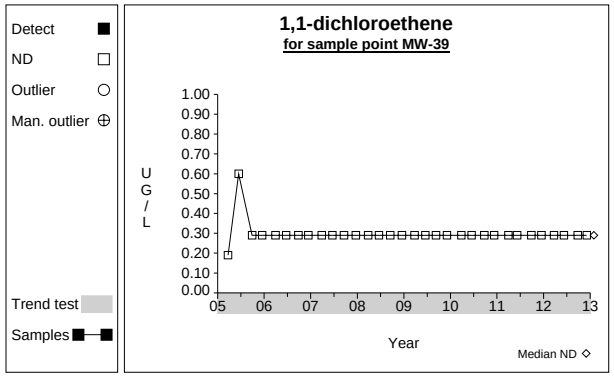
Graph 37



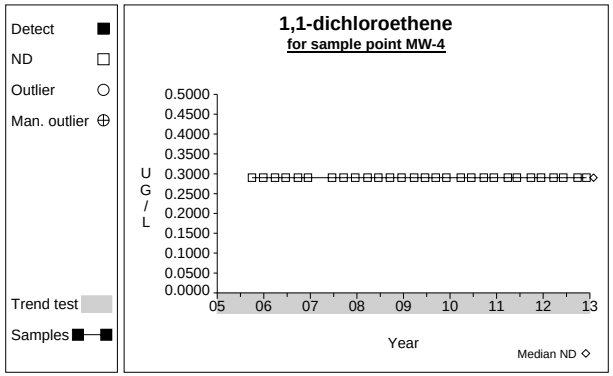
Graph 38



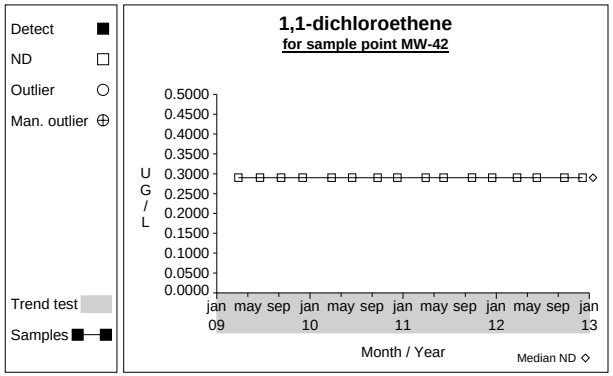
Graph 39



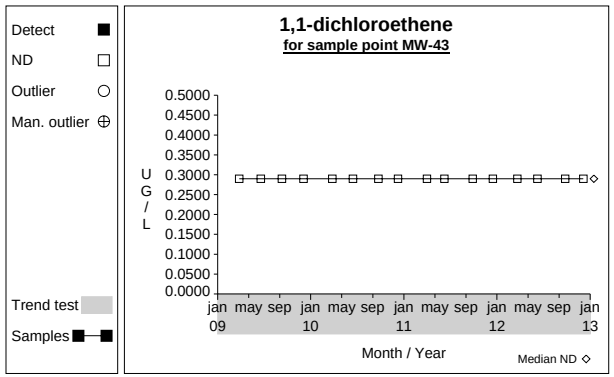
Graph 40



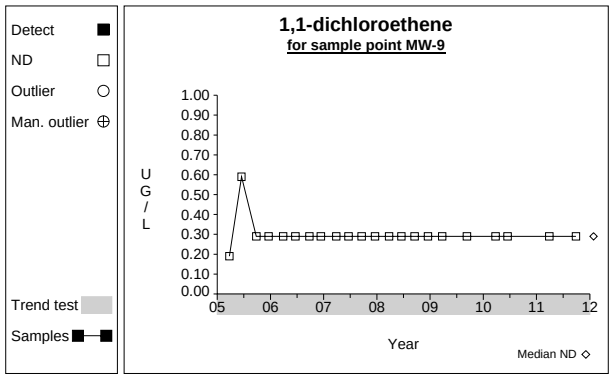
Graph 41



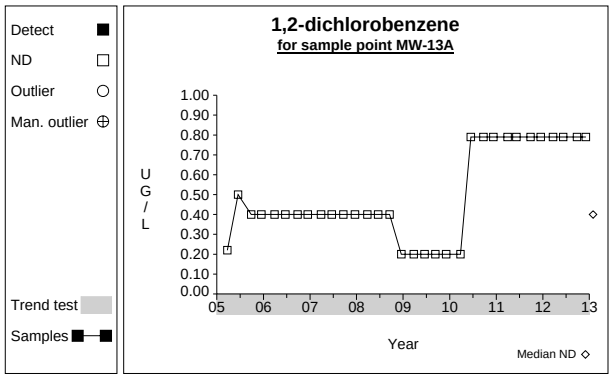
Graph 42



Graph 43

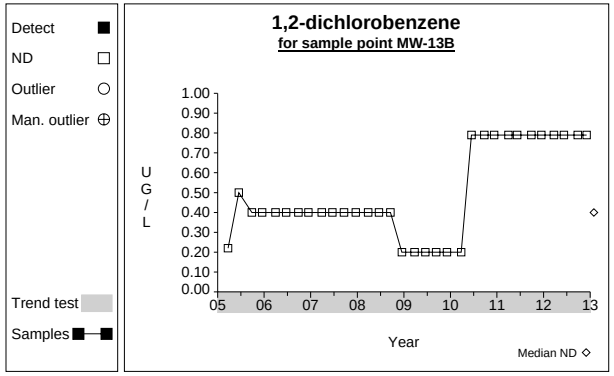


Graph 44

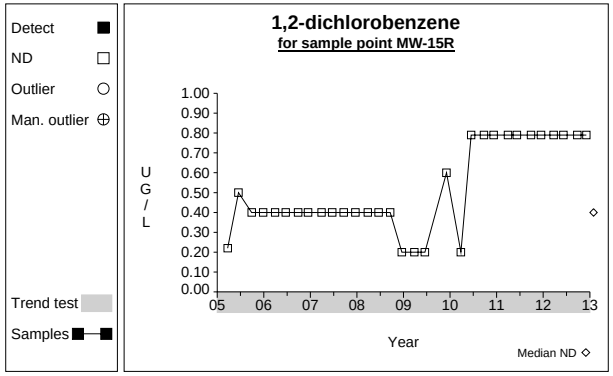


Graph 45

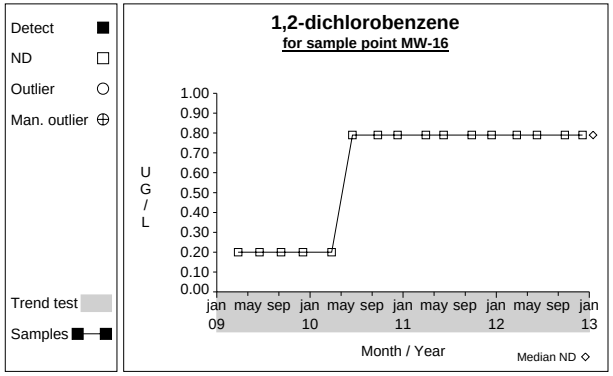
Time Series



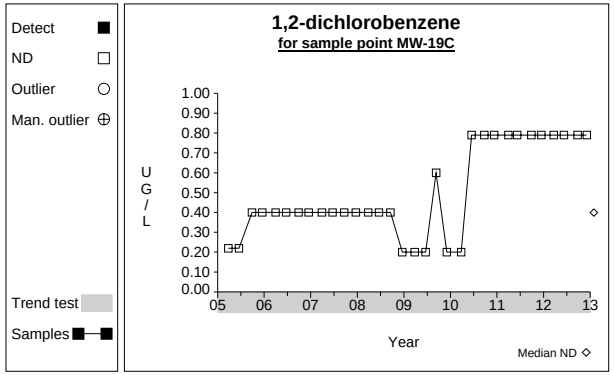
Graph 46



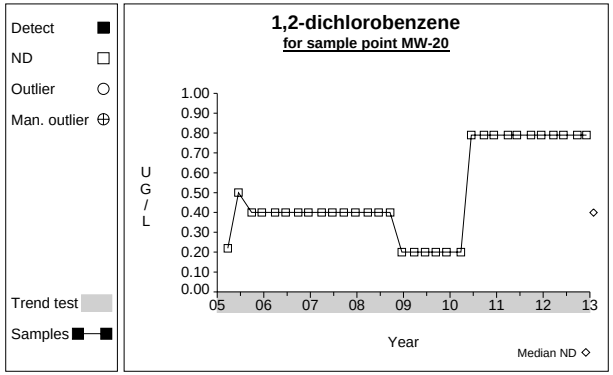
Graph 47



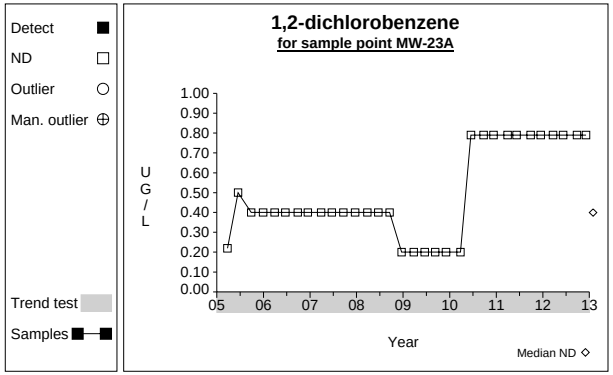
Graph 48



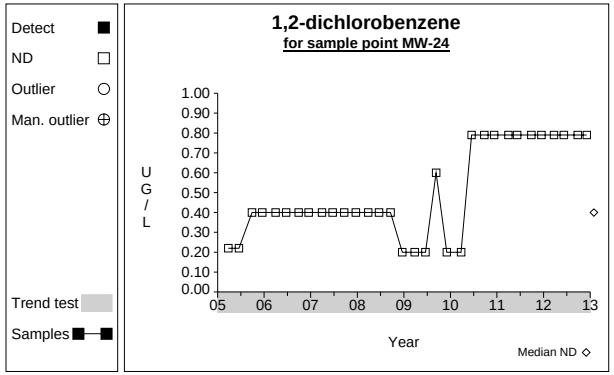
Graph 49



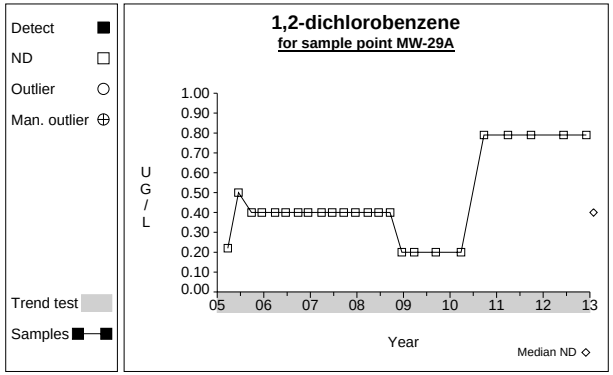
Graph 50



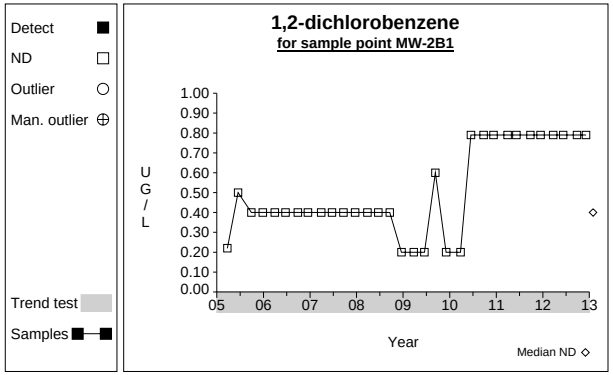
Graph 51



Graph 52

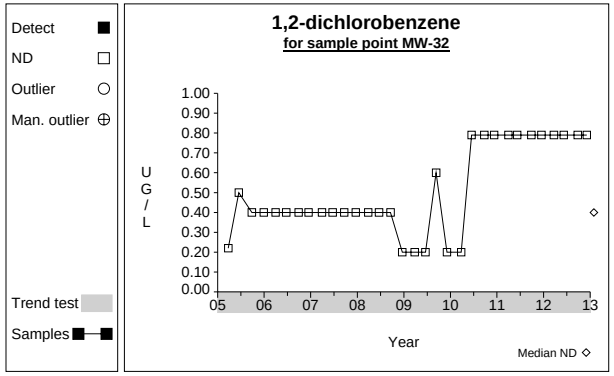


Graph 53

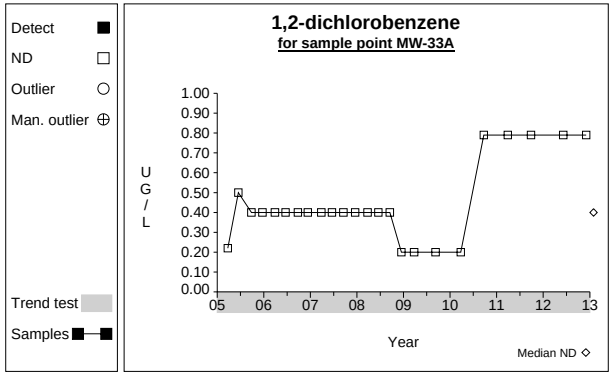


Graph 54

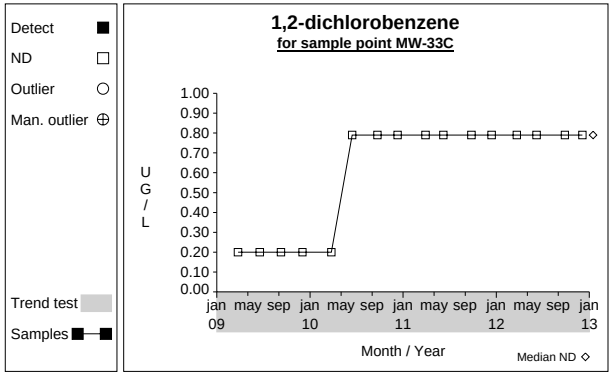
Time Series



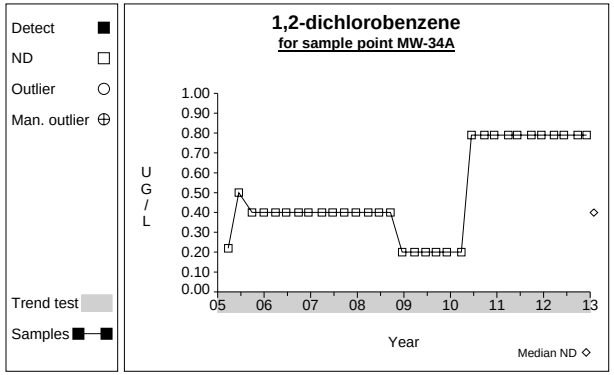
Graph 55



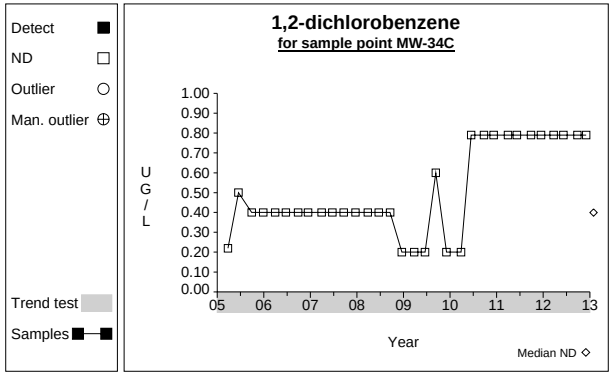
Graph 56



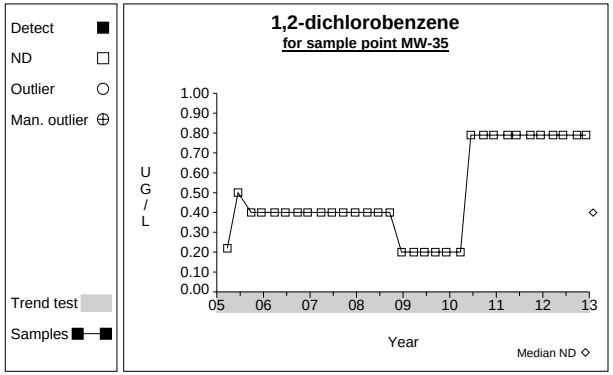
Graph 57



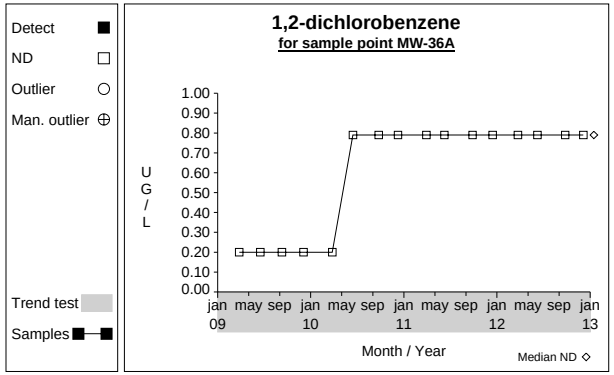
Graph 58



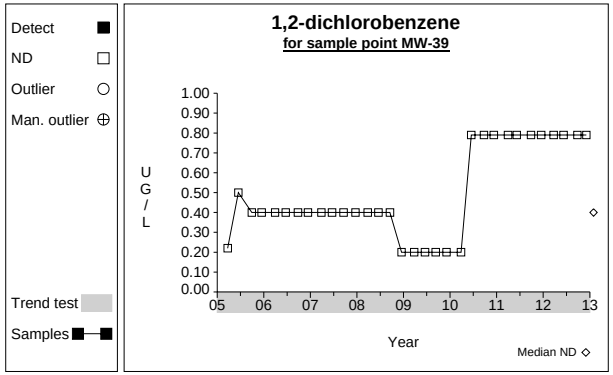
Graph 59



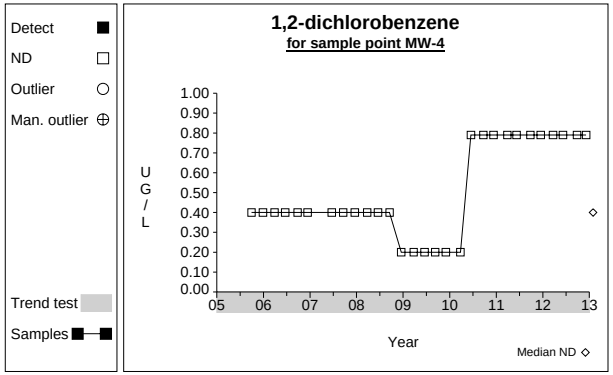
Graph 60



Graph 61

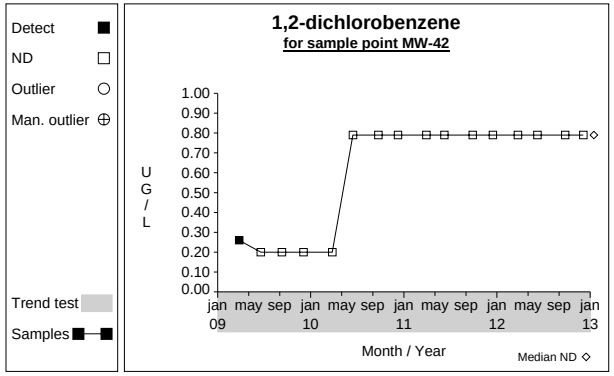


Graph 62

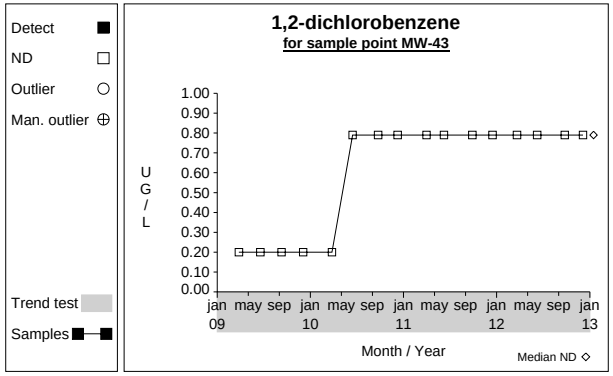


Graph 63

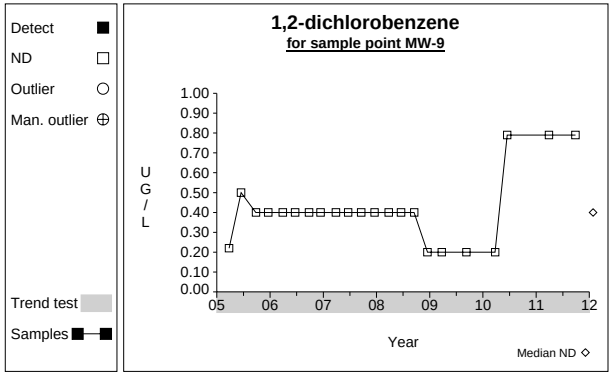
Time Series



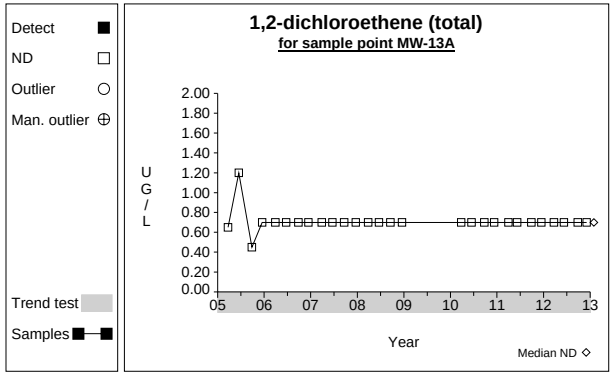
Graph 64



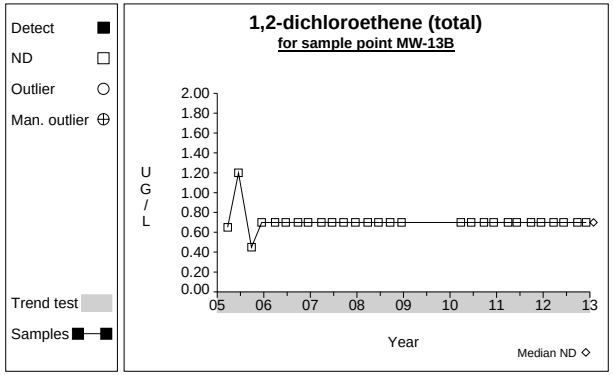
Graph 65



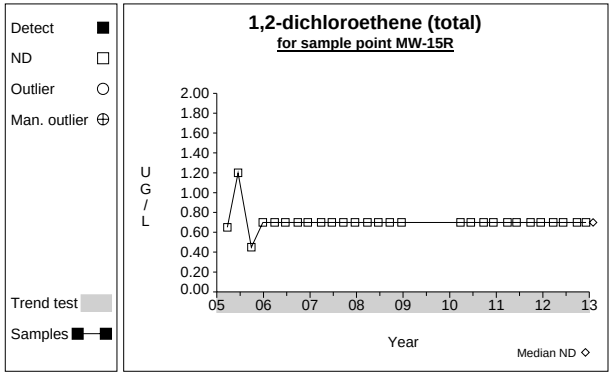
Graph 66



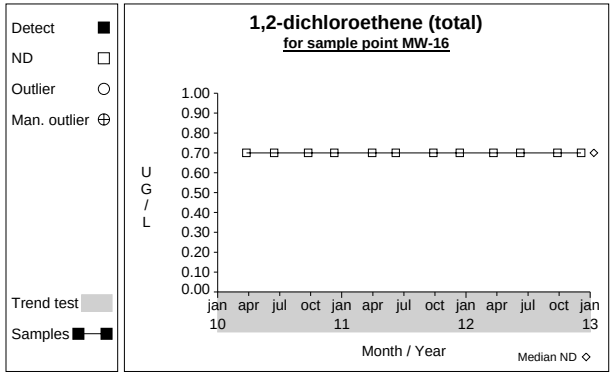
Graph 67



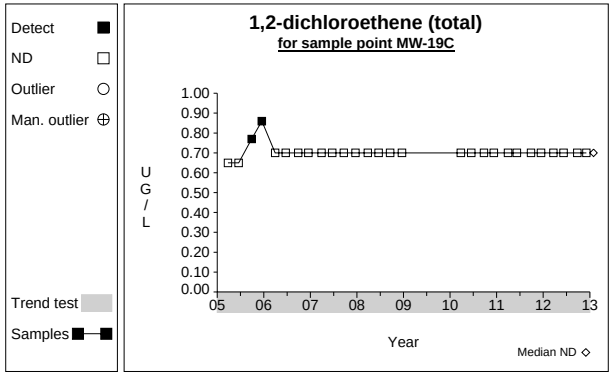
Graph 68



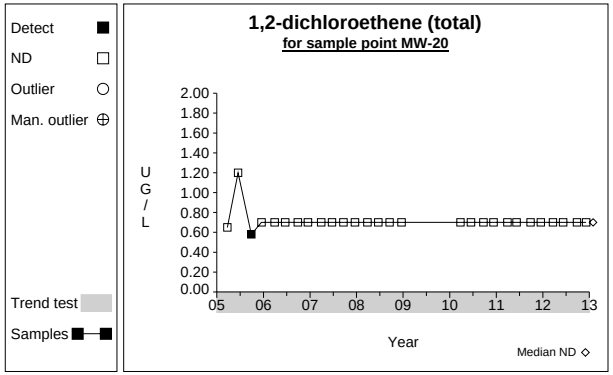
Graph 69



Graph 70

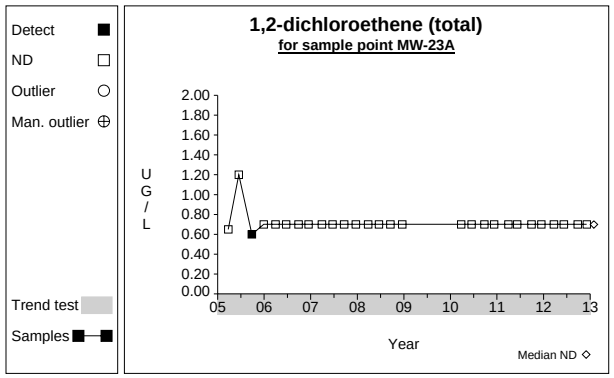


Graph 71

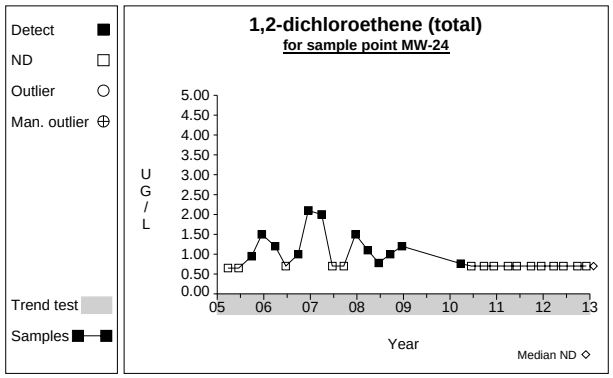


Graph 72

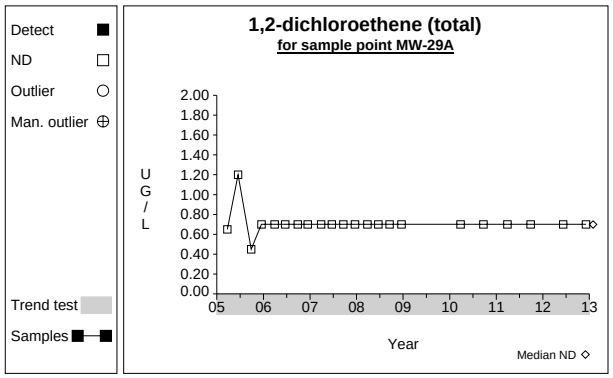
Time Series



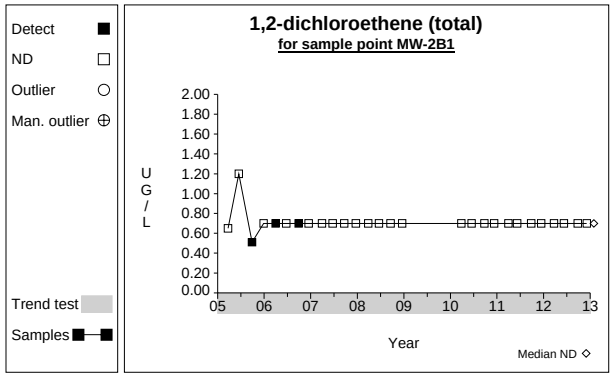
Graph 73



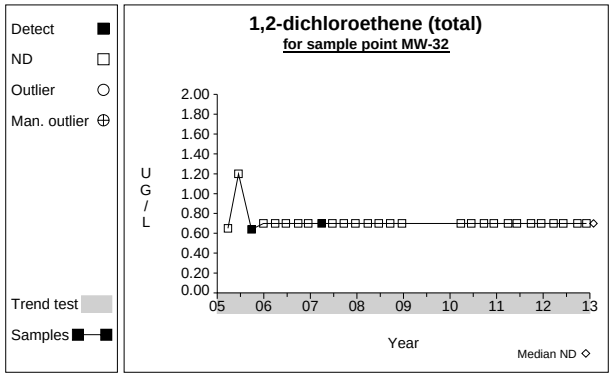
Graph 74



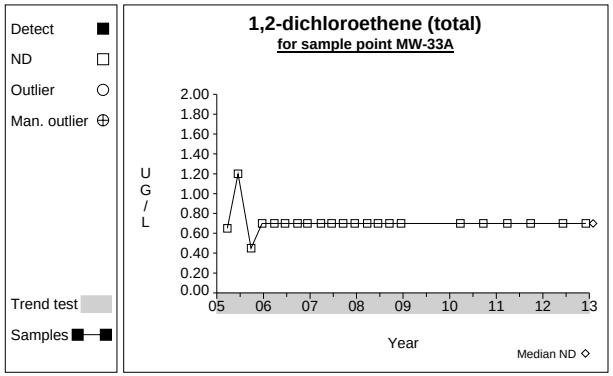
Graph 75



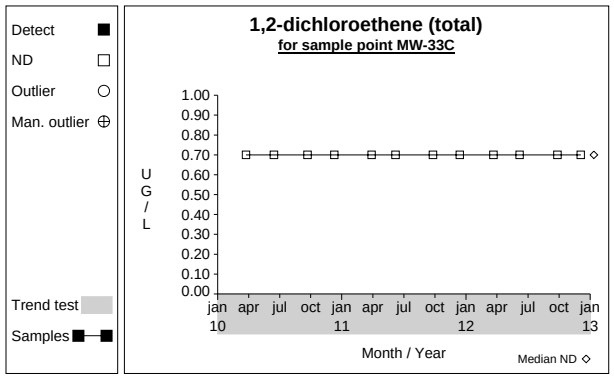
Graph 76



Graph 77



Graph 78



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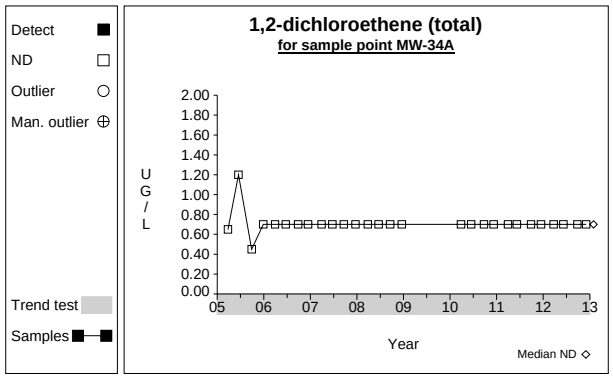
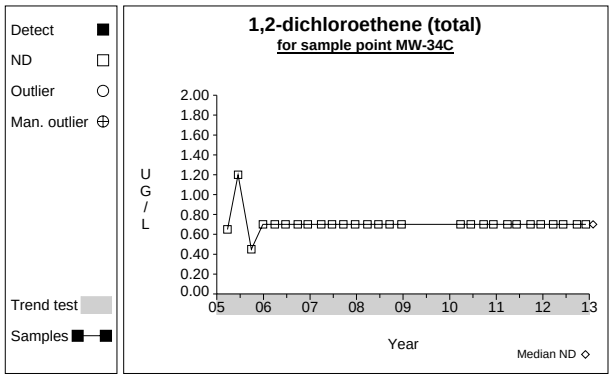
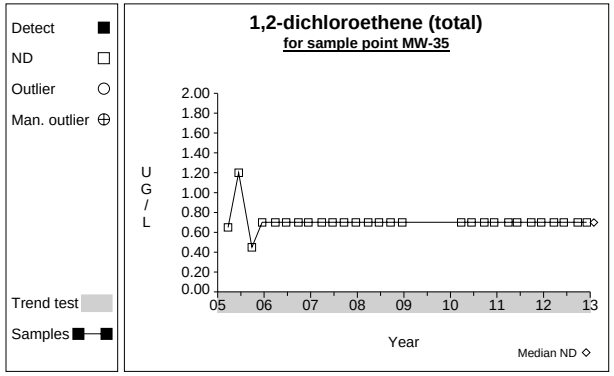


Graph 80

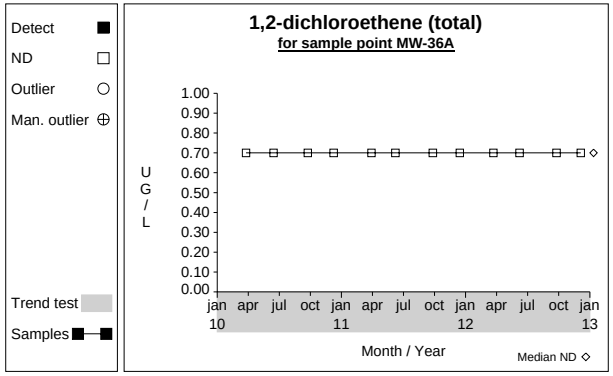


Graph 81

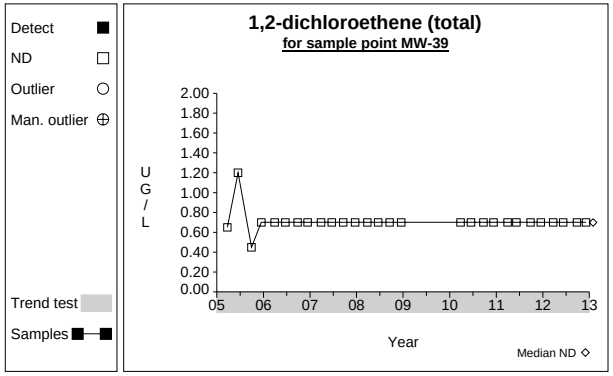
Time Series



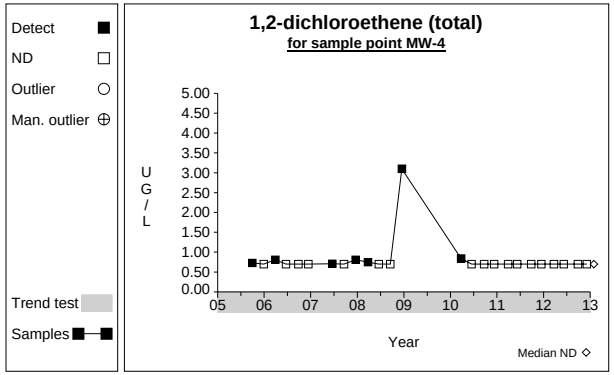
Graph 82



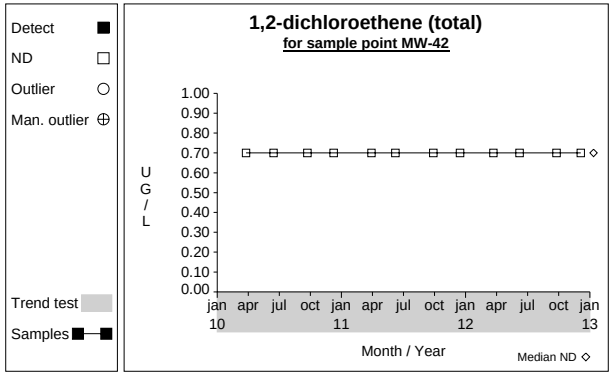
Graph 83



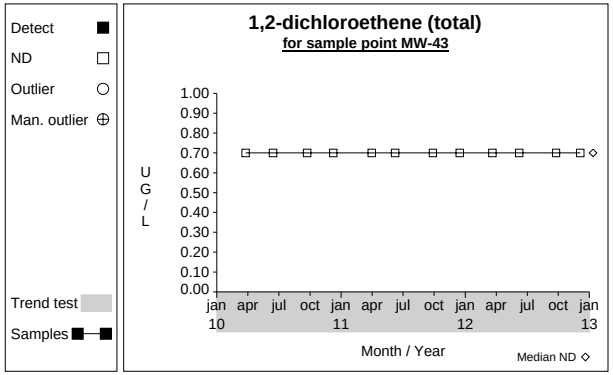
Graph 84



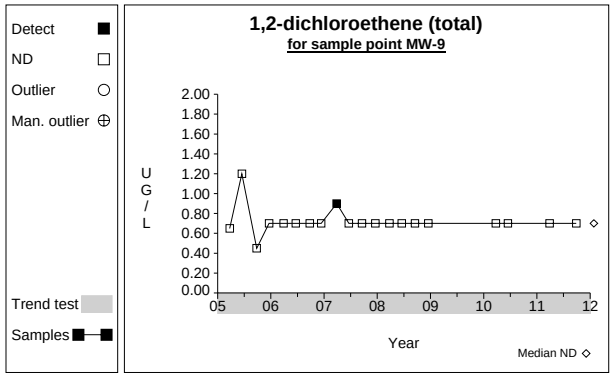
Graph 85



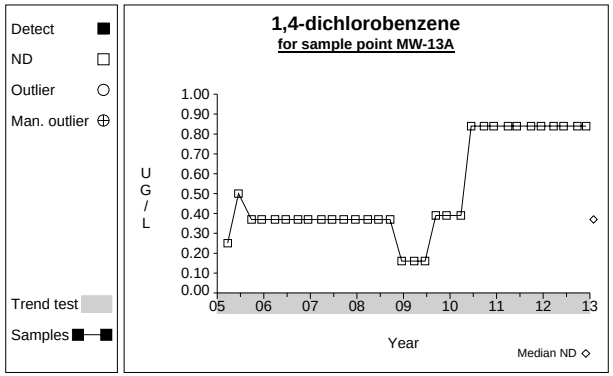
Graph 86



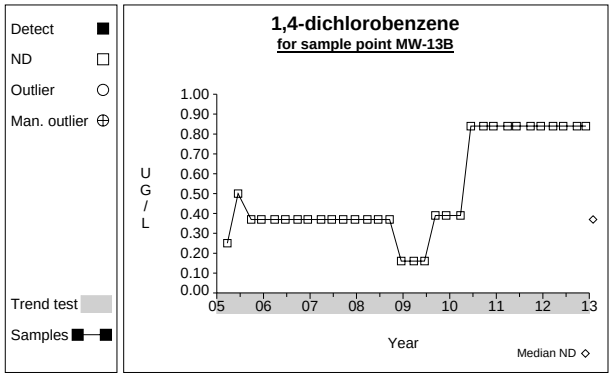
Graph 87



Graph 88

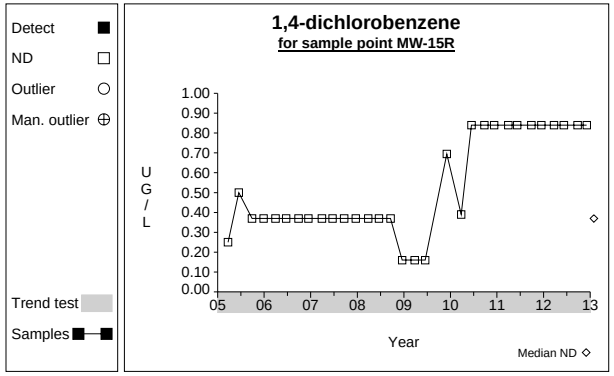


Graph 89

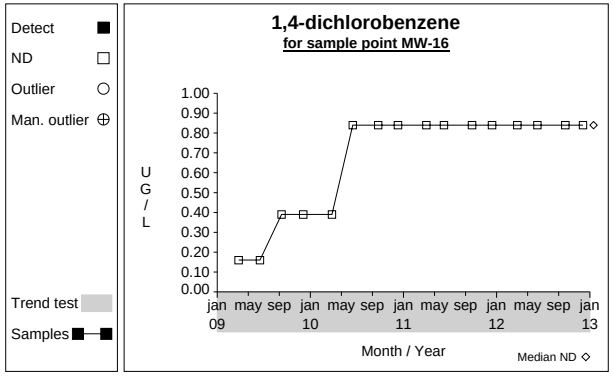


Graph 90

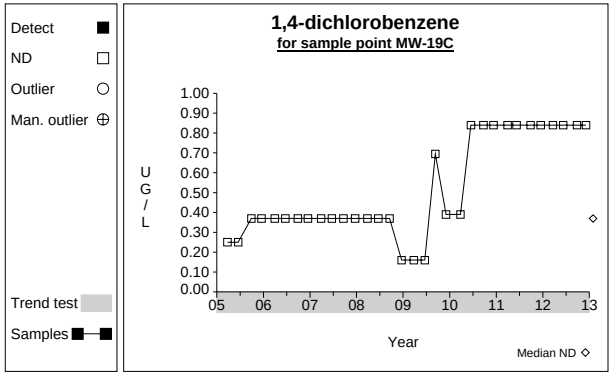
Time Series



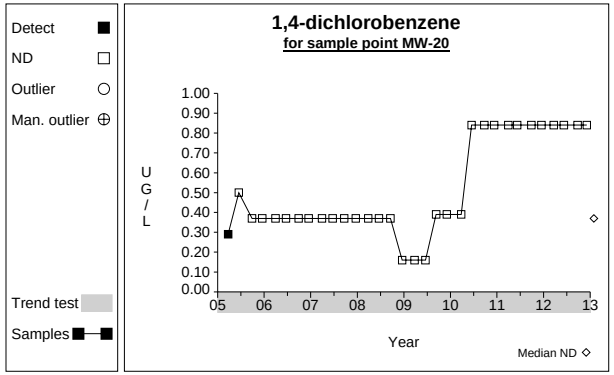
Graph 91



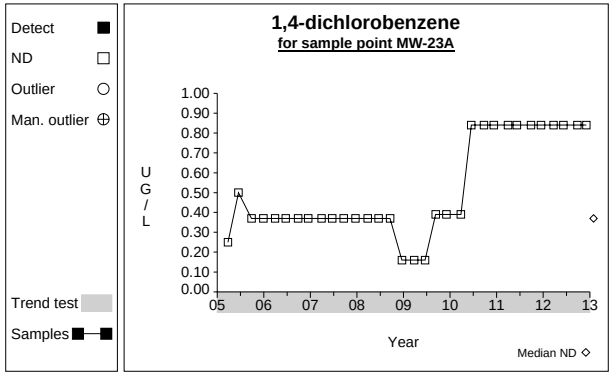
Graph 92



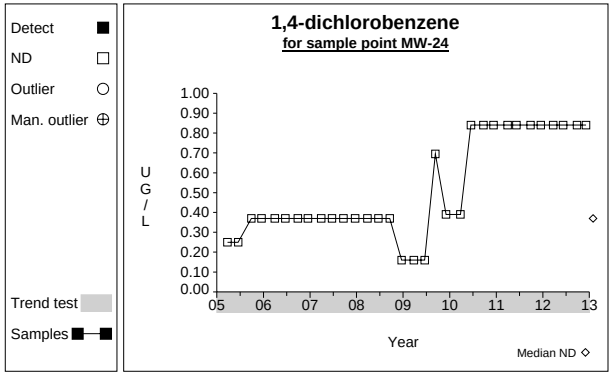
Graph 93



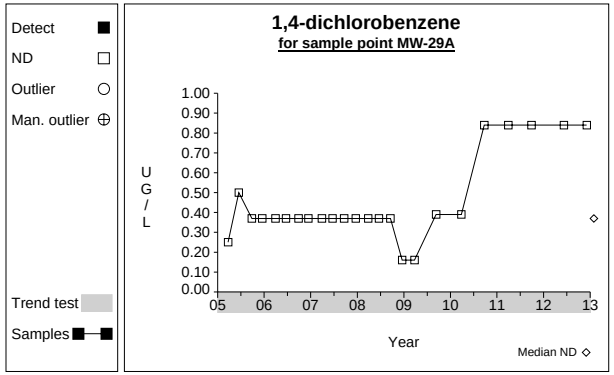
Graph 94



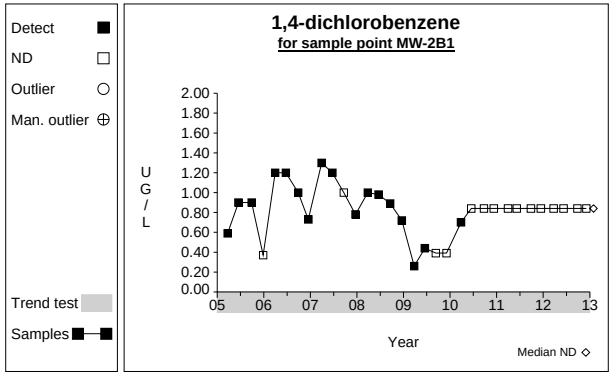
Graph 95



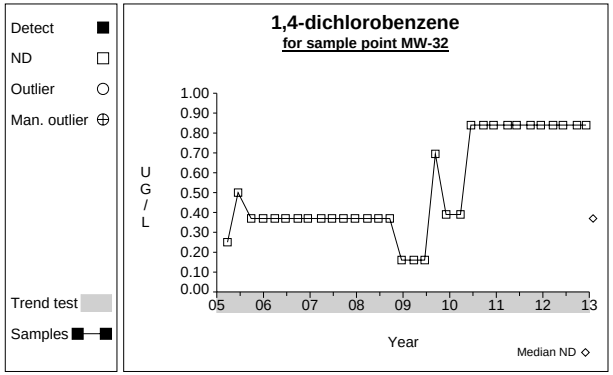
Graph 96



Graph 97

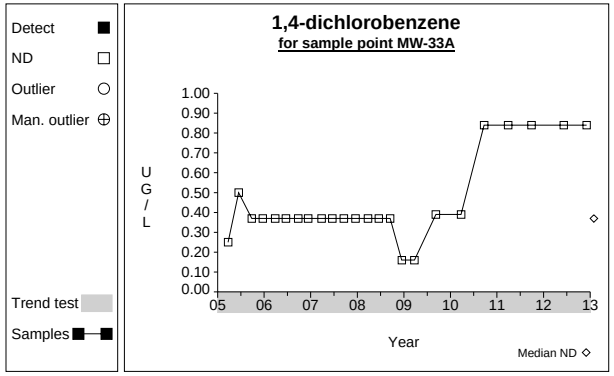


Graph 98

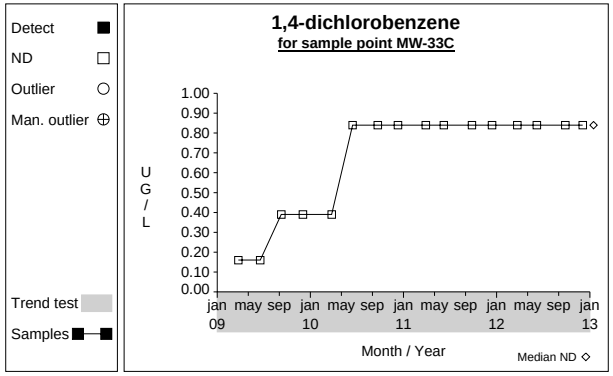


Graph 99

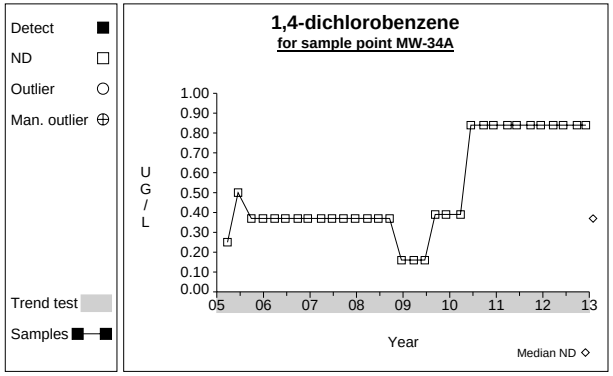
Time Series



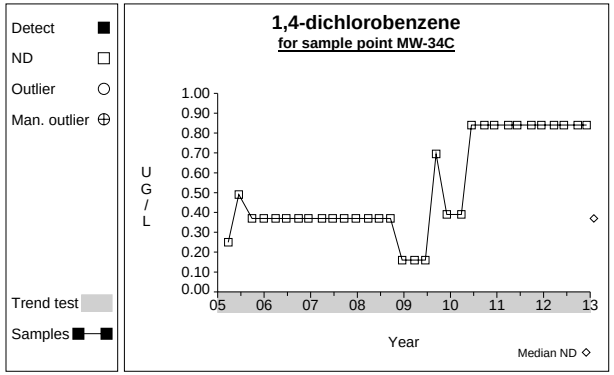
Graph 100



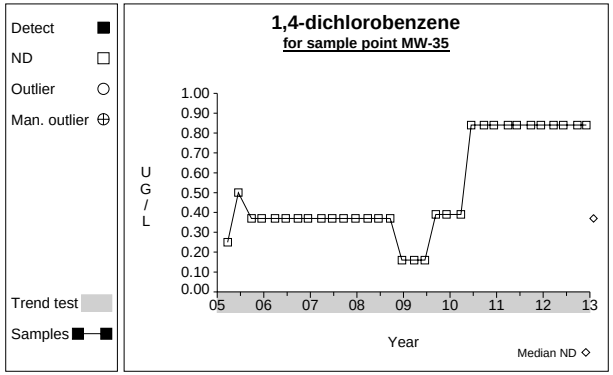
Graph 101



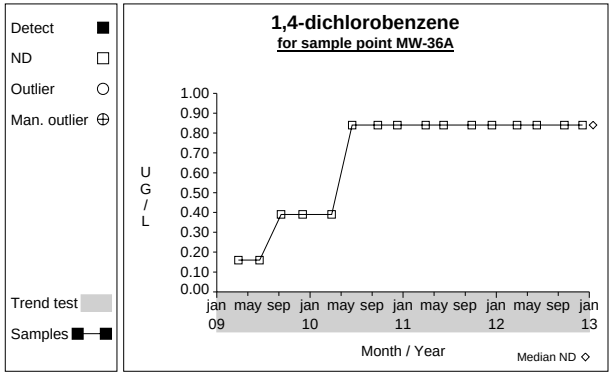
Graph 102



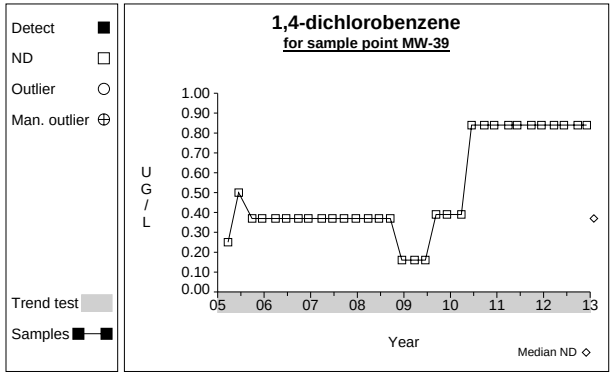
Graph 103



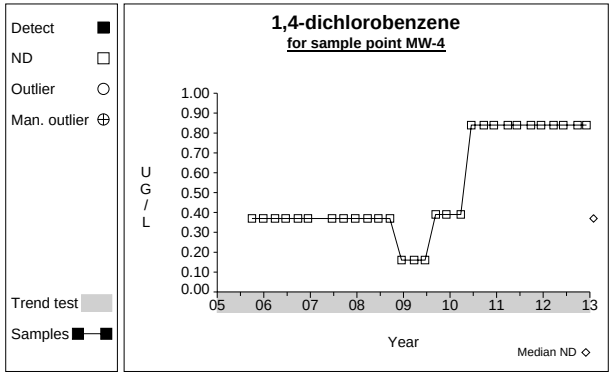
Graph 104



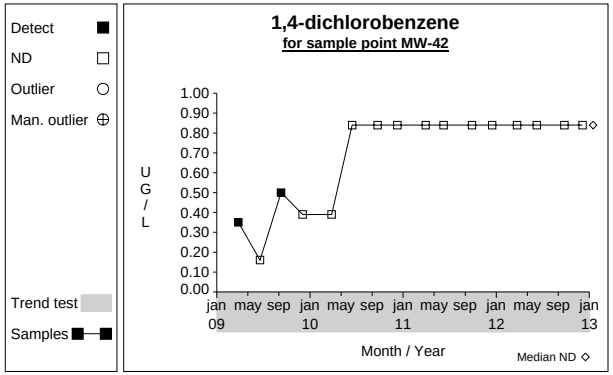
Graph 105



Graph 106

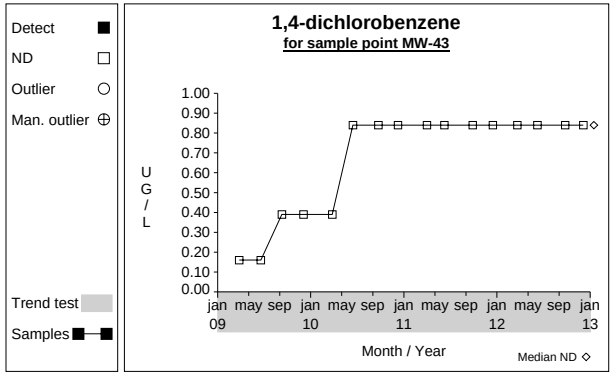


Graph 107

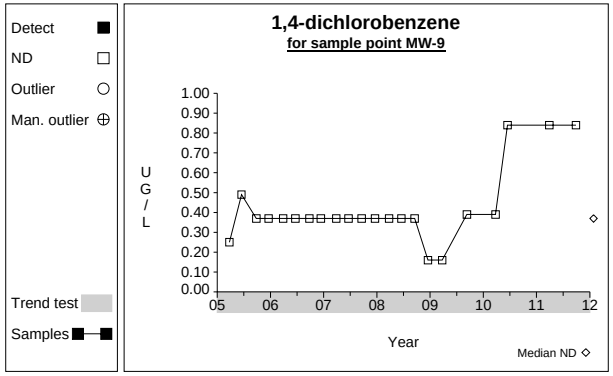


Graph 108

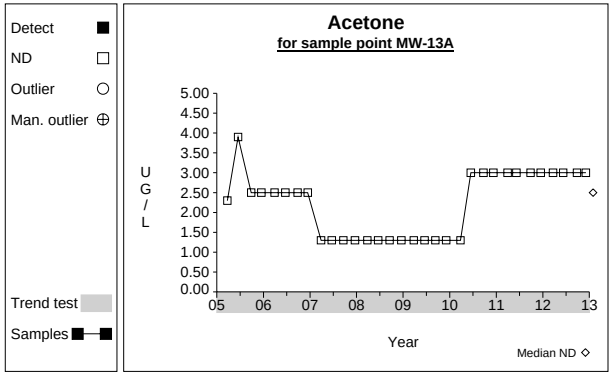
Time Series



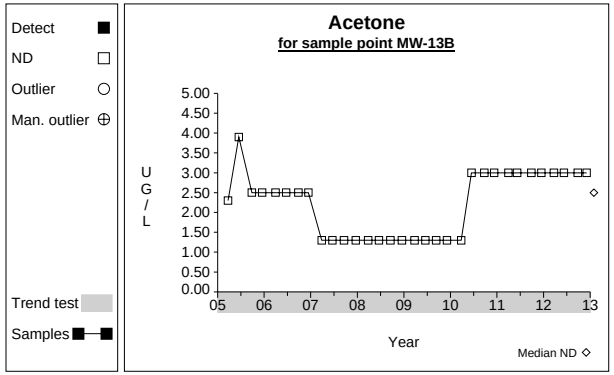
Graph 109



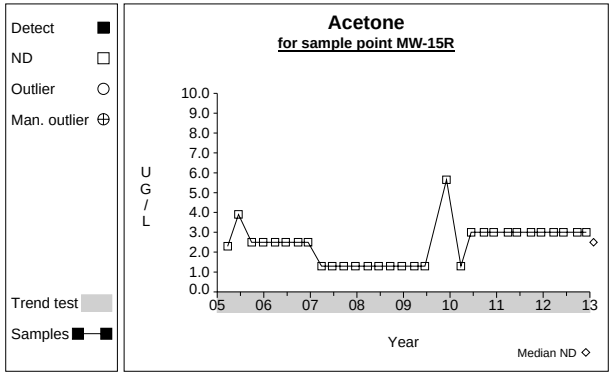
Graph 110



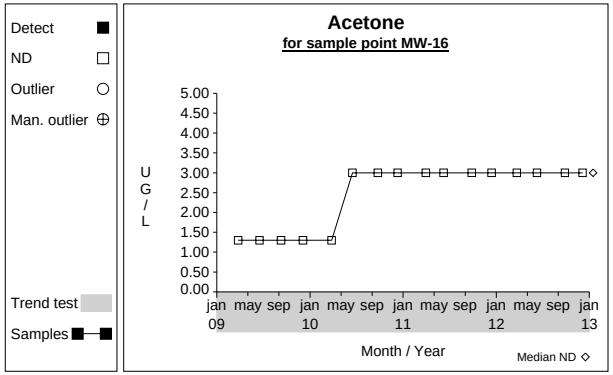
Graph 111



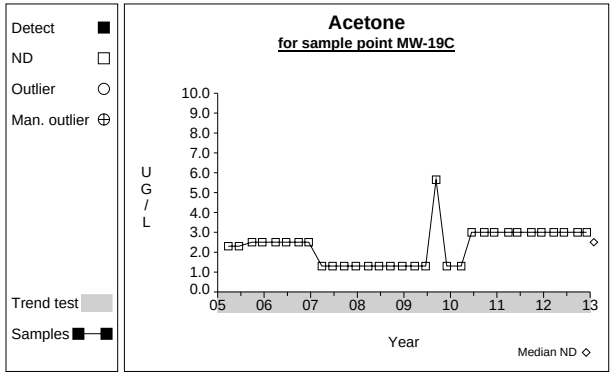
Graph 112



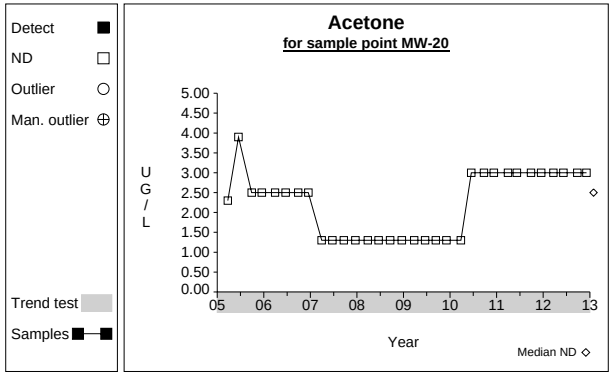
Graph 113



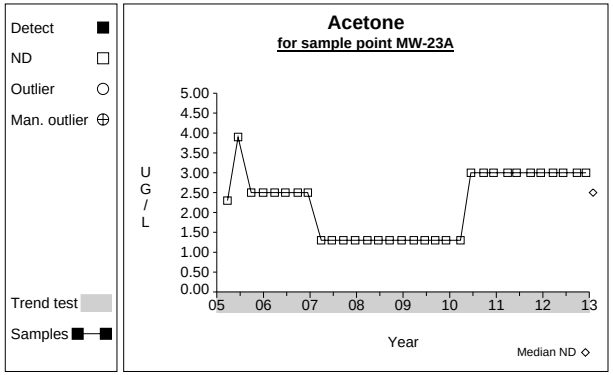
Graph 114



Graph 115

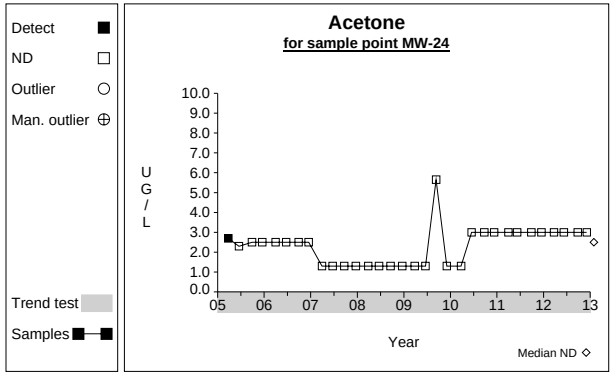


Graph 116

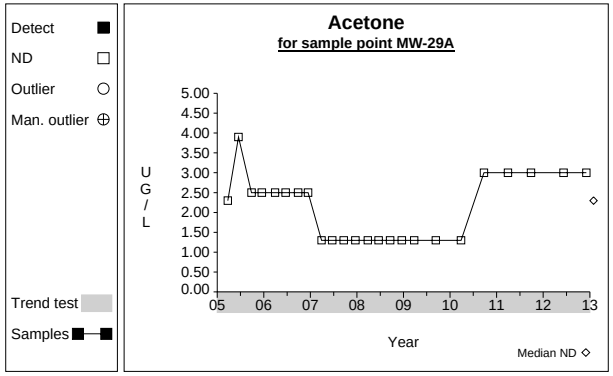


Graph 117

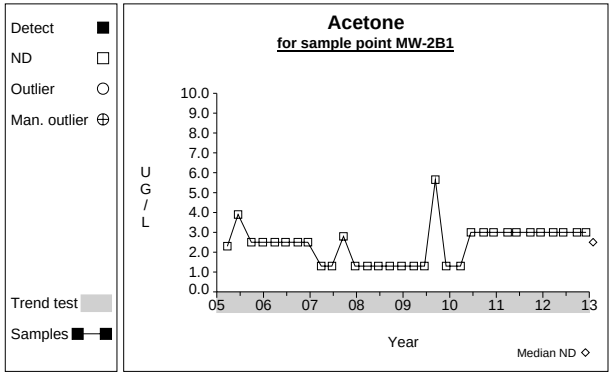
Time Series



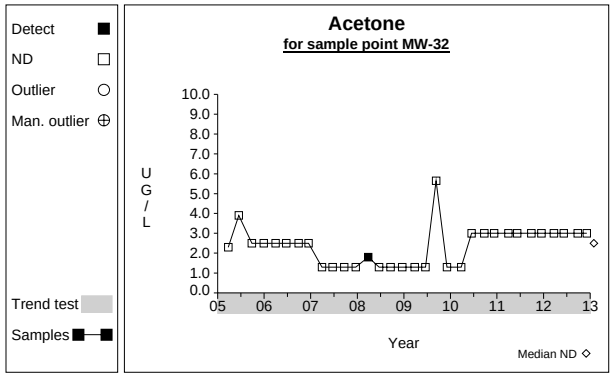
Graph 118



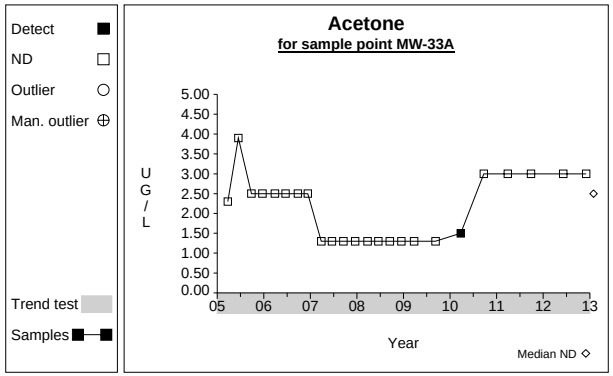
Graph 119



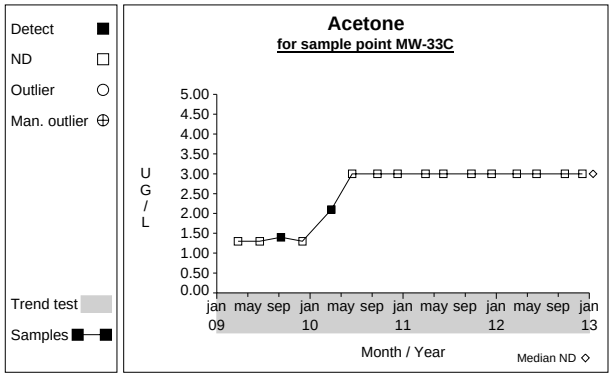
Graph 120



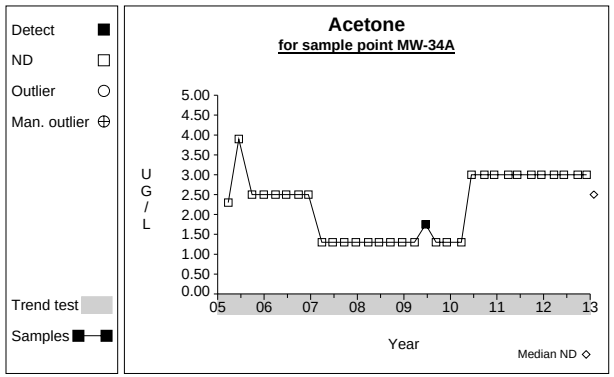
Graph 121



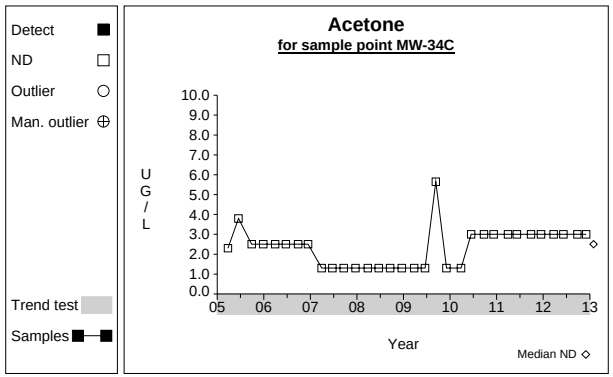
Graph 122



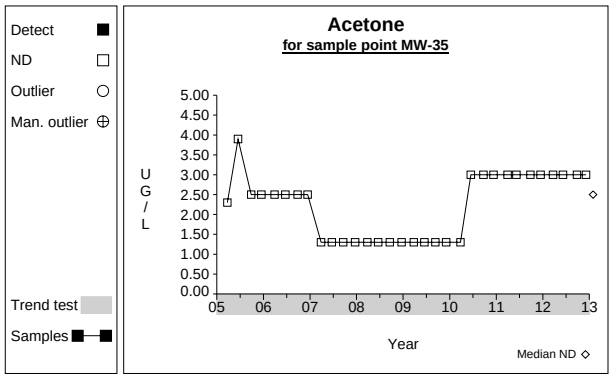
Graph 123



Graph 124

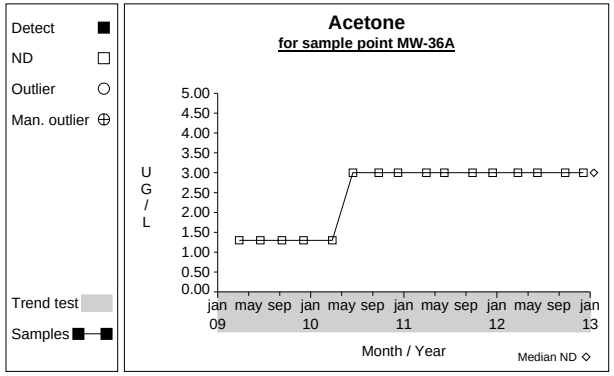


Graph 125

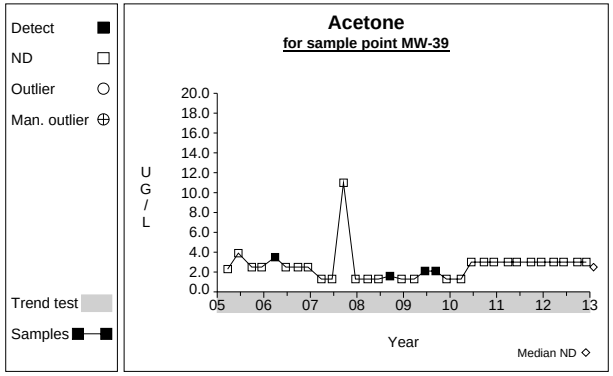


Graph 126

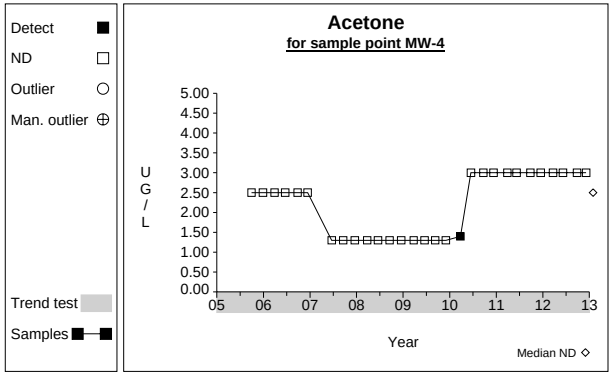
Time Series



Graph 127



Graph 128



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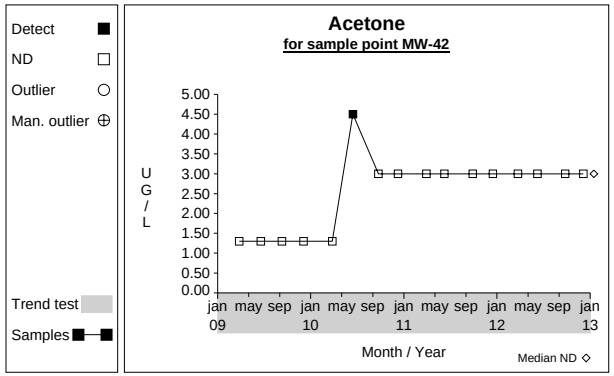
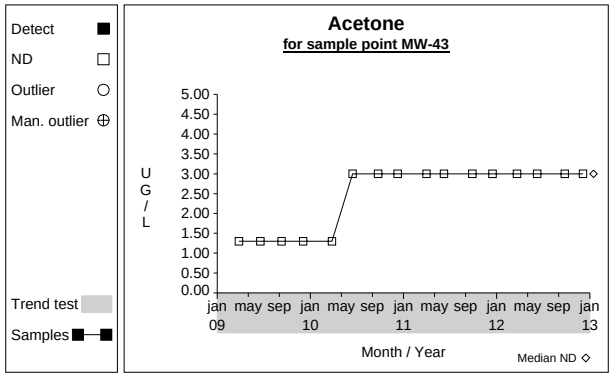
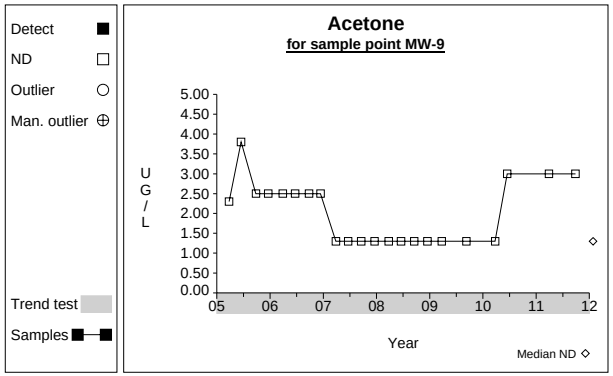


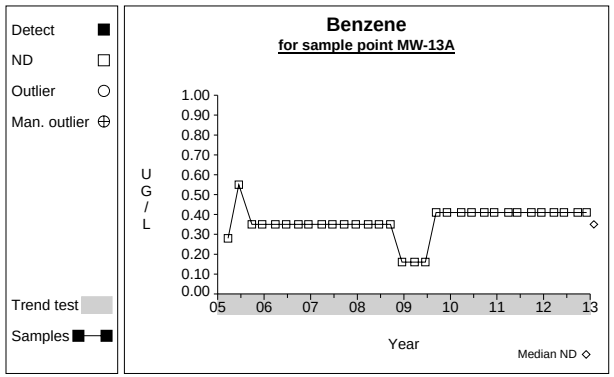
Graph 130



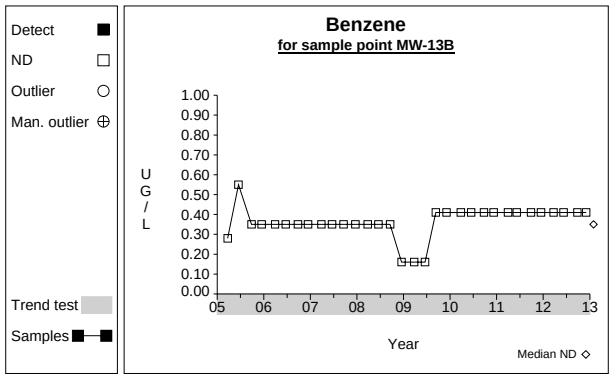
Graph 131



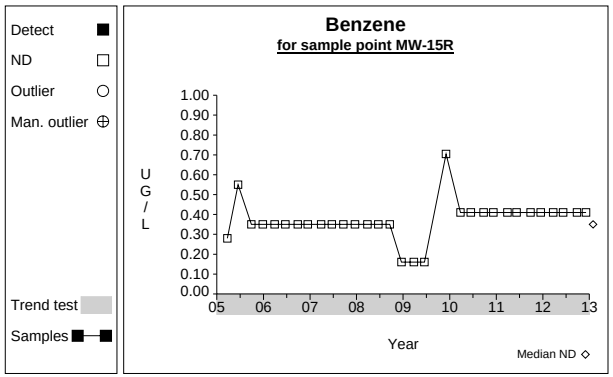
Graph 132



Graph 133

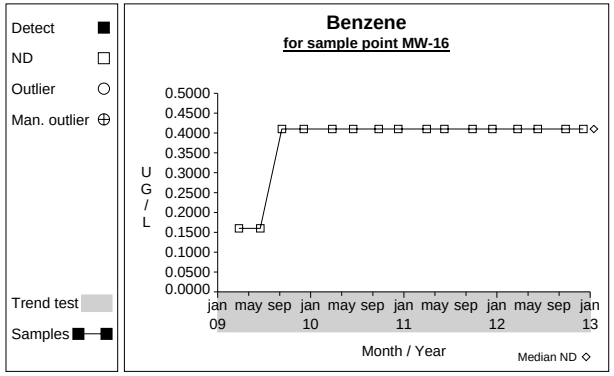


Graph 134

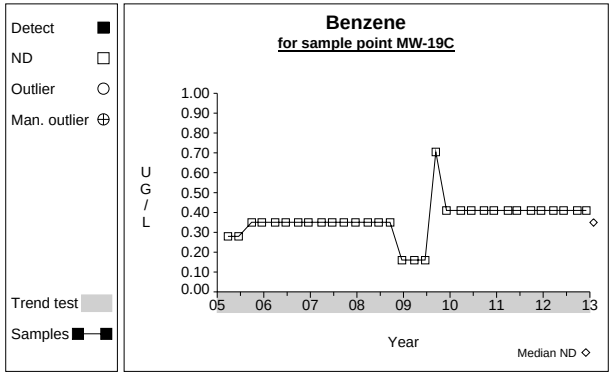


Graph 135

Time Series



Graph 136



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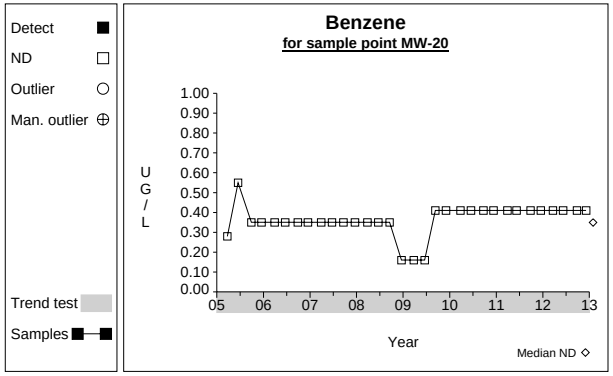
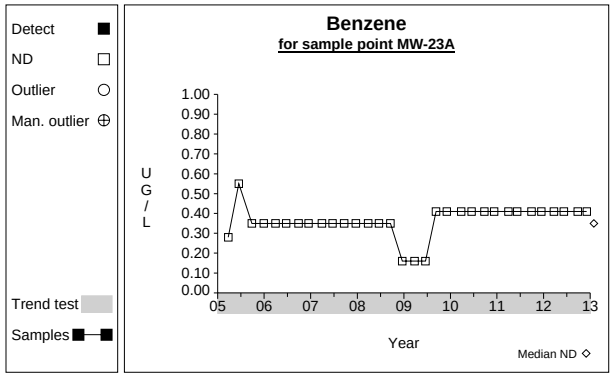
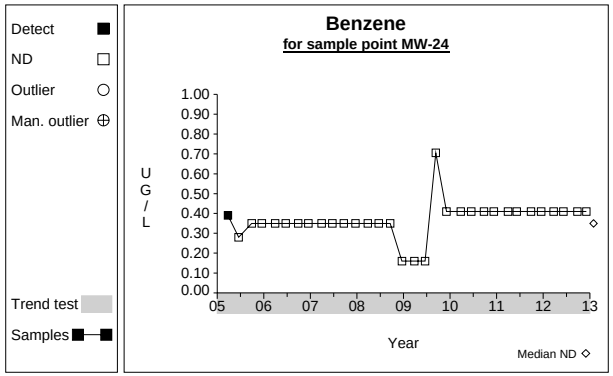


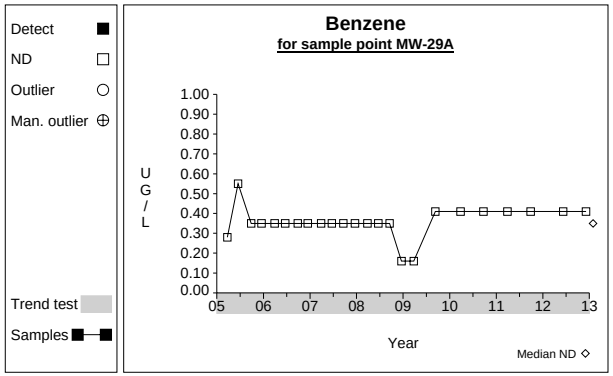
Graph 138



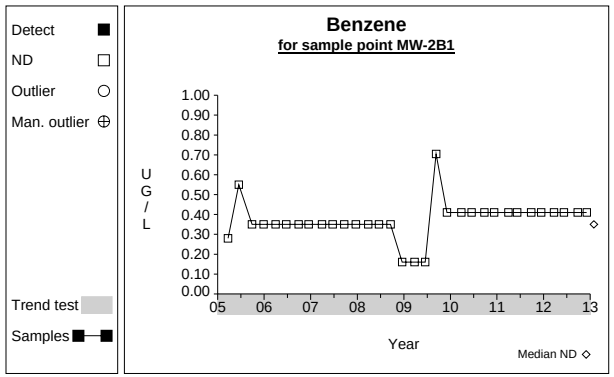
Graph 139



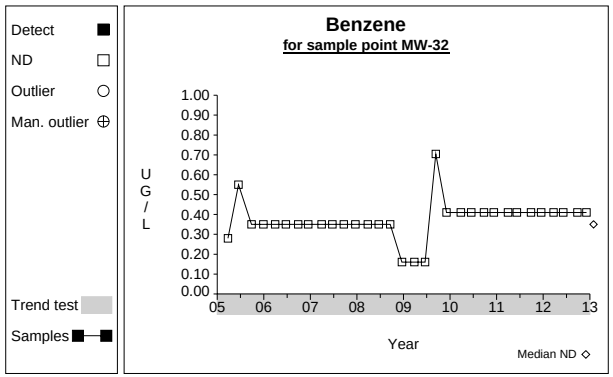
Graph 140



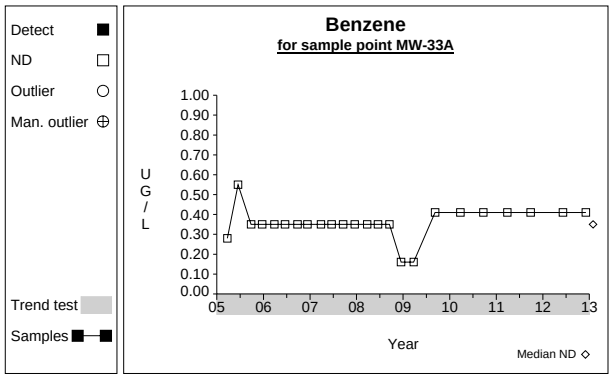
Graph 141



Graph 142

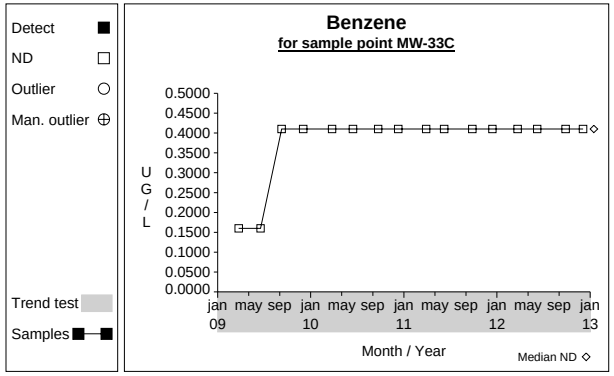


Graph 143

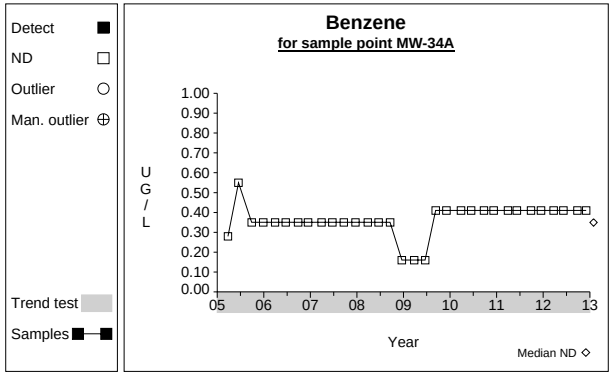


Graph 144

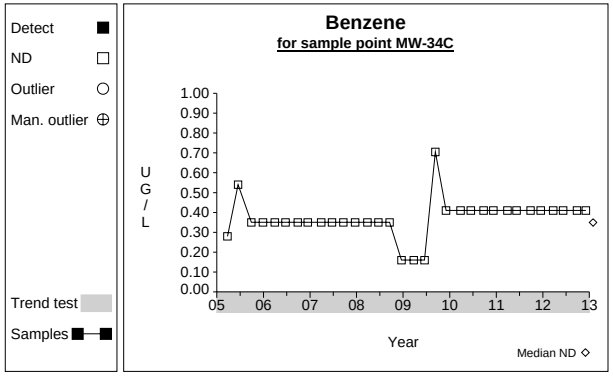
Time Series



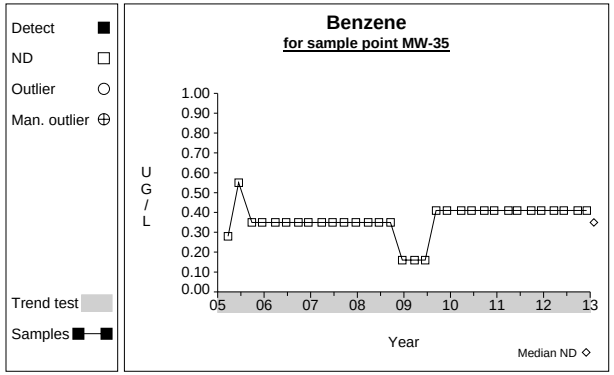
Graph 145



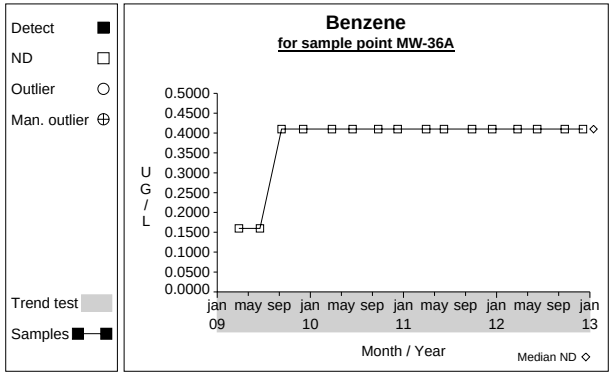
Graph 146



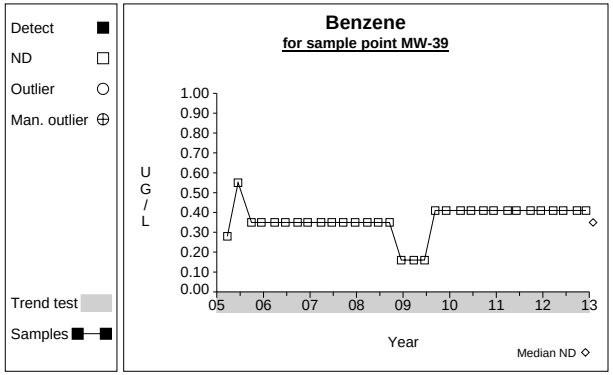
Graph 147



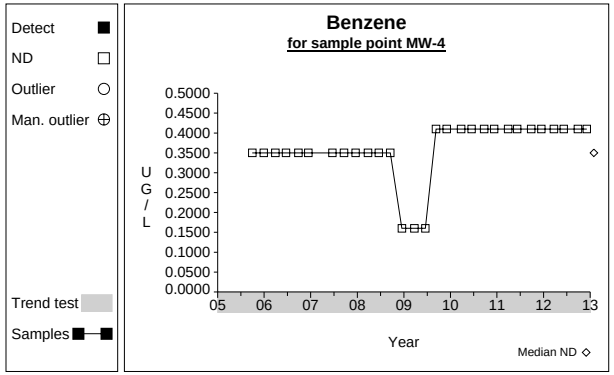
Graph 148



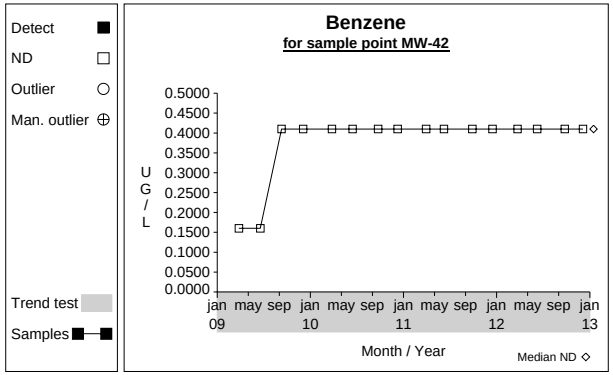
Graph 149



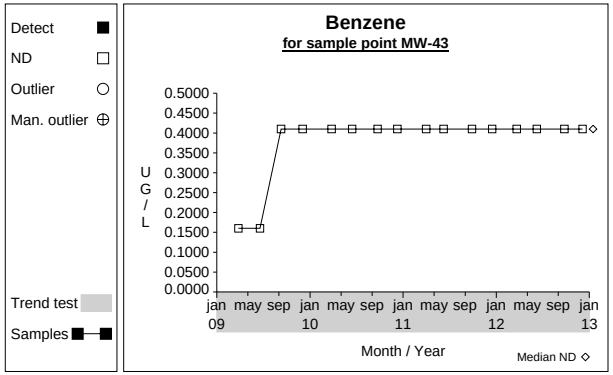
Graph 150



Graph 151

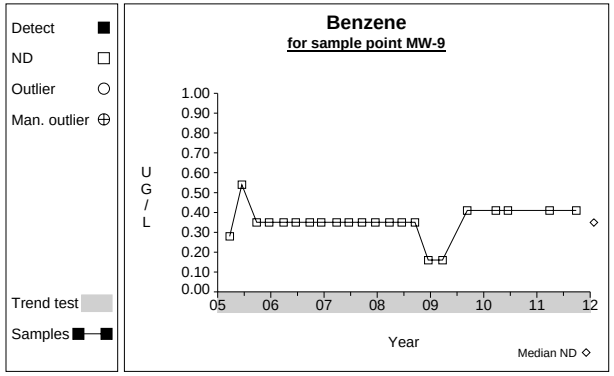


Graph 152

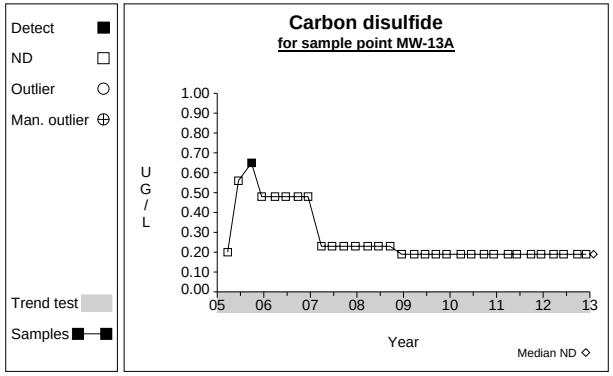


Graph 153

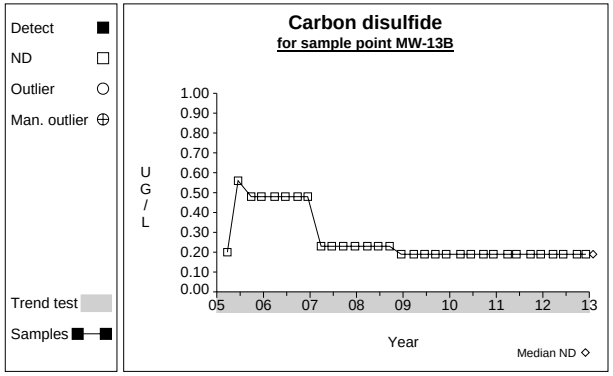
Time Series



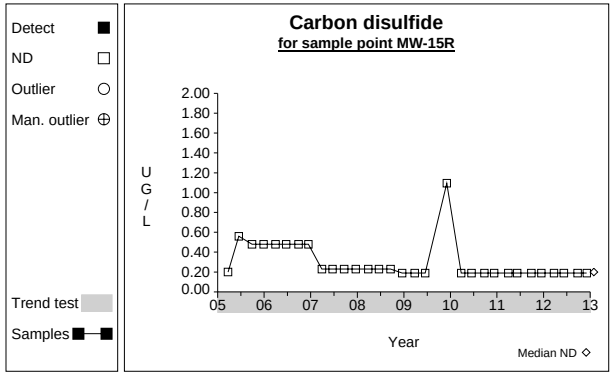
Graph 154



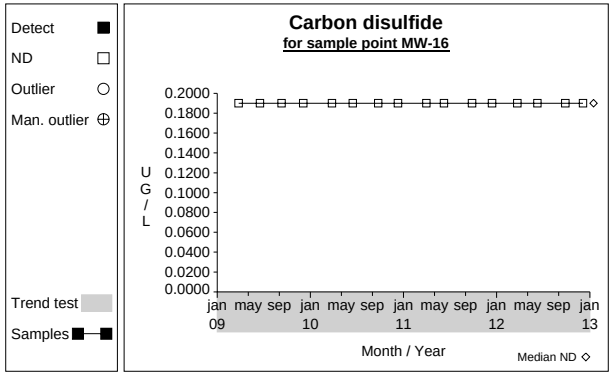
Graph 155



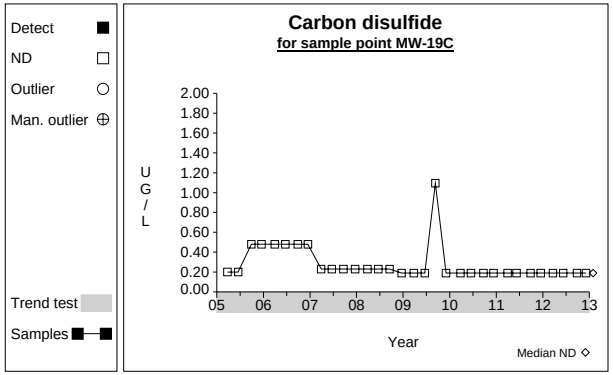
Graph 156



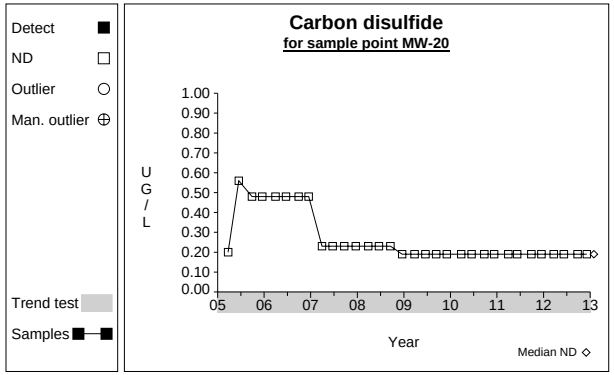
Graph 157



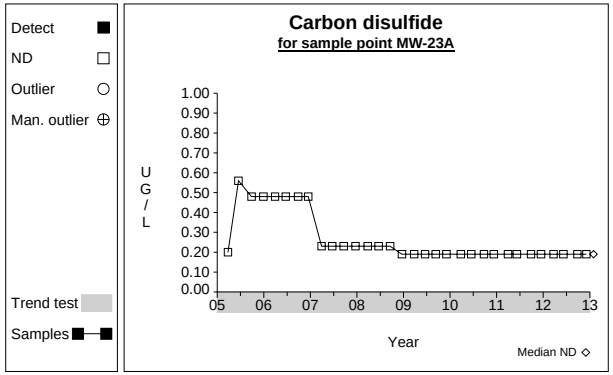
Graph 158



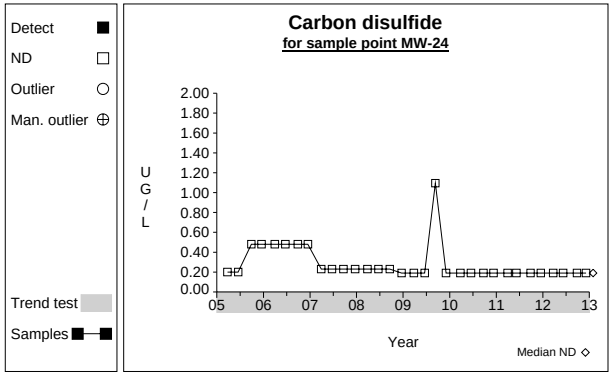
Graph 159



Graph 160

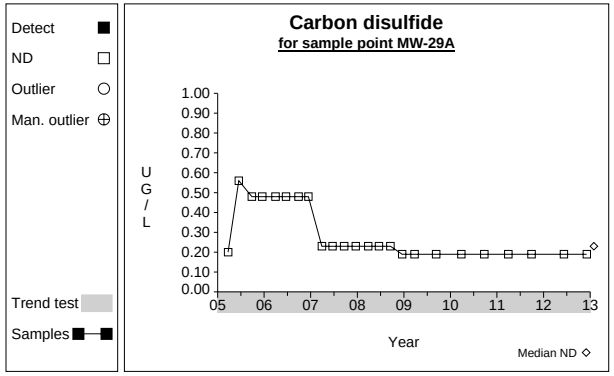


Graph 161

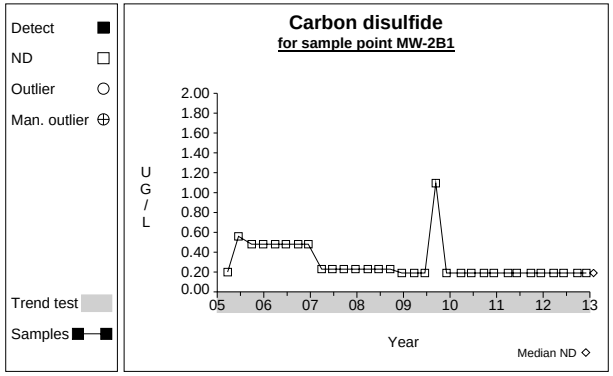


Graph 162

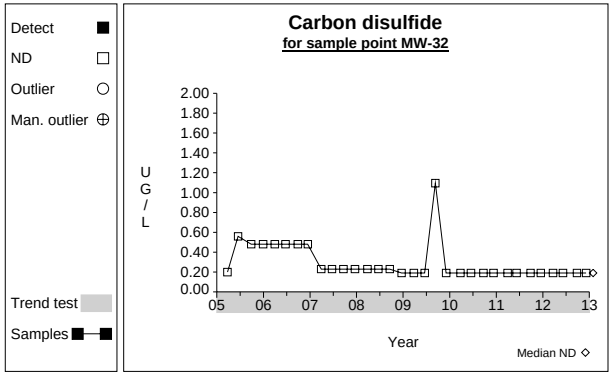
Time Series



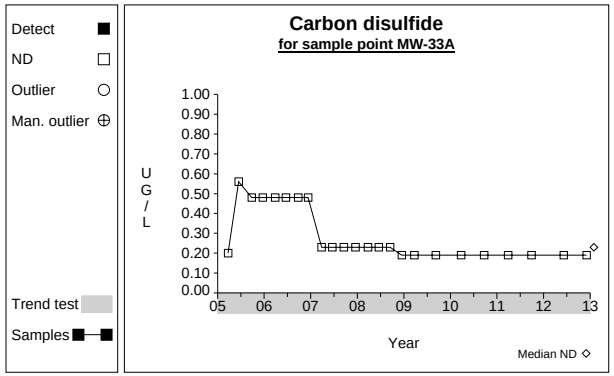
Graph 163



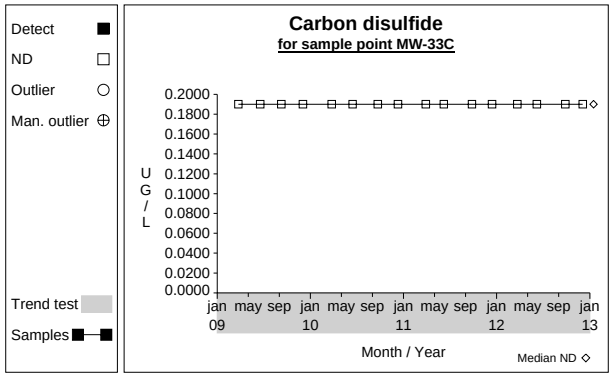
Graph 164



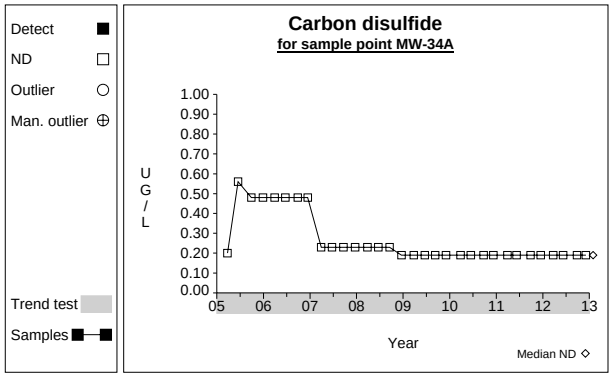
Graph 165



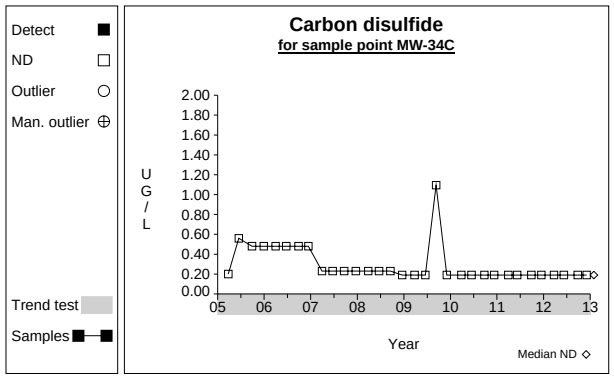
Graph 166



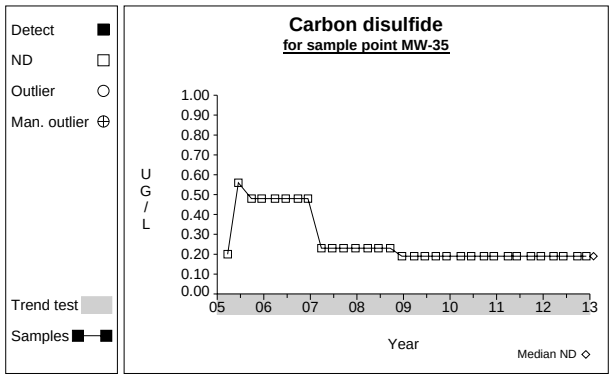
Graph 167



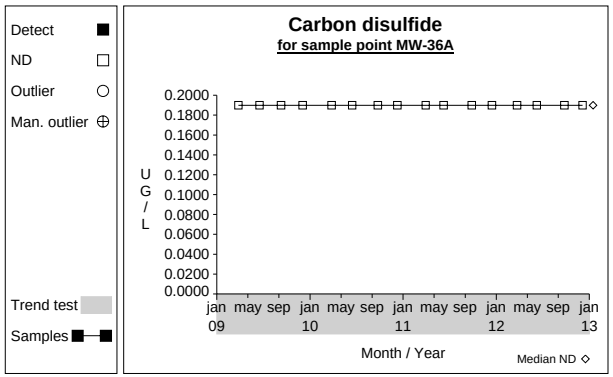
Graph 168



Graph 169

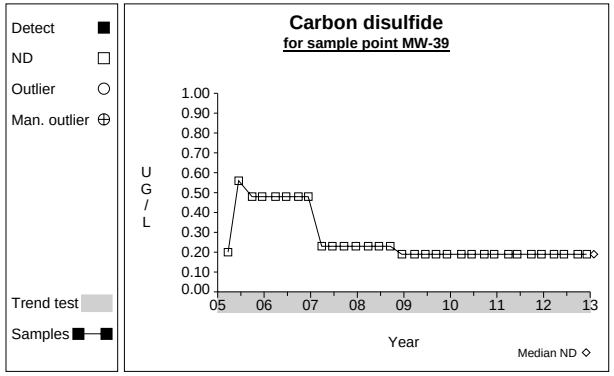


Graph 170

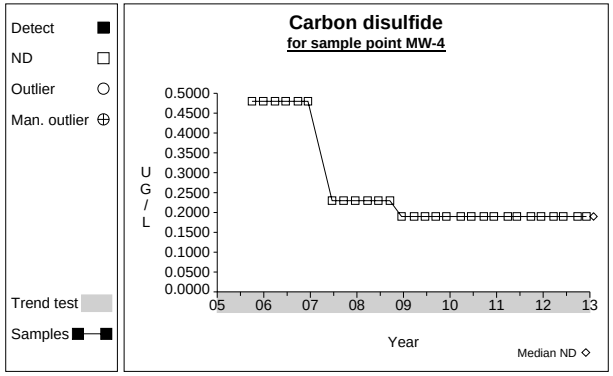


Graph 171

Time Series



Graph 172



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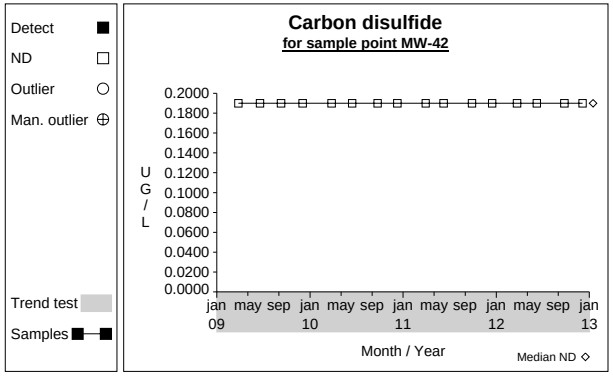
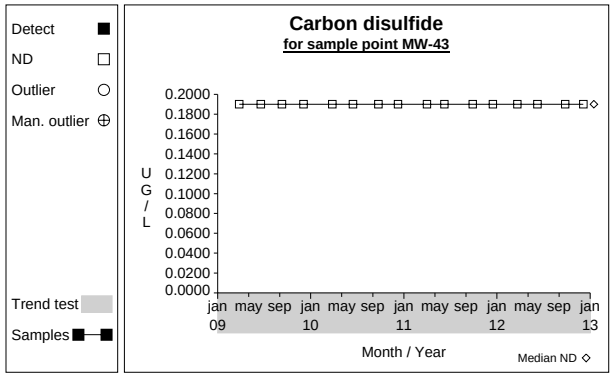
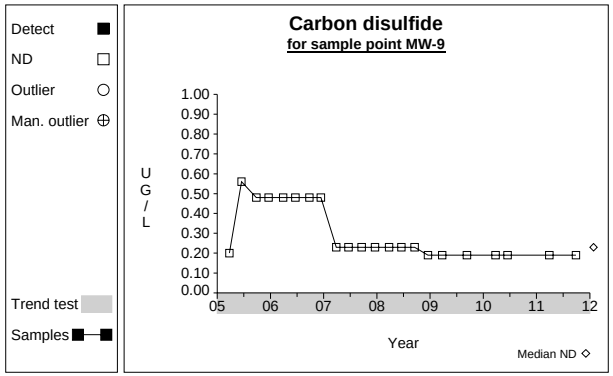


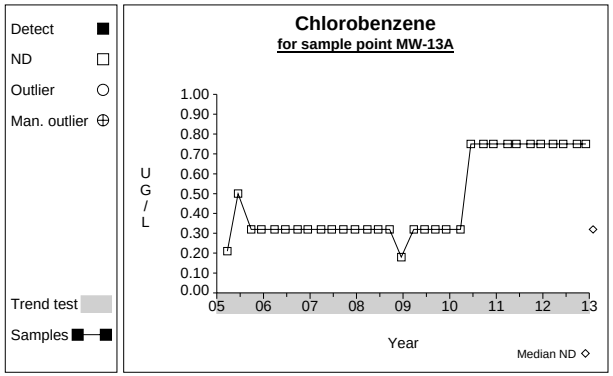
Graph 174



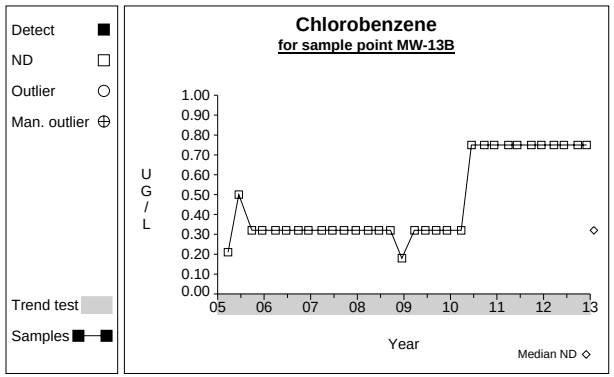
Graph 175



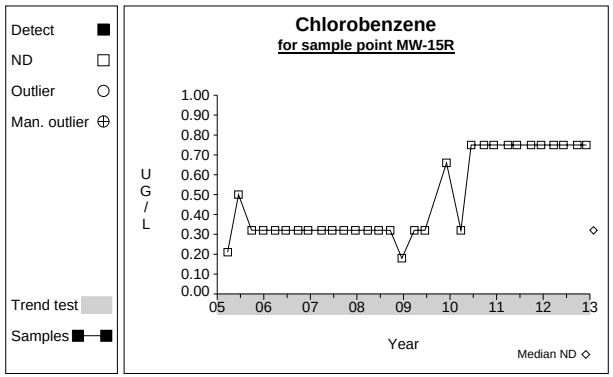
Graph 176



Graph 177



Graph 178



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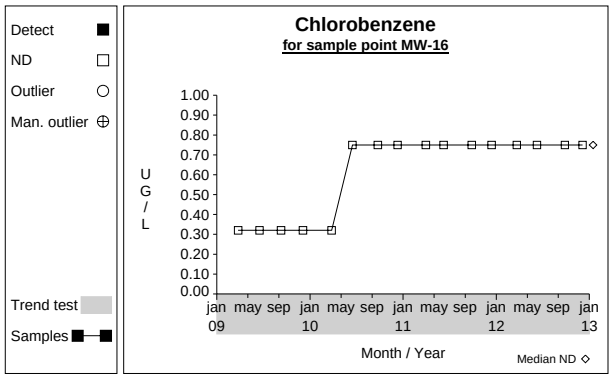
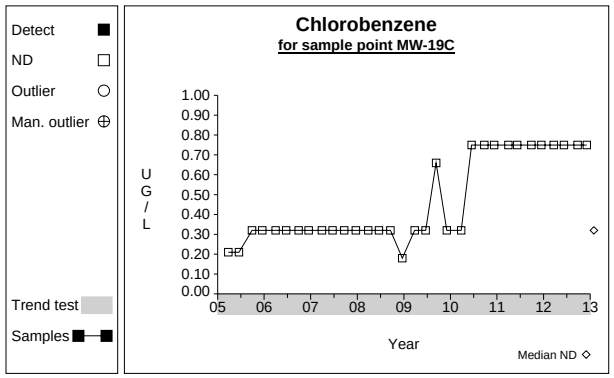


Graph 180

Time Series



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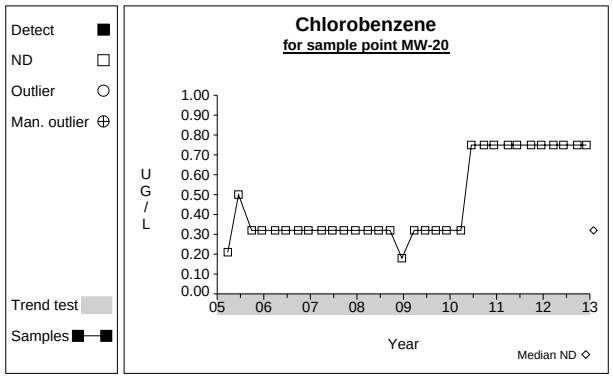

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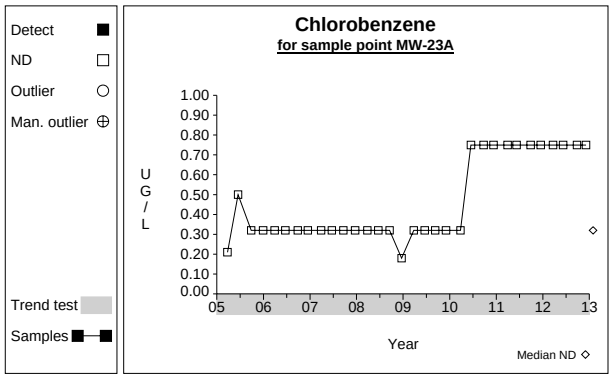

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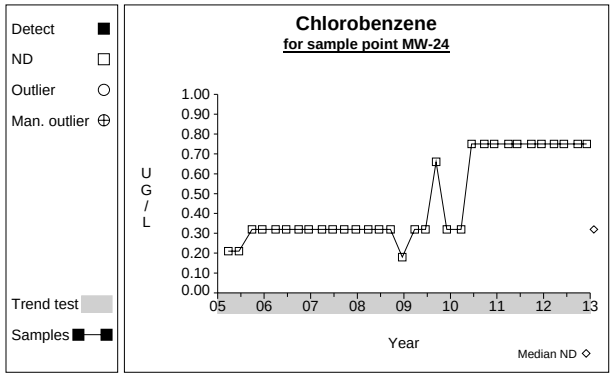
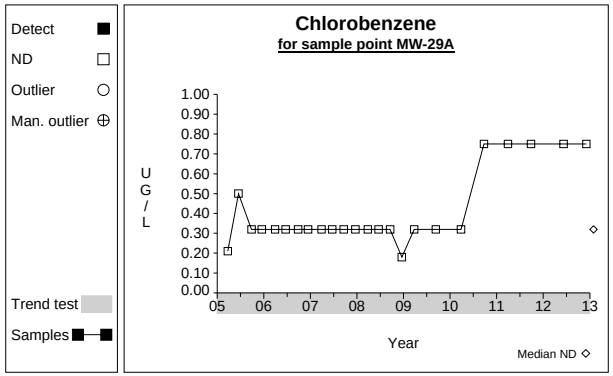
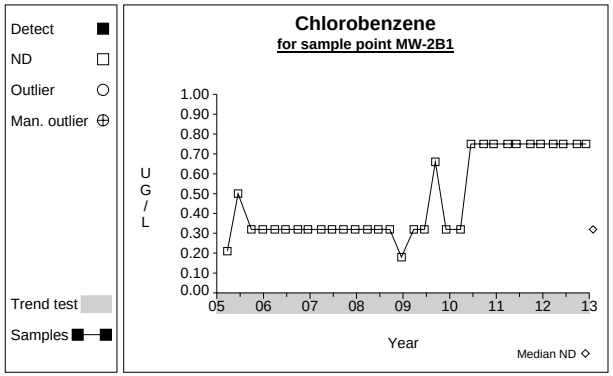


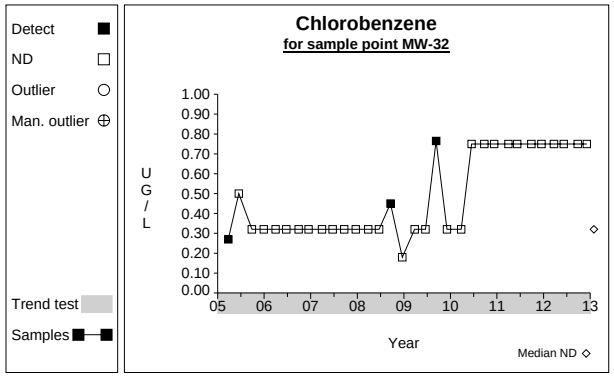
Graph 184



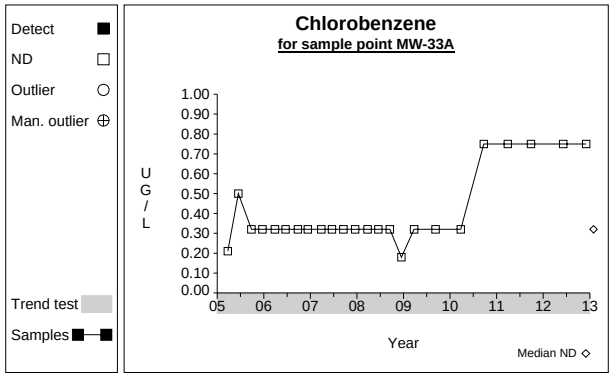
Graph 185



Graph 186



Graph 187



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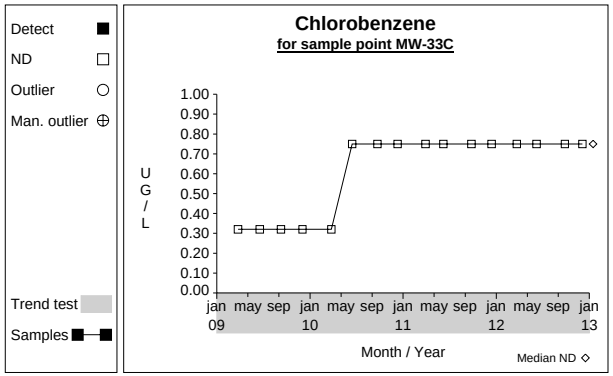
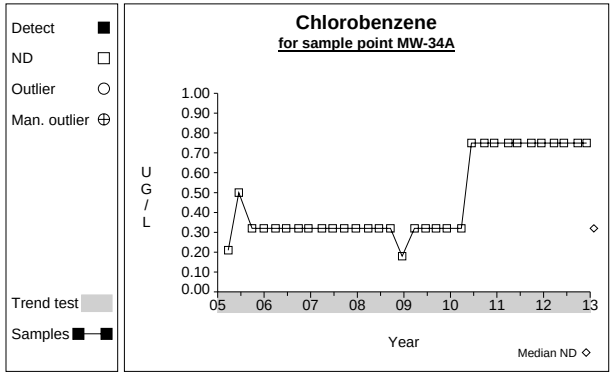
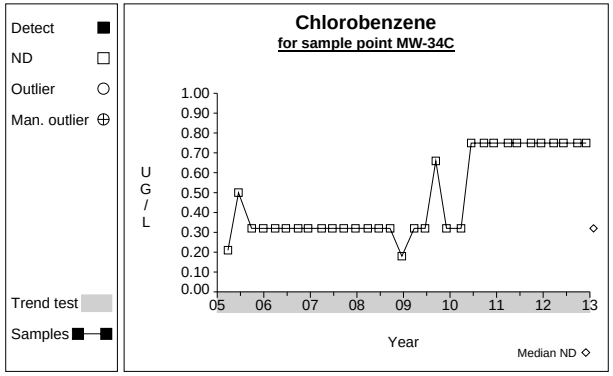


Graph 189

Time Series



Graph 190



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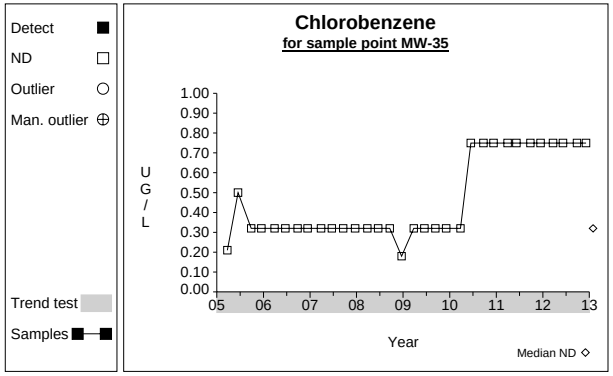

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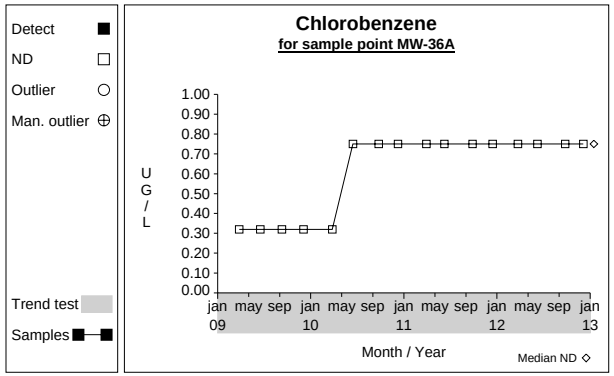

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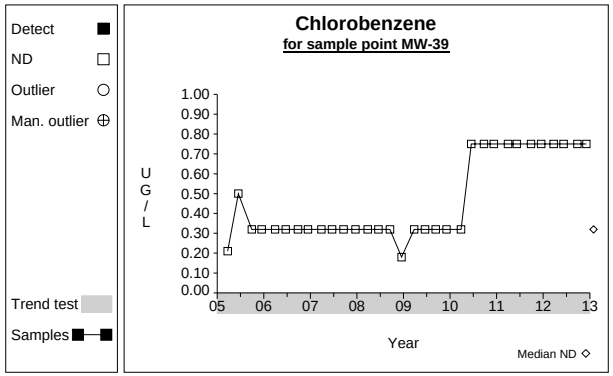

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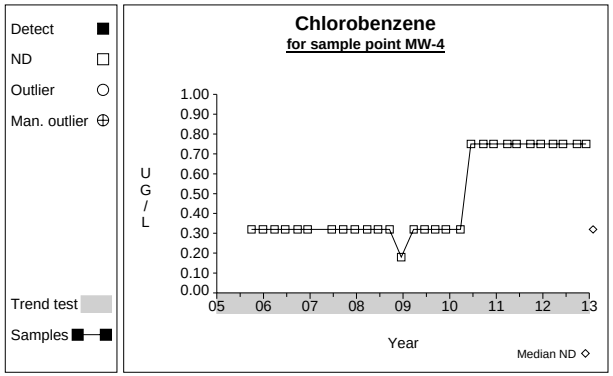

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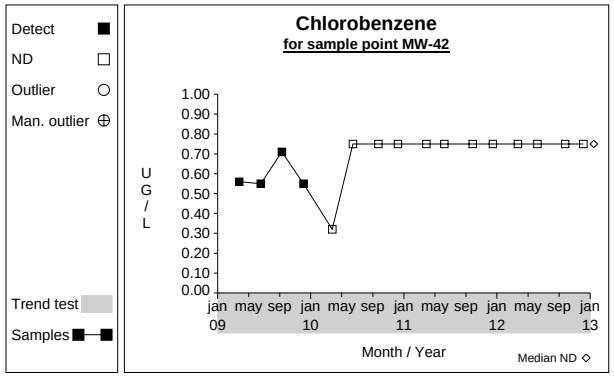

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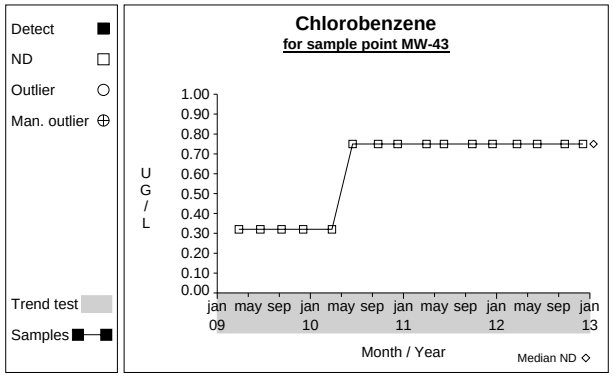

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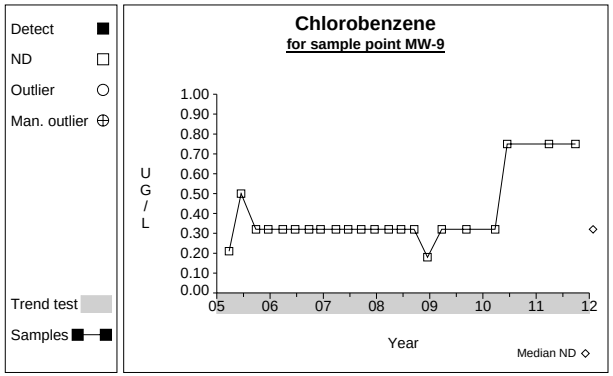
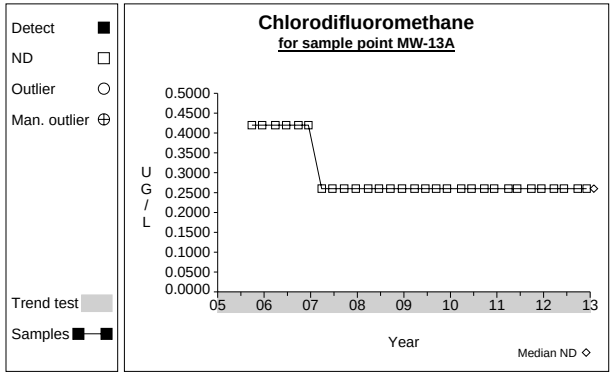
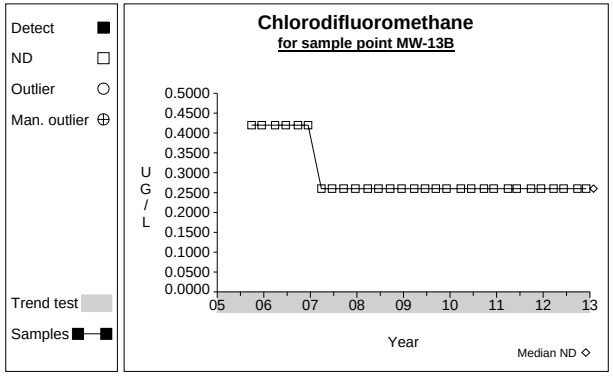


Graph 198

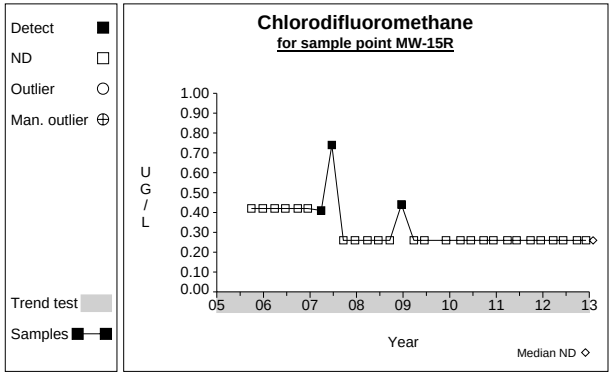
Time Series



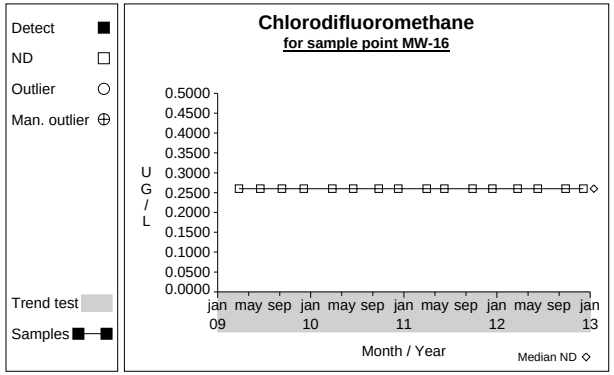
Graph 199



Graph 200



Graph 201



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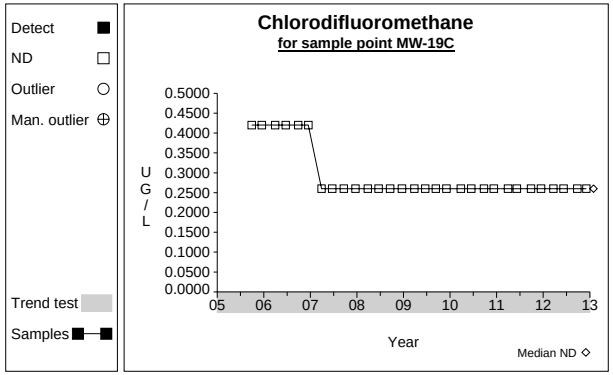

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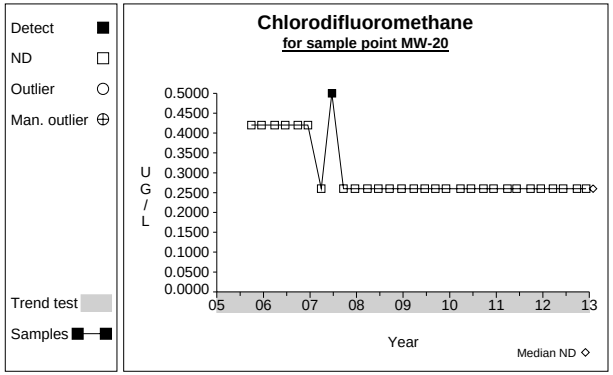

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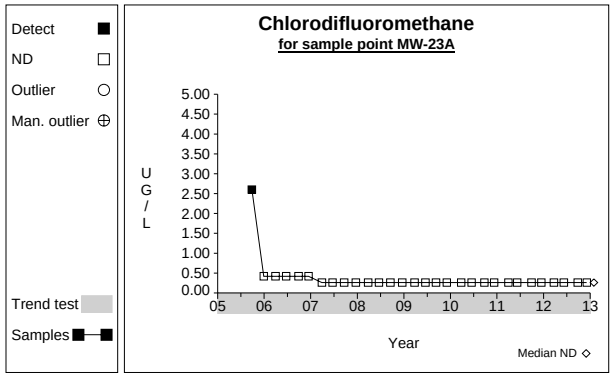
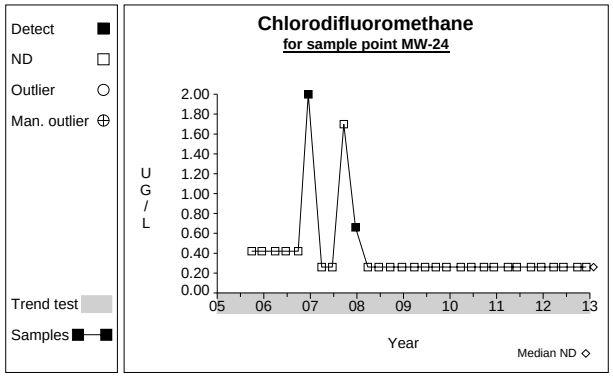
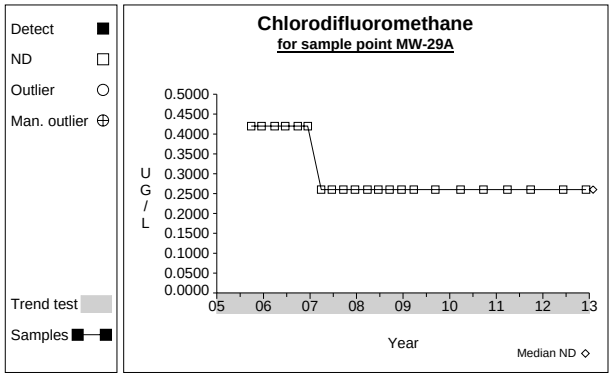


Graph 205

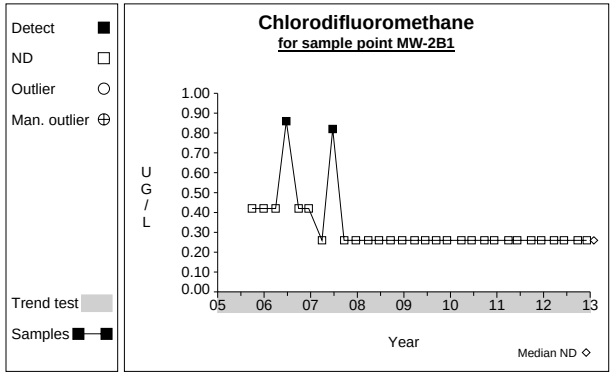


Graph 206

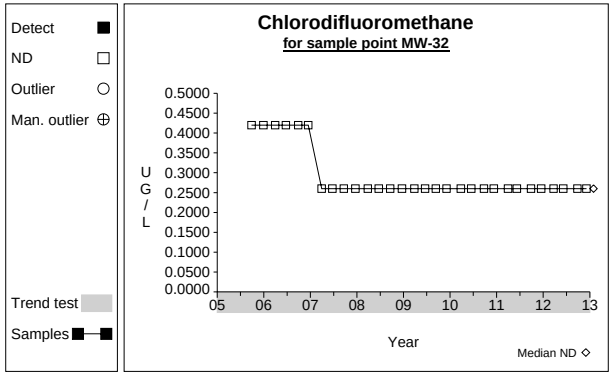


Graph 207

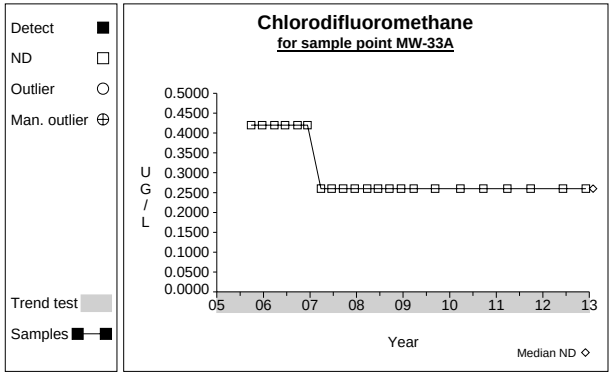
Time Series



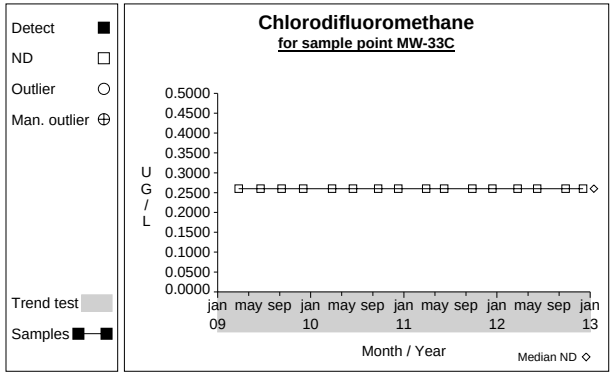
Graph 208



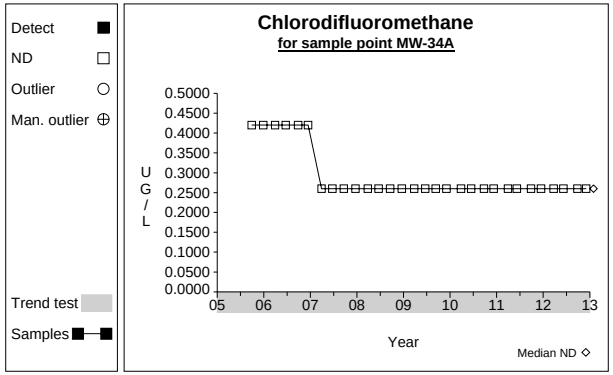
Graph 209



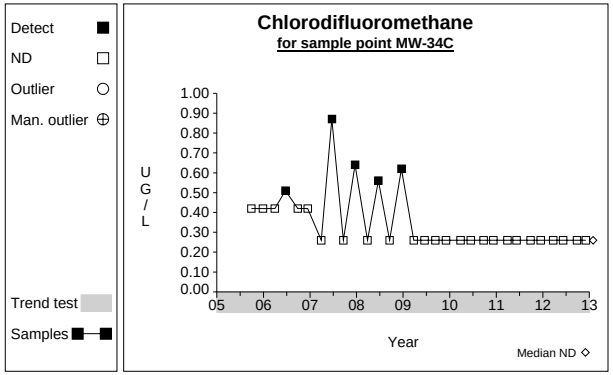
Graph 210



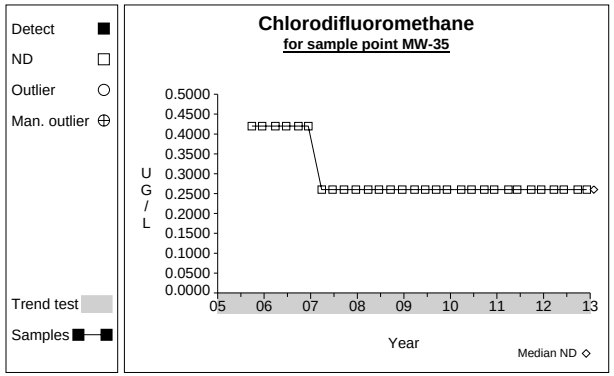
Graph 211



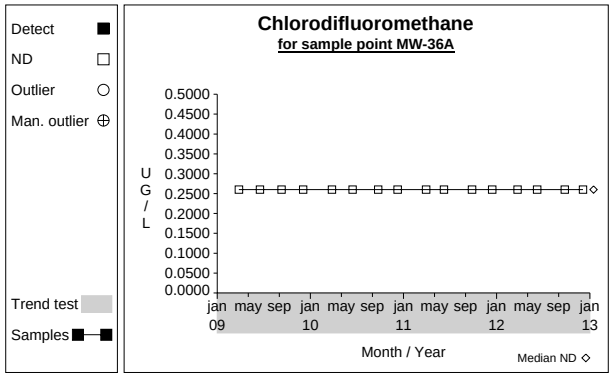
Graph 212



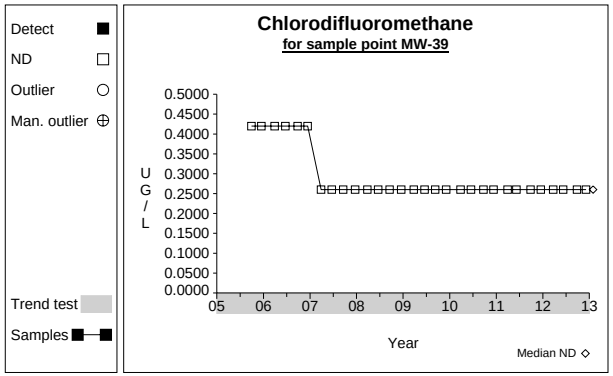
Graph 213



Graph 214

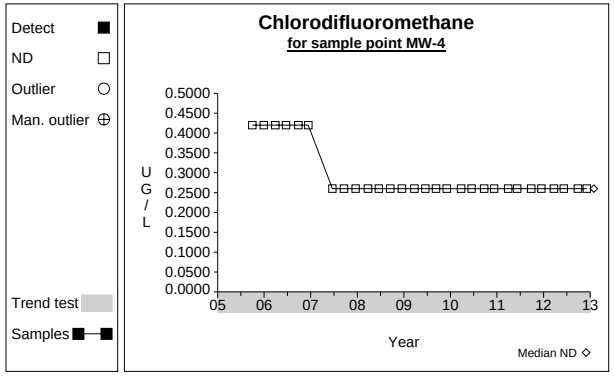


Graph 215

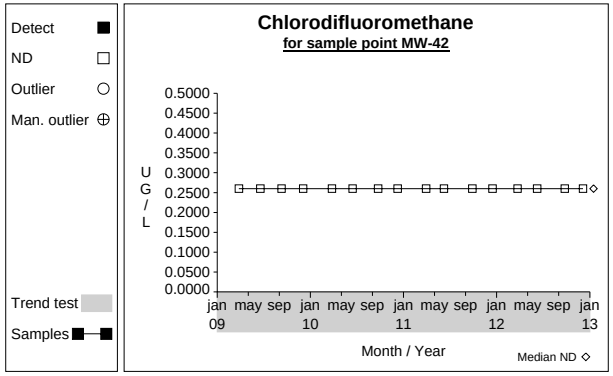


Graph 216

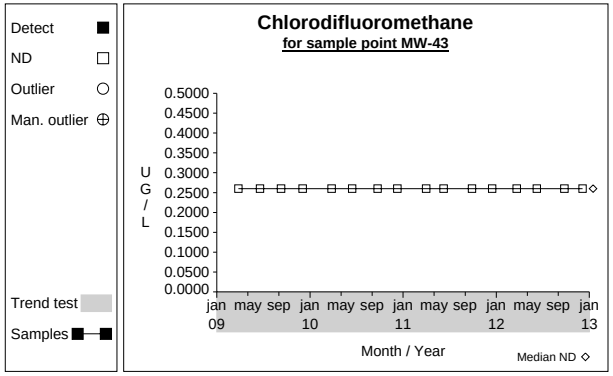
Time Series



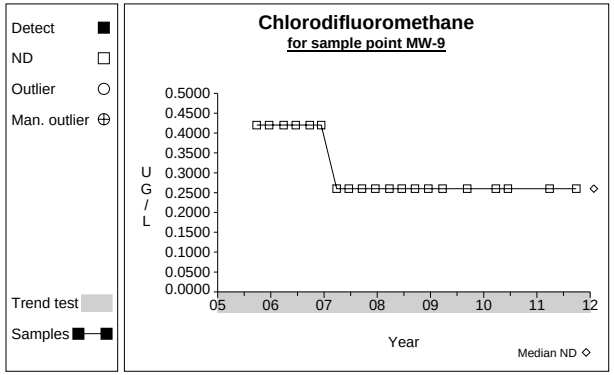
Graph 217



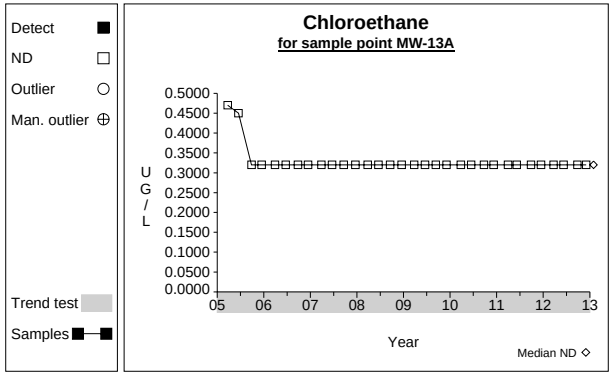
Graph 218



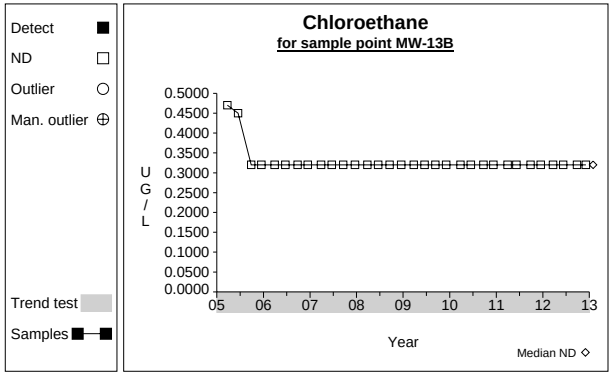
Graph 219



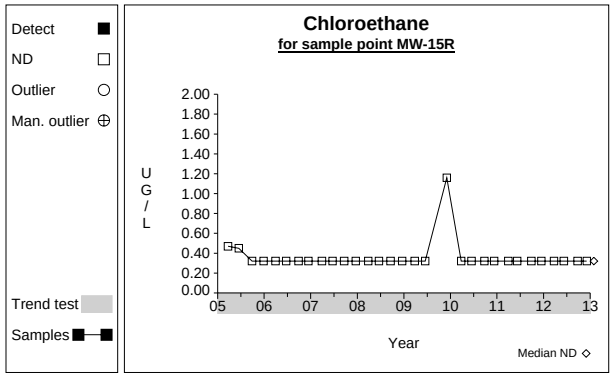
Graph 220



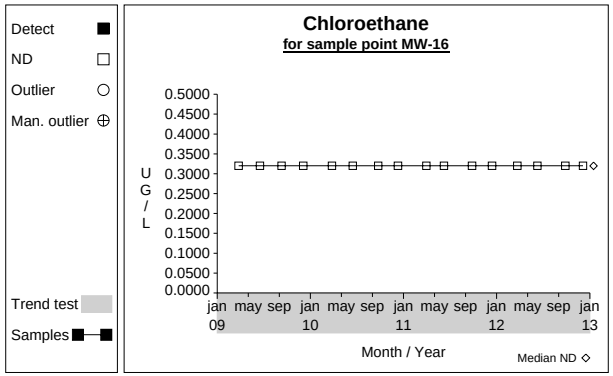
Graph 221



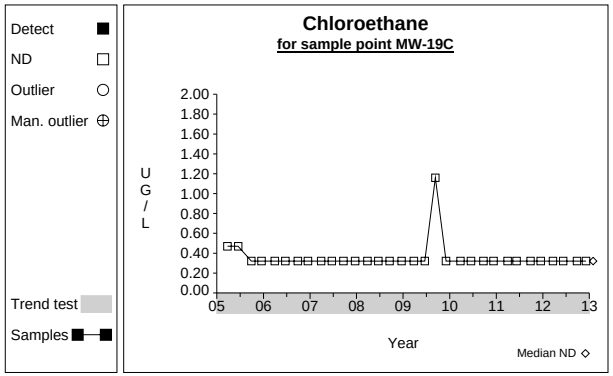
Graph 222



Graph 223

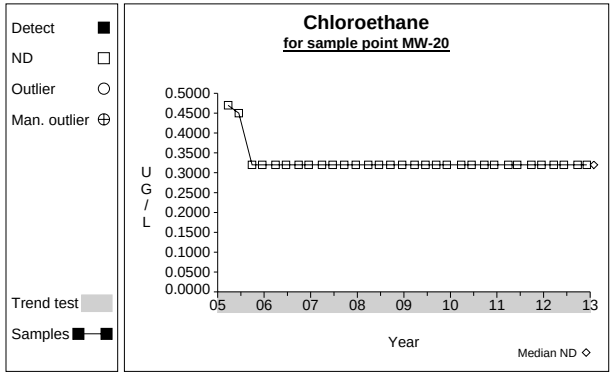


Graph 224

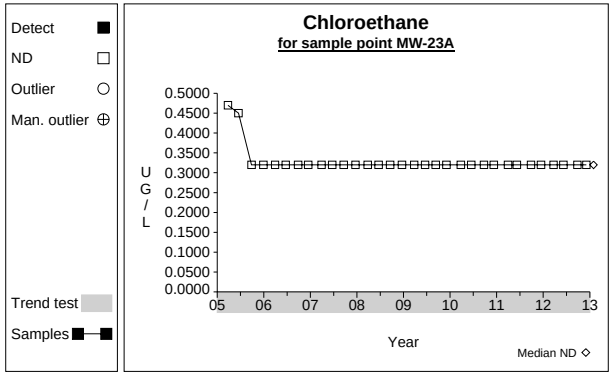


Graph 225

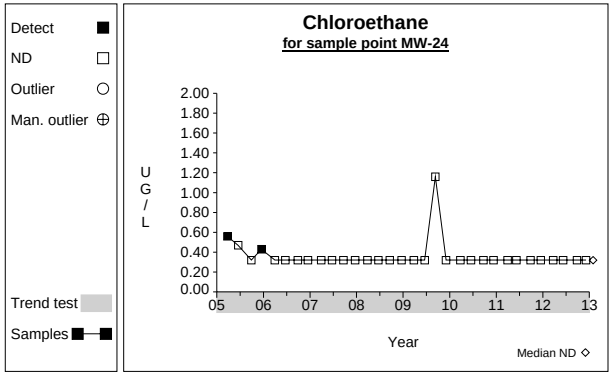
Time Series



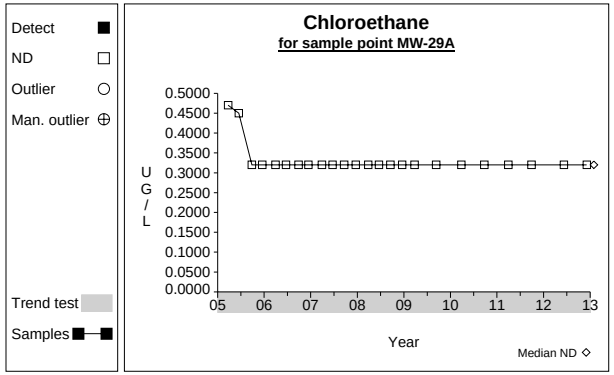
Graph 226



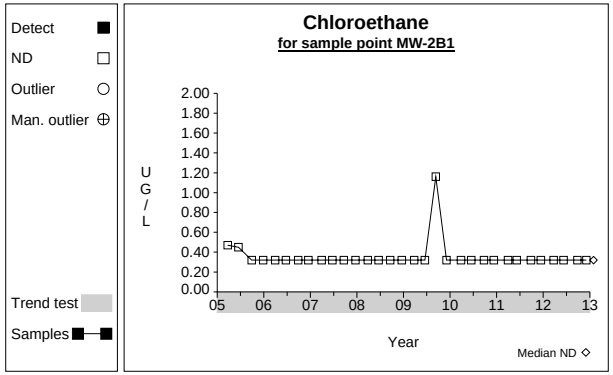
Graph 227



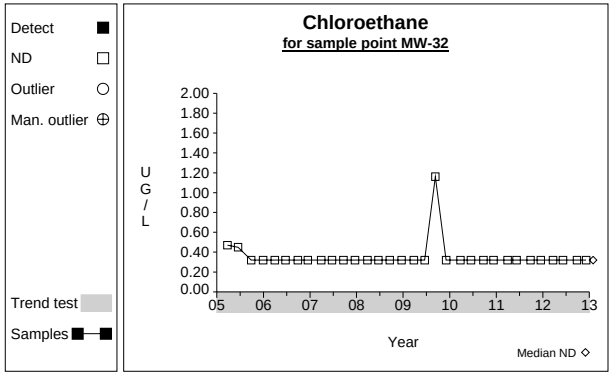
Graph 228



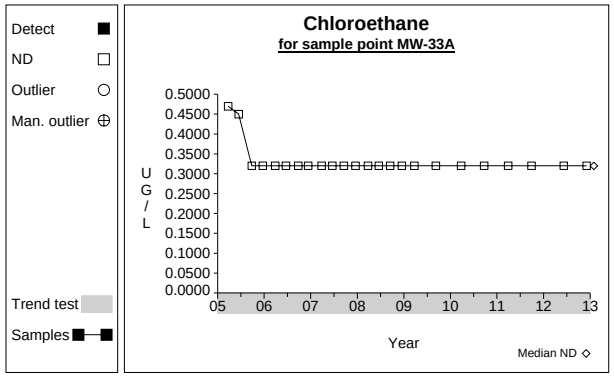
Graph 229



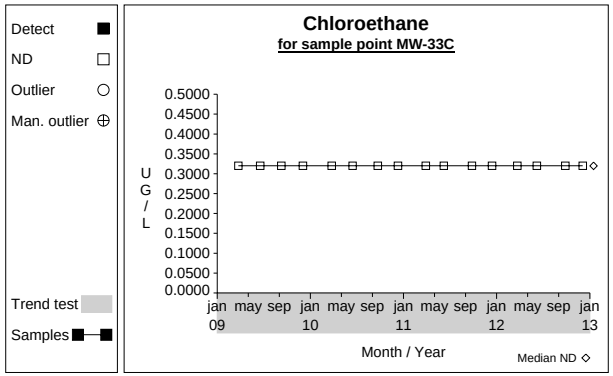
Graph 230



Graph 231



Graph 232



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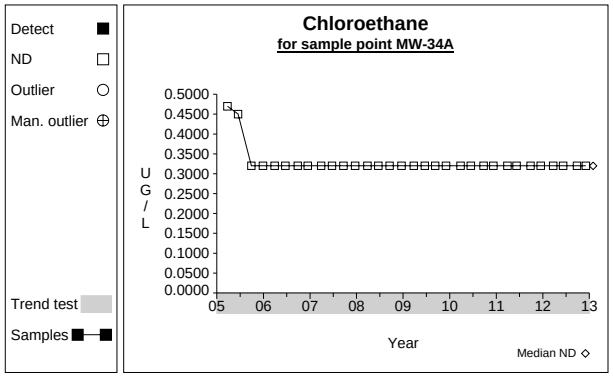
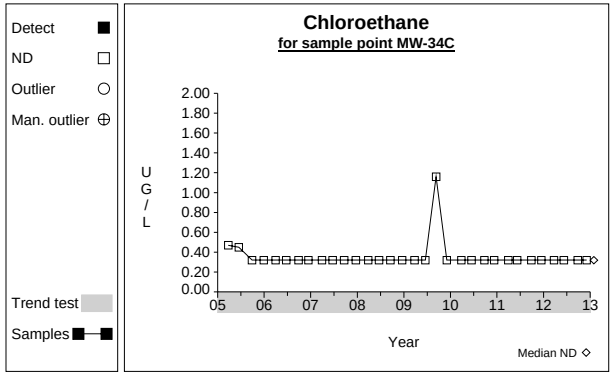
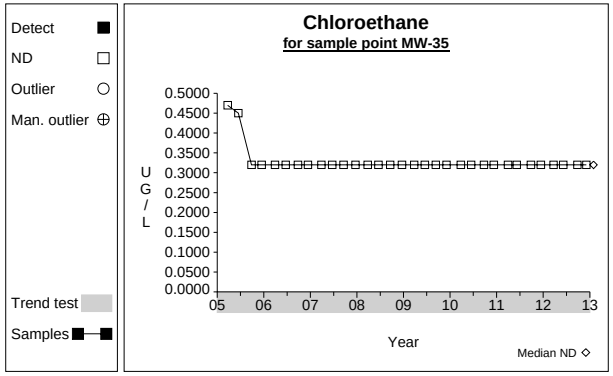


Graph 234

Time Series



Graph 235



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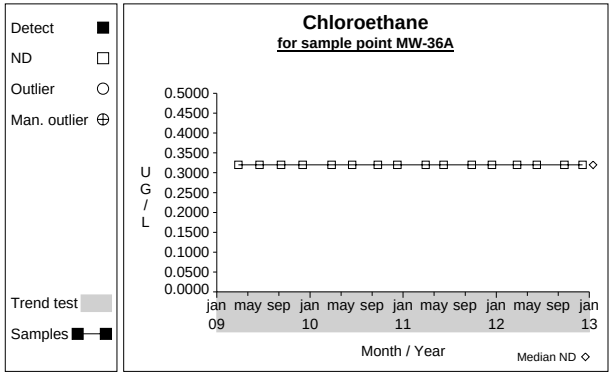
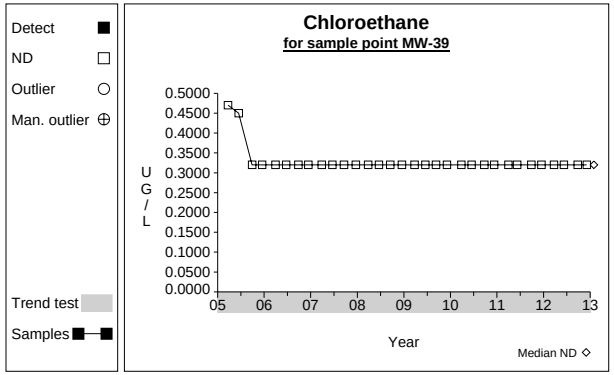
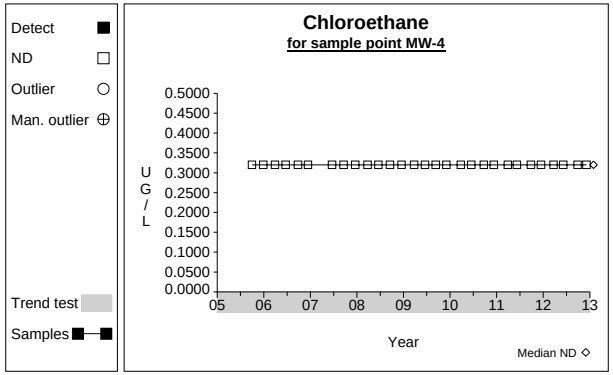


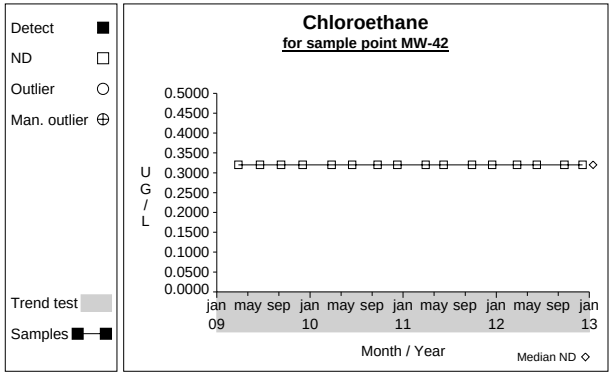
Graph 237



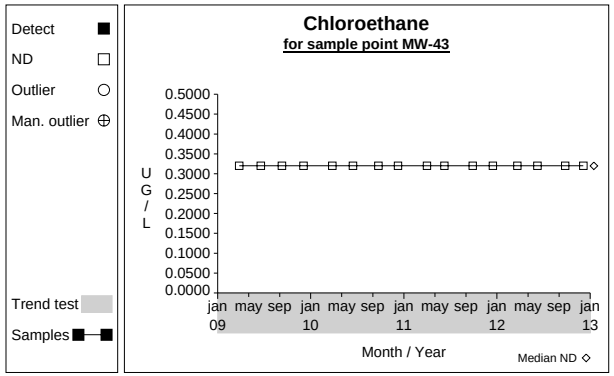
Graph 238



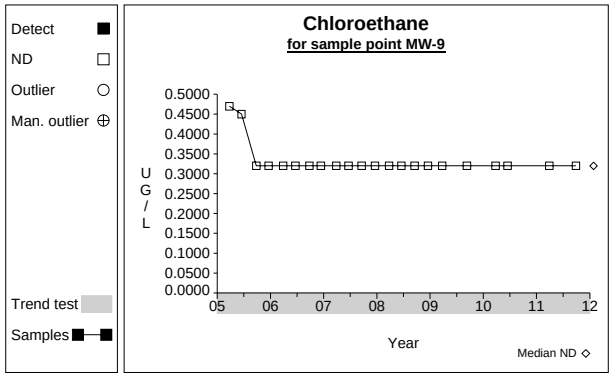
Graph 239



Graph 240



Graph 241



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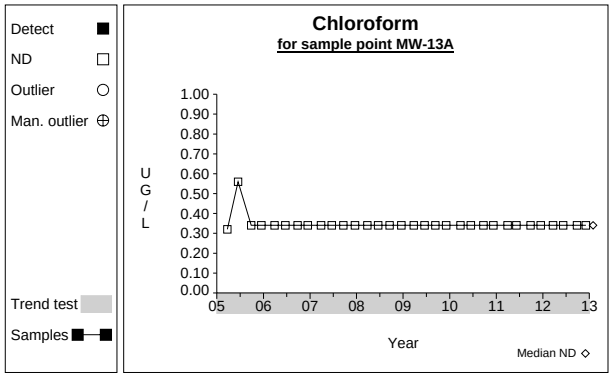
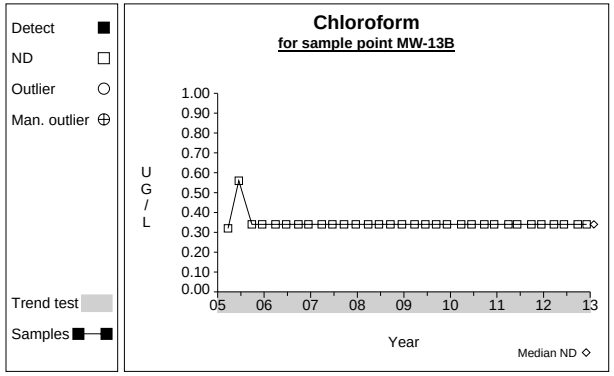
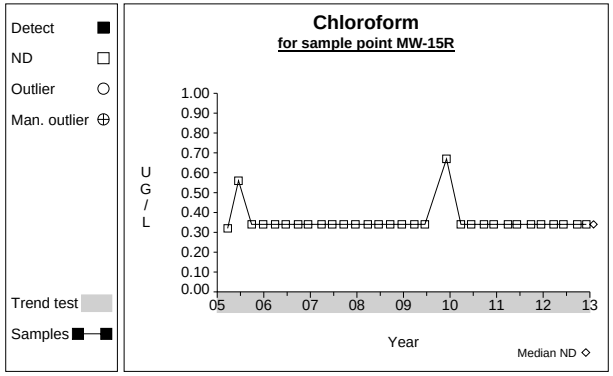


Graph 243

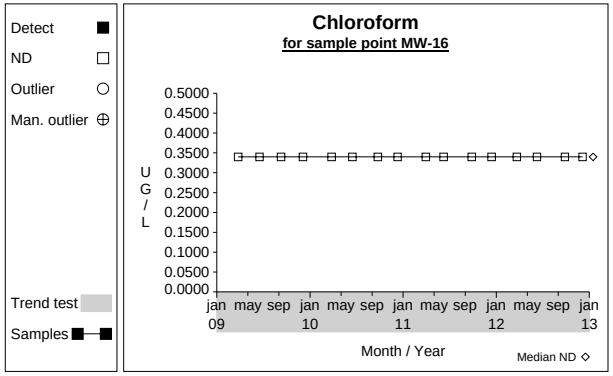
Time Series



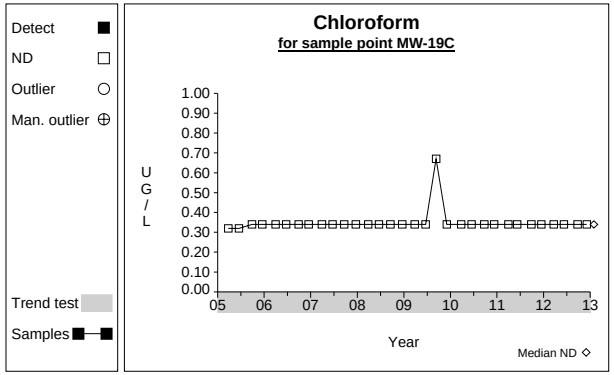
Graph 244



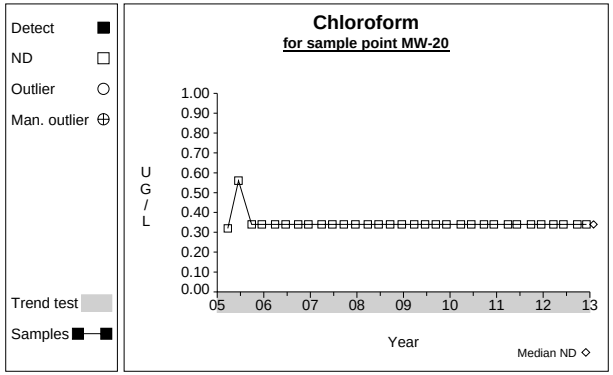
Graph 245



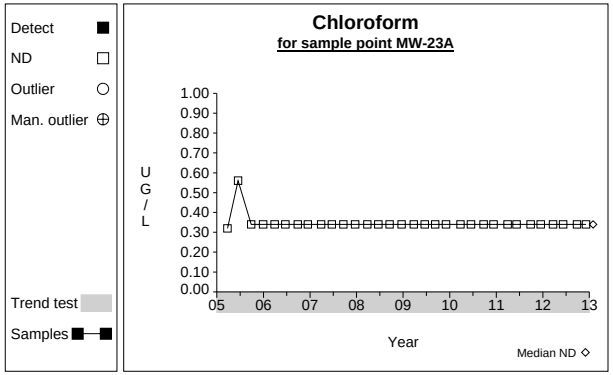
Graph 246



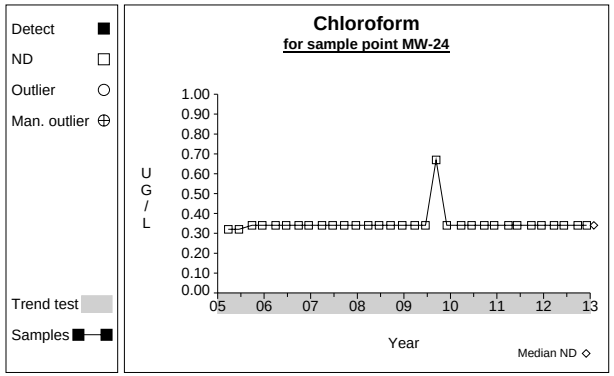
Graph 247



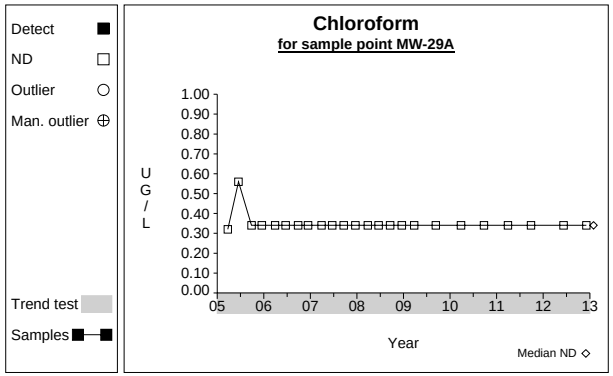
Graph 248



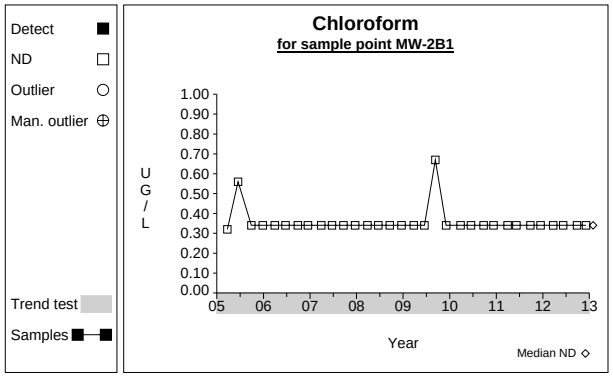
Graph 249



Graph 250

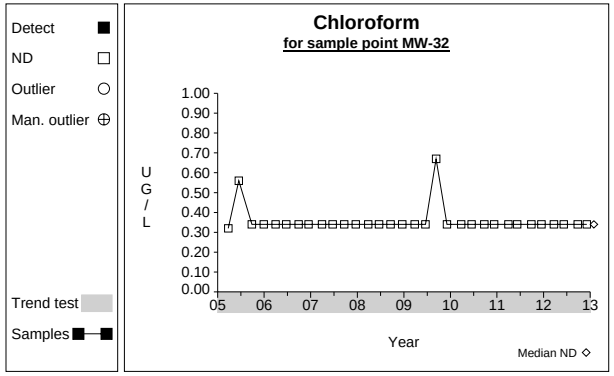


Graph 251

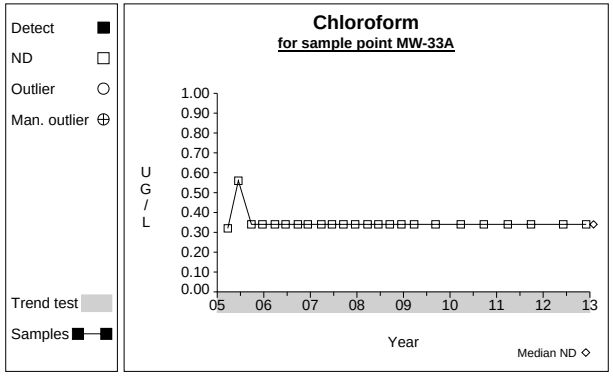


Graph 252

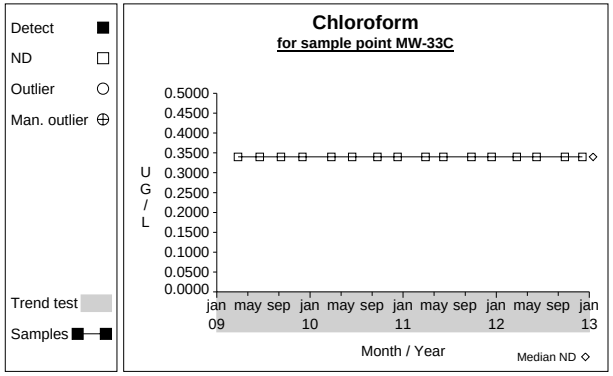
Time Series



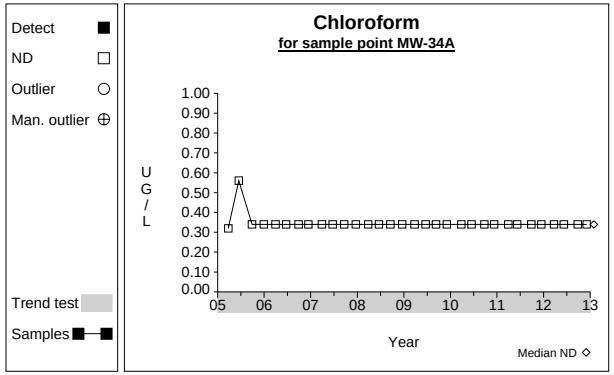
Graph 253



Graph 254



Graph 255



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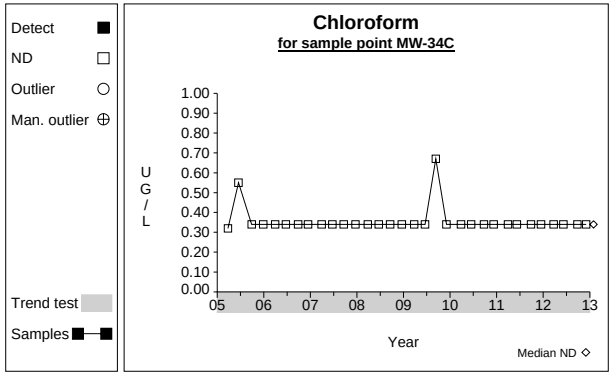
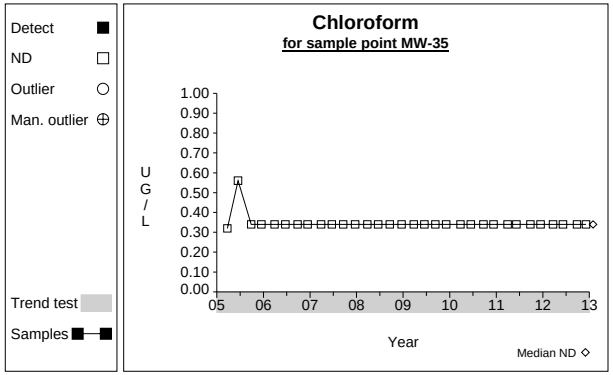
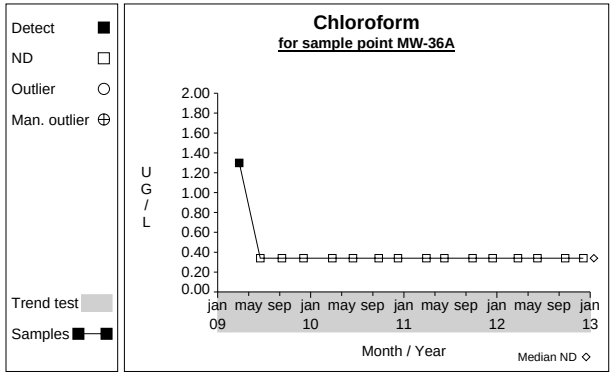


Graph 257



Graph 258



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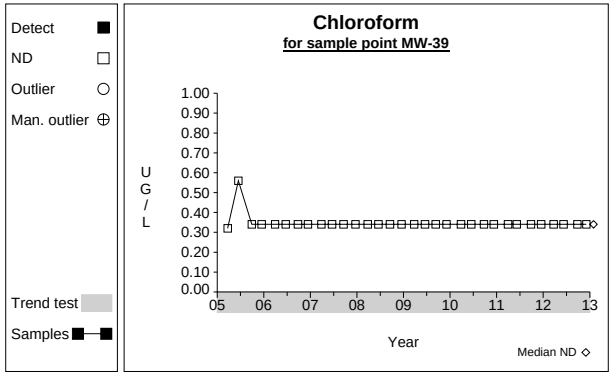
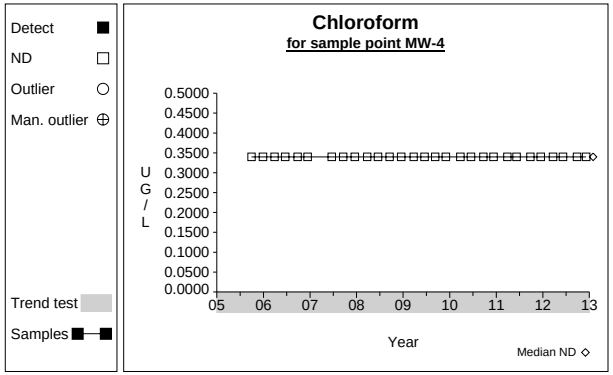
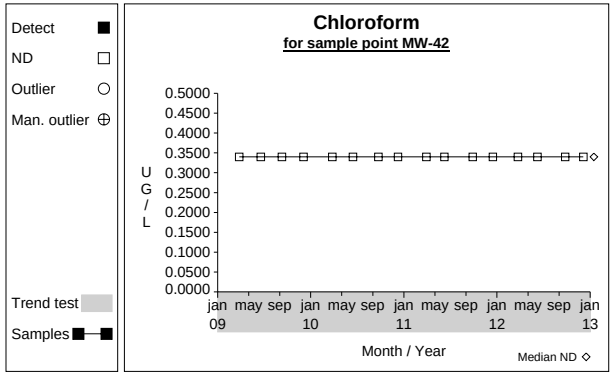


Graph 260

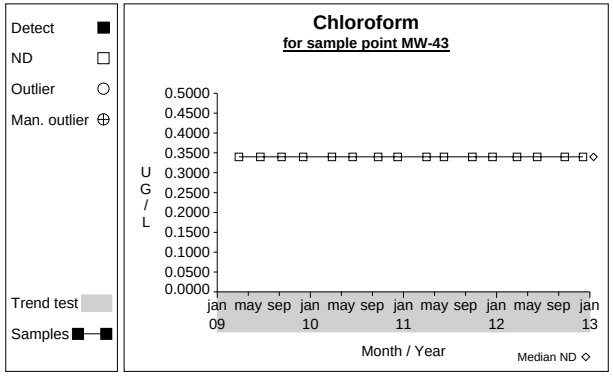


Graph 261

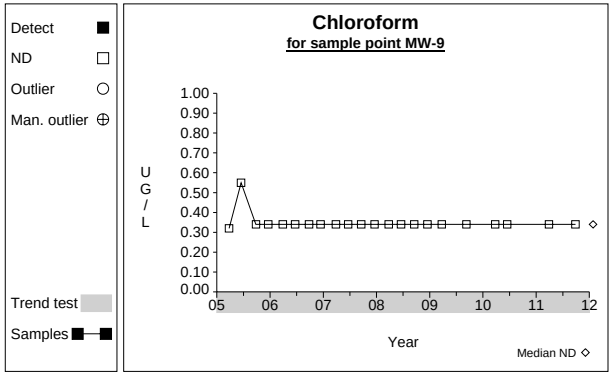
Time Series



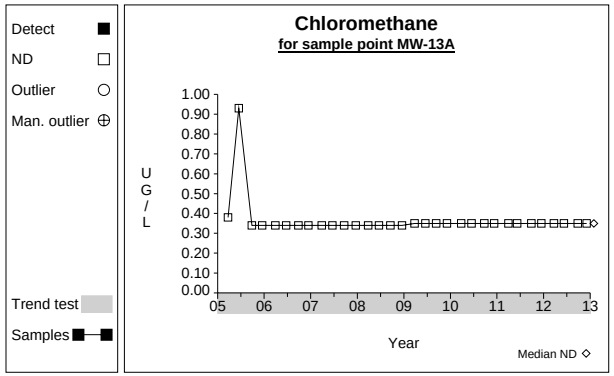
Graph 262



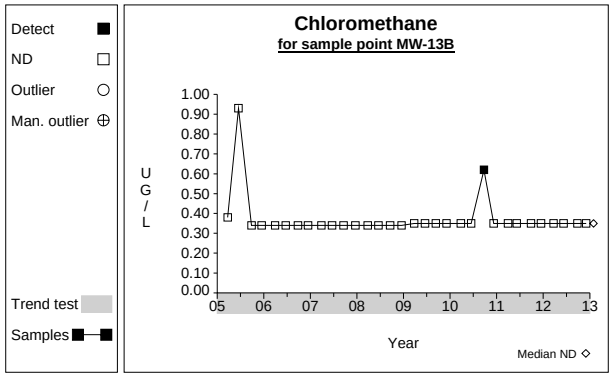
Graph 263



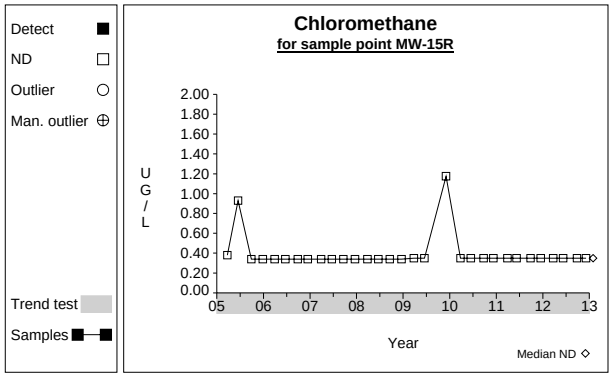
Graph 264



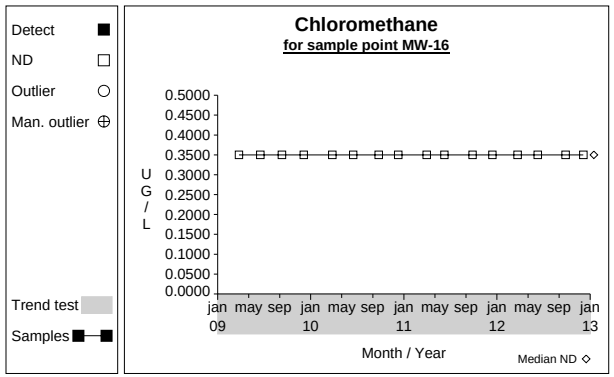
Graph 265



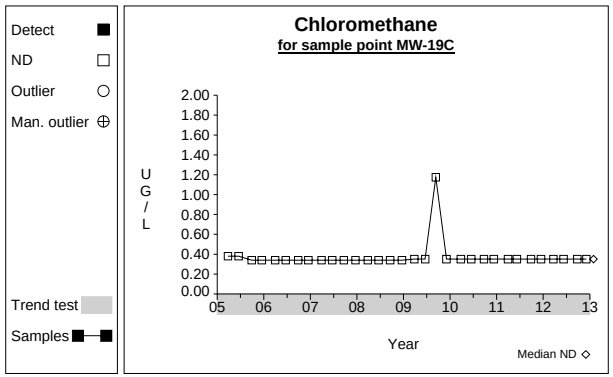
Graph 266



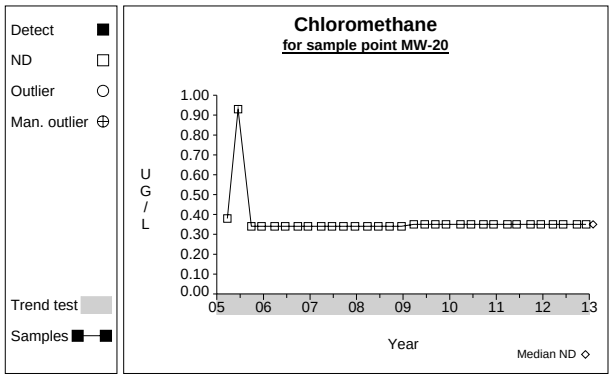
Graph 267



Graph 268

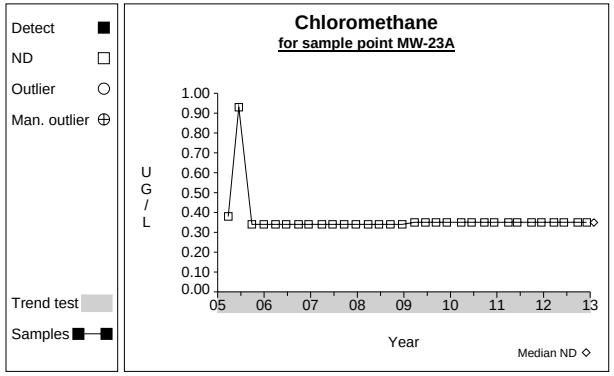


Graph 269

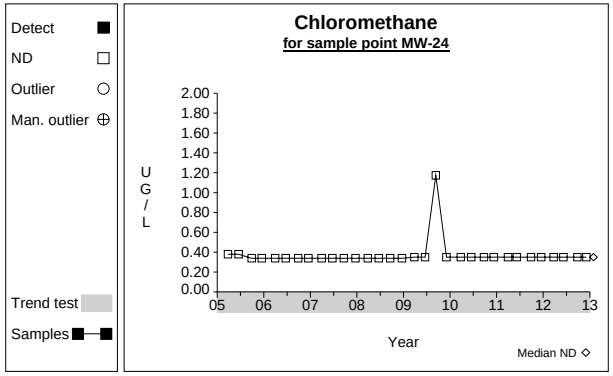


Graph 270

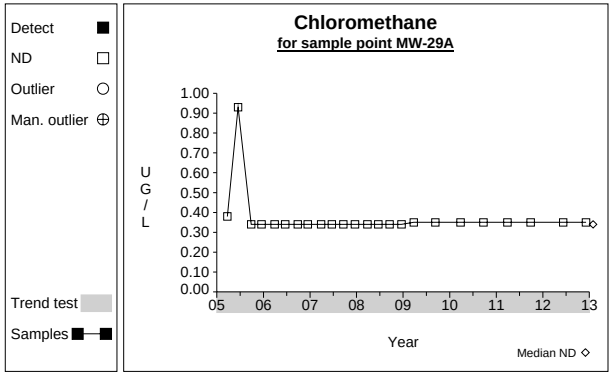
Time Series



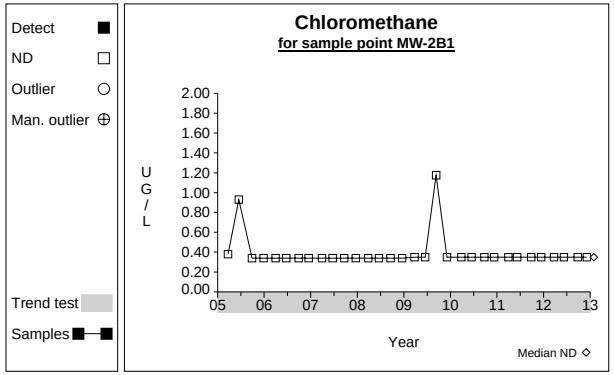
Graph 271



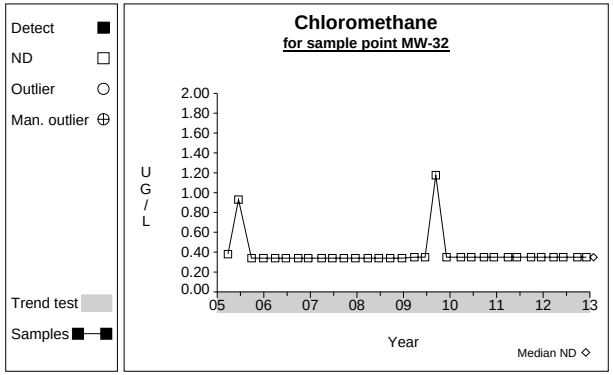
Graph 272



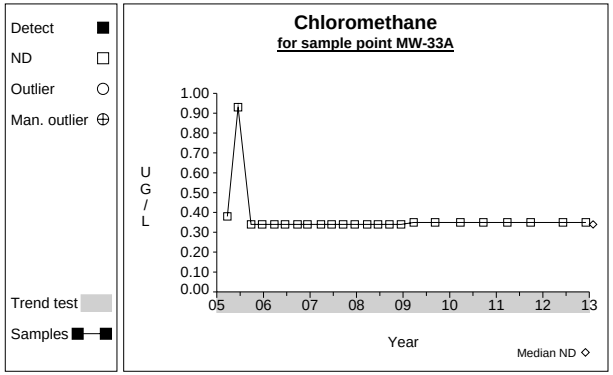
Graph 273



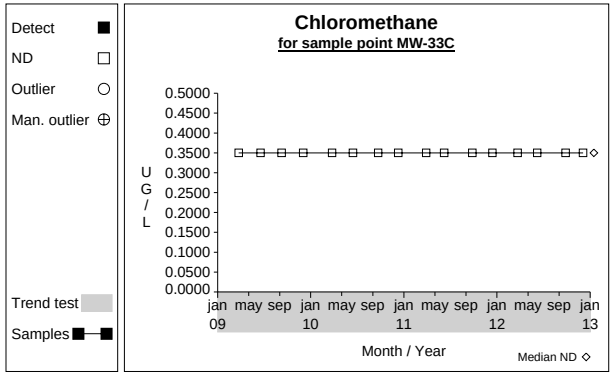
Graph 274



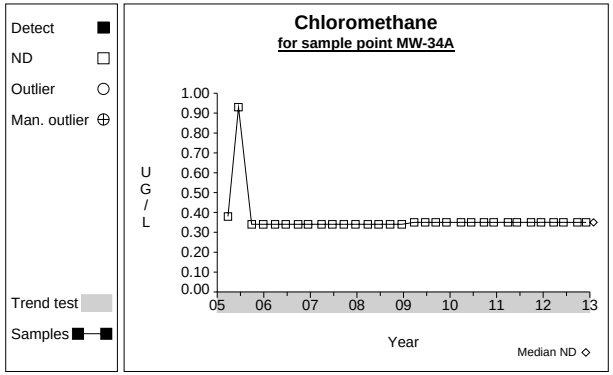
Graph 275



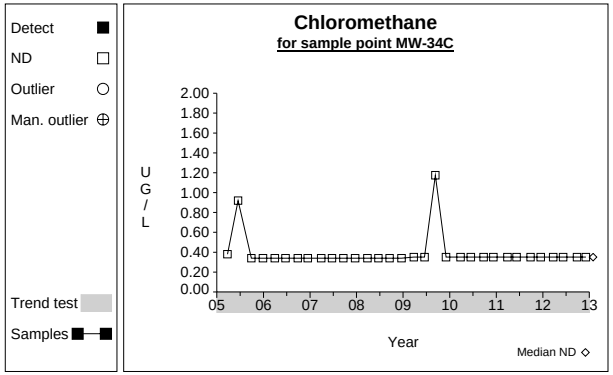
Graph 276



Graph 277

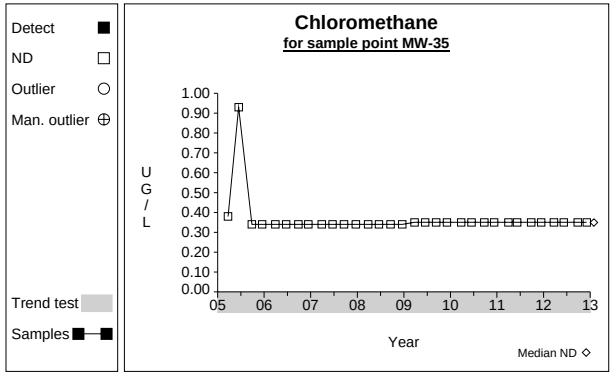


Graph 278

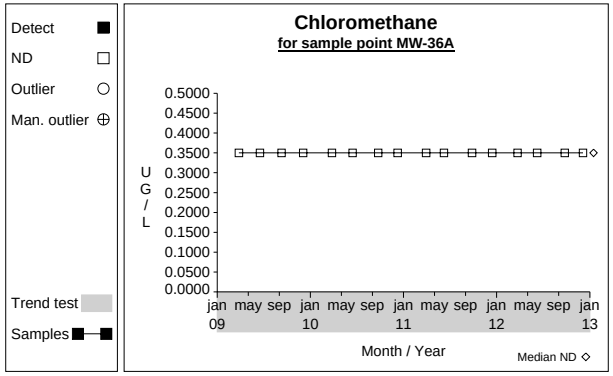


Graph 279

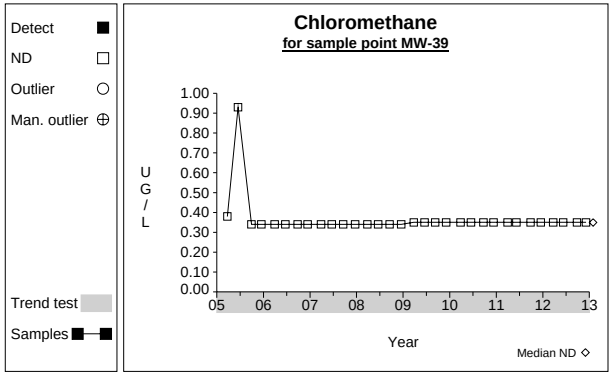
Time Series



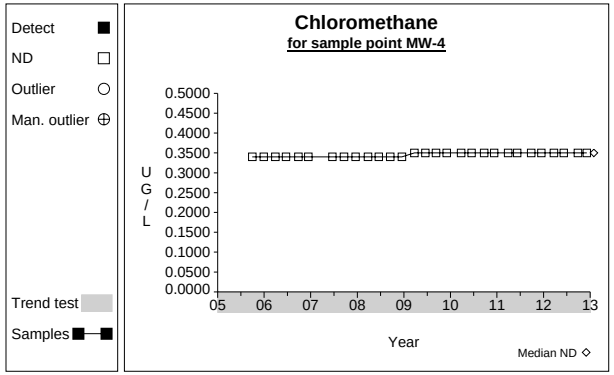
Graph 280



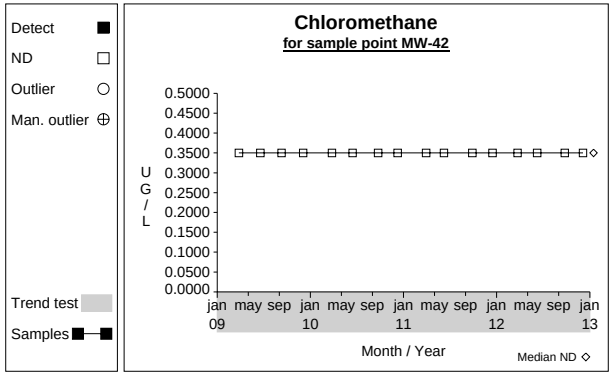
Graph 281



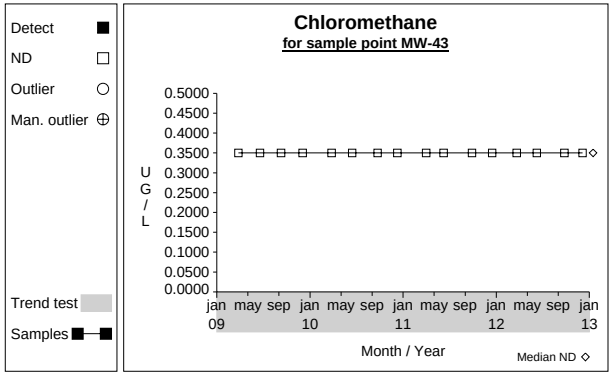
Graph 282



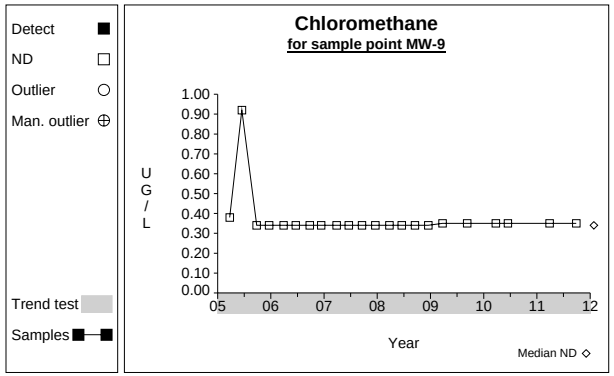
Graph 283



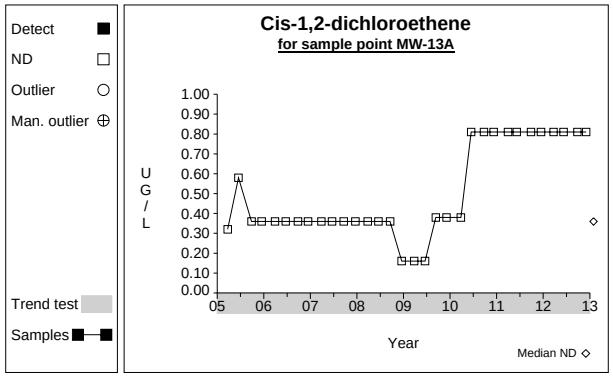
Graph 284



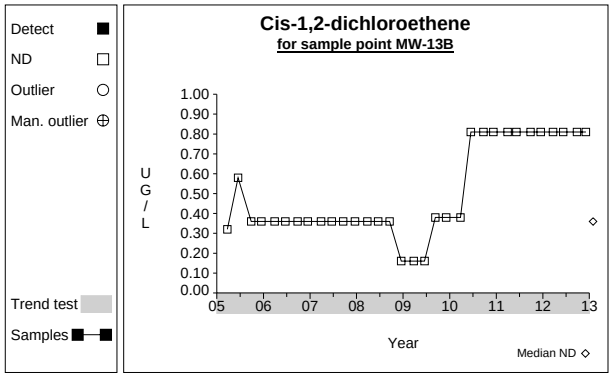
Graph 285



Graph 286

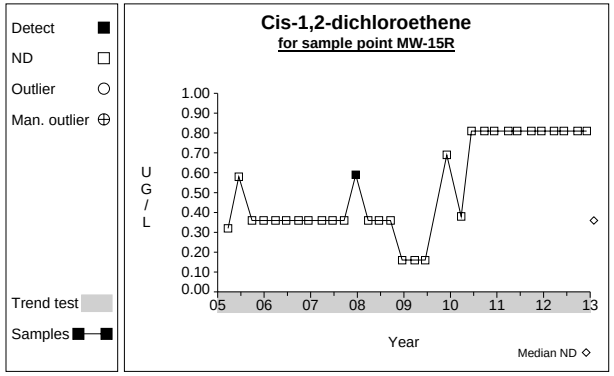


Graph 287

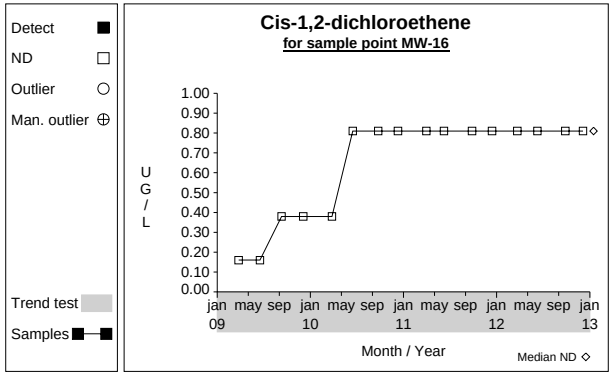


Graph 288

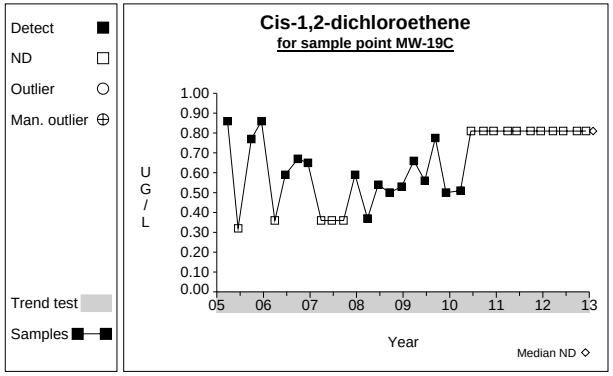
Time Series



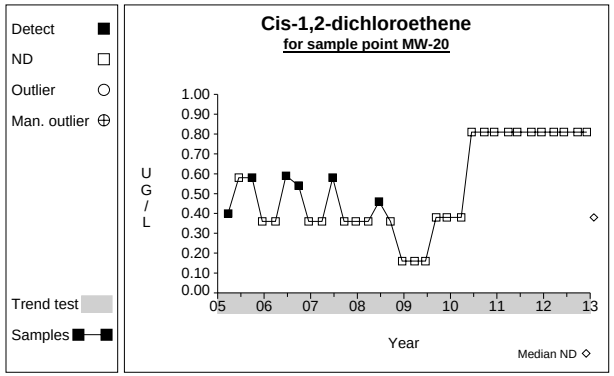
Graph 289



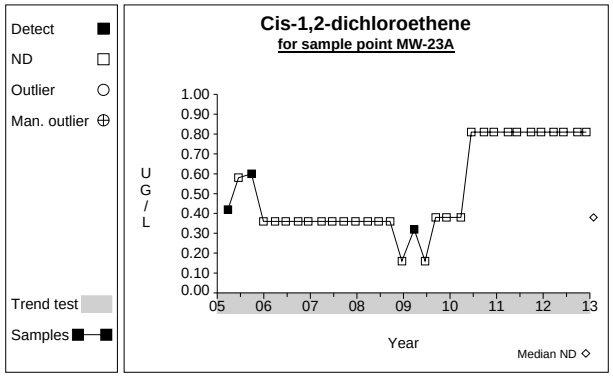
Graph 290



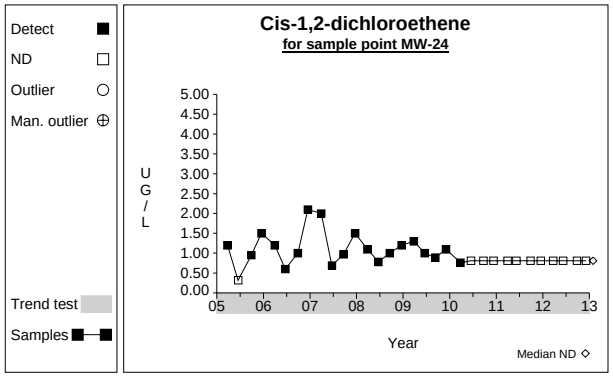
Graph 291



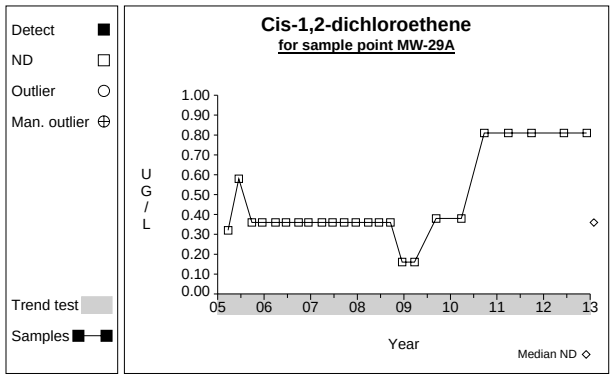
Graph 292



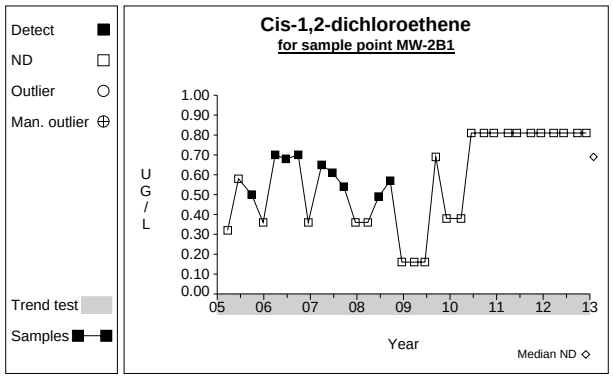
Graph 293



Graph 294



Graph 295



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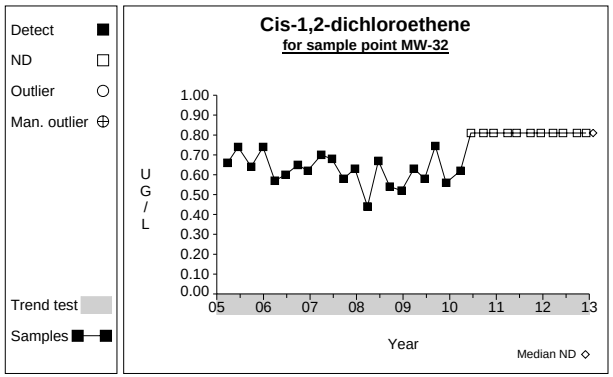
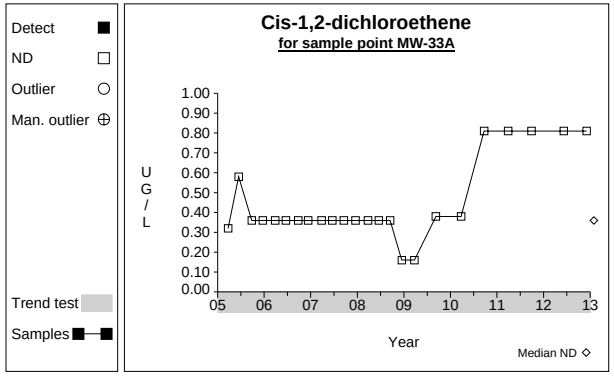
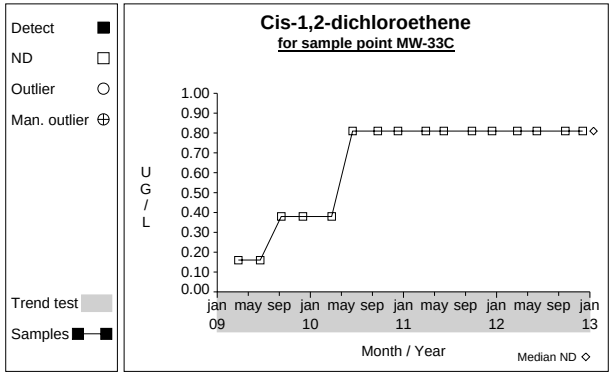


Graph 297

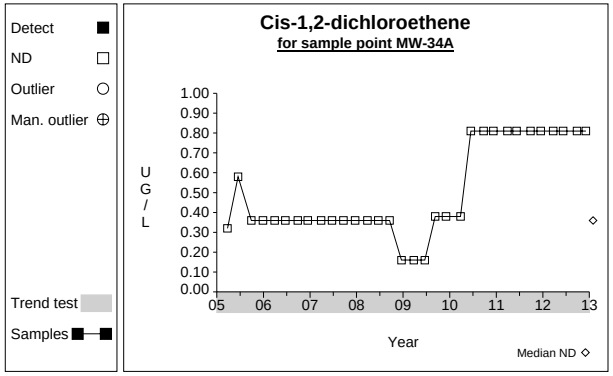
Time Series



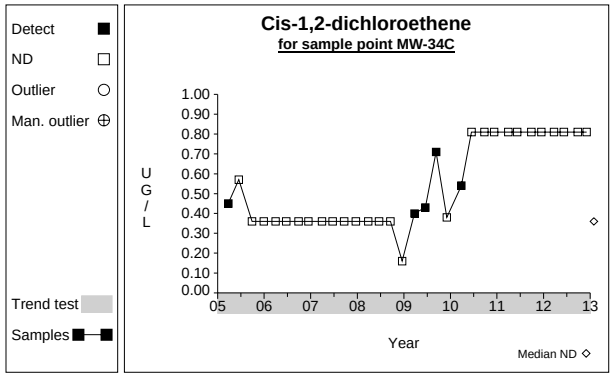
Graph 298



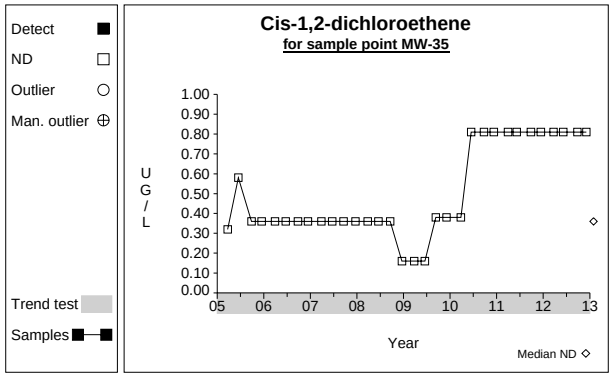
Graph 299



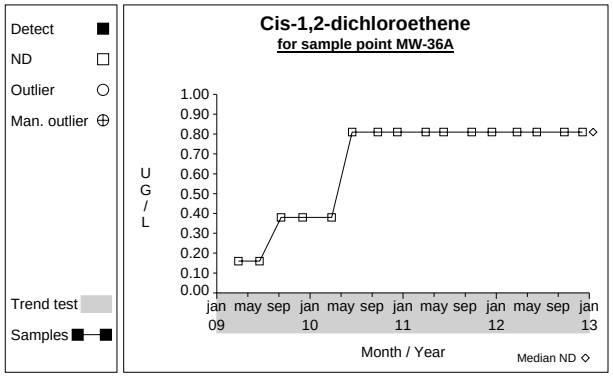
Graph 300



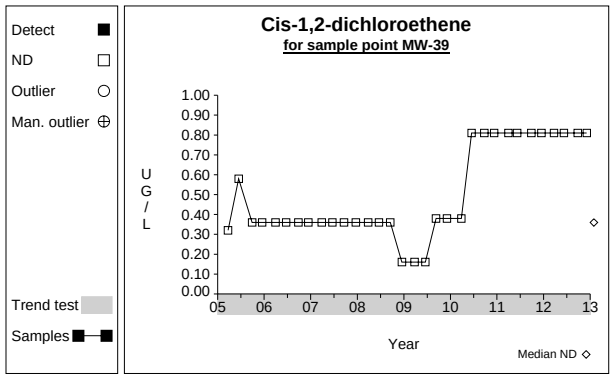
Graph 301



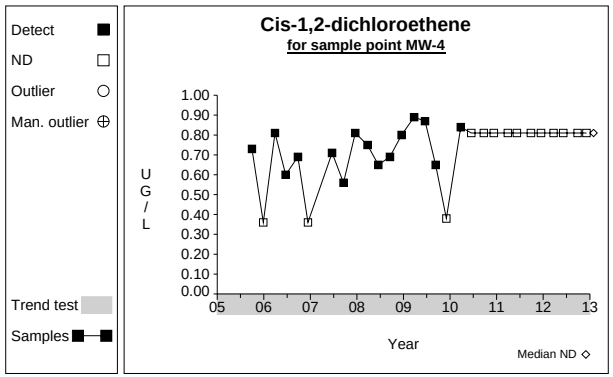
Graph 302



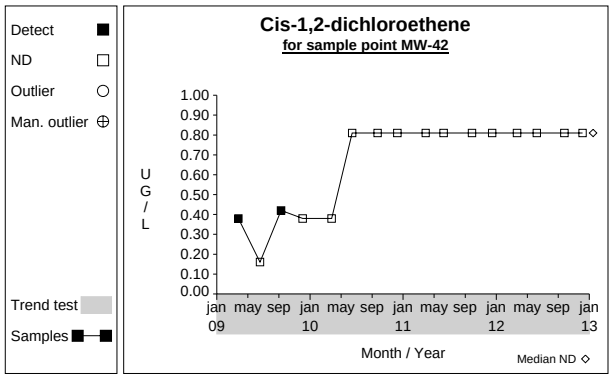
Graph 303



Graph 304

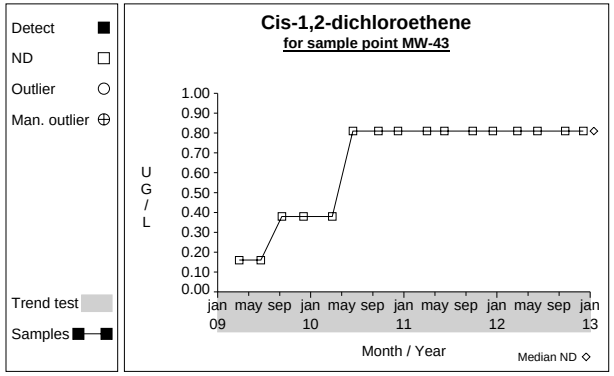


Graph 305

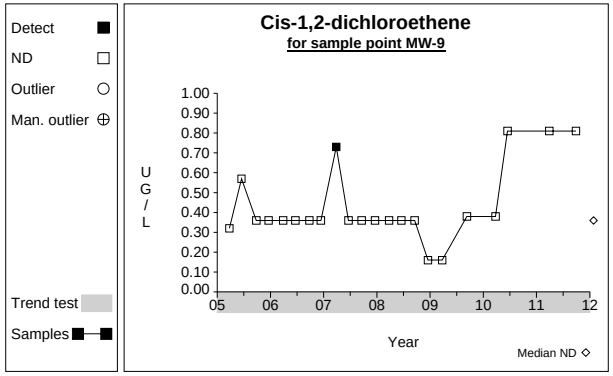


Graph 306

Time Series



Graph 307



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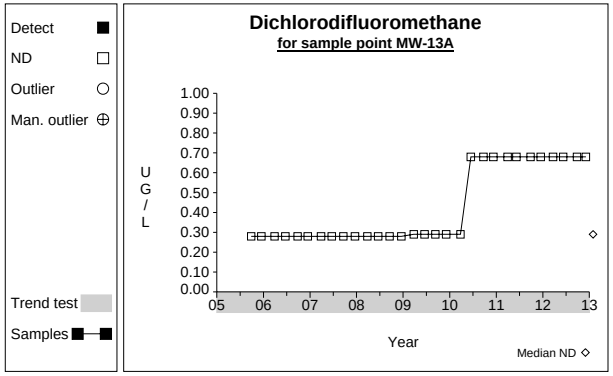
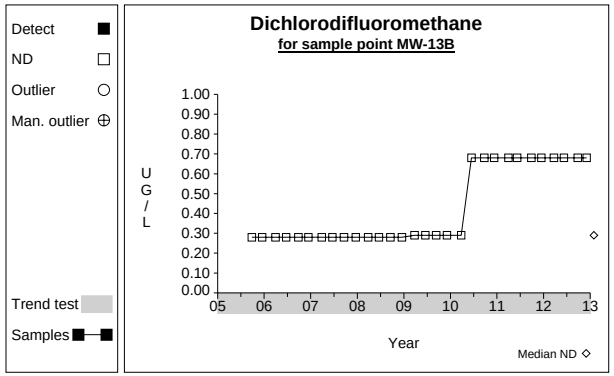
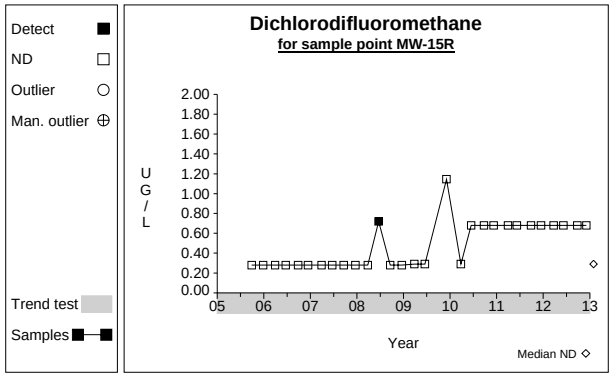


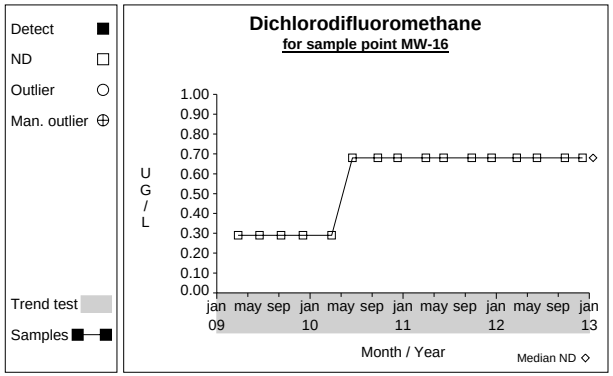
Graph 309



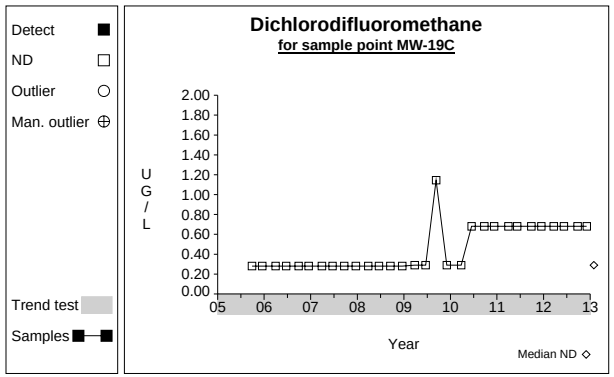
Graph 310



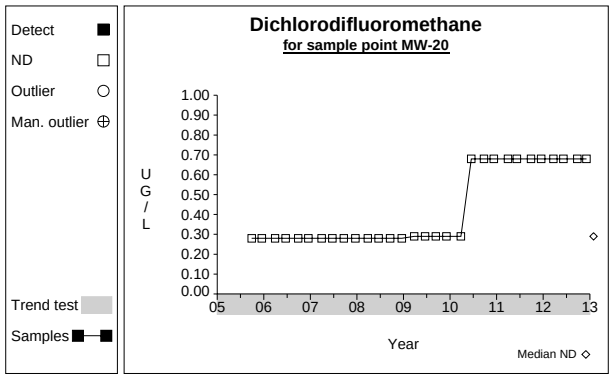
Graph 311



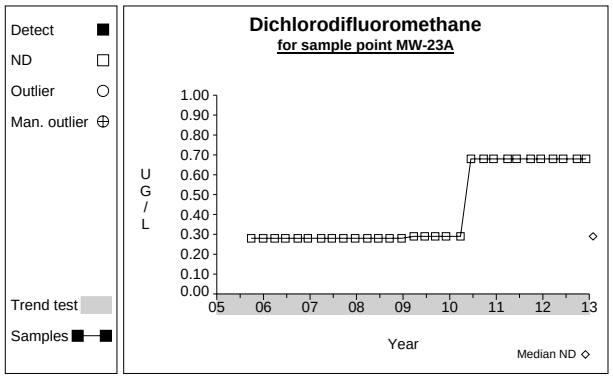
Graph 312



Graph 313

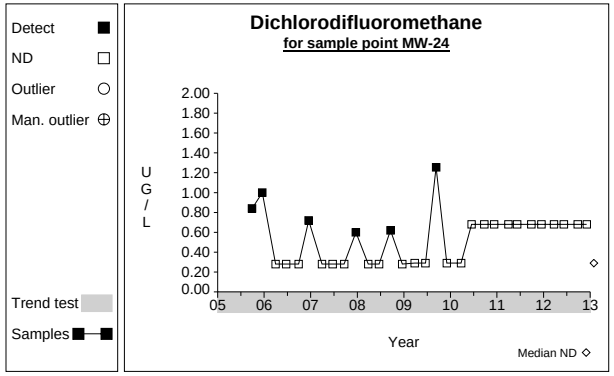


Graph 314

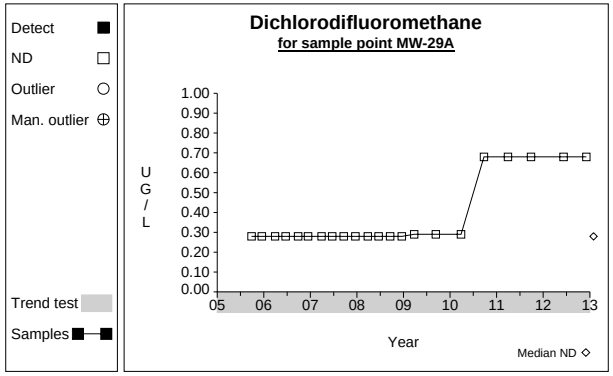


Graph 315

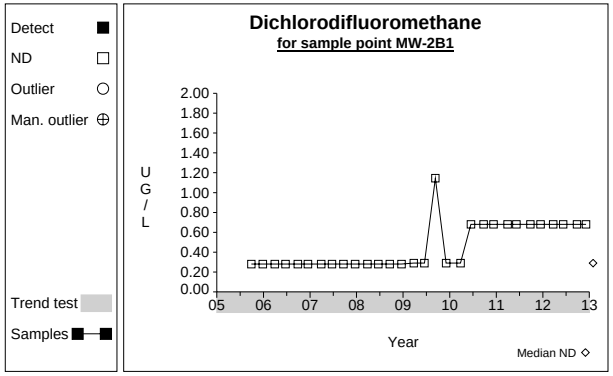
Time Series



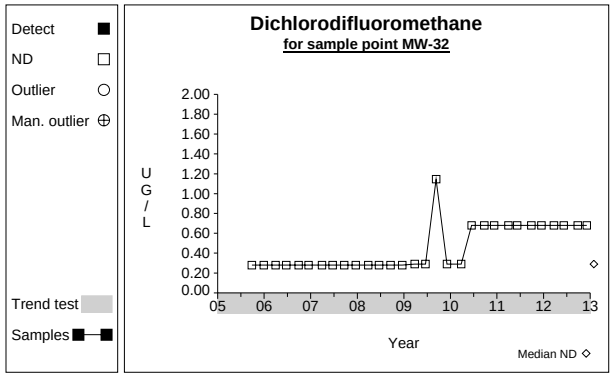
Graph 316



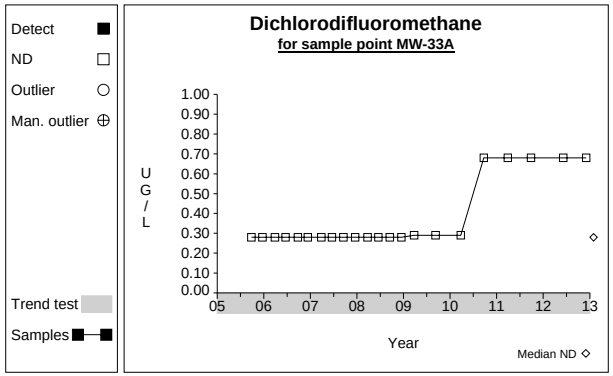
Graph 317



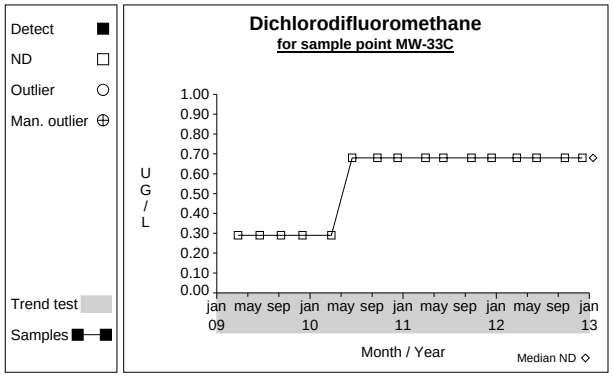
Graph 318



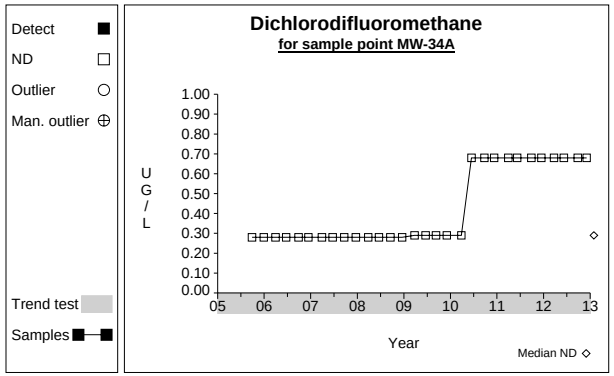
Graph 319



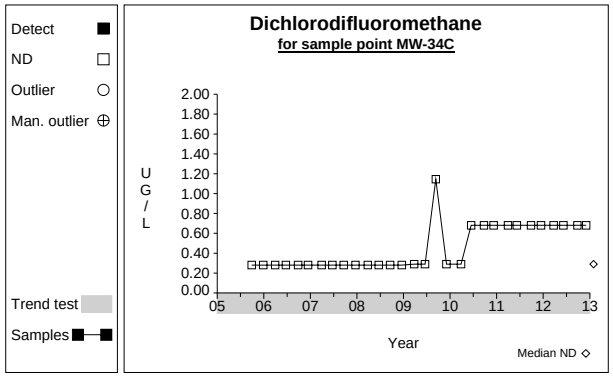
Graph 320



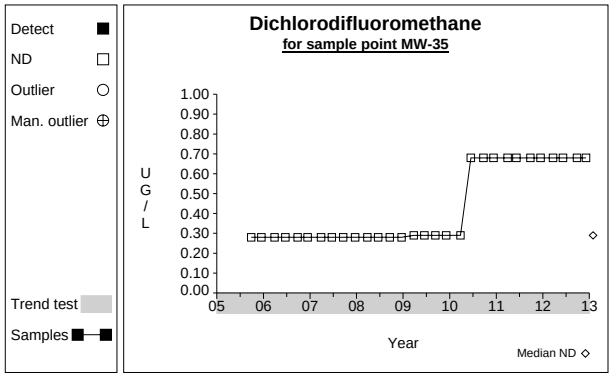
Graph 321



Graph 322

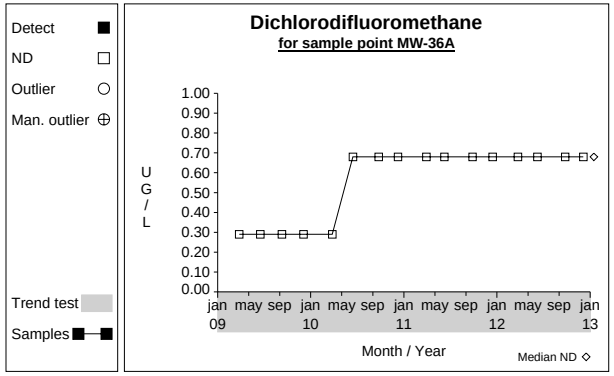


Graph 323

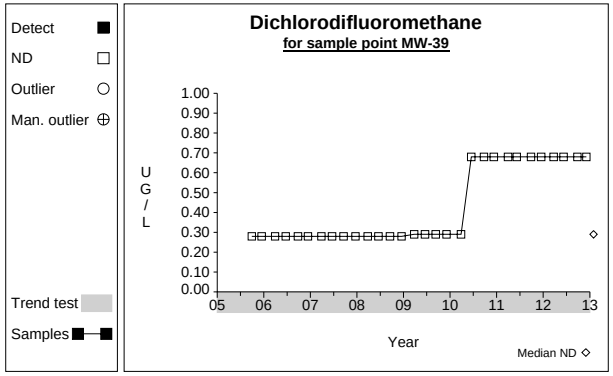


Graph 324

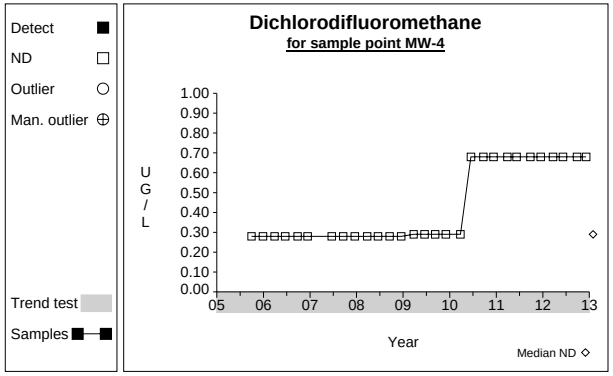
Time Series



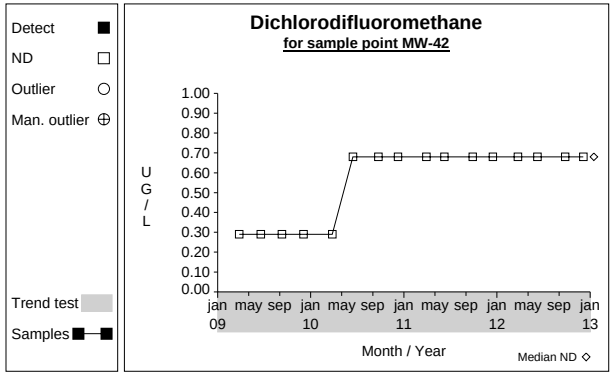
Graph 325



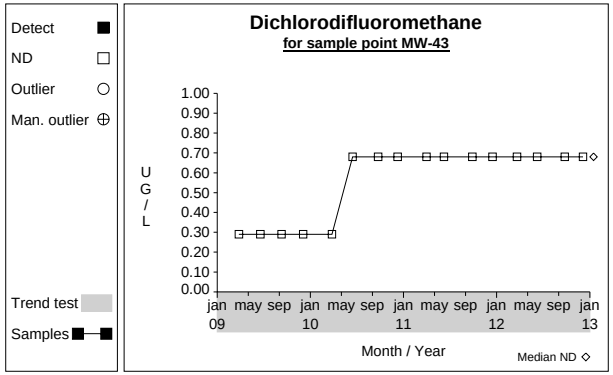
Graph 326



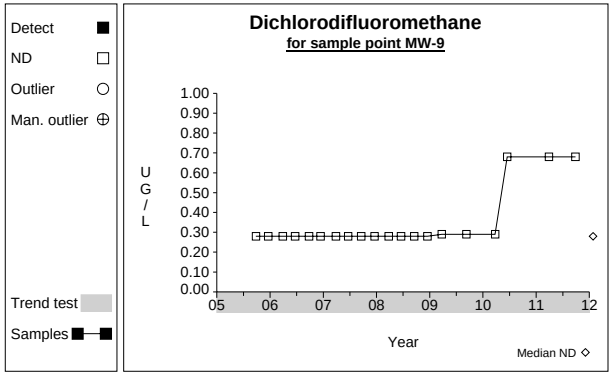
Graph 327



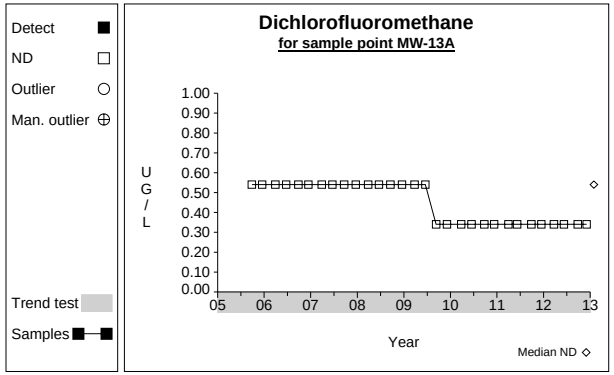
Graph 328



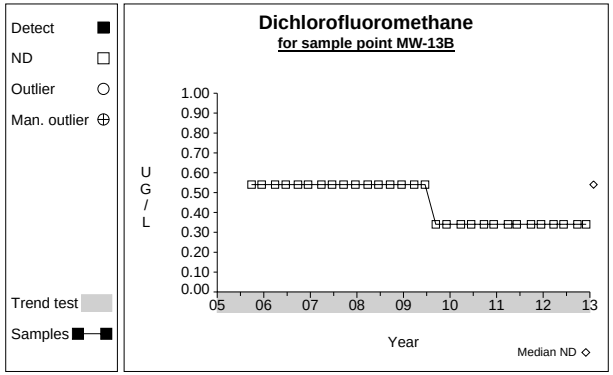
Graph 329



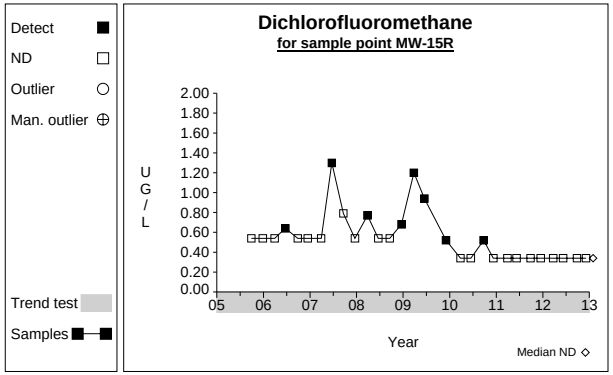
Graph 330



Graph 331

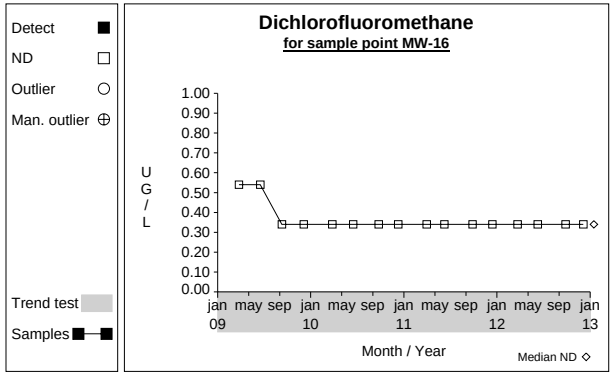


Graph 332

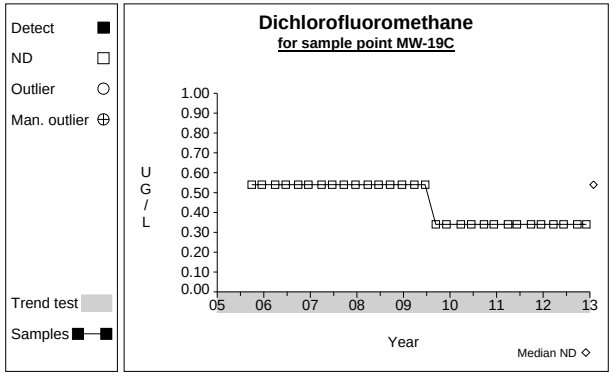


Graph 333

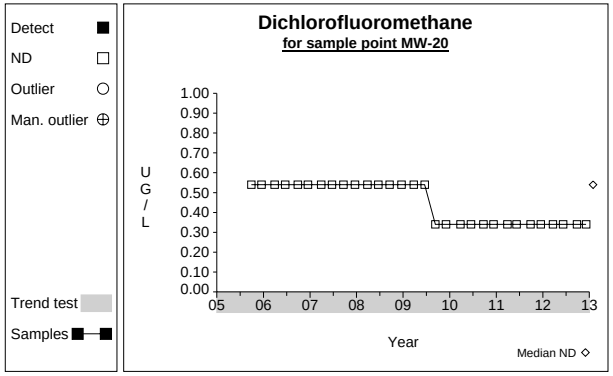
Time Series



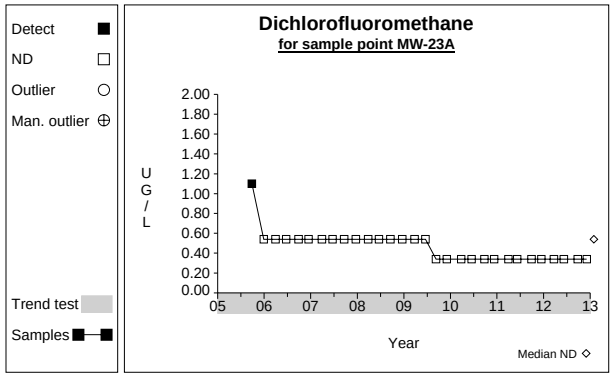
Graph 334



Graph 335



Graph 336



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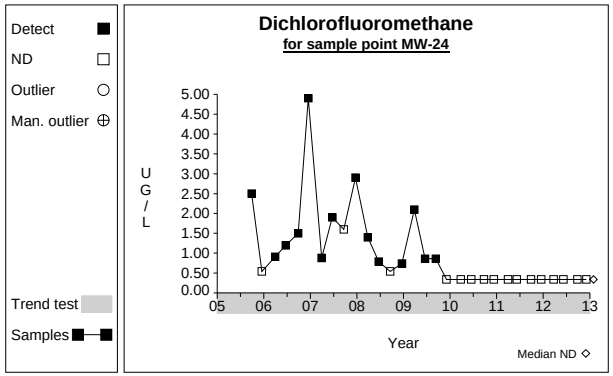
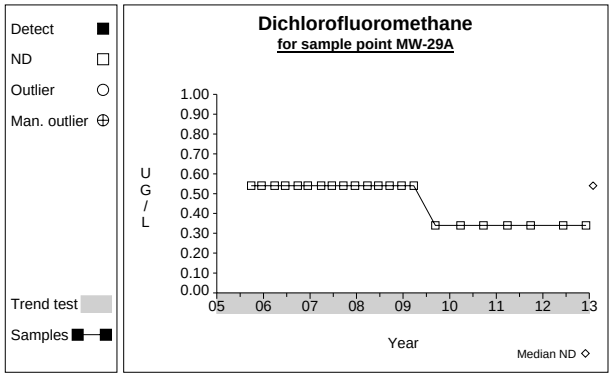
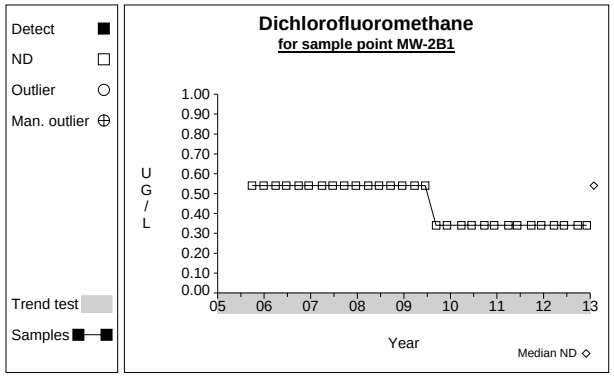


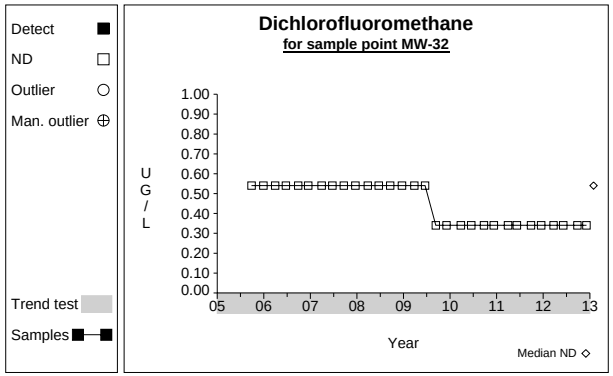
Graph 338



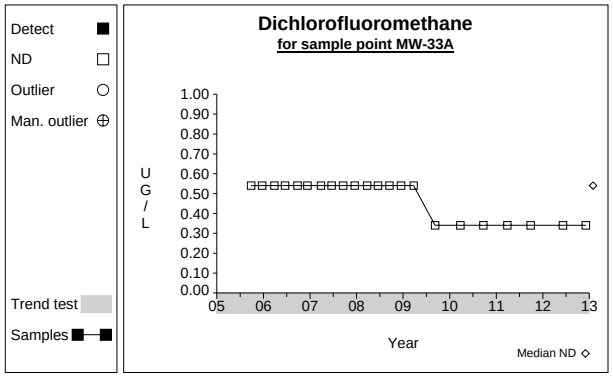
Graph 339



Graph 340

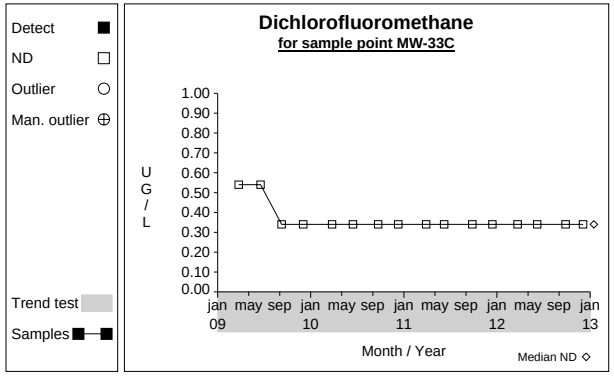


Graph 341

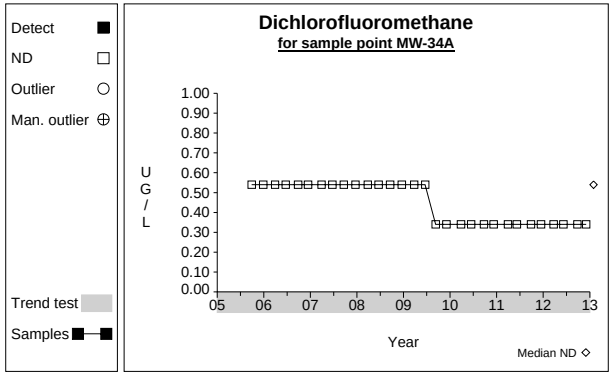


Graph 342

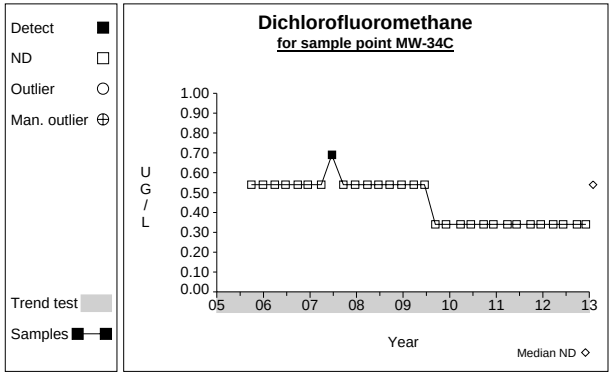
Time Series



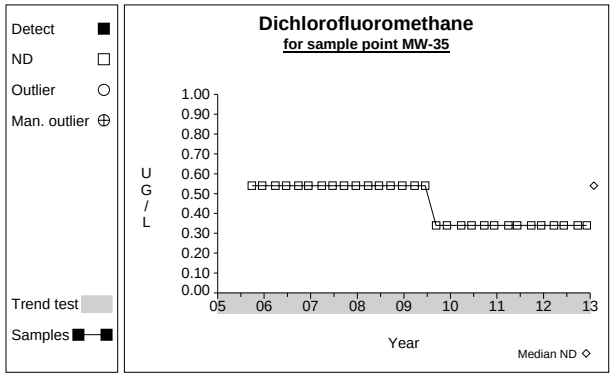
Graph 343



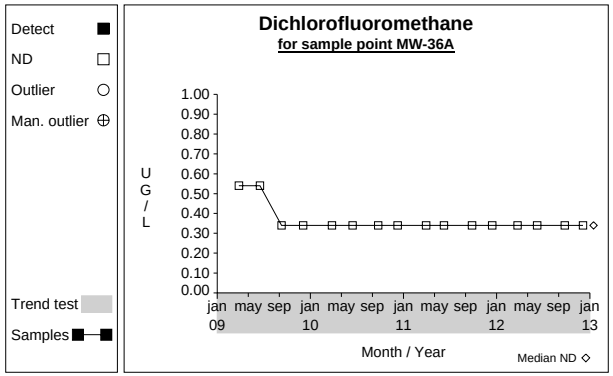
Graph 344



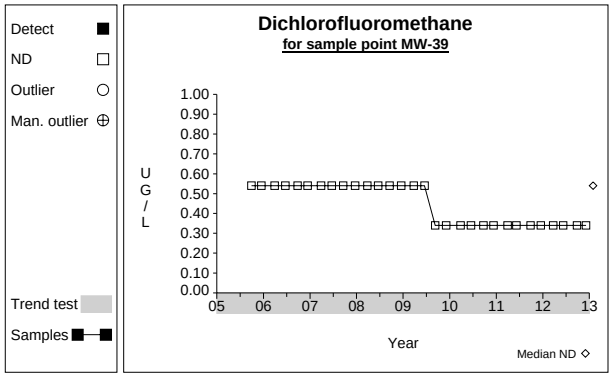
Graph 345



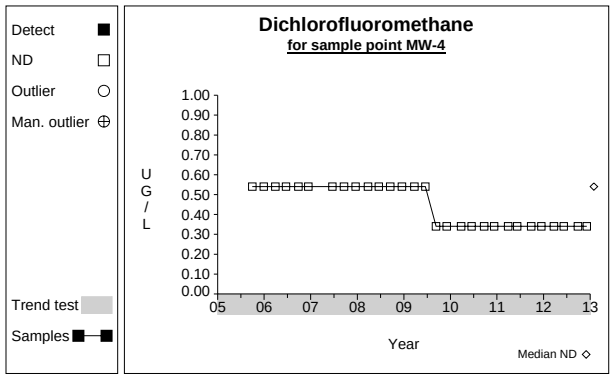
Graph 346



Graph 347



Graph 348



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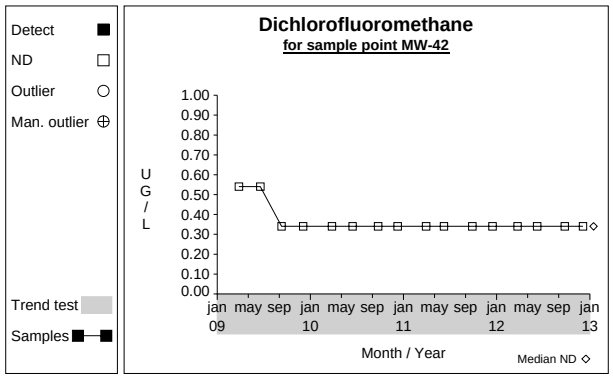
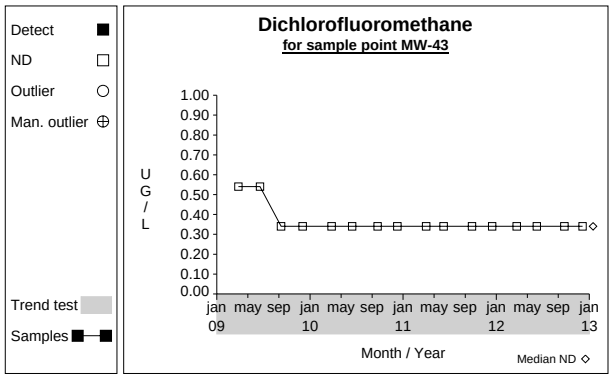
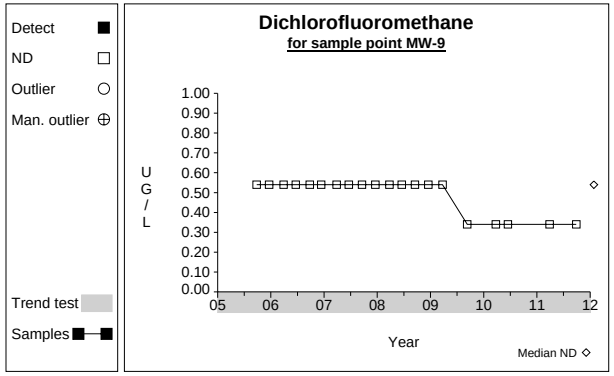


Graph 350

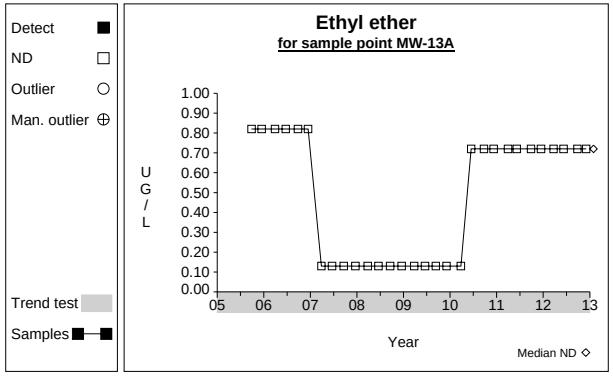


Graph 351

Time Series



Graph 352



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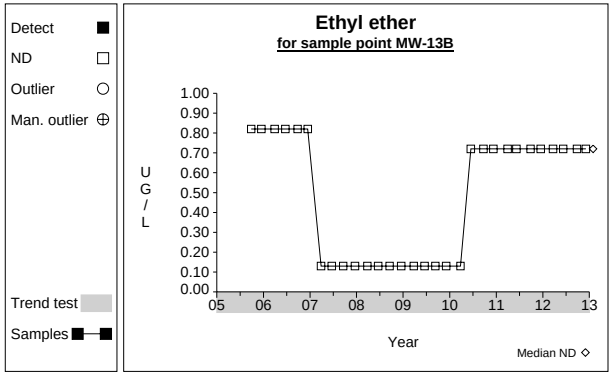
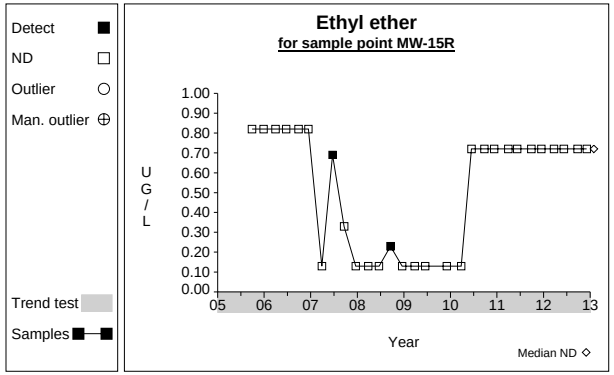
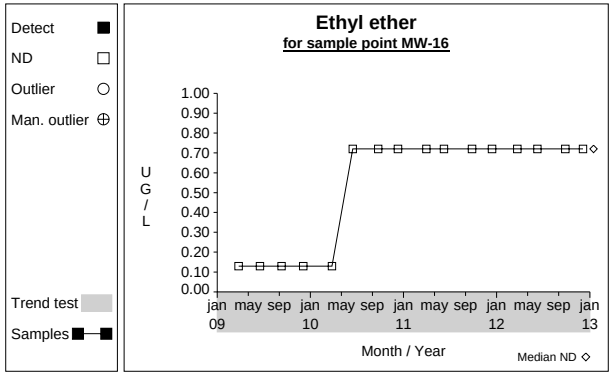


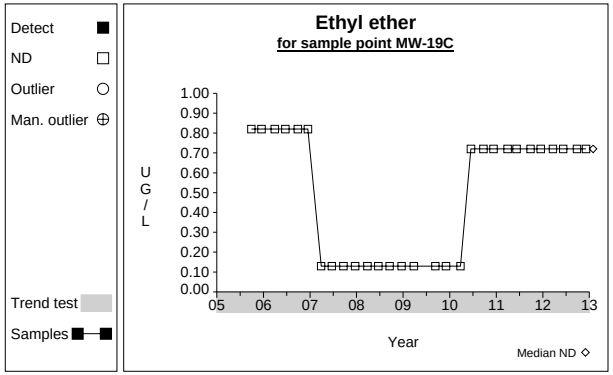
Graph 354



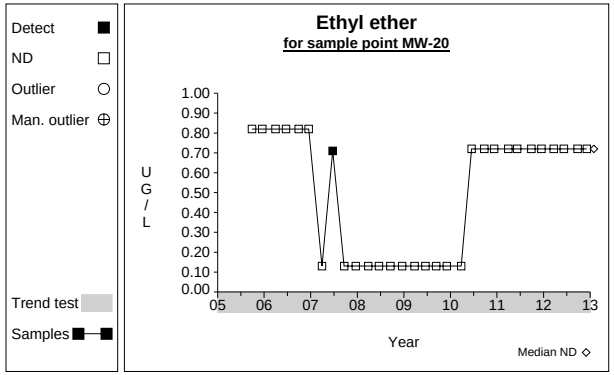
Graph 355



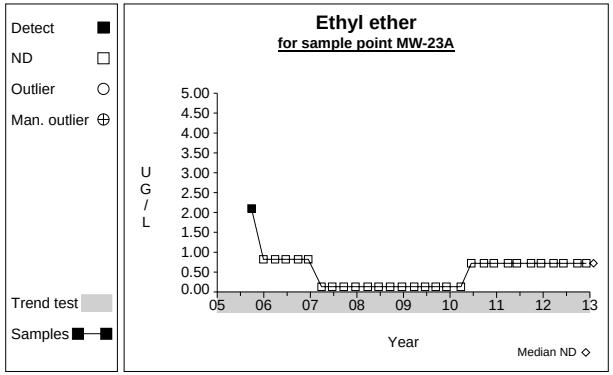
Graph 356



Graph 357



Graph 358



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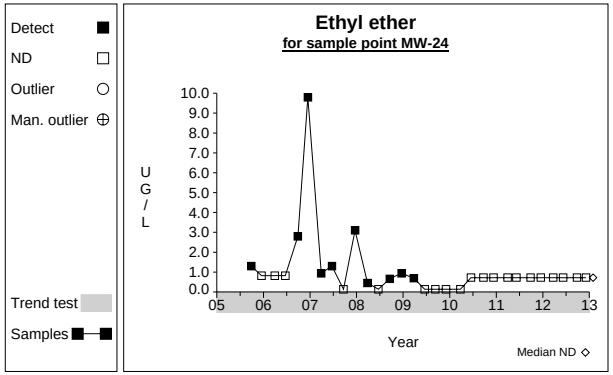
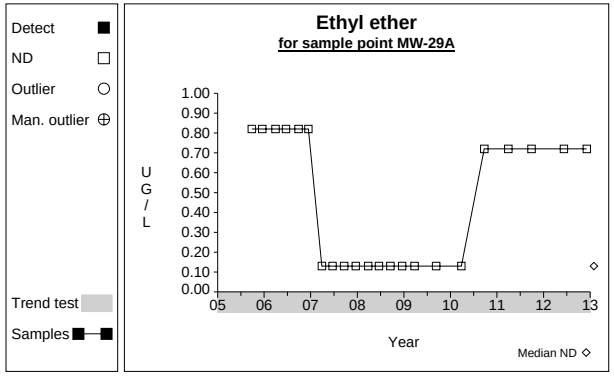
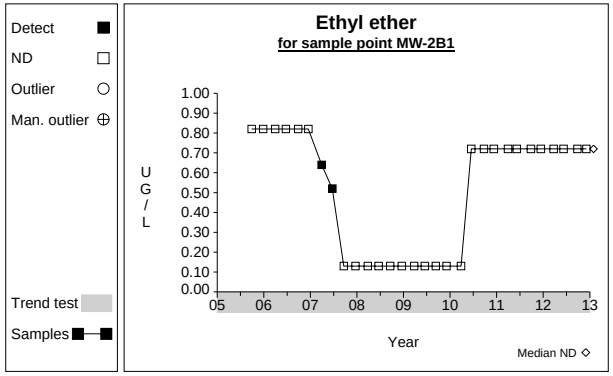


Graph 360

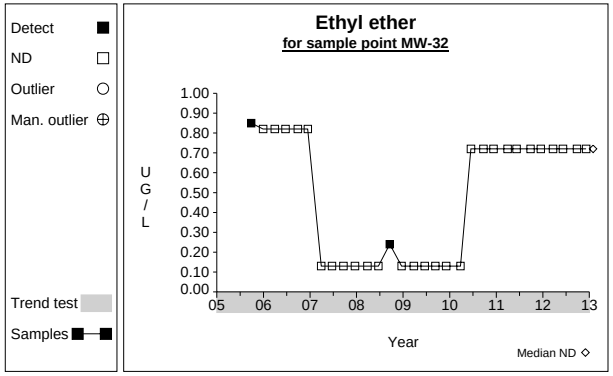
Time Series



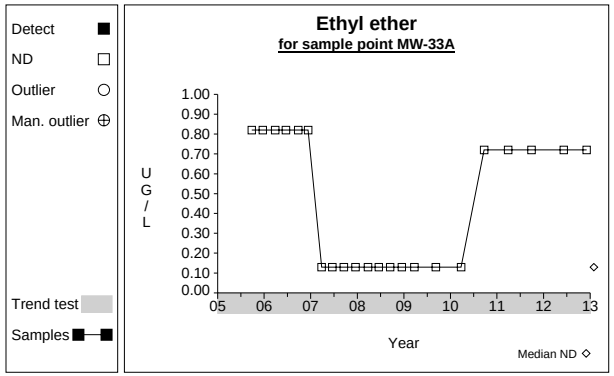
Graph 361



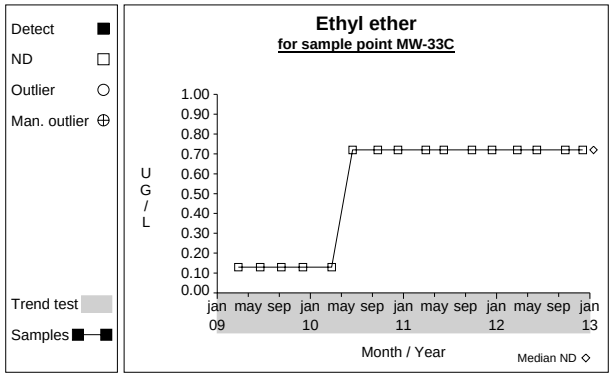
Graph 362



Graph 363



Graph 364



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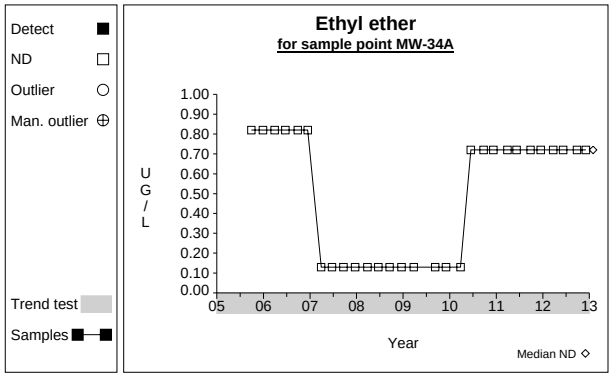
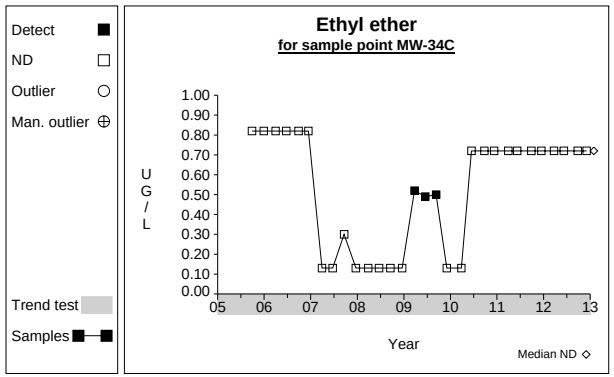
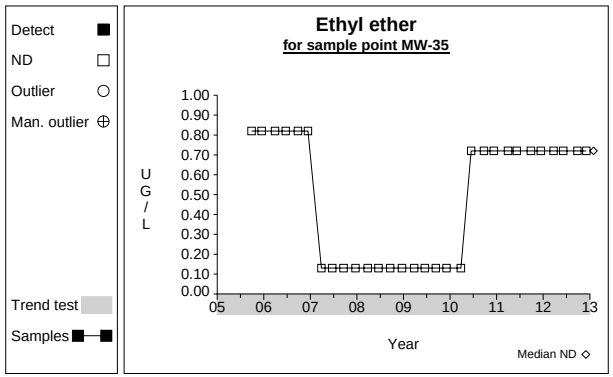


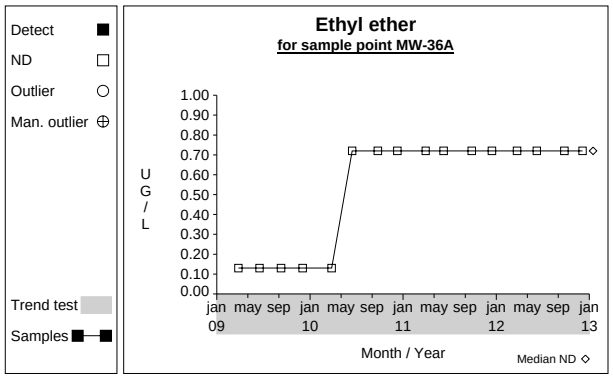
Graph 366



Graph 367

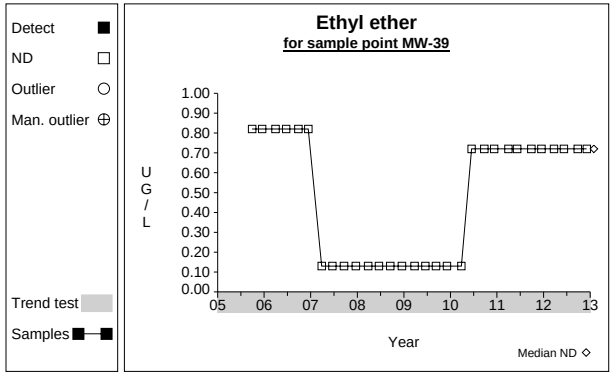


Graph 368

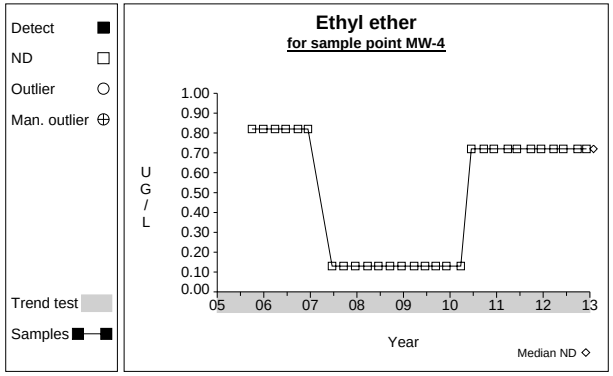


Graph 369

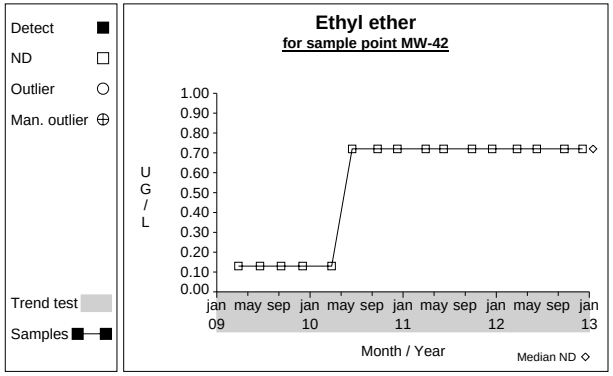
Time Series



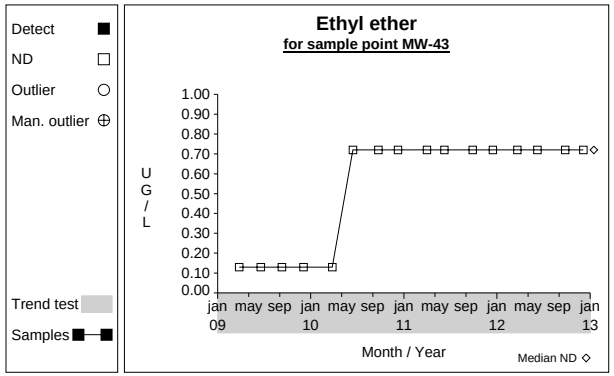
Graph 370



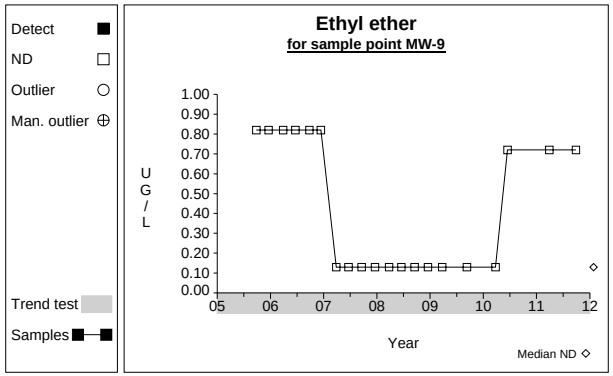
Graph 371



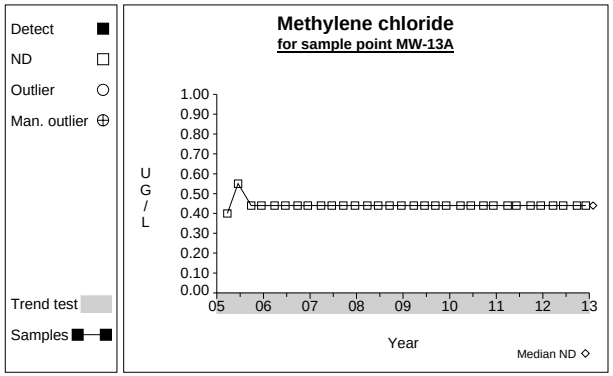
Graph 372



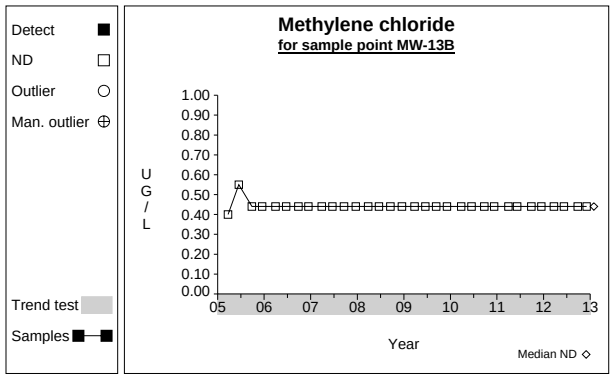
Graph 373



Graph 374



Graph 375



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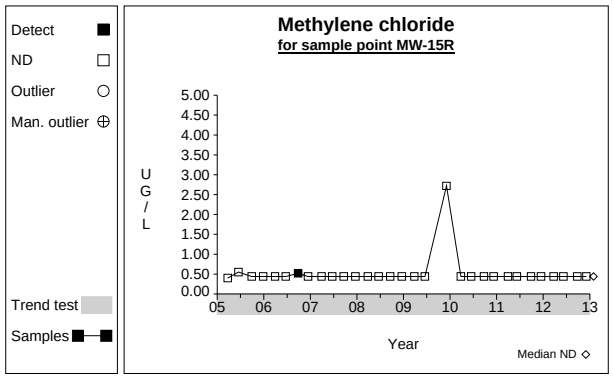
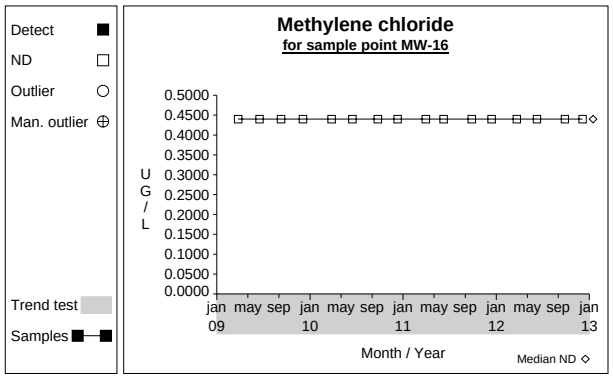
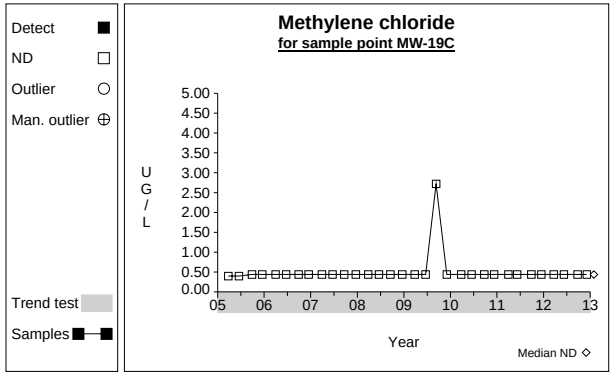


Graph 377

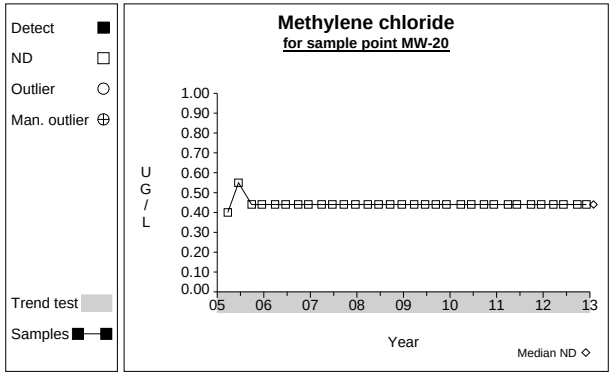


Graph 378

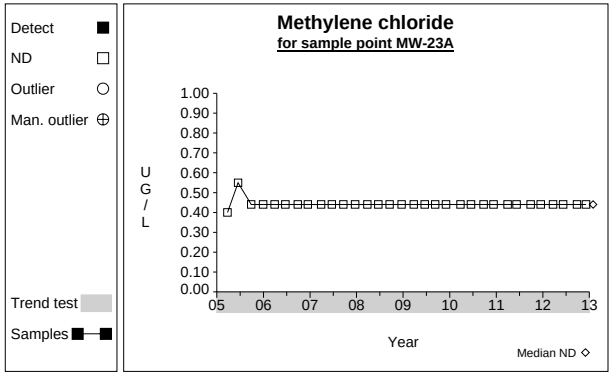
Time Series



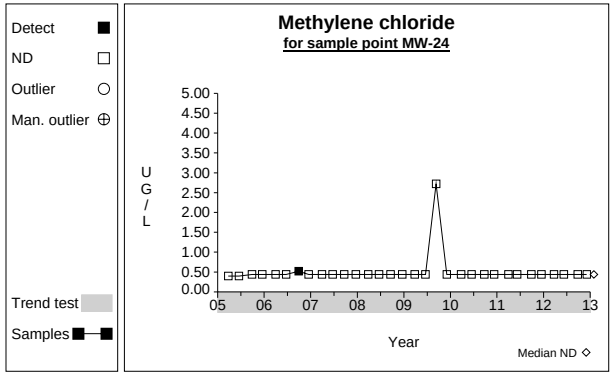
Graph 379



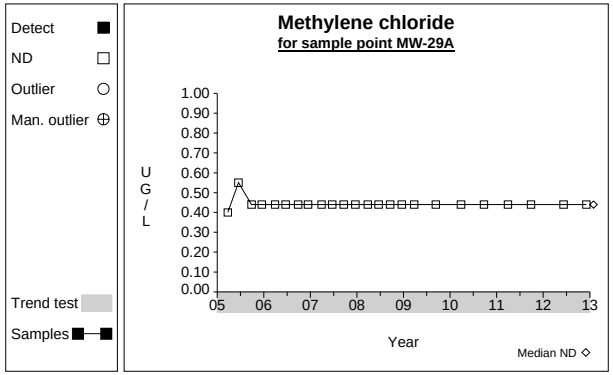
Graph 380



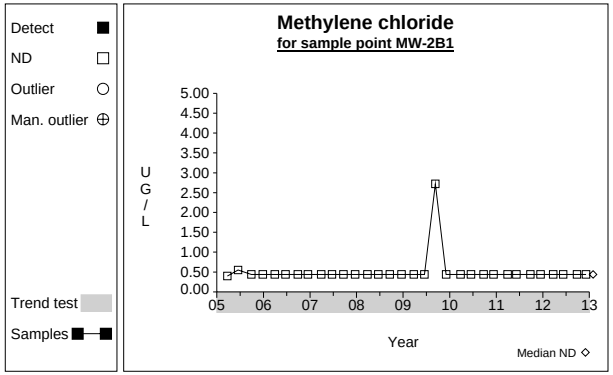
Graph 381



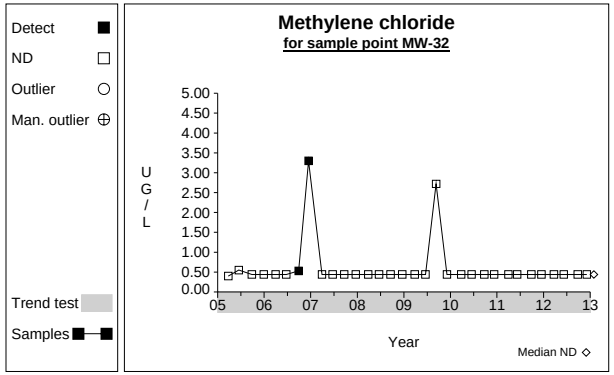
Graph 382



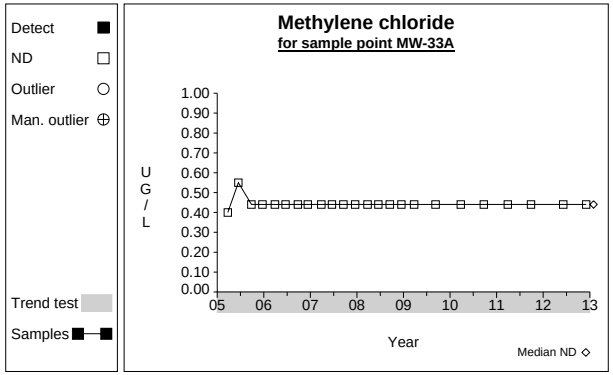
Graph 383



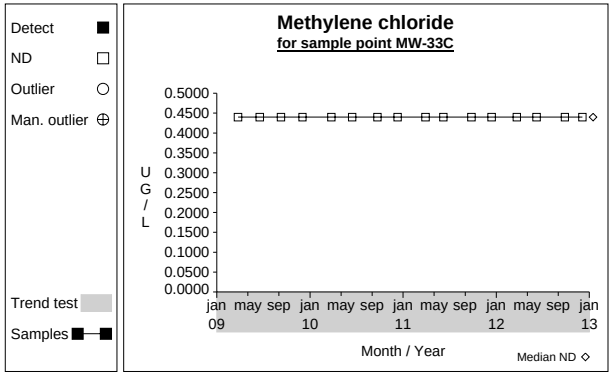
Graph 384



Graph 385

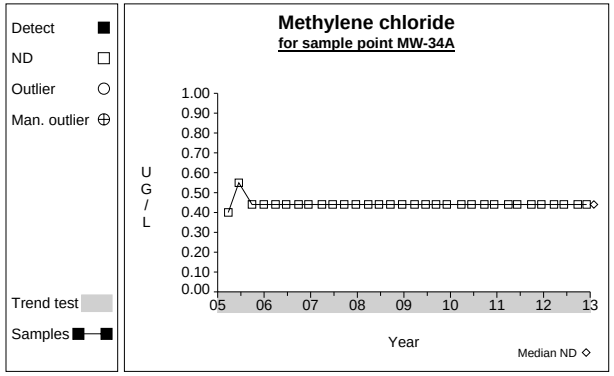


Graph 386

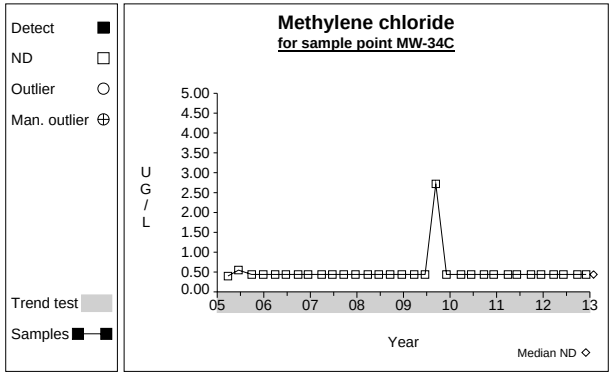


Graph 387

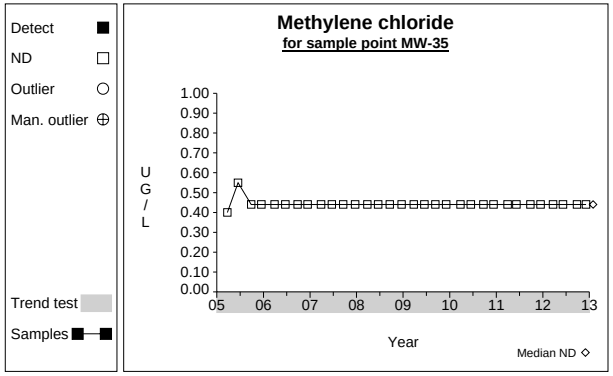
Time Series



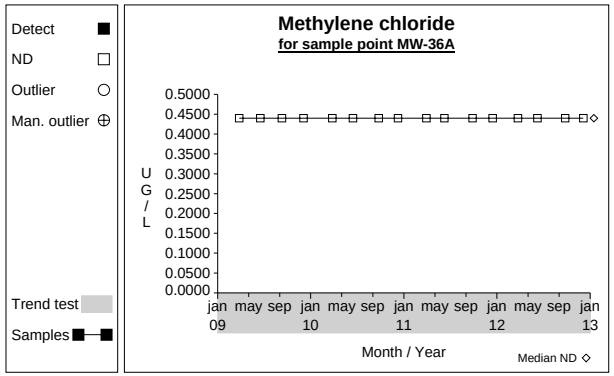
Graph 388



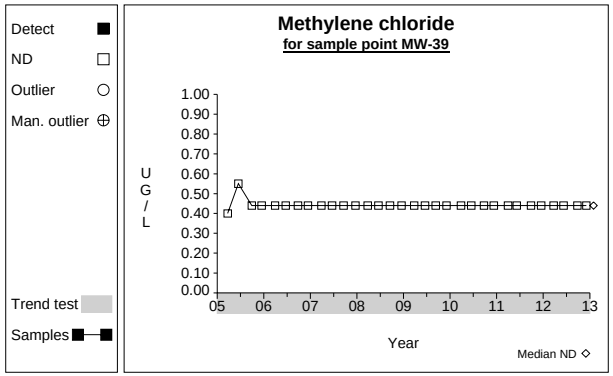
Graph 389



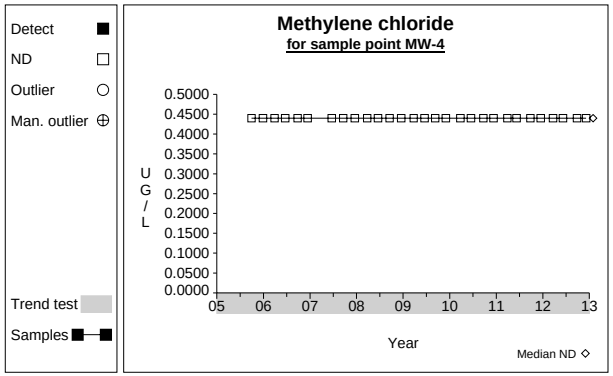
Graph 390



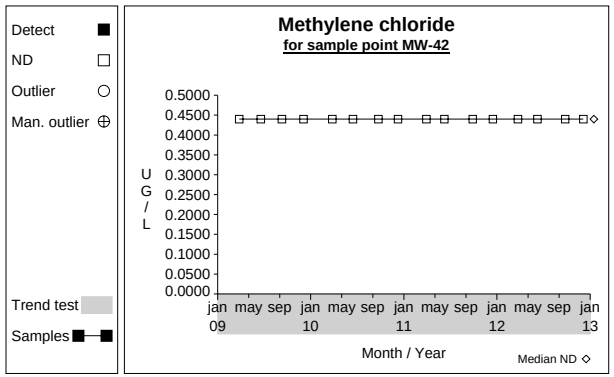
Graph 391



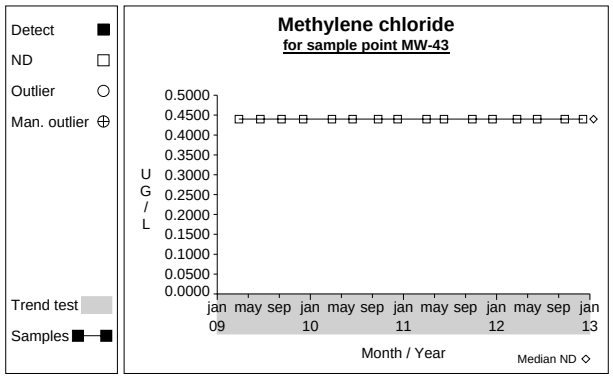
Graph 392



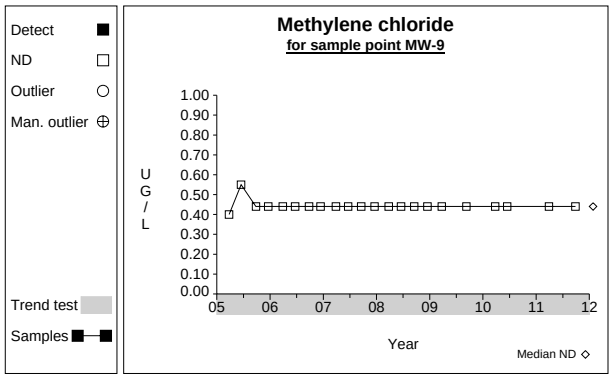
Graph 393



Graph 394

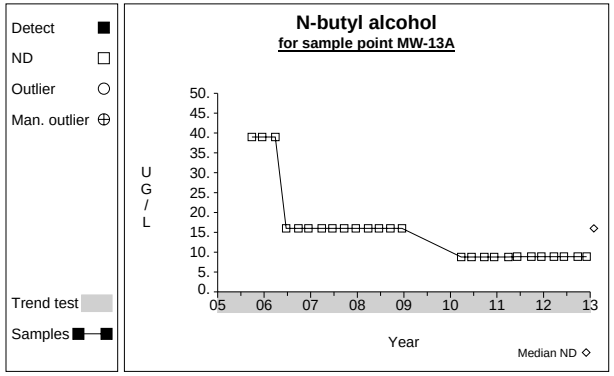


Graph 395

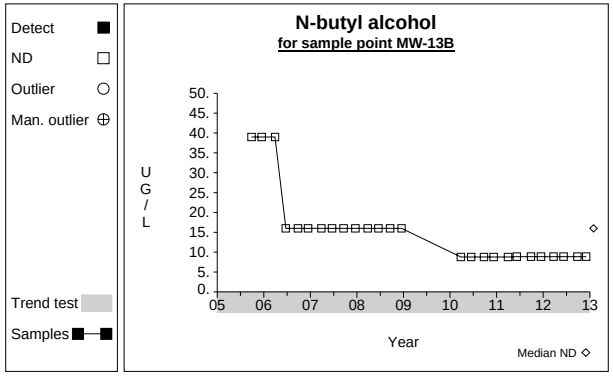


Graph 396

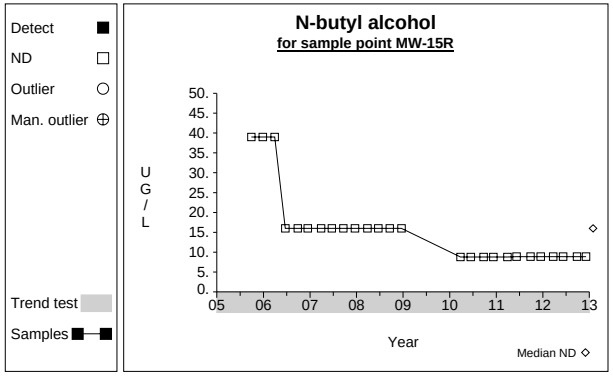
Time Series



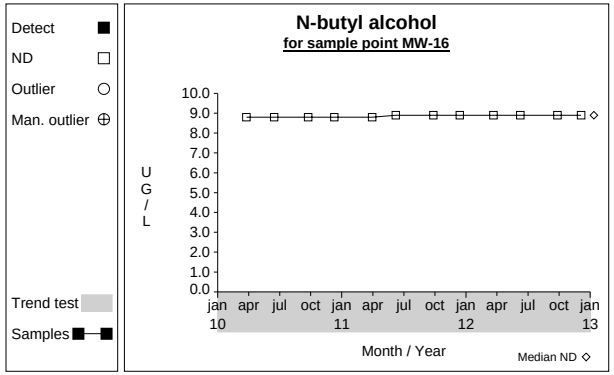
Graph 397



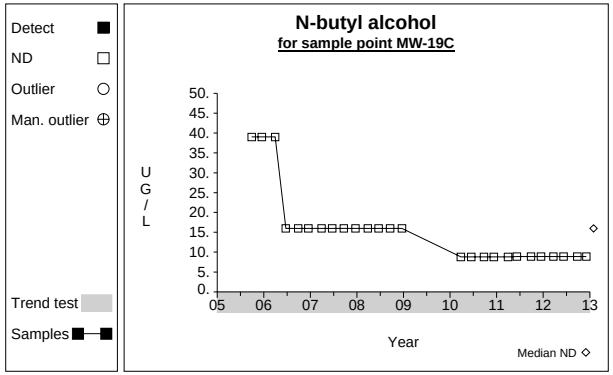
Graph 398



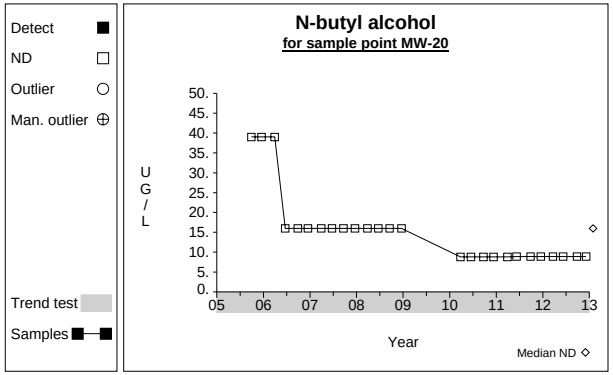
Graph 399



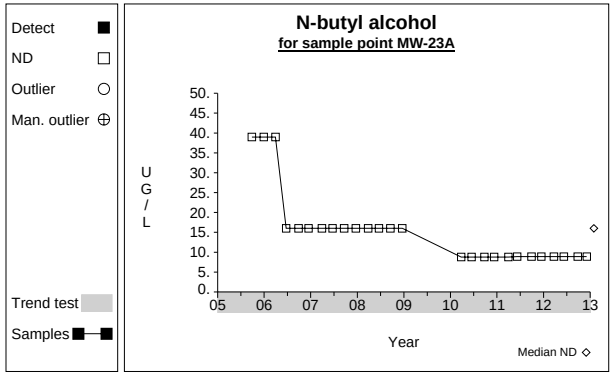
Graph 400



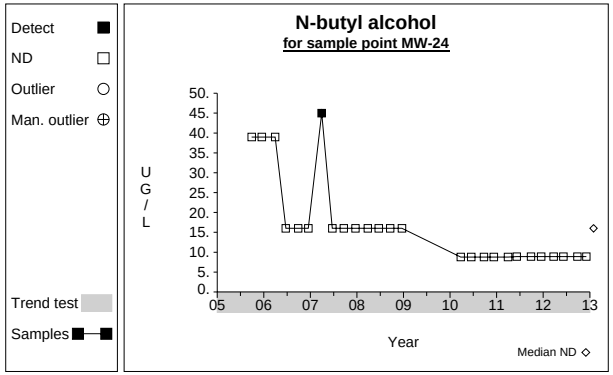
Graph 401



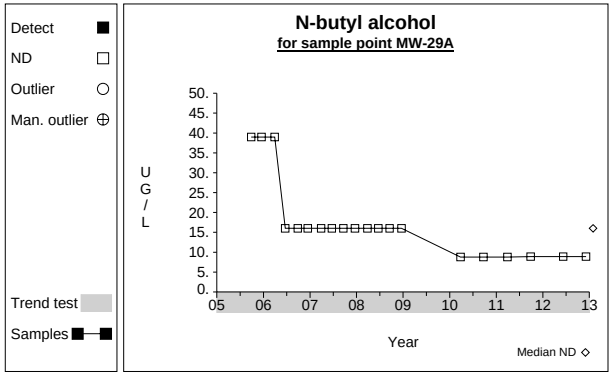
Graph 402



Graph 403

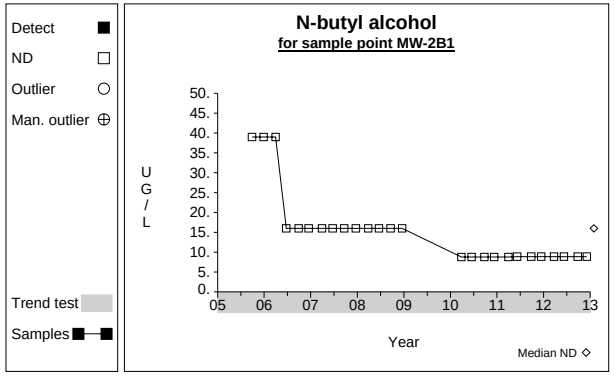


Graph 404

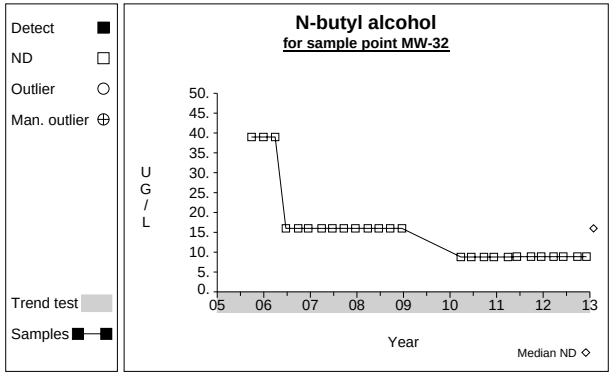


Graph 405

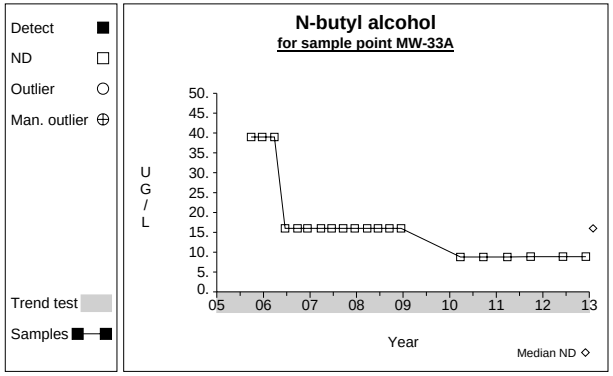
Time Series



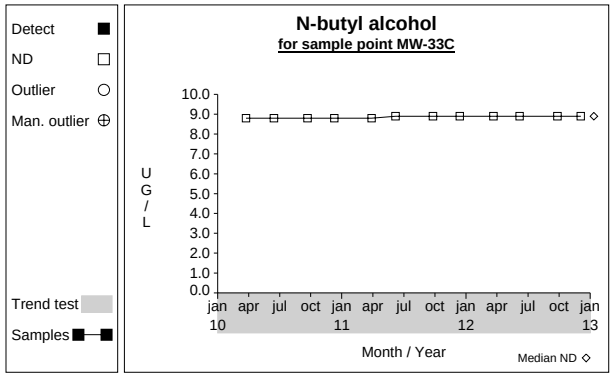
Graph 406



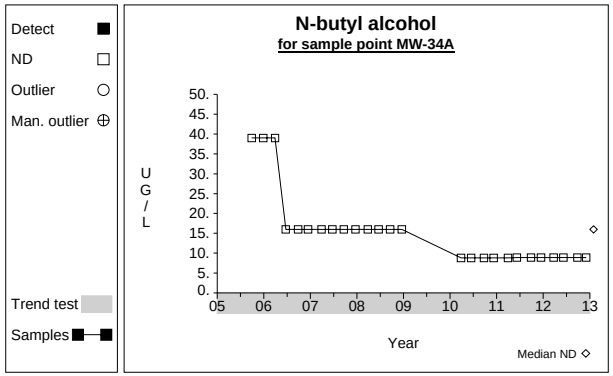
Graph 407



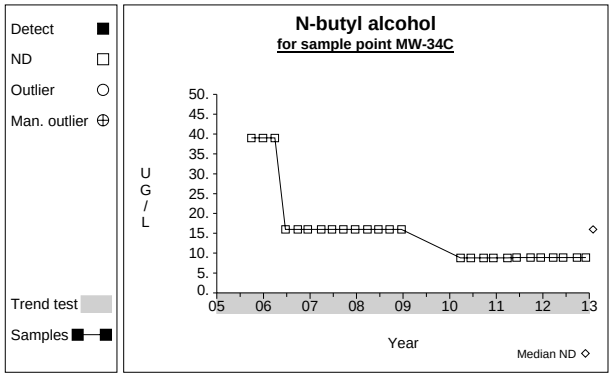
Graph 408



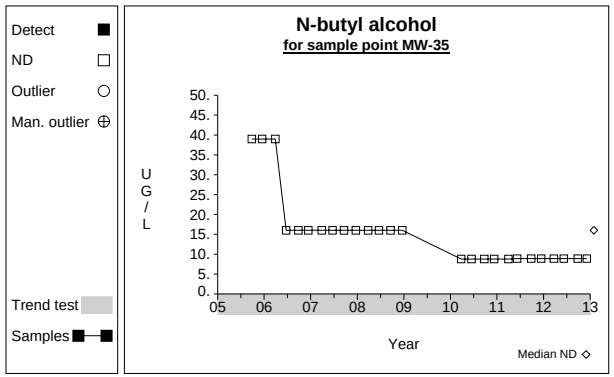
Graph 409



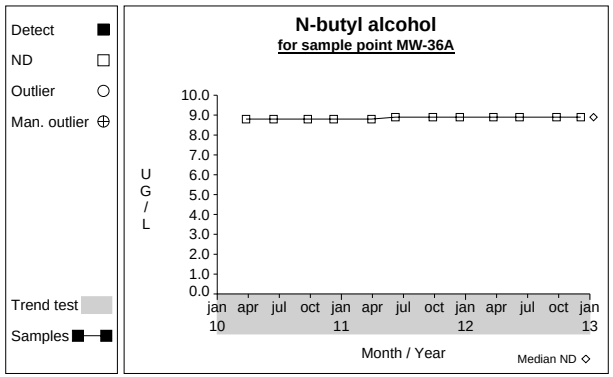
Graph 410



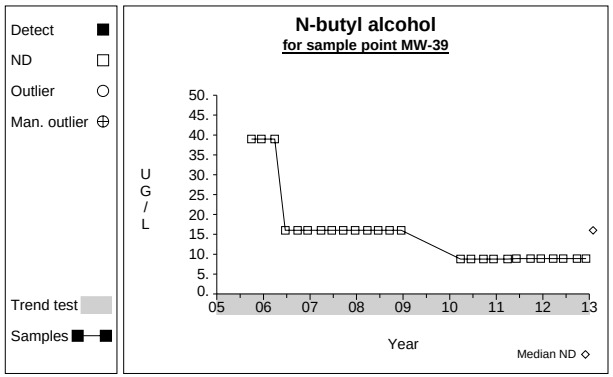
Graph 411



Graph 412

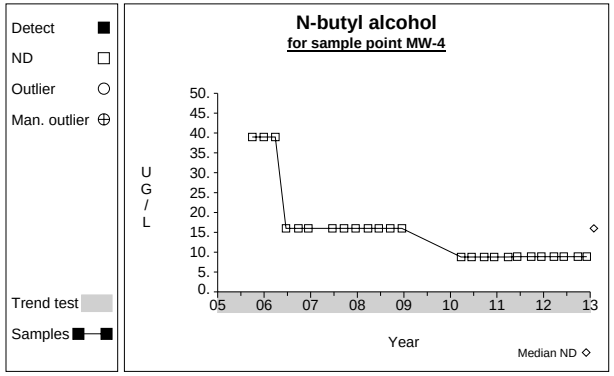


Graph 413

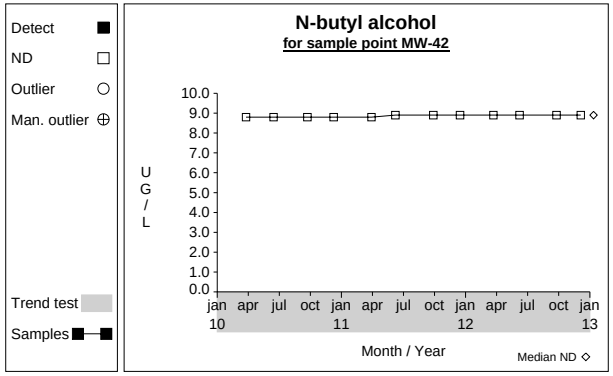


Graph 414

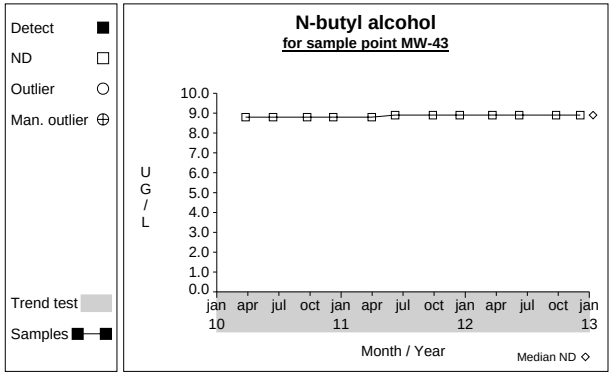
Time Series



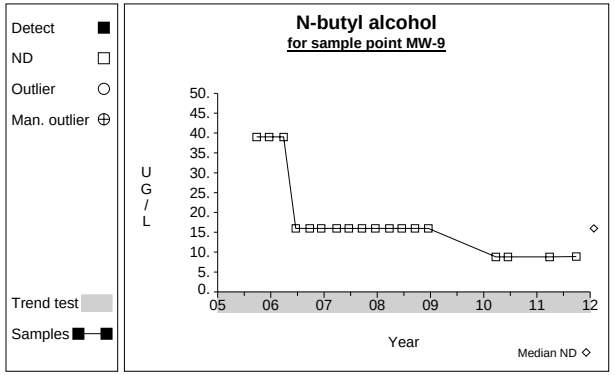
Graph 415



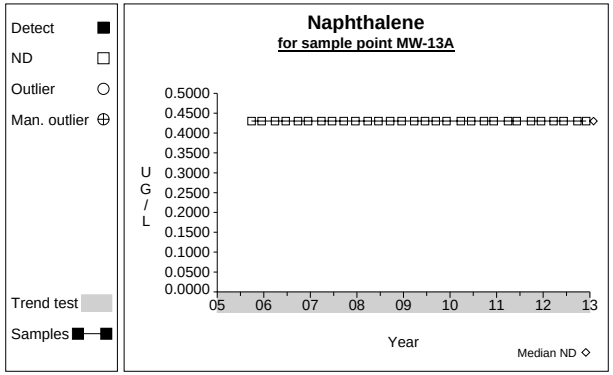
Graph 416



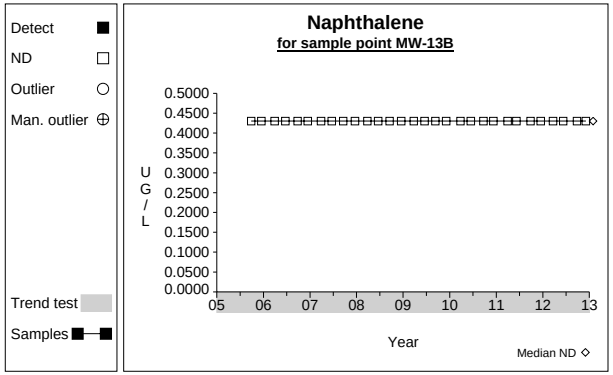
Graph 417



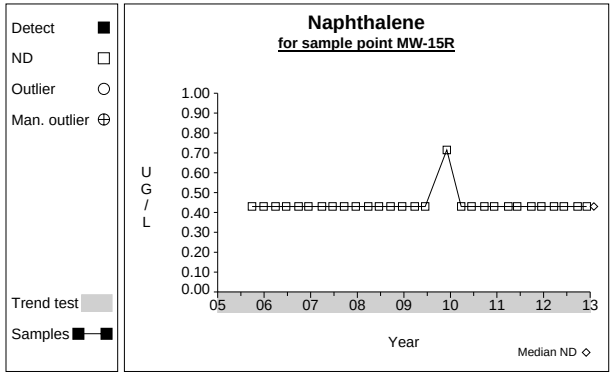
Graph 418



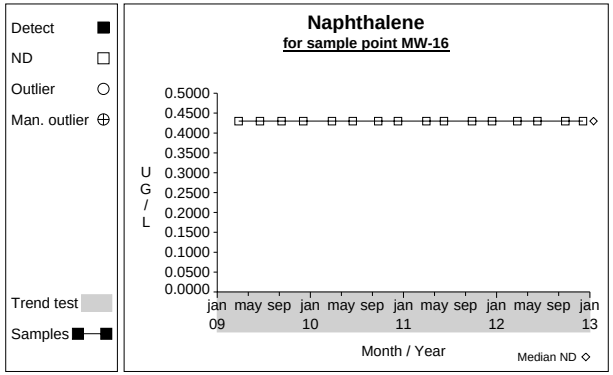
Graph 419



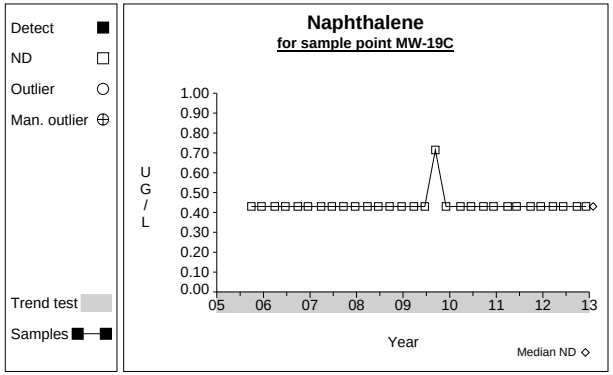
Graph 420



Graph 421

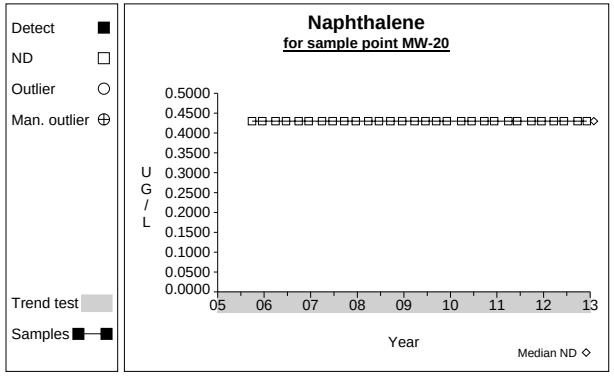


Graph 422

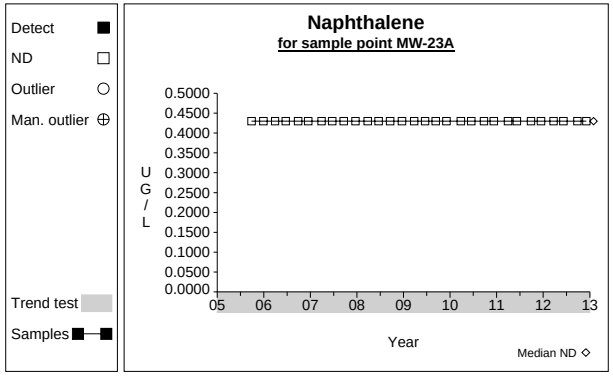


Graph 423

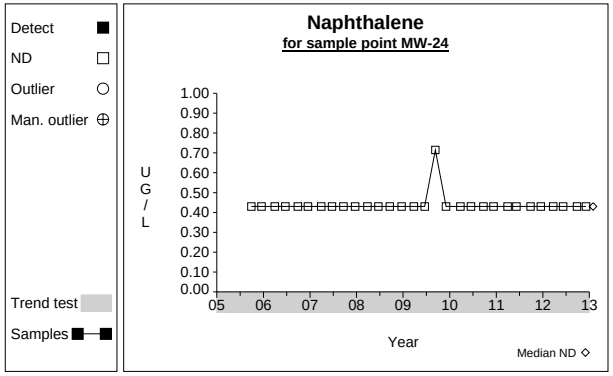
Time Series



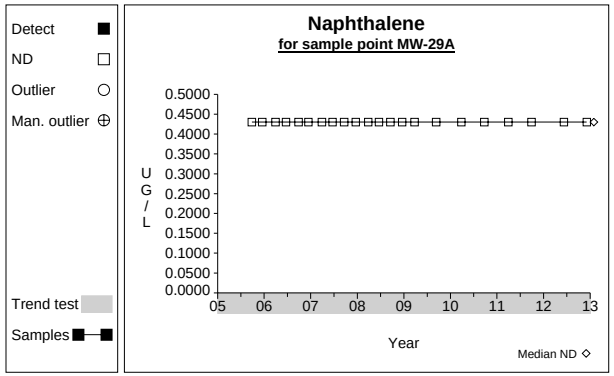
Graph 424



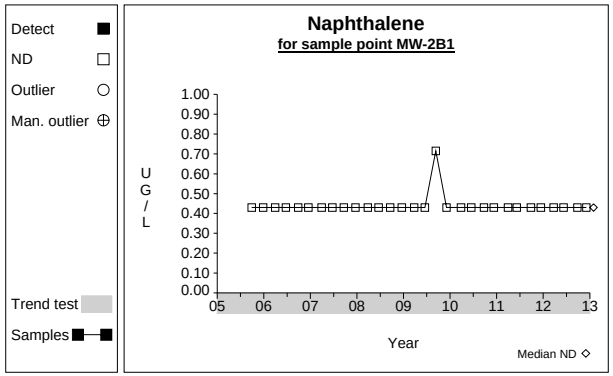
Graph 425



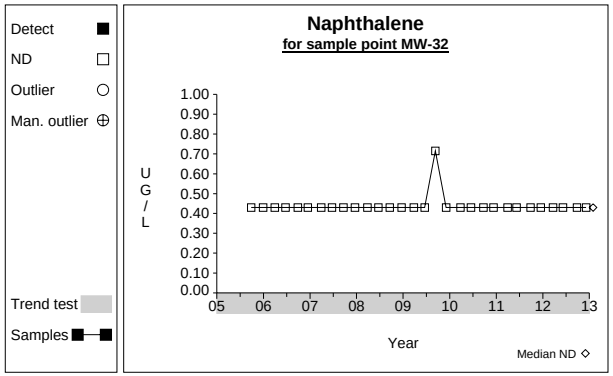
Graph 426



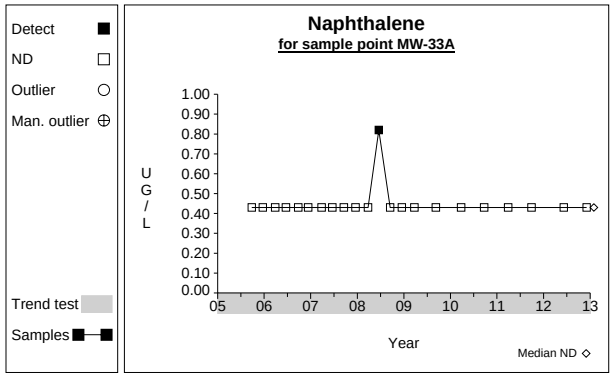
Graph 427



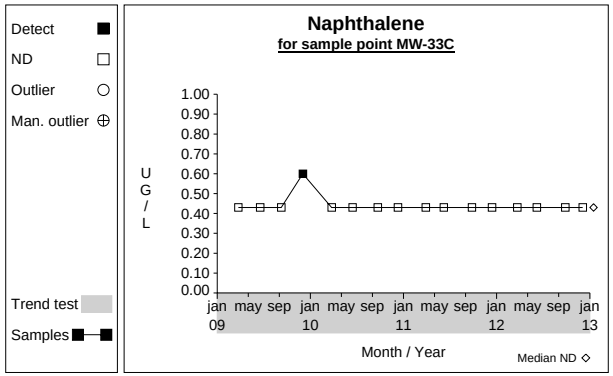
Graph 428



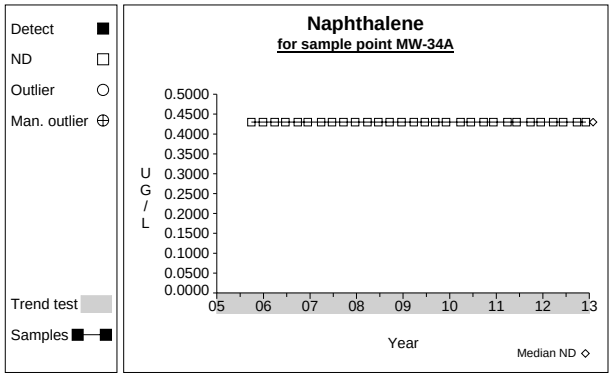
Graph 429



Graph 430

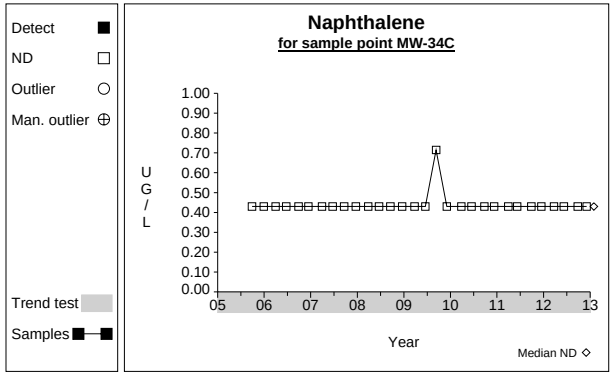


Graph 431

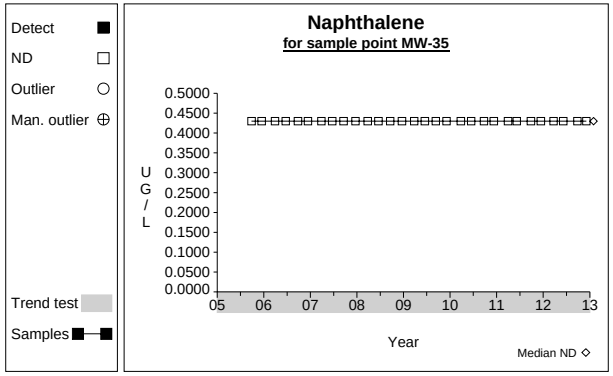


Graph 432

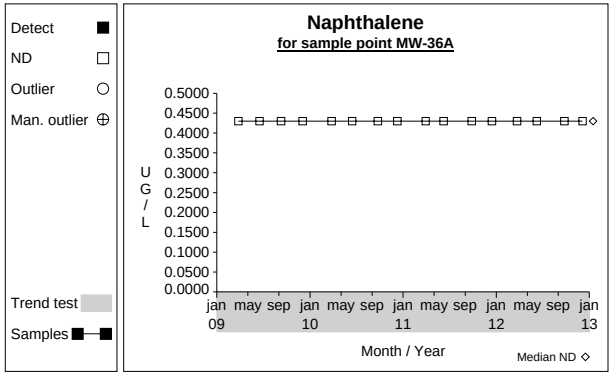
Time Series



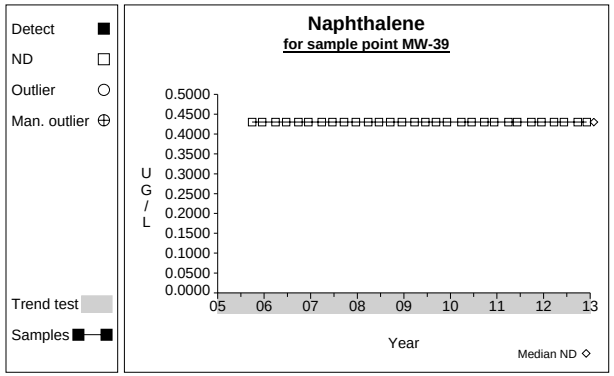
Graph 433



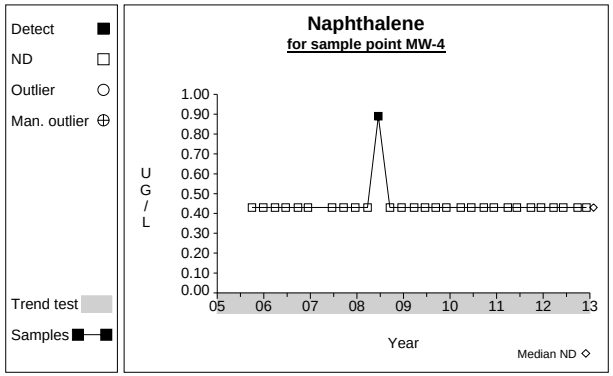
Graph 434



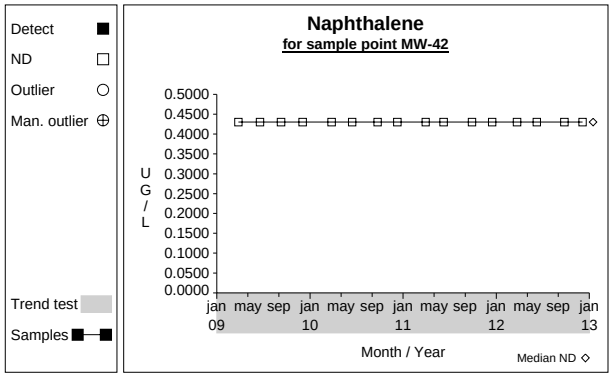
Graph 435



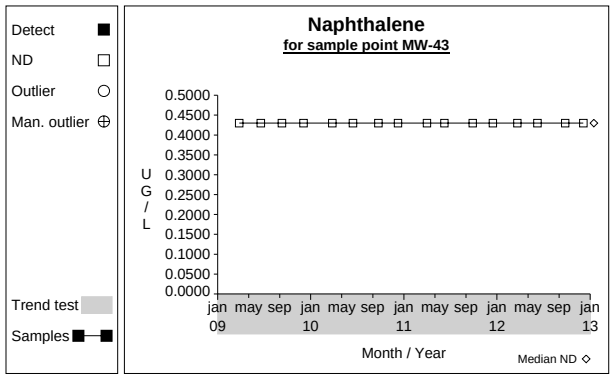
Graph 436



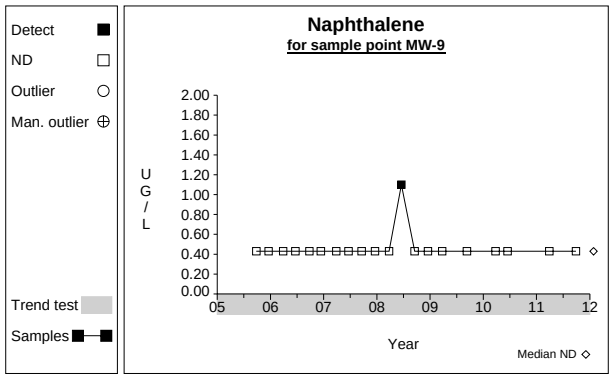
Graph 437



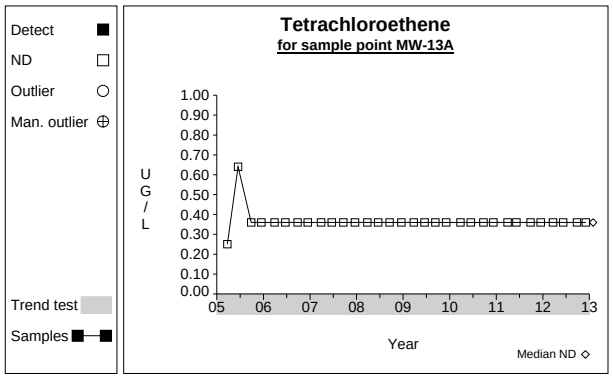
Graph 438



Graph 439

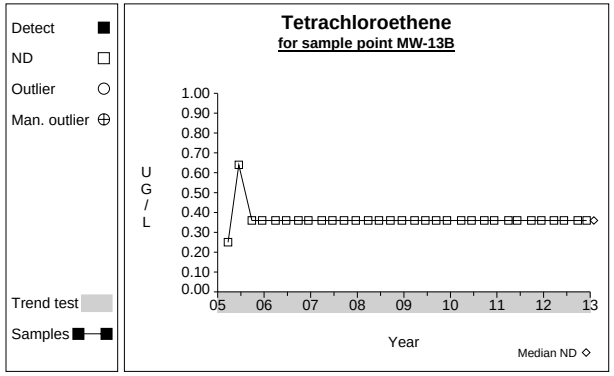


Graph 440

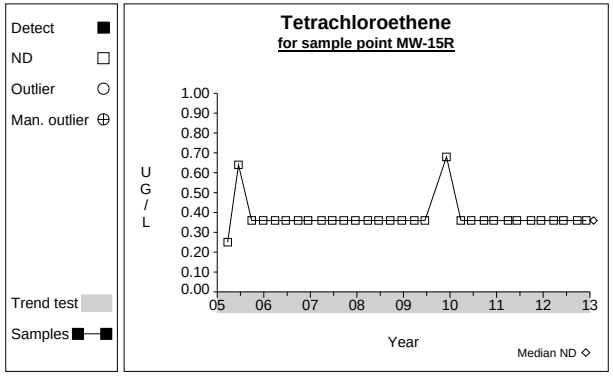


Graph 441

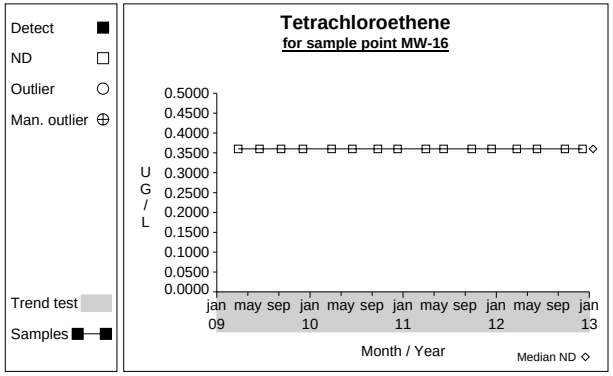
Time Series



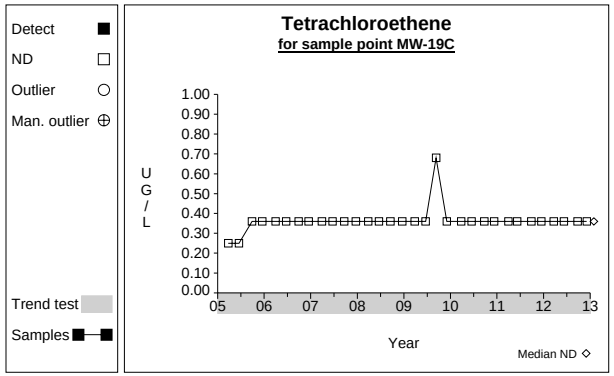
Graph 442



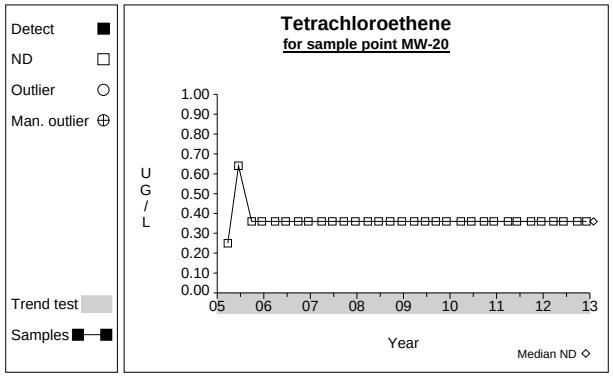
Graph 443



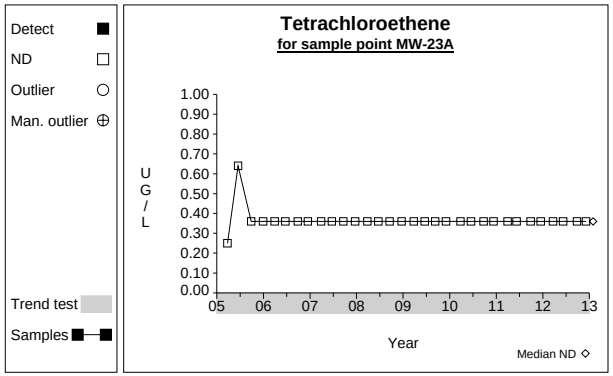
Graph 444



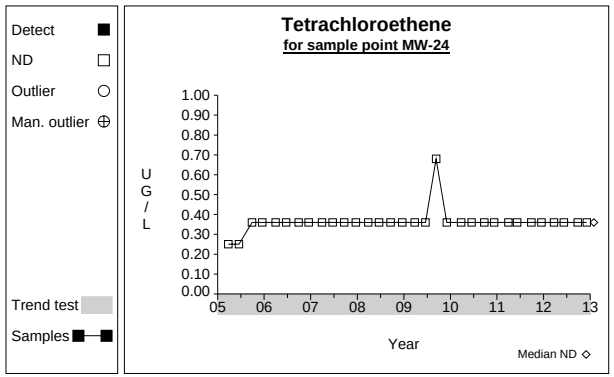
Graph 445



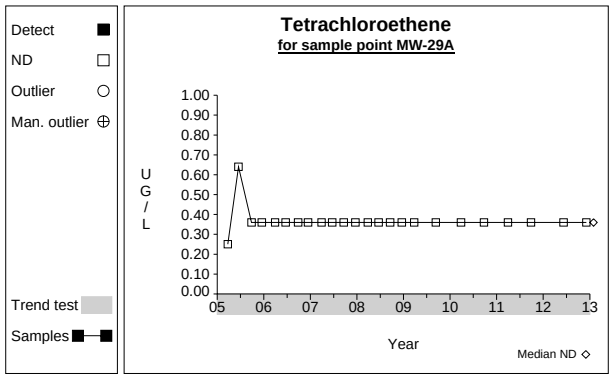
Graph 446



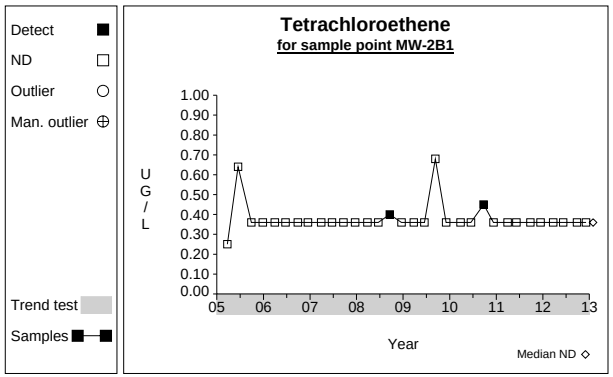
Graph 447



Graph 448

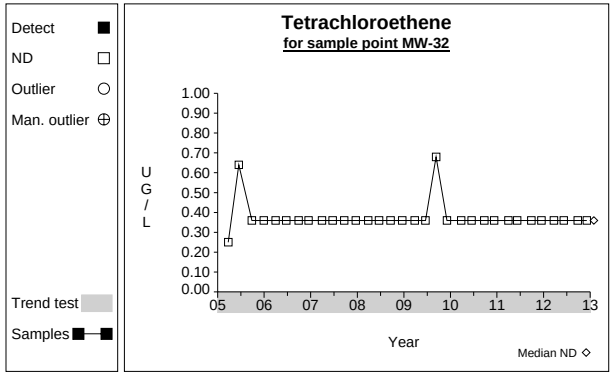


Graph 449

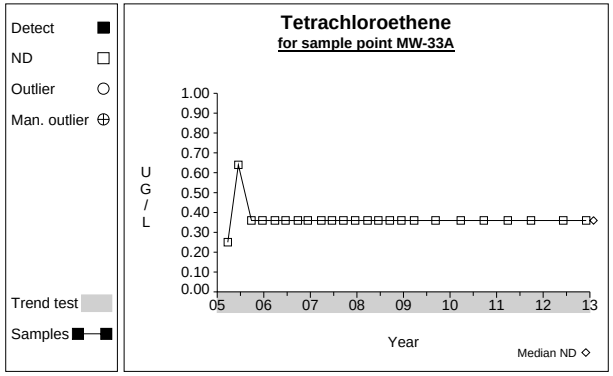


Graph 450

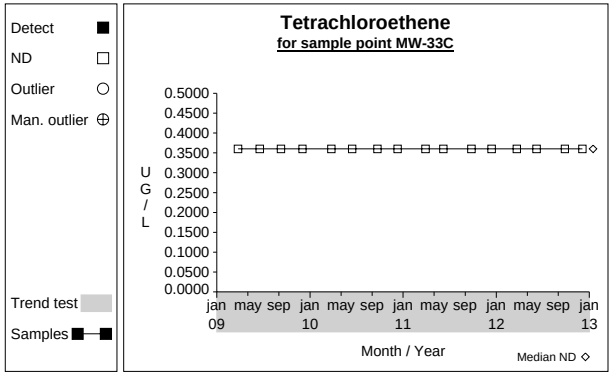
Time Series



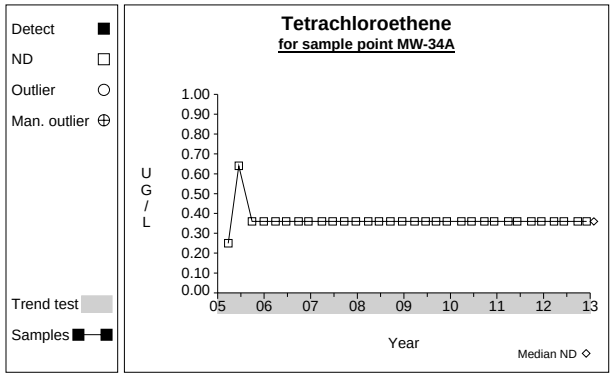
Graph 451



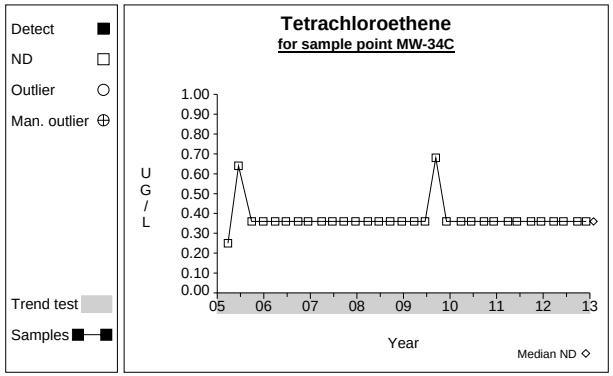
Graph 452



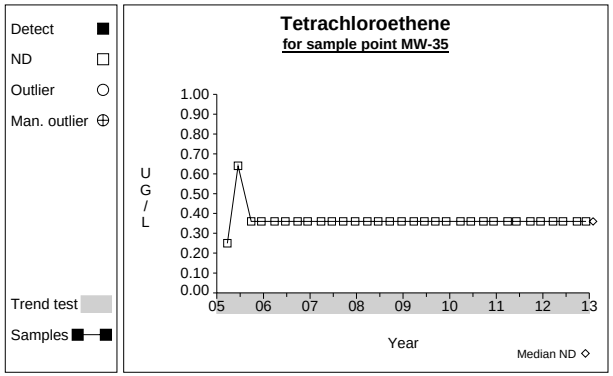
Graph 453



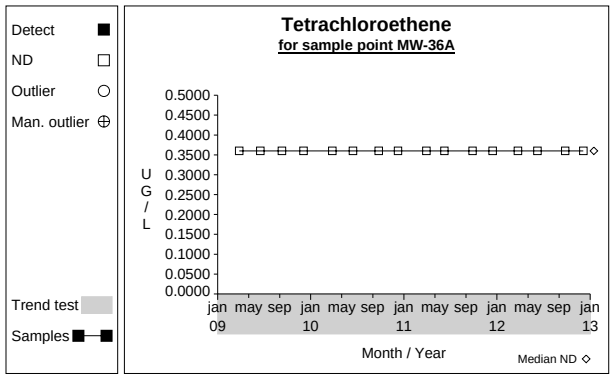
Graph 454



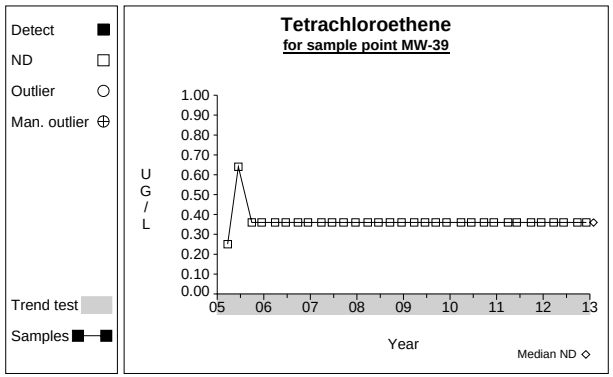
Graph 455



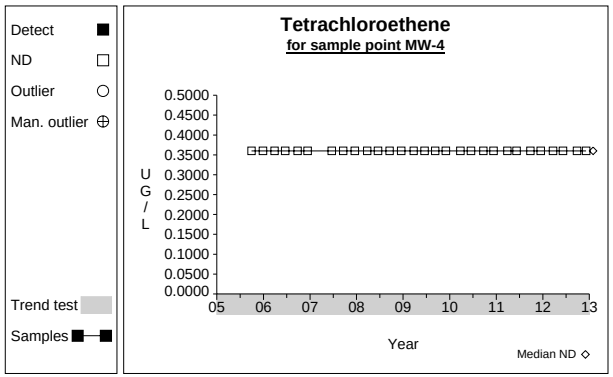
Graph 456



Graph 457

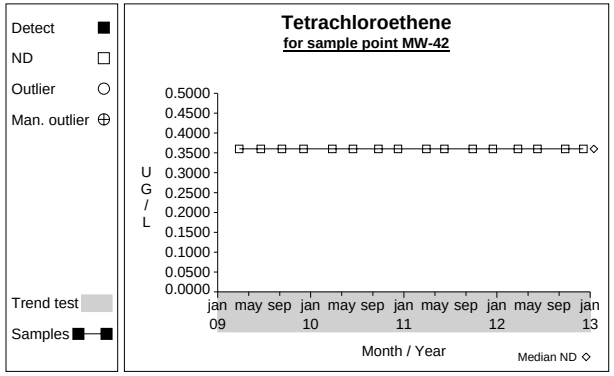


Graph 458

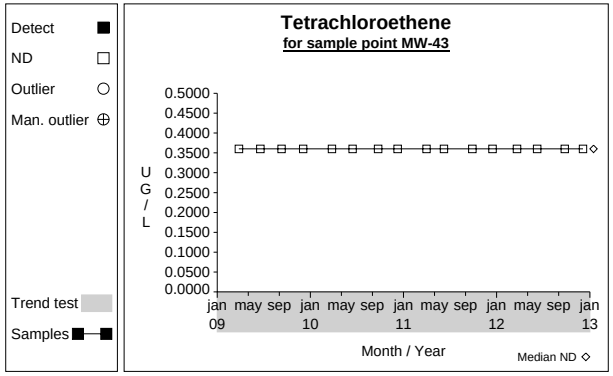


Graph 459

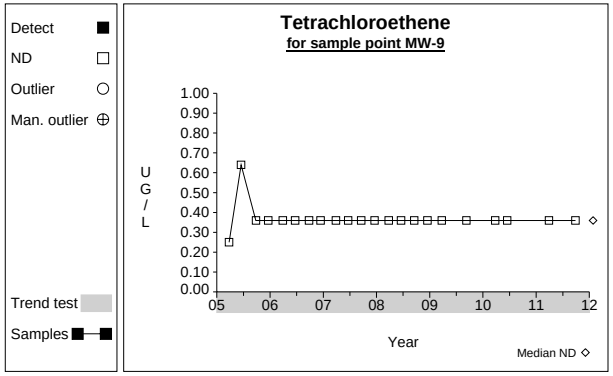
Time Series



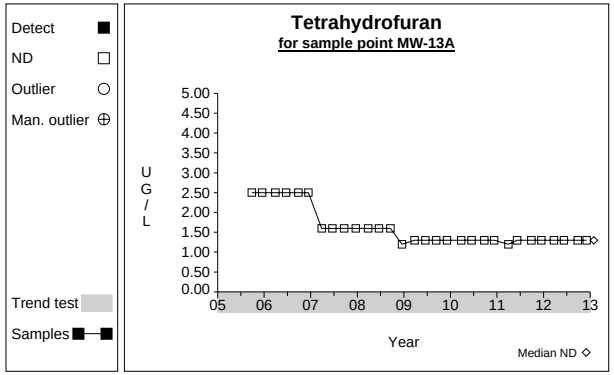
Graph 460



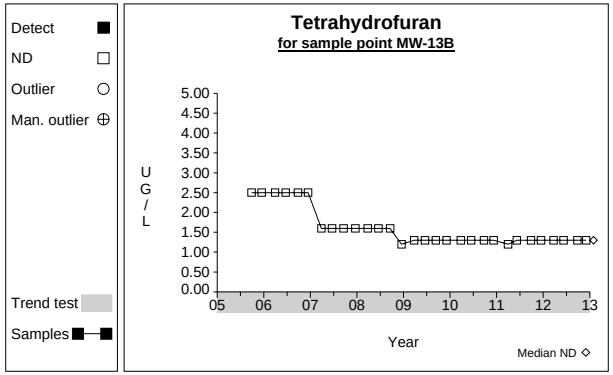
Graph 461



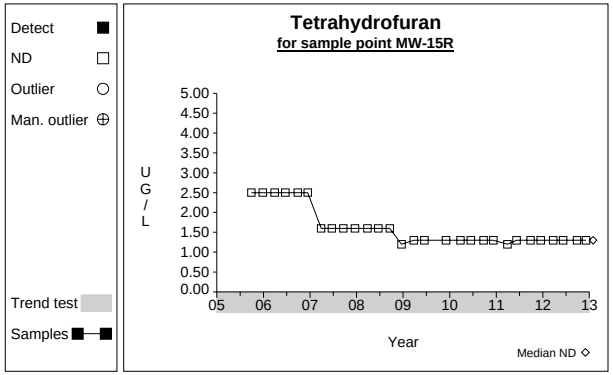
Graph 462



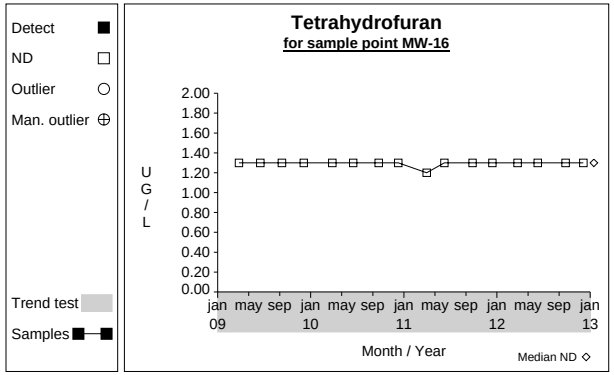
Graph 463



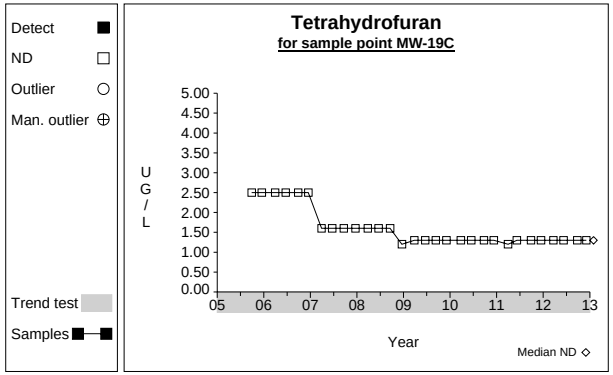
Graph 464



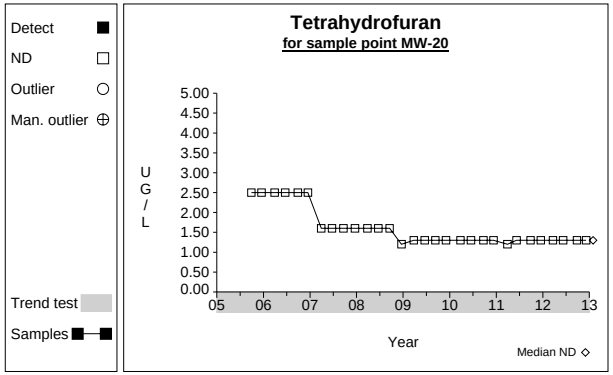
Graph 465



Graph 466

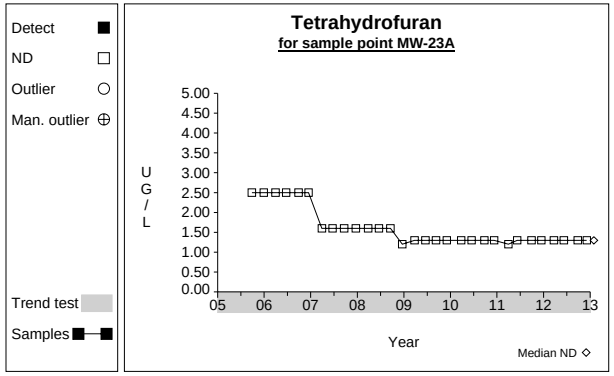


Graph 467

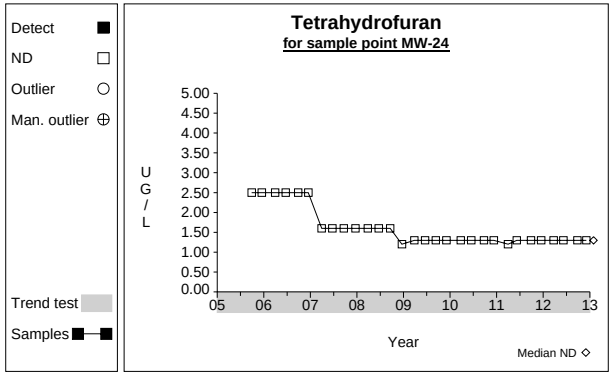


Graph 468

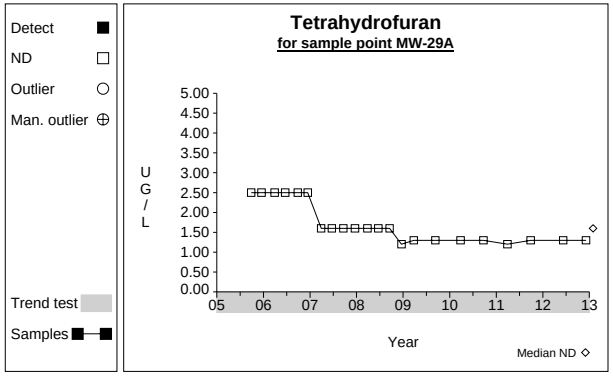
Time Series



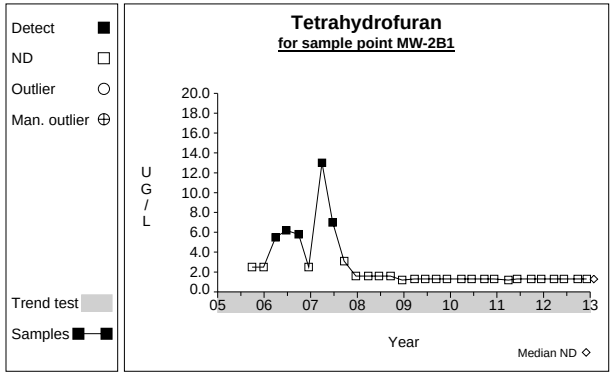
Graph 469



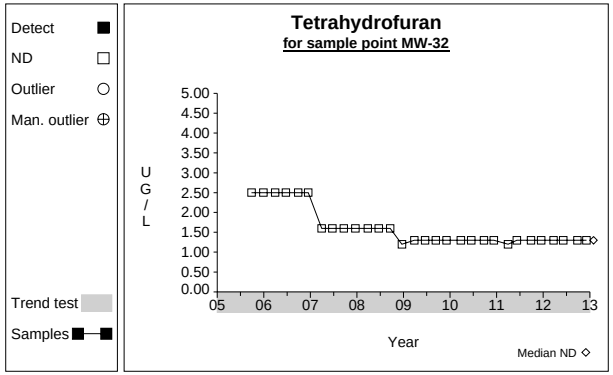
Graph 470



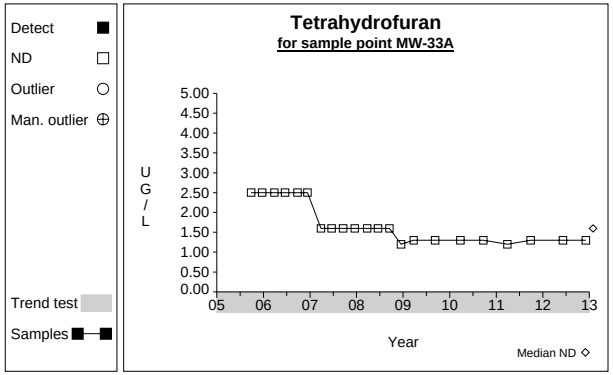
Graph 471



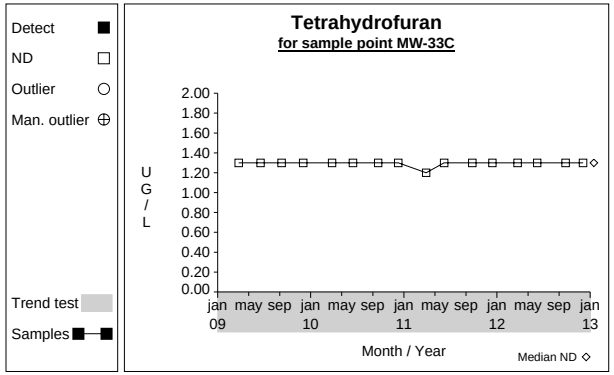
Graph 472



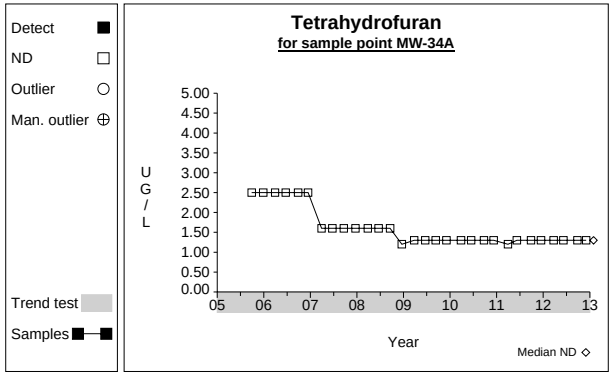
Graph 473



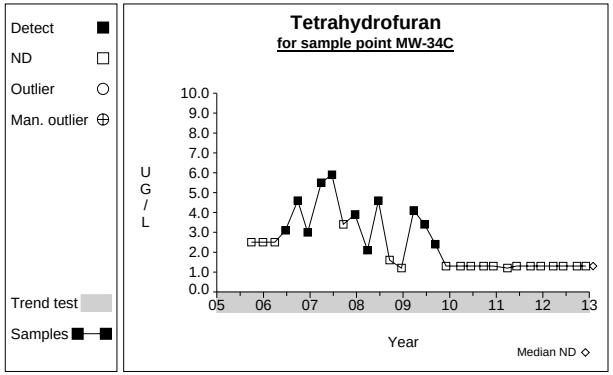
Graph 474



Graph 475

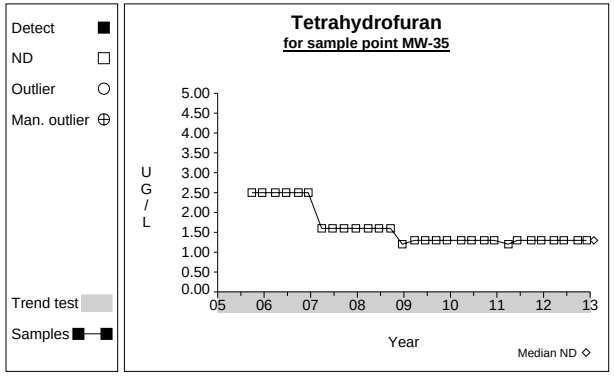


Graph 476

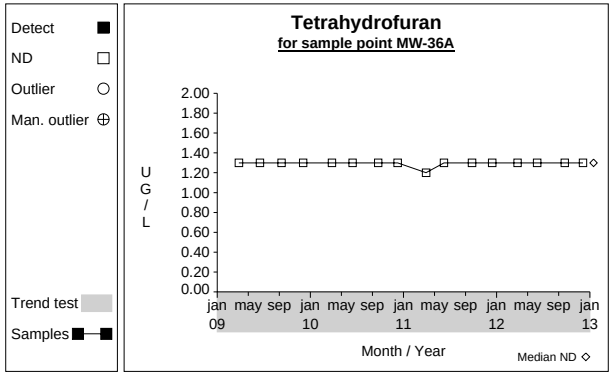


Graph 477

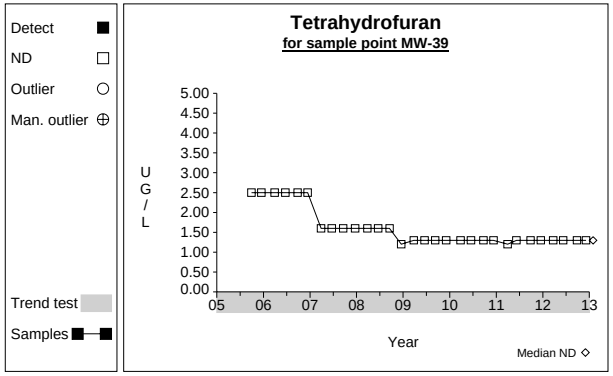
Time Series



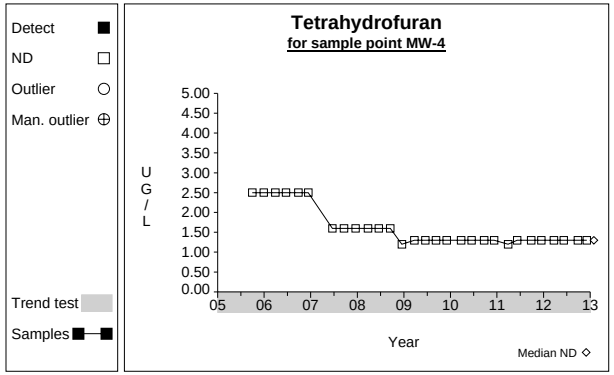
Graph 478



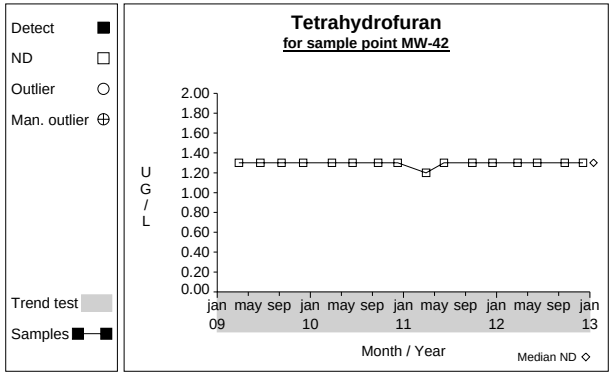
Graph 479



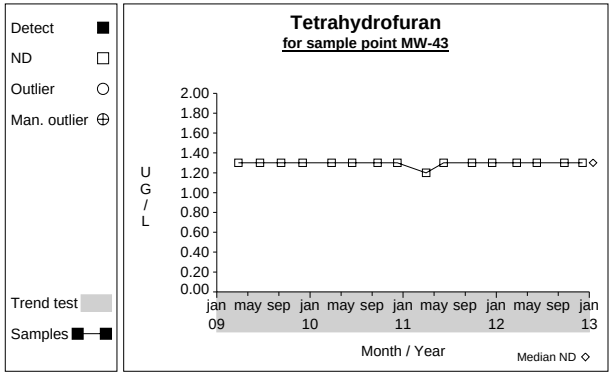
Graph 480



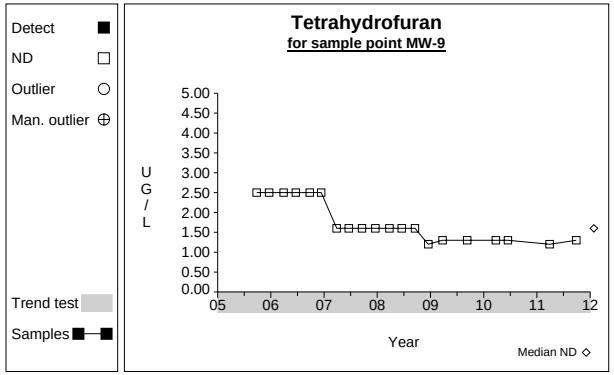
Graph 481



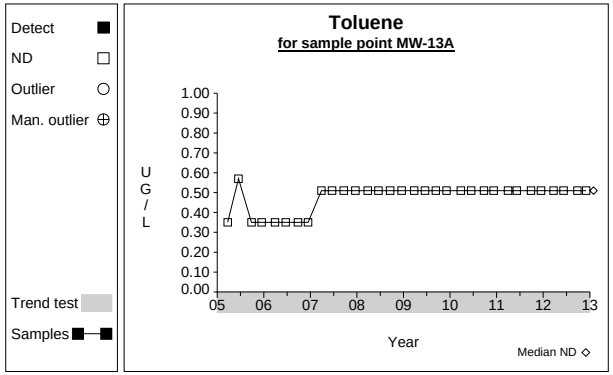
Graph 482



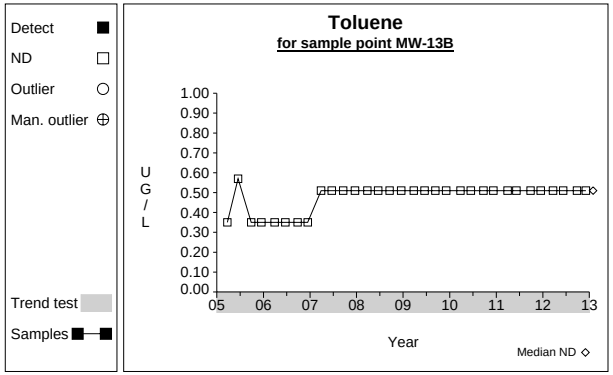
Graph 483



Graph 484

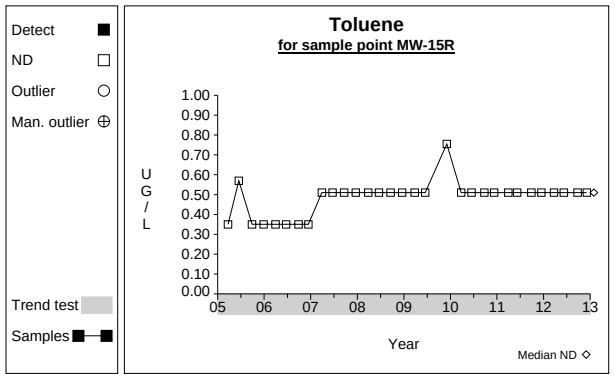


Graph 485

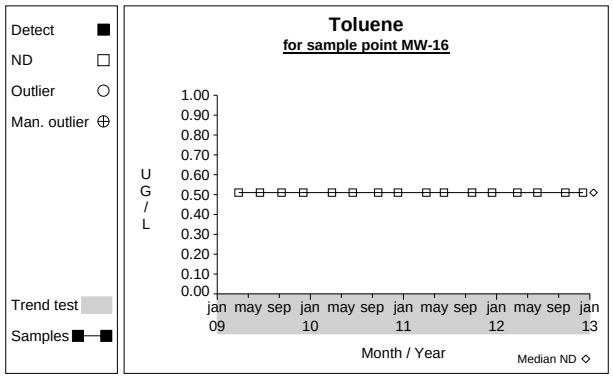


Graph 486

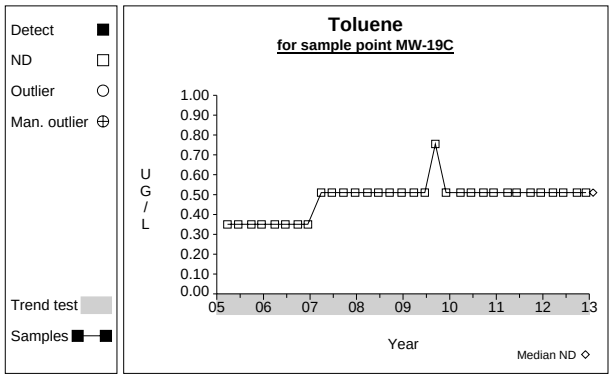
Time Series



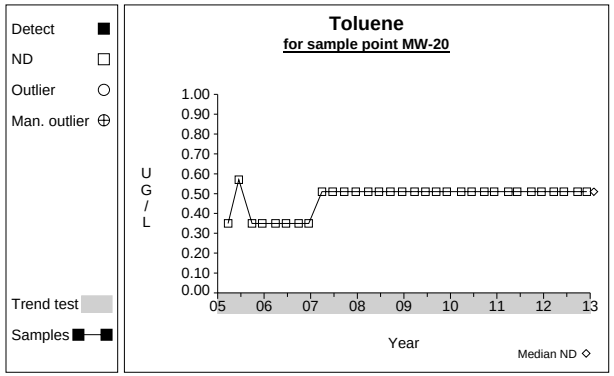
Graph 487



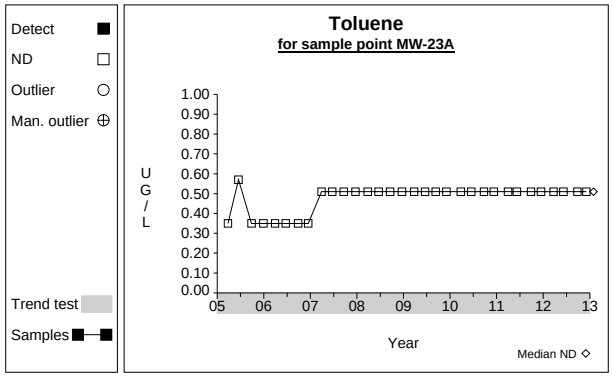
Graph 488



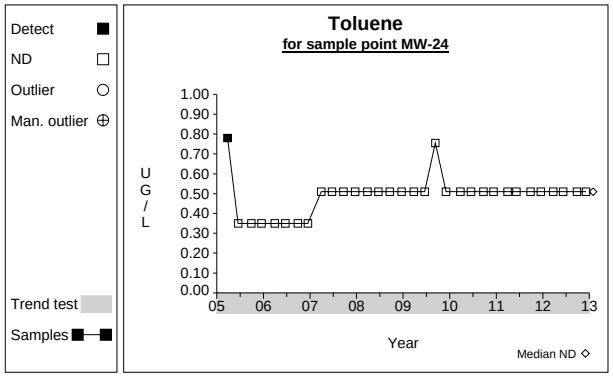
Graph 489



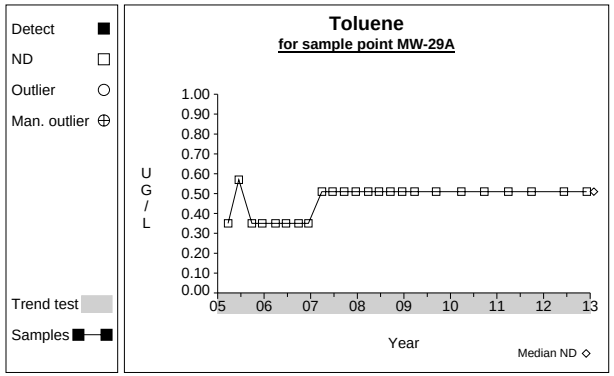
Graph 490



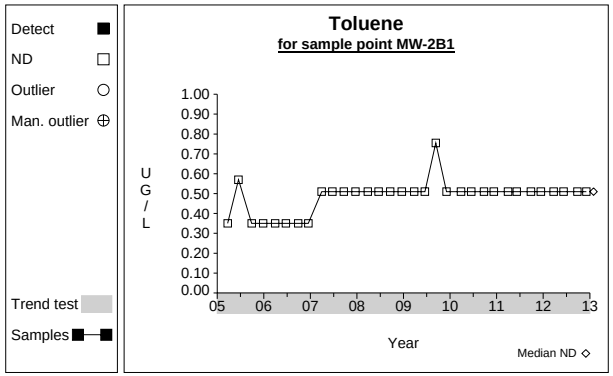
Graph 491



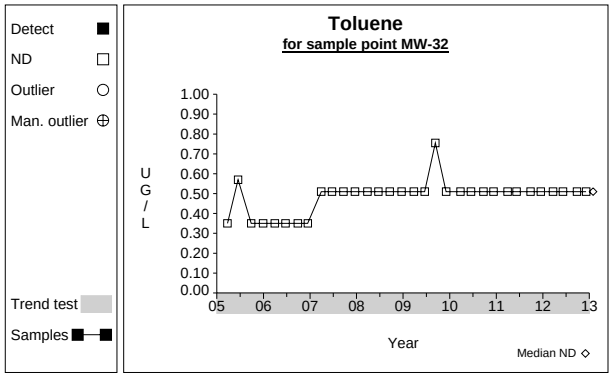
Graph 492



Graph 493

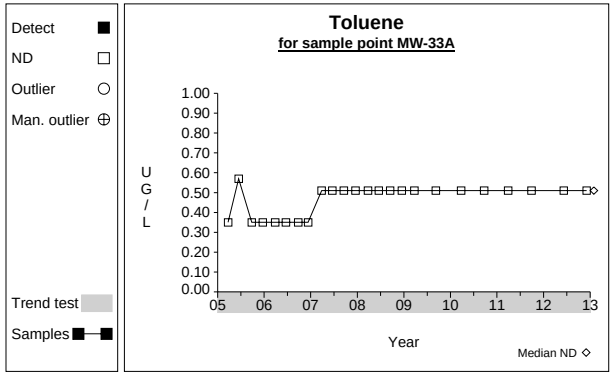


Graph 494

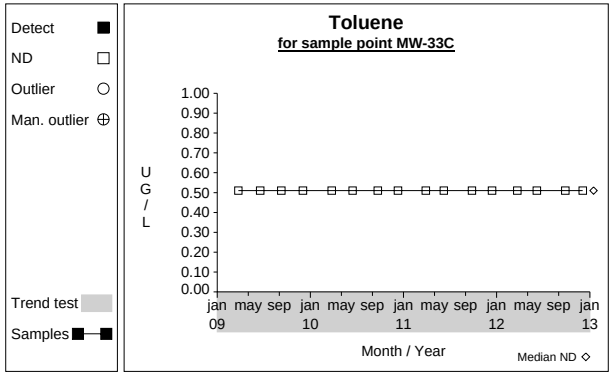


Graph 495

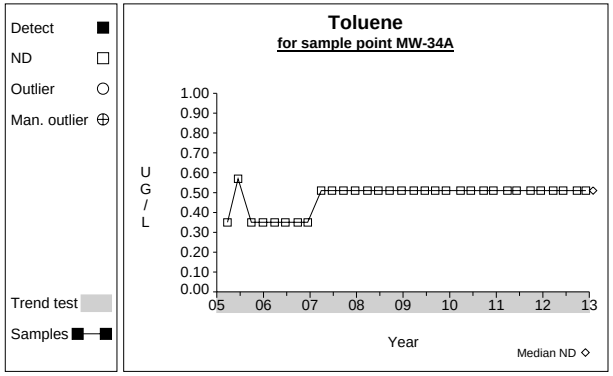
Time Series



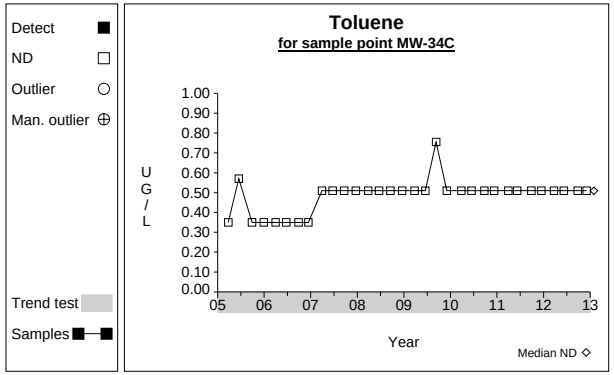
Graph 496



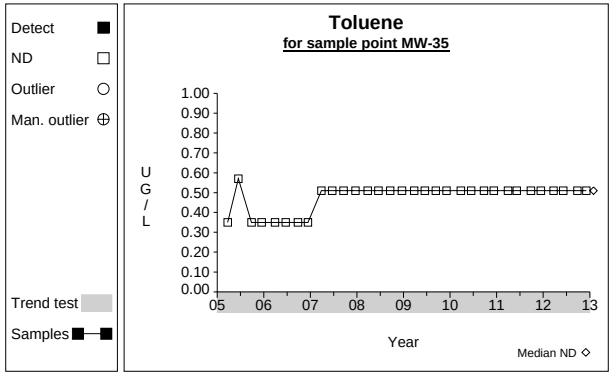
Graph 497



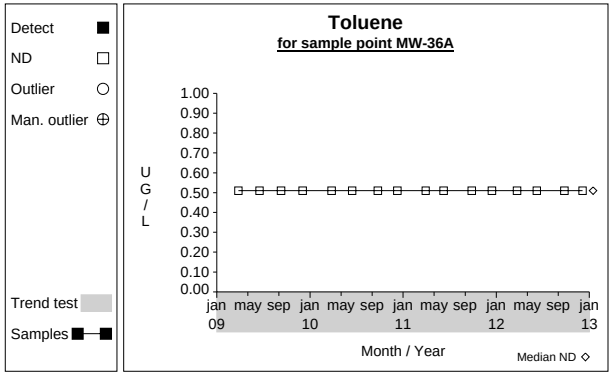
Graph 498



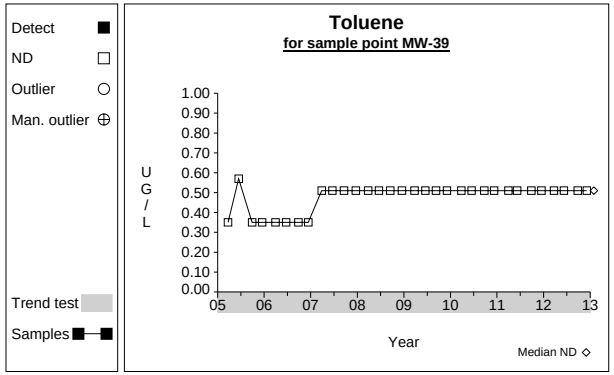
Graph 499



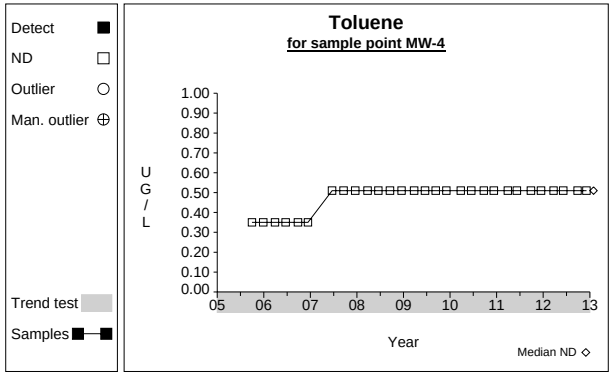
Graph 500



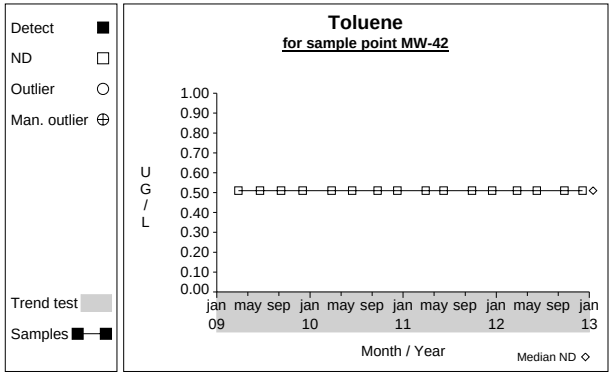
Graph 501



Graph 502

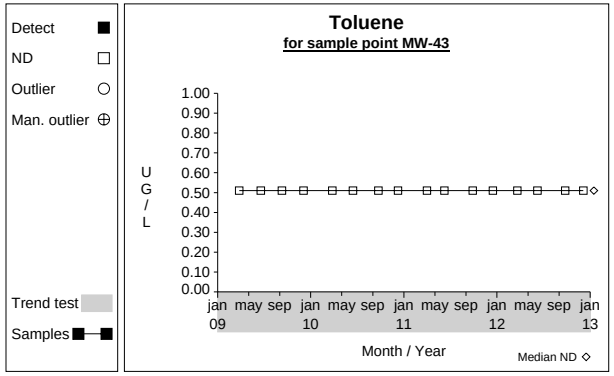


Graph 503

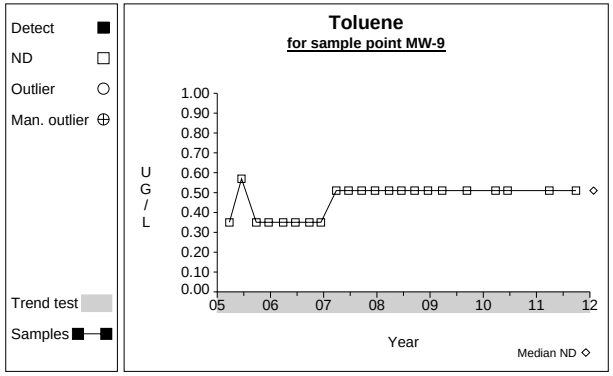


Graph 504

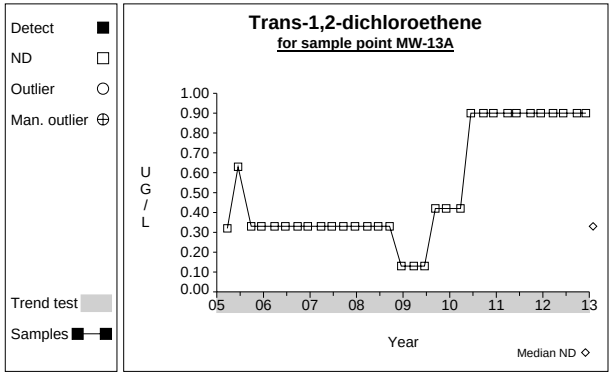
Time Series



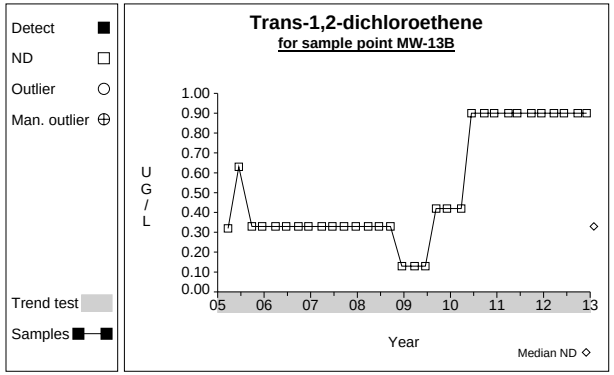
Graph 505



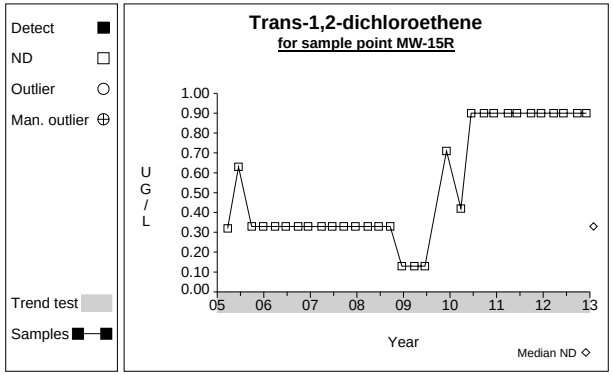
Graph 506



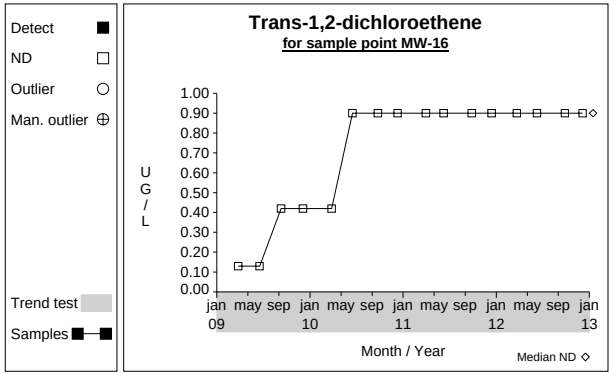
Graph 507



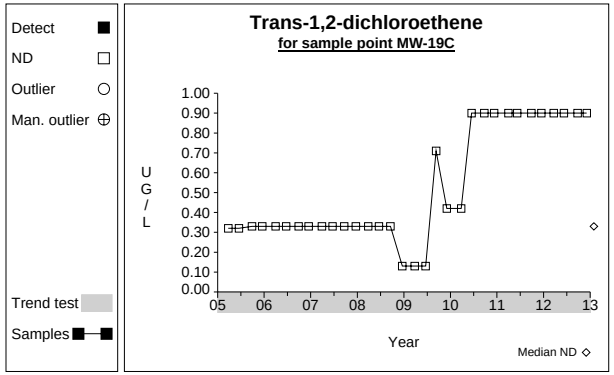
Graph 508



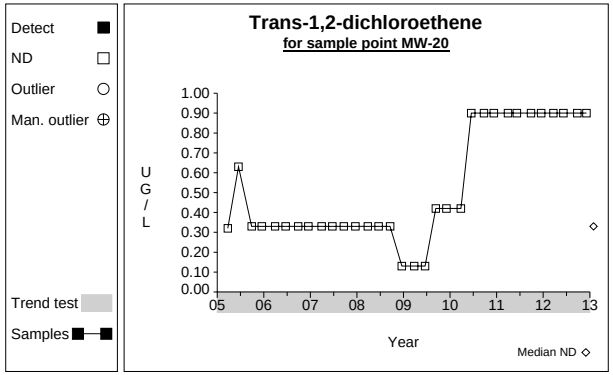
Graph 509



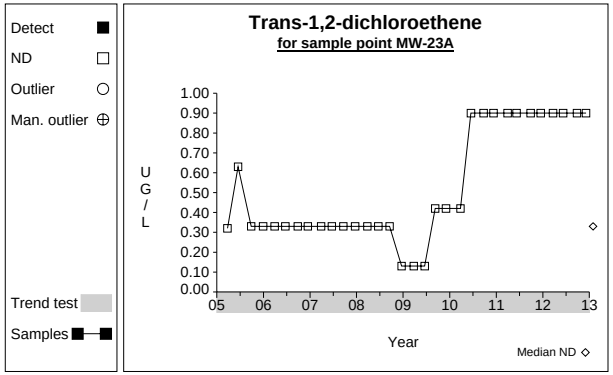
Graph 510



Graph 511

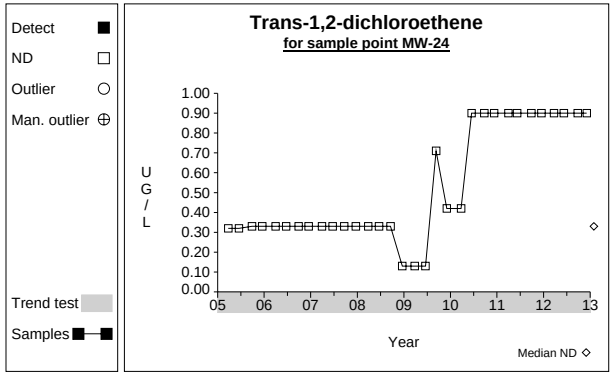


Graph 512

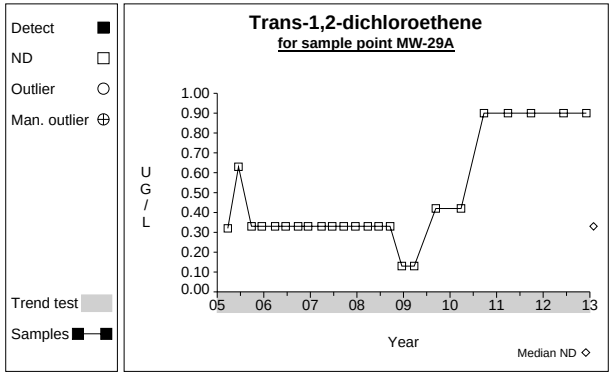


Graph 513

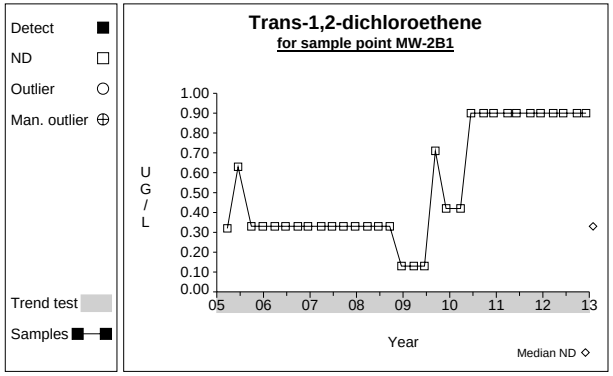
Time Series



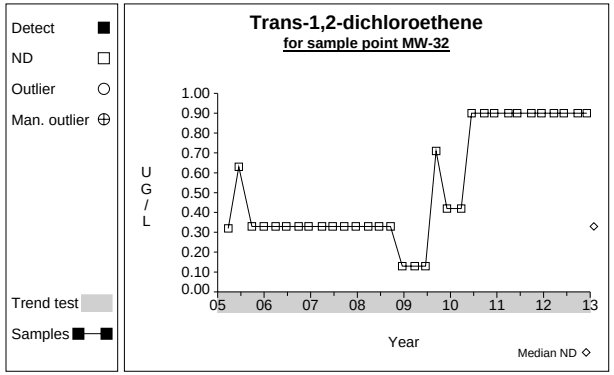
Graph 514



Graph 515



Graph 516



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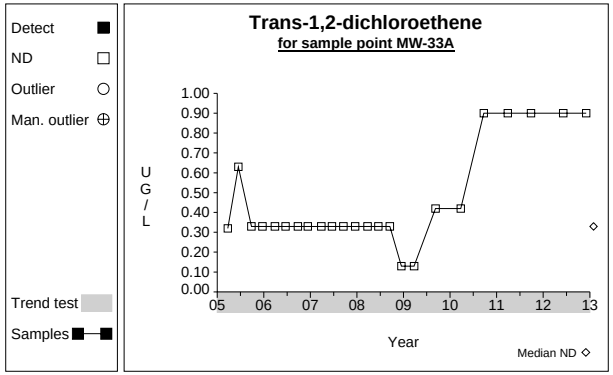
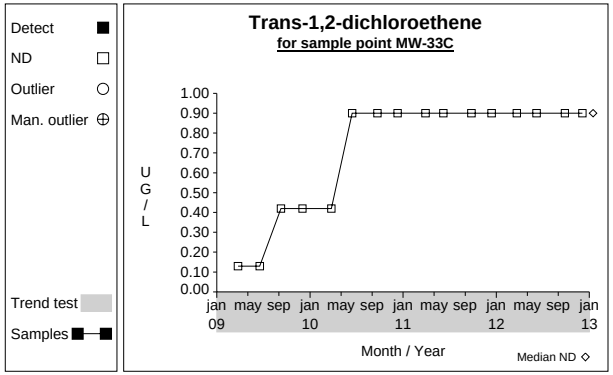
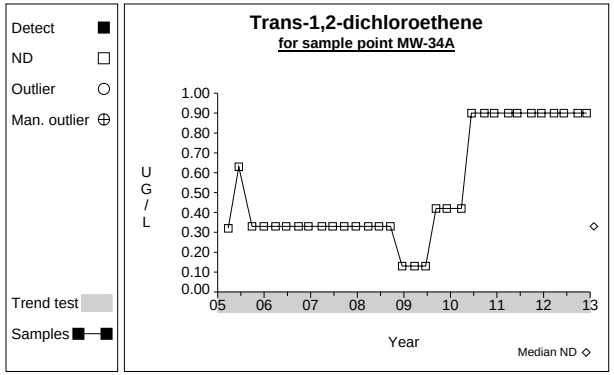


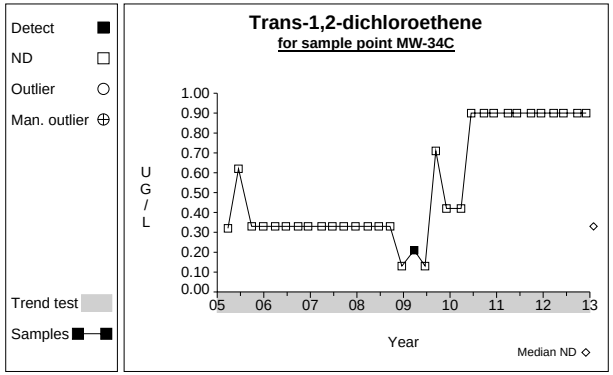
Graph 518



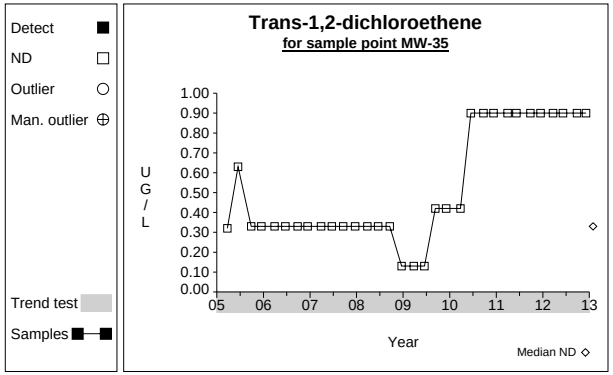
Graph 519



Graph 520

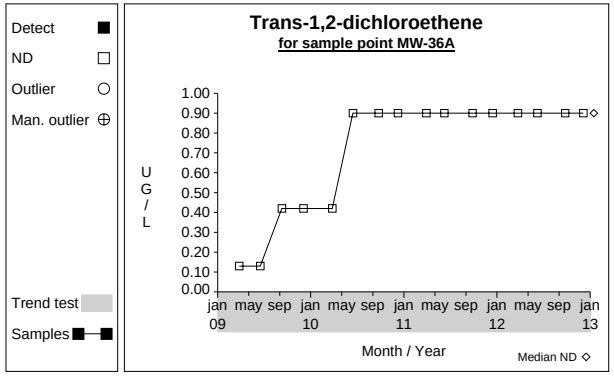


Graph 521

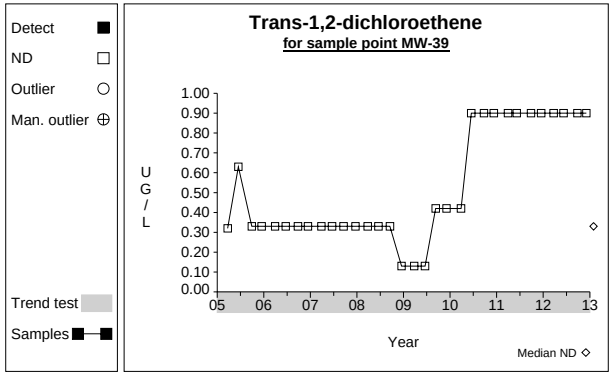


Graph 522

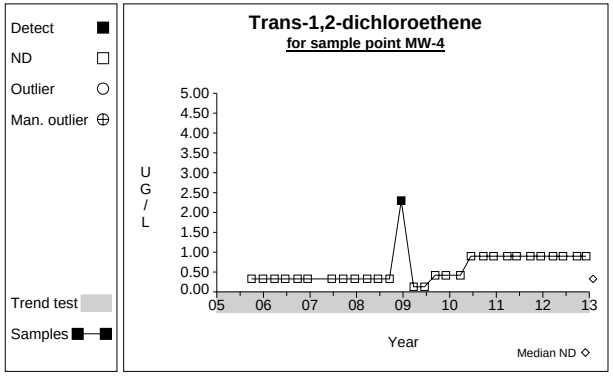
Time Series



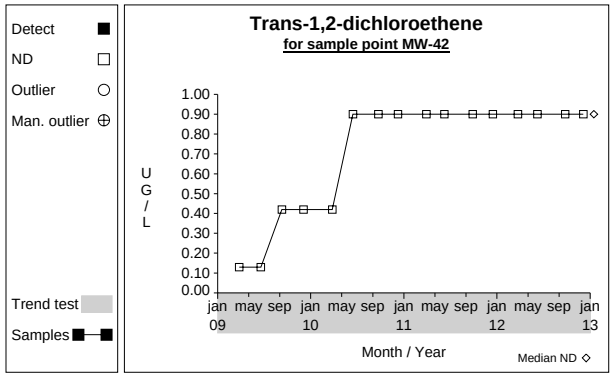
Graph 523



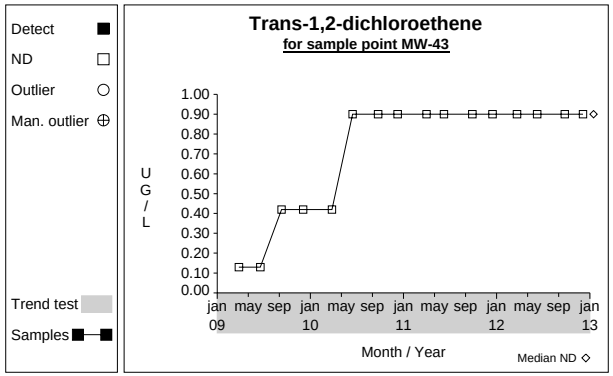
Graph 524



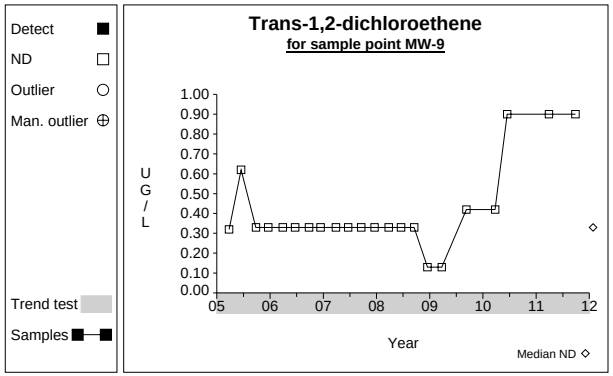
Graph 525



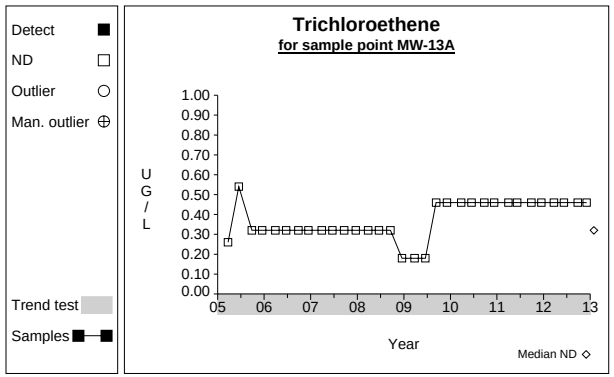
Graph 526



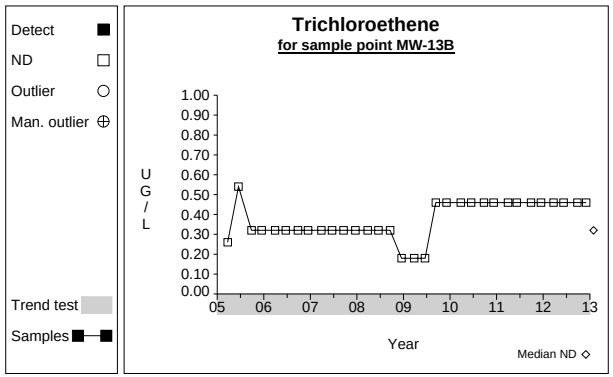
Graph 527



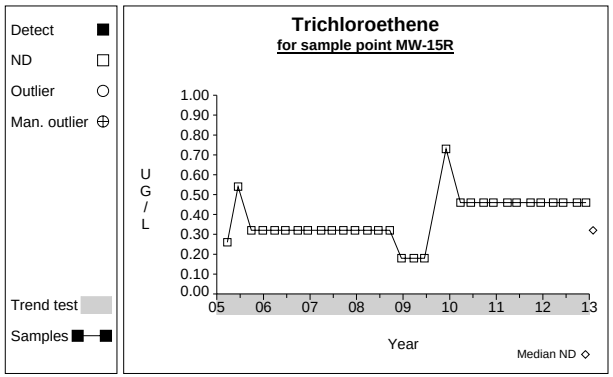
Graph 528



Graph 529

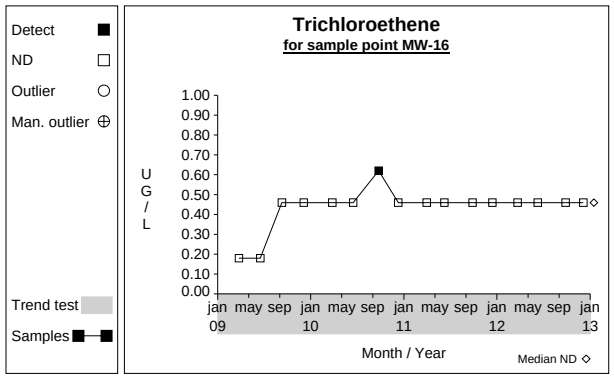


Graph 530

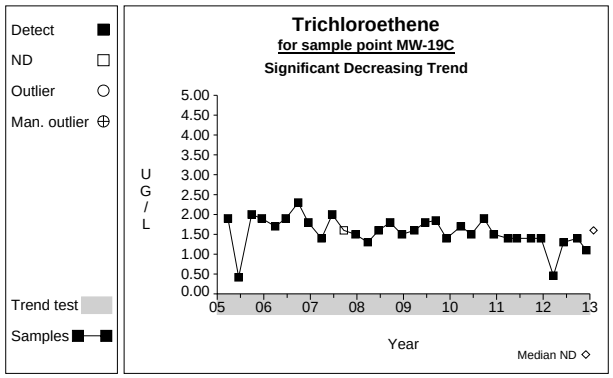


Graph 531

Time Series



Graph 532



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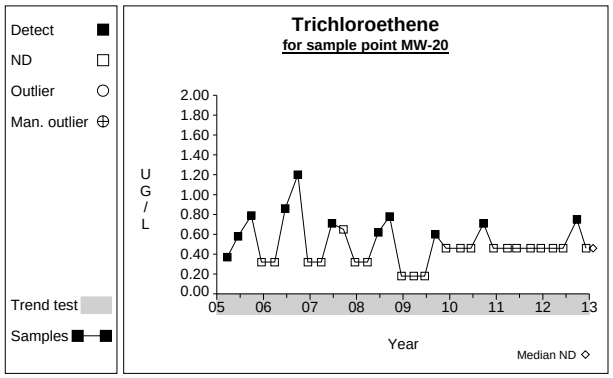
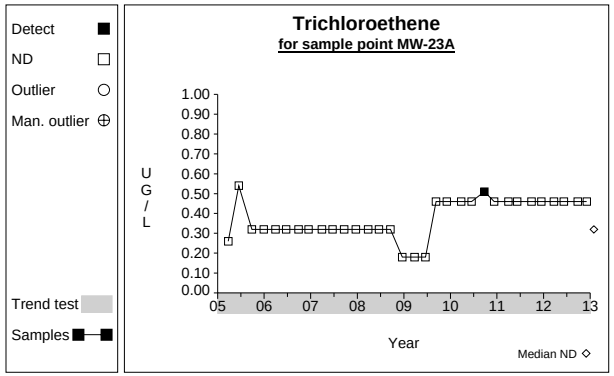
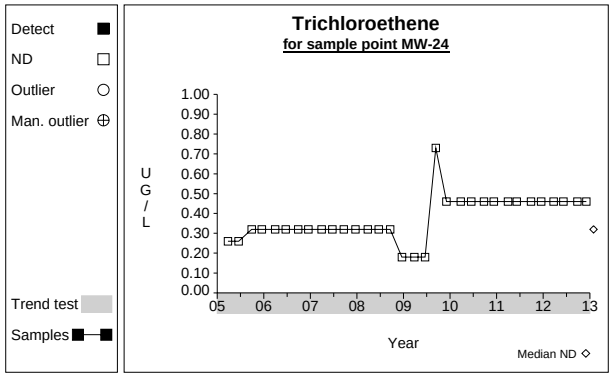


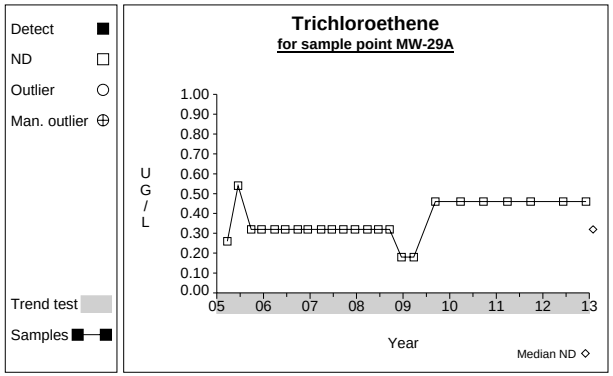
Graph 534



Graph 535



Graph 536



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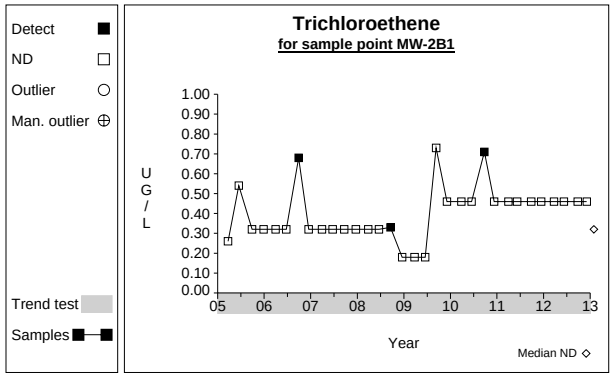
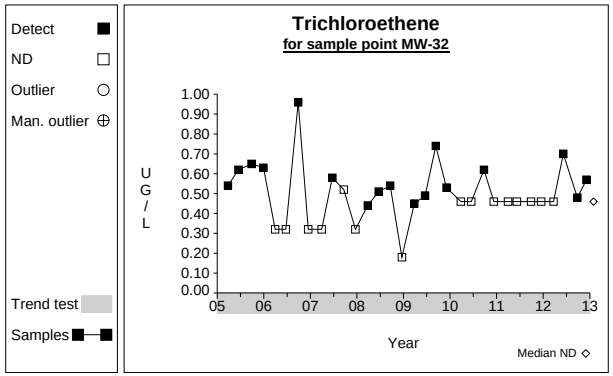


Graph 538



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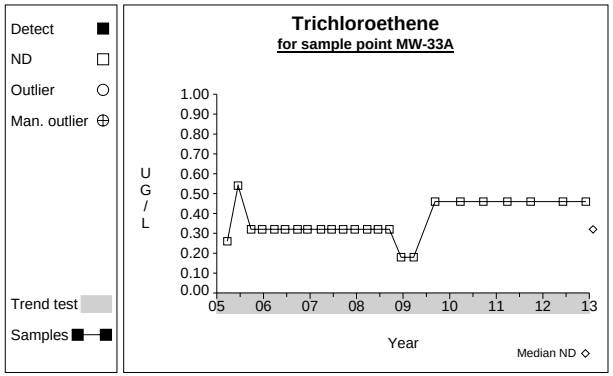
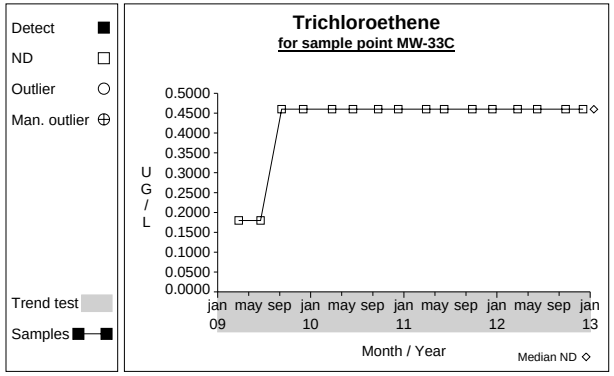


Graph 540

Time Series



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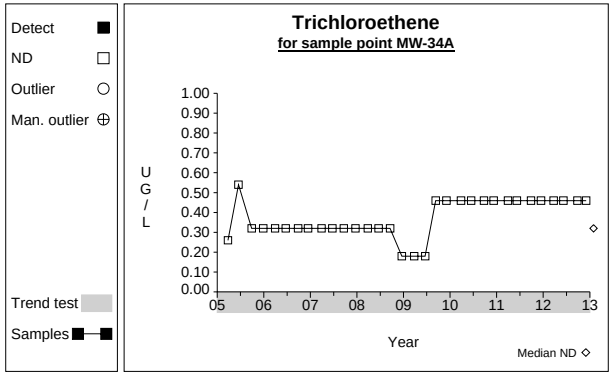
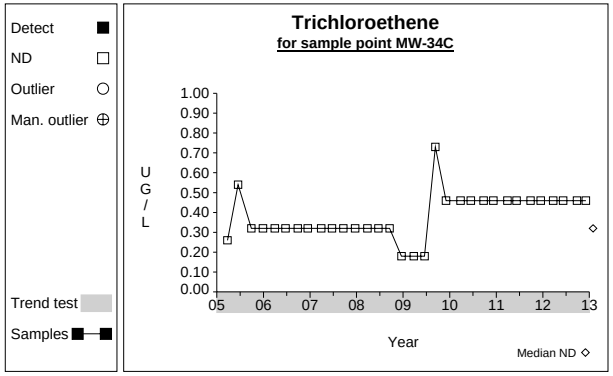
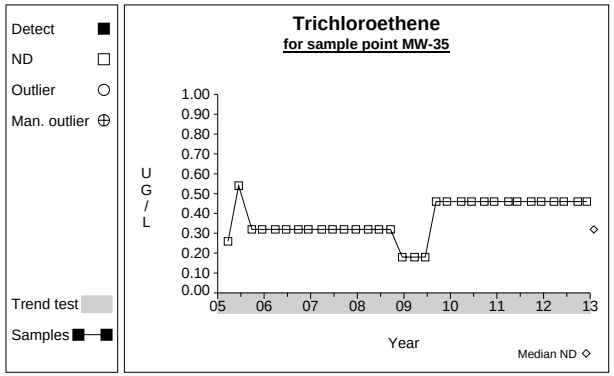


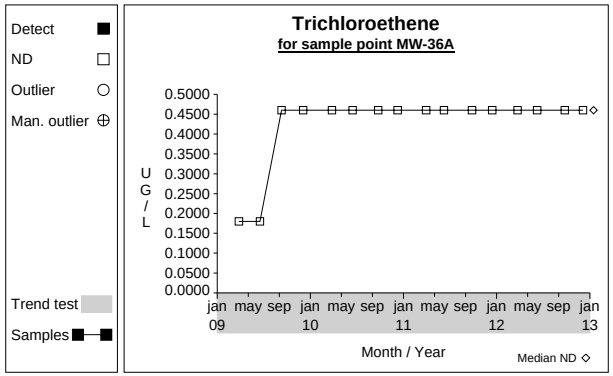
Graph 542



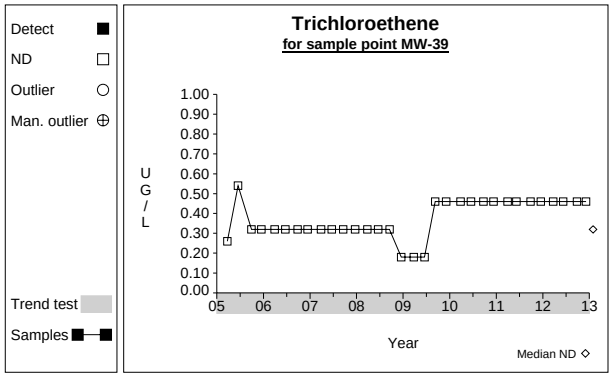
Graph 543



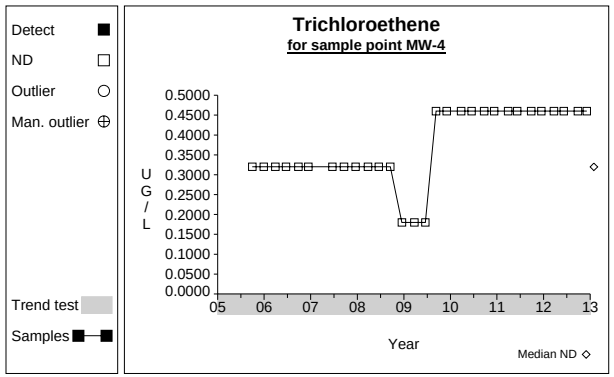
Graph 544



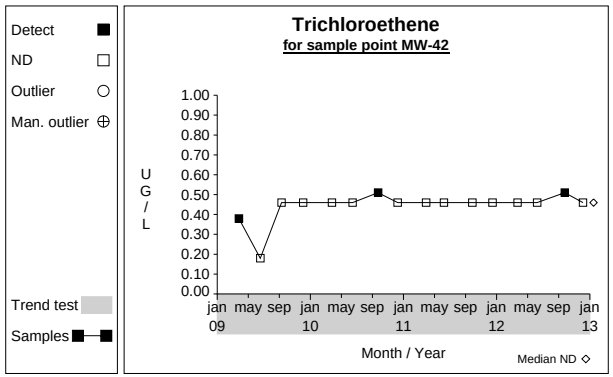
Graph 545



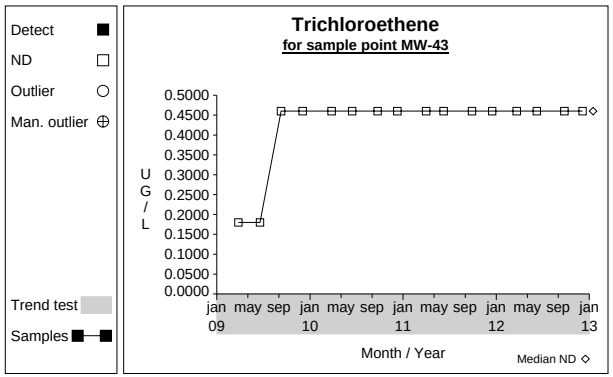
Graph 546



Graph 547

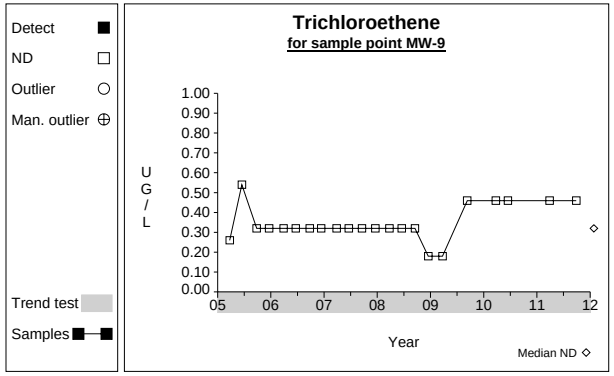


Graph 548

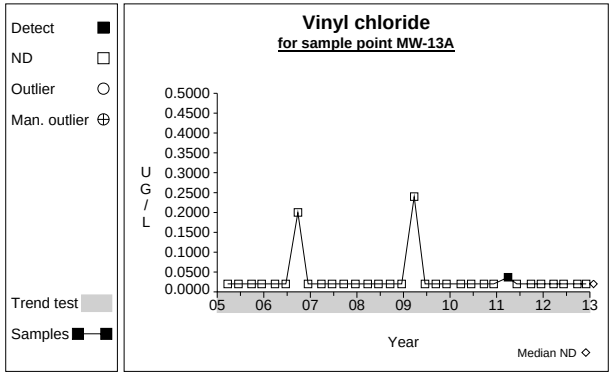


Graph 549

Time Series



Graph 550



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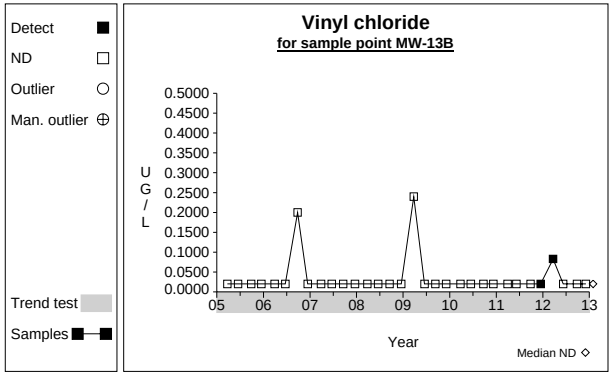

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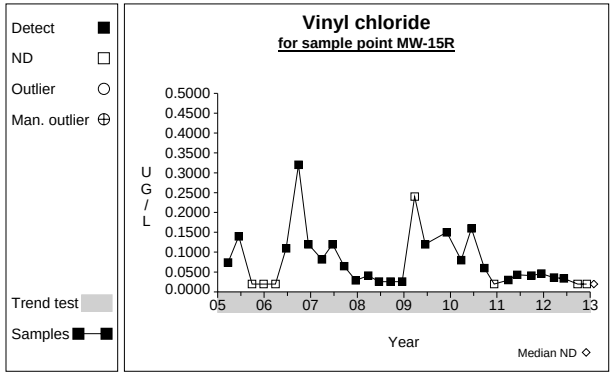
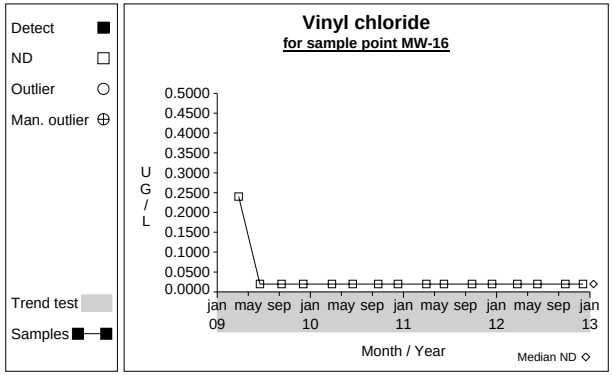
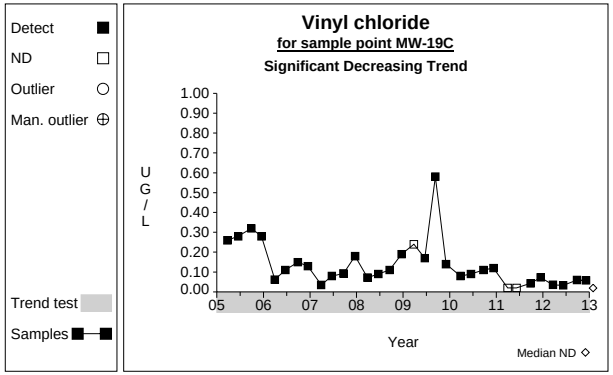


Graph 553



Graph 554



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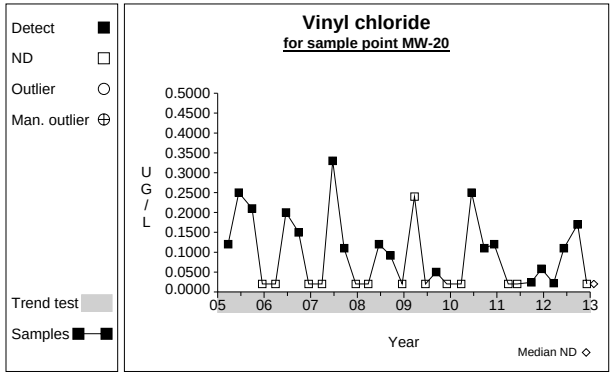

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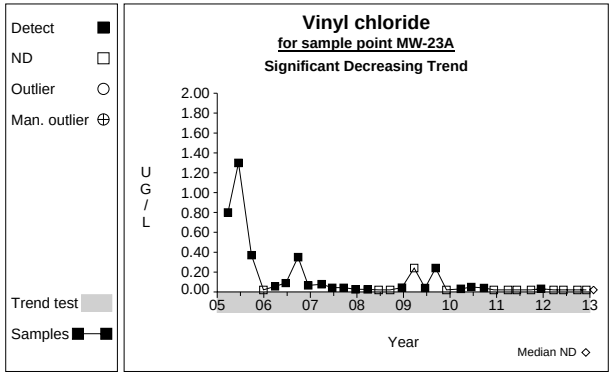
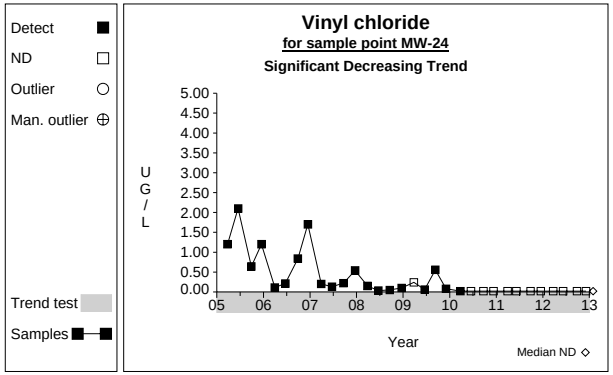
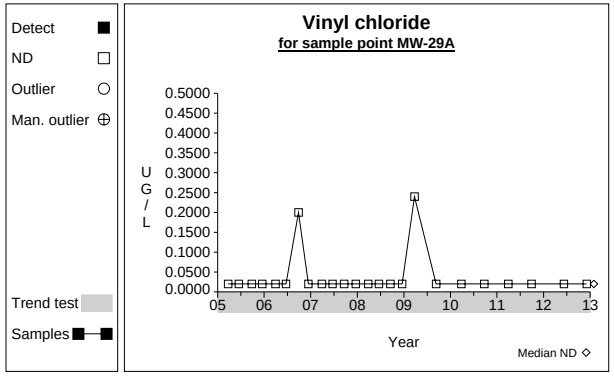


Graph 557

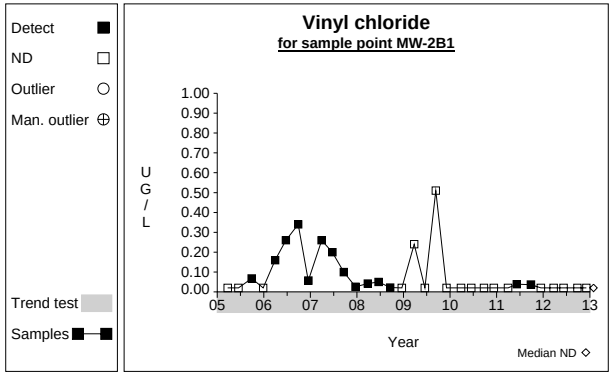


Graph 558

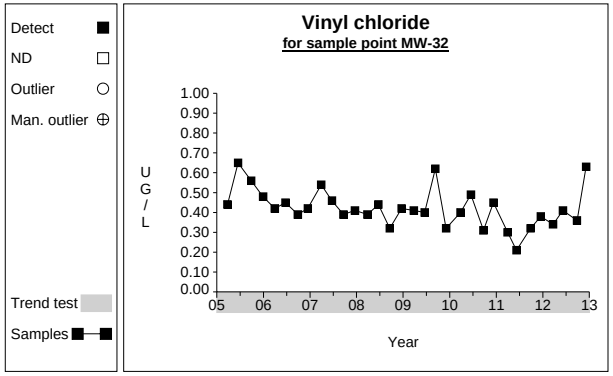
Time Series



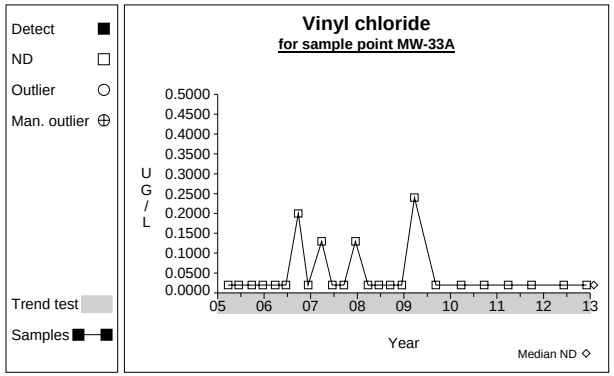
Graph 559



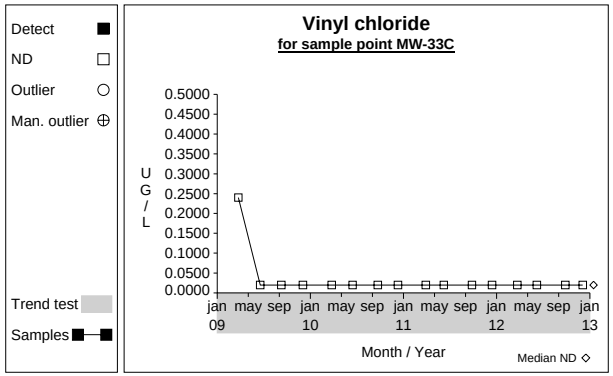
Graph 560



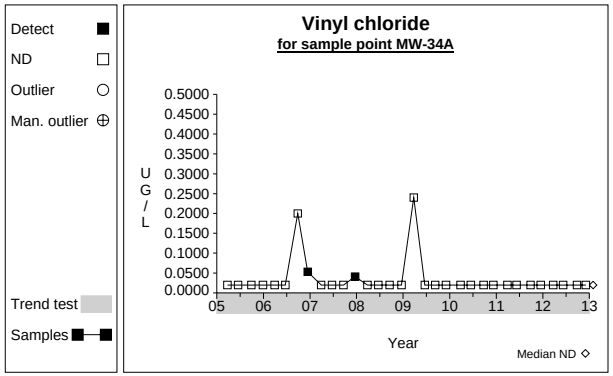
Graph 561



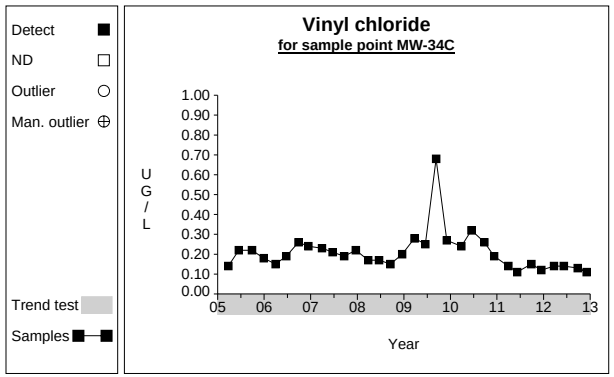
Graph 562



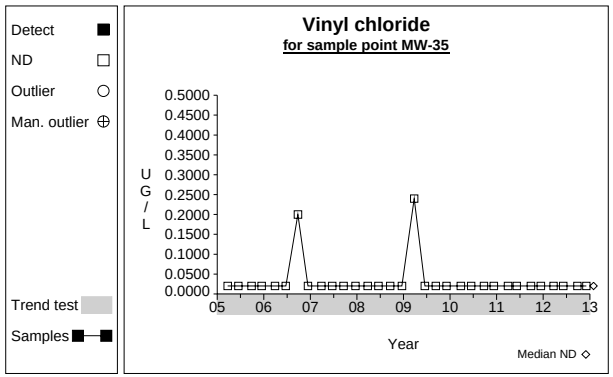
Graph 563



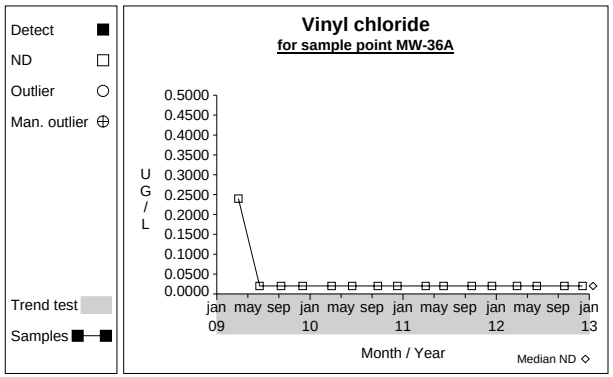
Graph 564



Graph 565

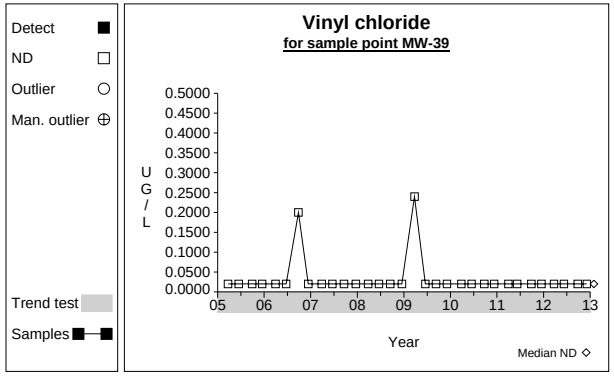


Graph 566

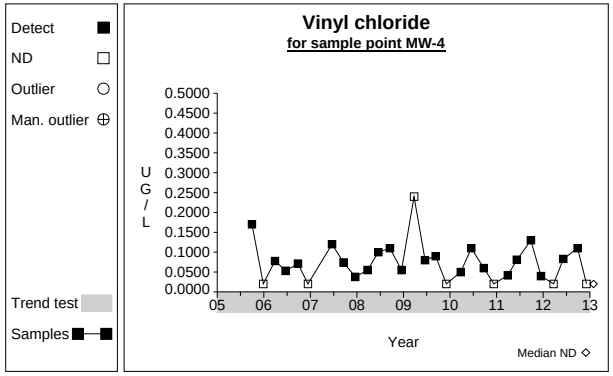


Graph 567

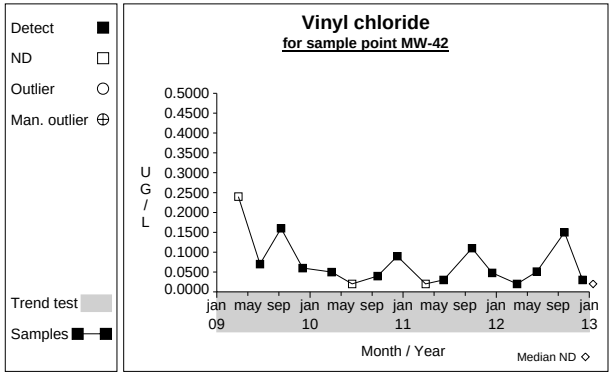
Time Series



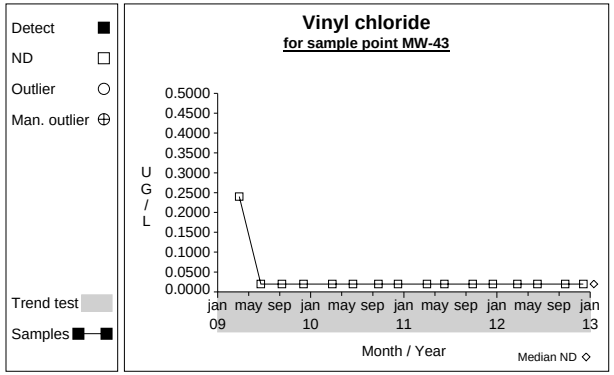
Graph 568



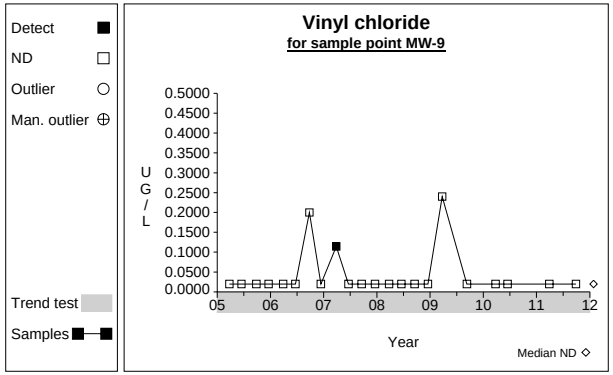
Graph 569



Graph 570

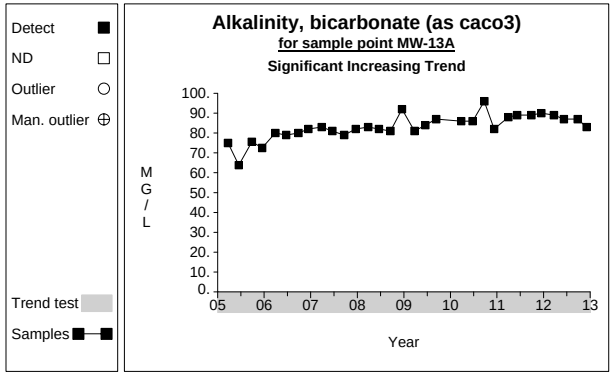


Graph 571

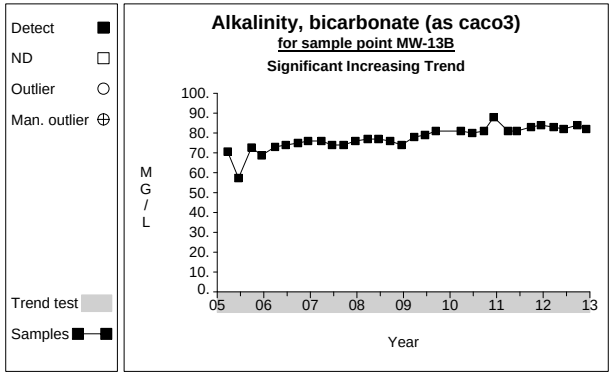


Graph 572

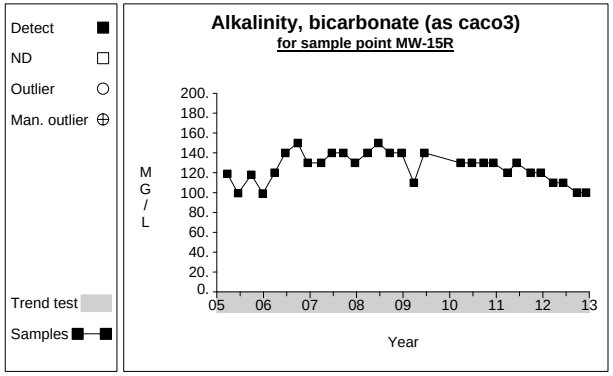
Time Series



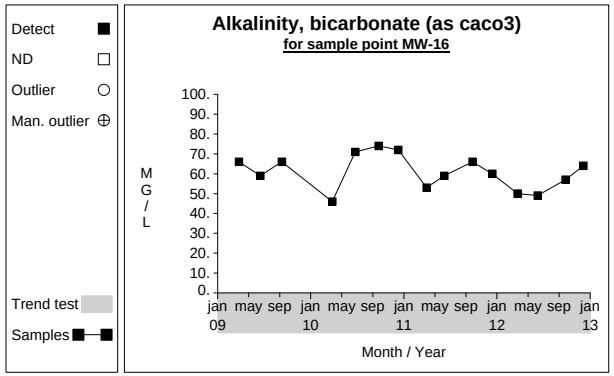
Graph 1



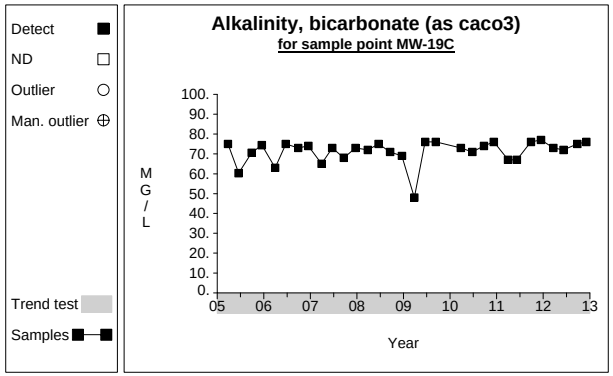
Graph 2



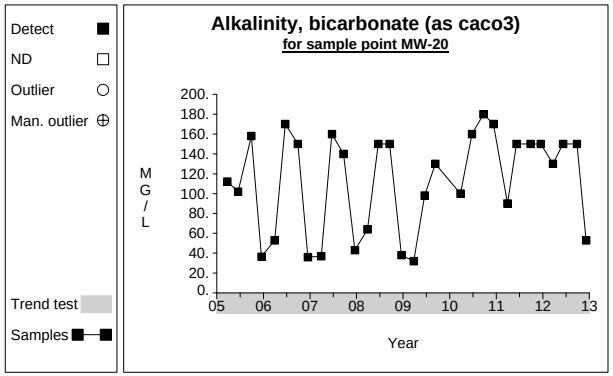
Graph 3



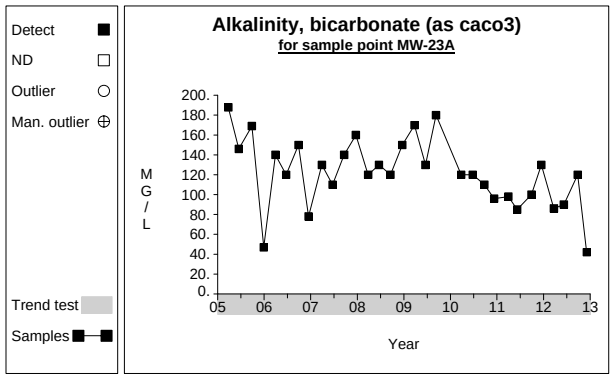
Graph 4



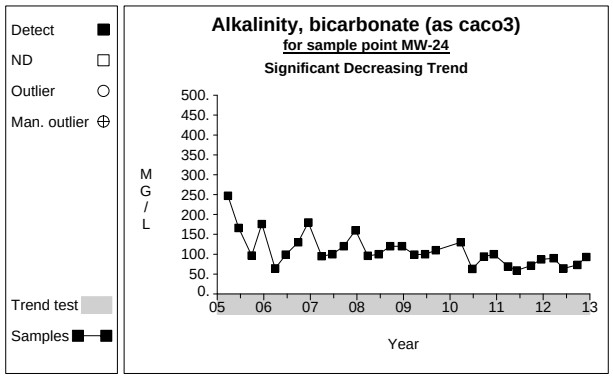
Graph 5



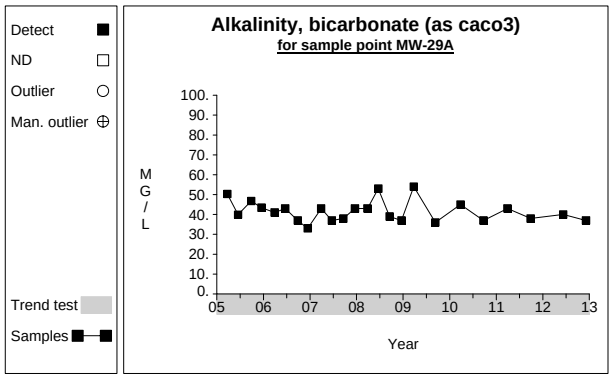
Graph 6



Graph 7

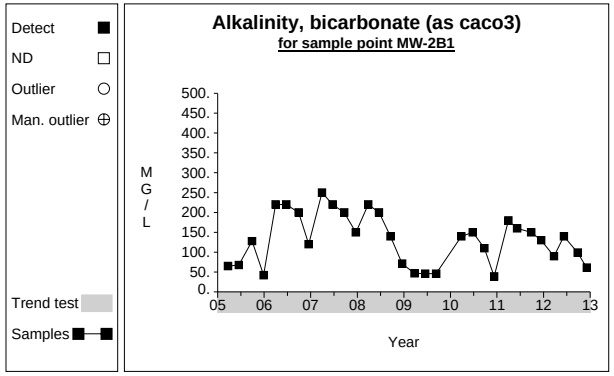


Graph 8

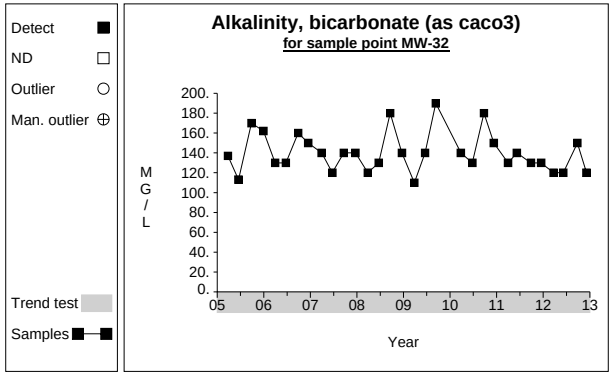


Graph 9

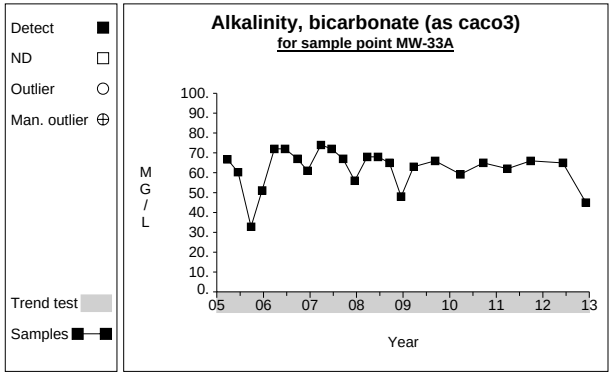
Time Series



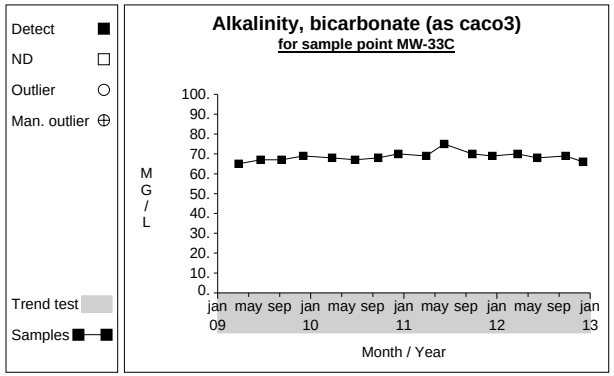
Graph 10



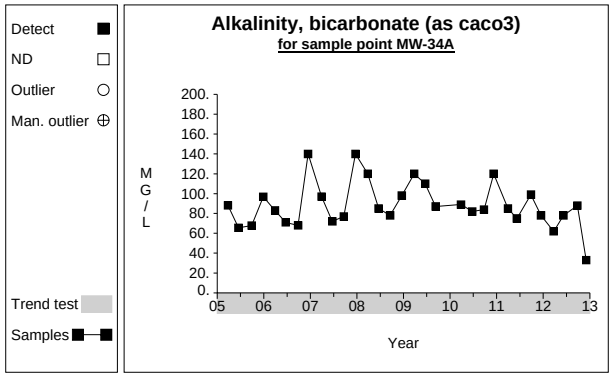
Graph 11



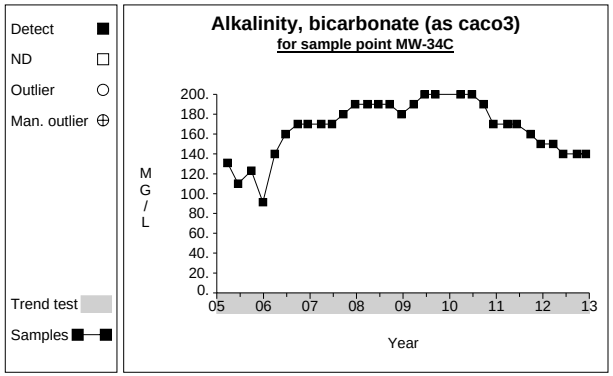
Graph 12



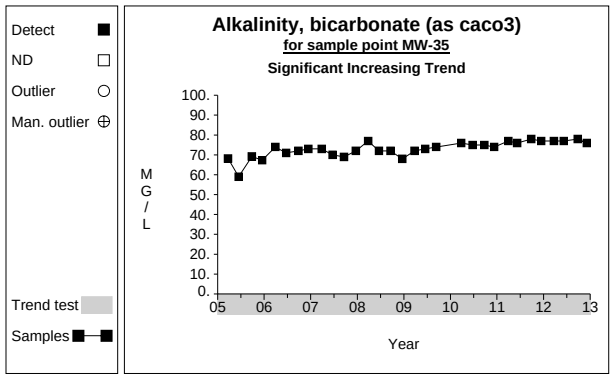
Graph 13



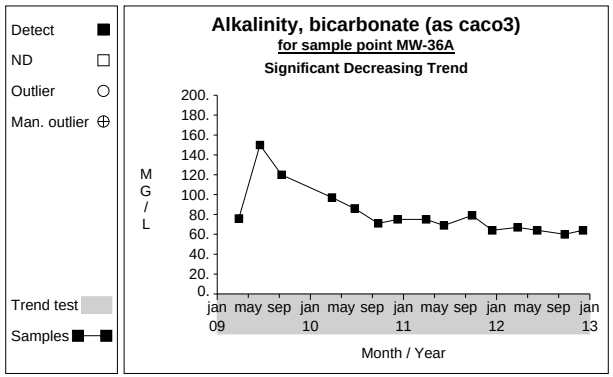
Graph 14



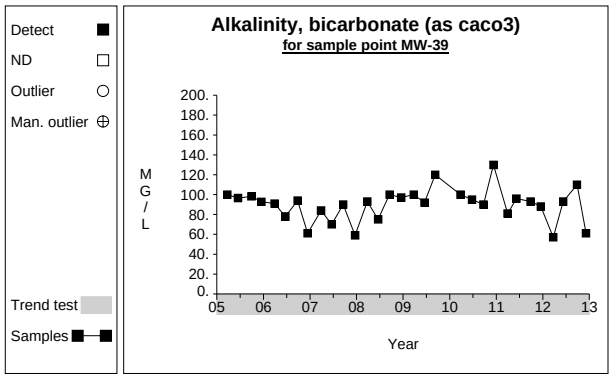
Graph 15



Graph 16

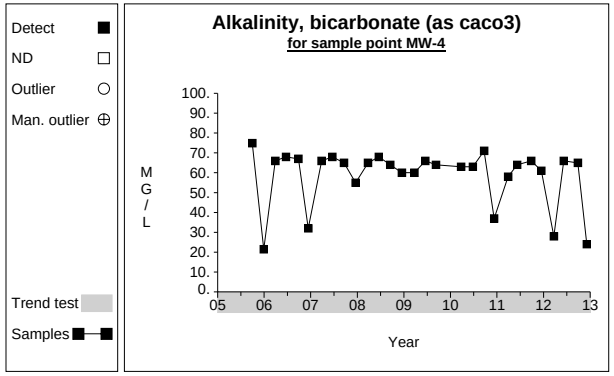


Graph 17

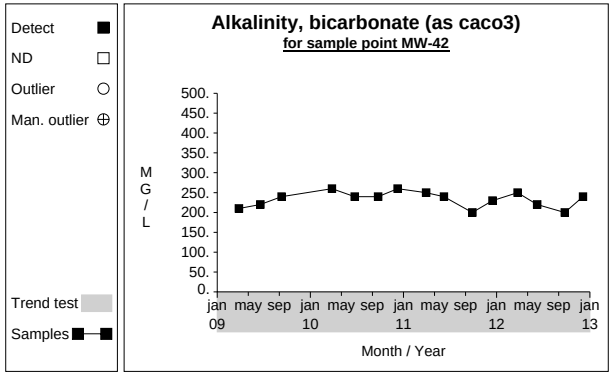


Graph 18

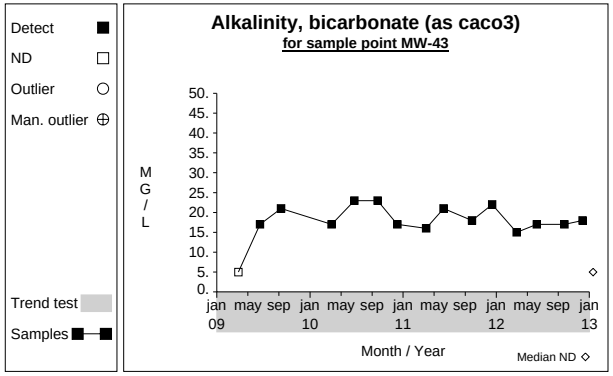
Time Series



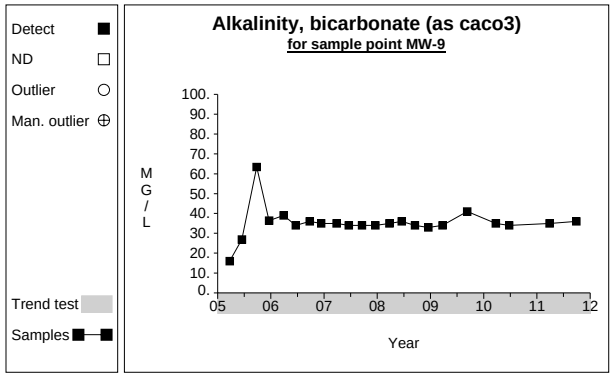
Graph 19



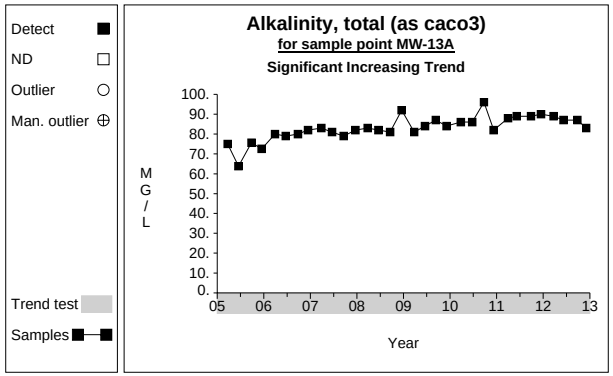
Graph 20



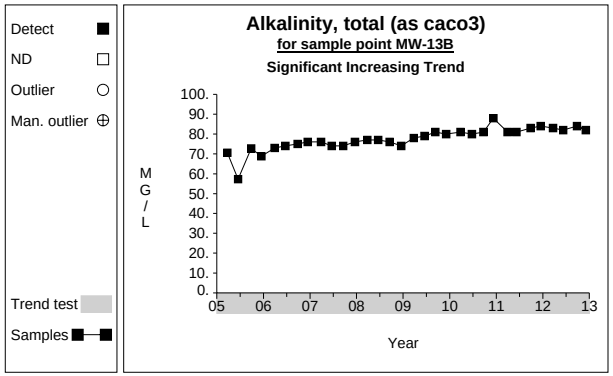
Graph 21



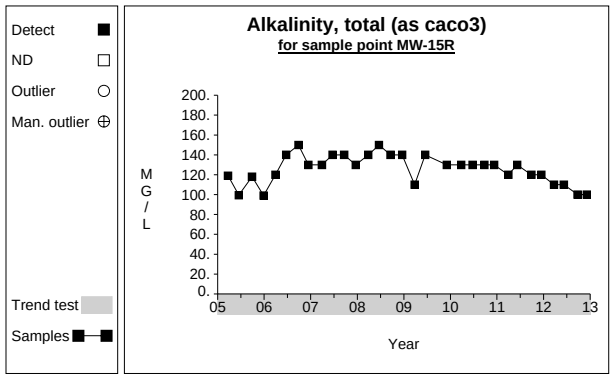
Graph 22



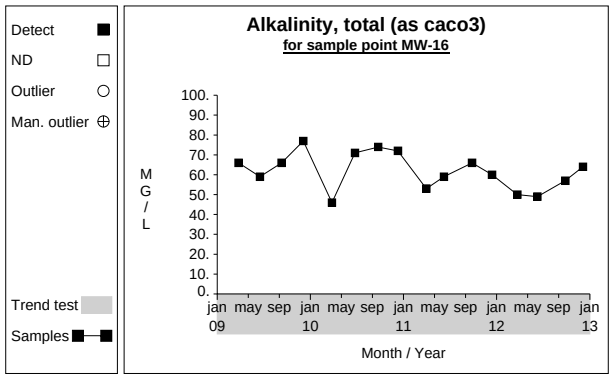
Graph 23



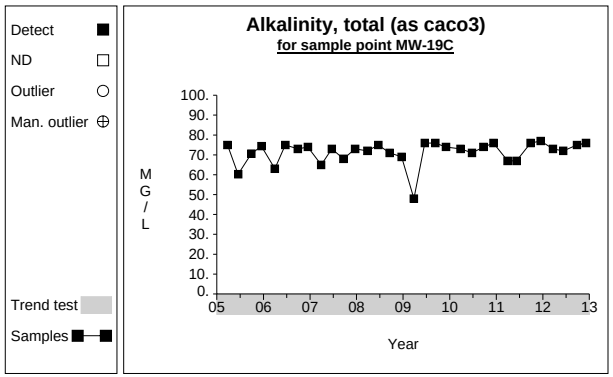
Graph 24



Graph 25

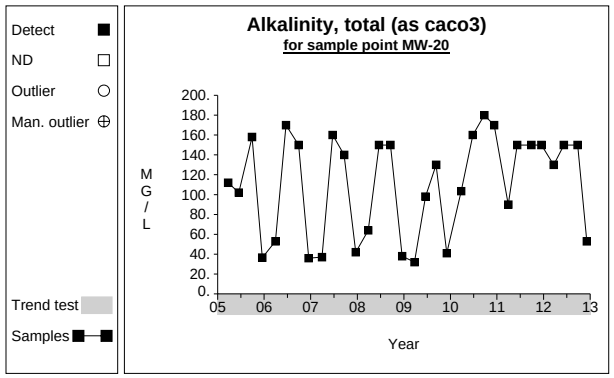


Graph 26

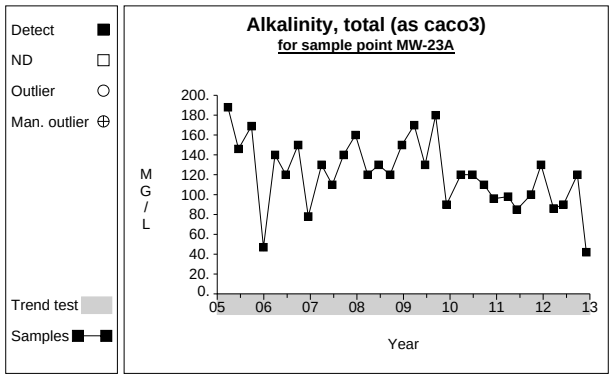


Graph 27

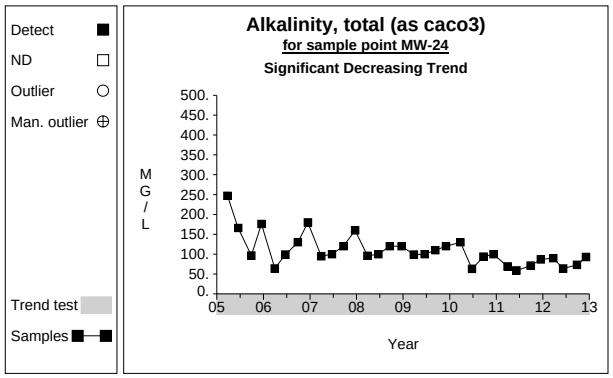
Time Series



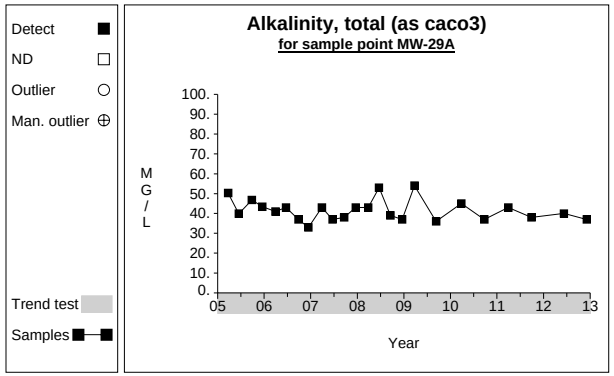
Graph 28



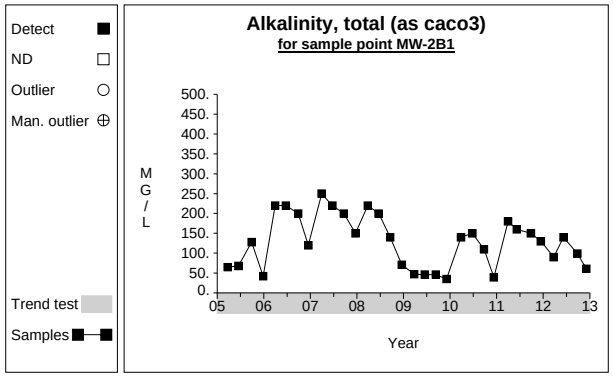
Graph 29



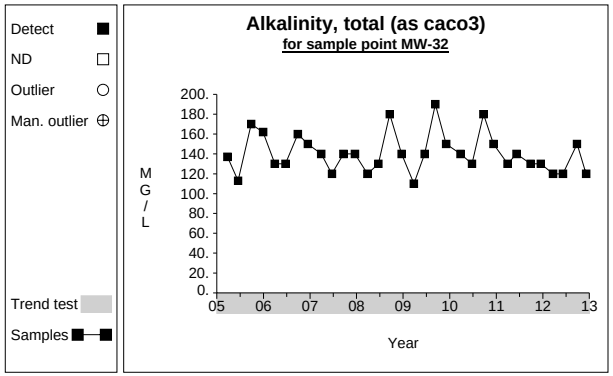
Graph 30



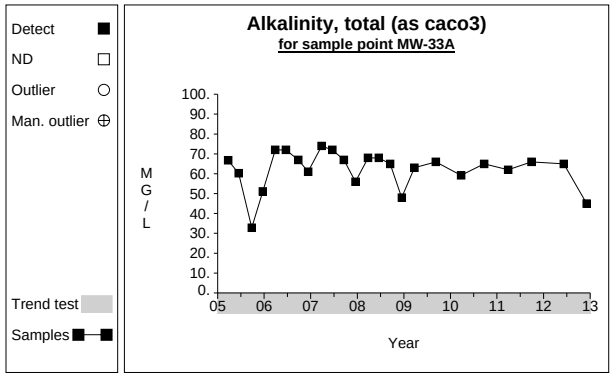
Graph 31



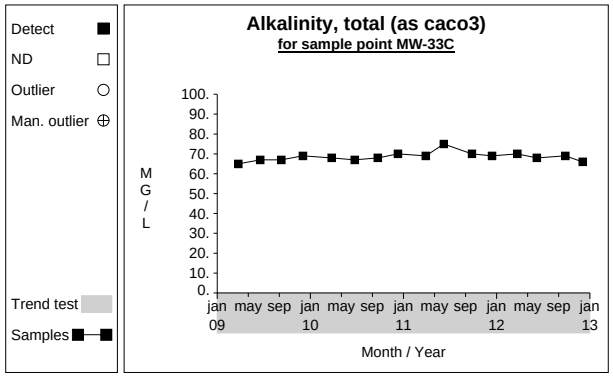
Graph 32



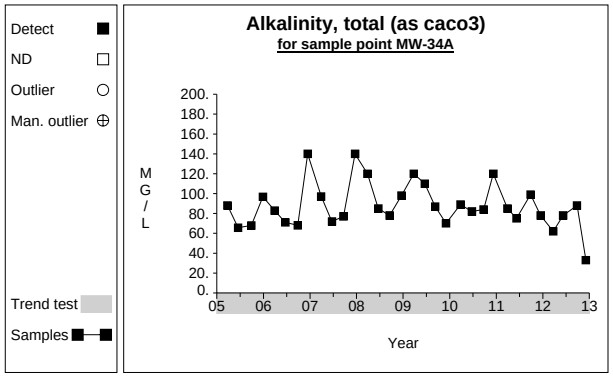
Graph 33



Graph 34

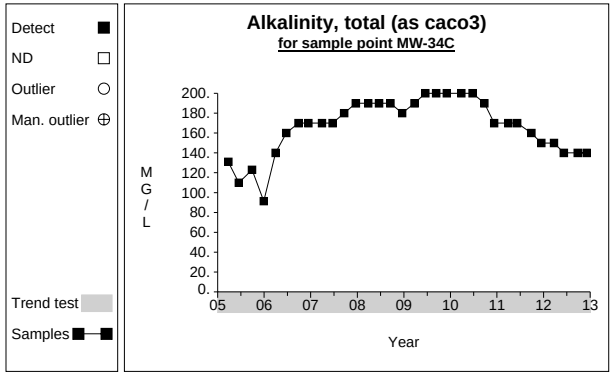


Graph 35

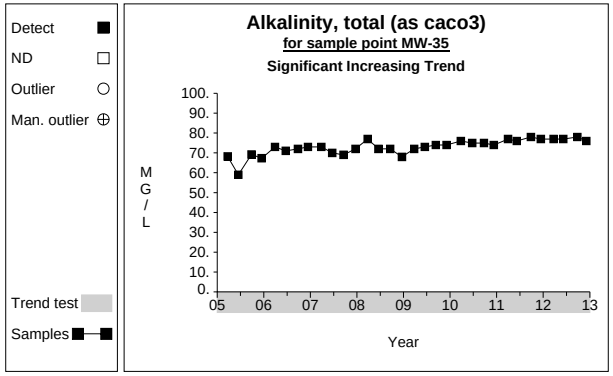


Graph 36

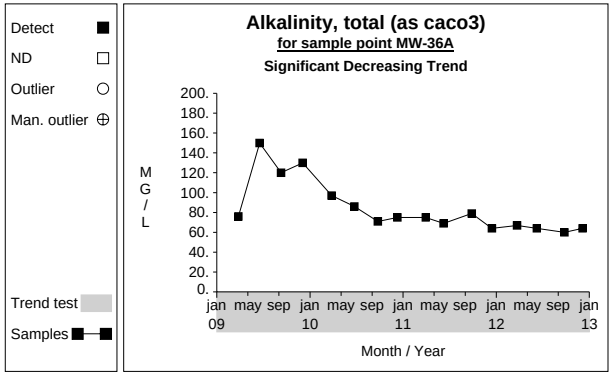
Time Series



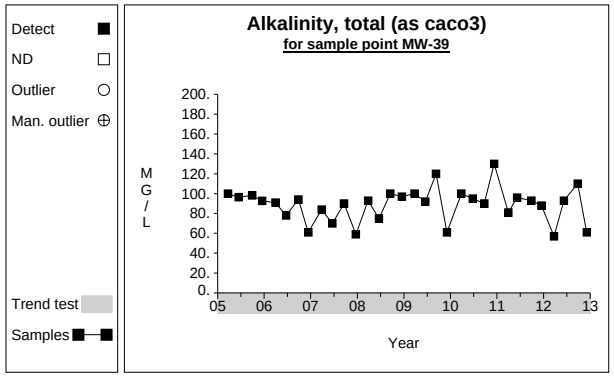
Graph 37



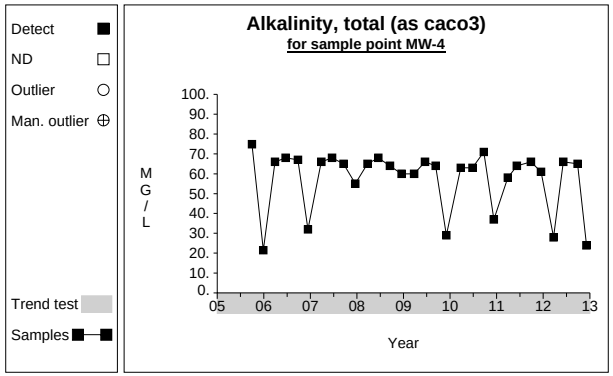
Graph 38



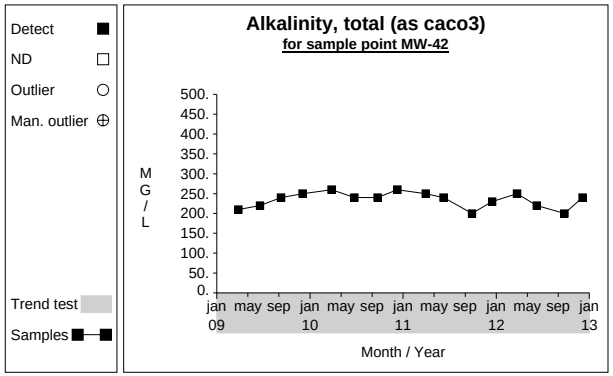
Graph 39



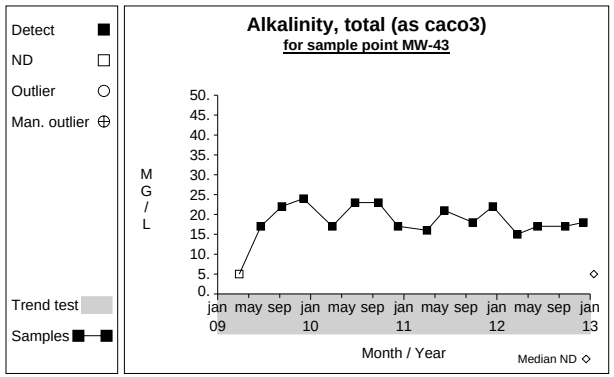
Graph 40



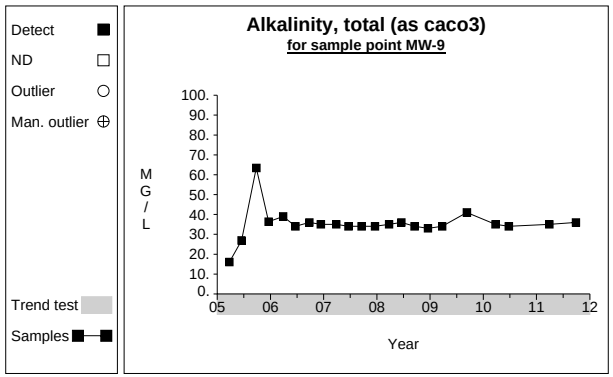
Graph 41



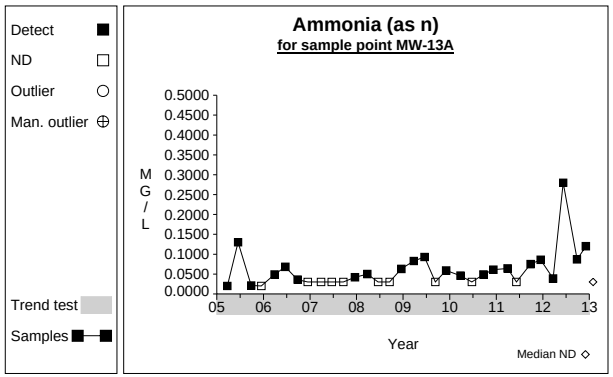
Graph 42



Graph 43

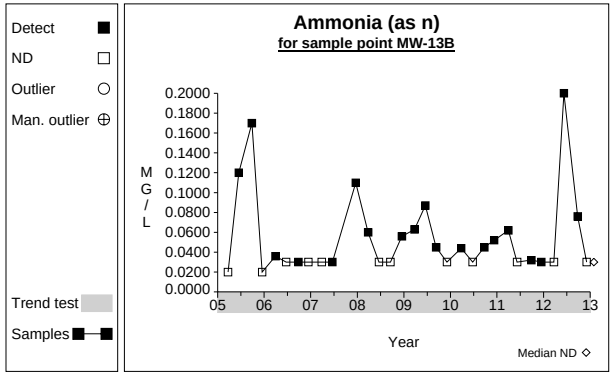


Graph 44

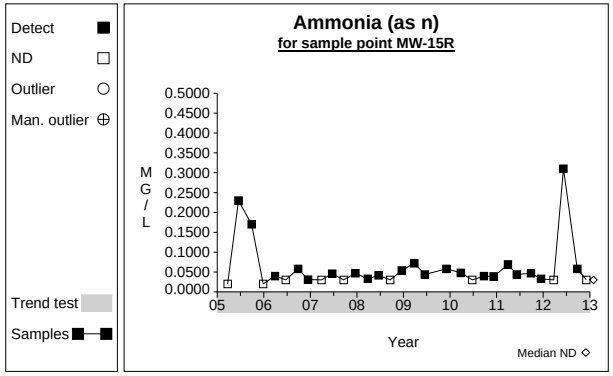


Graph 45

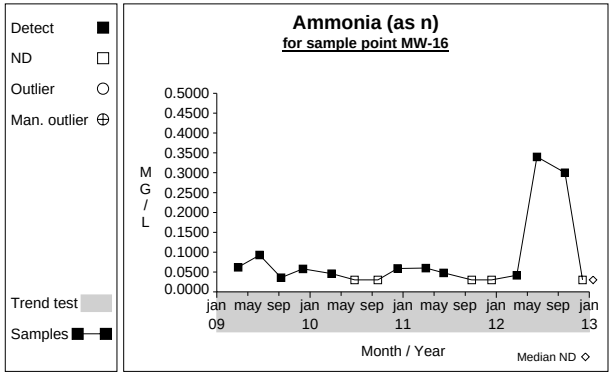
Time Series



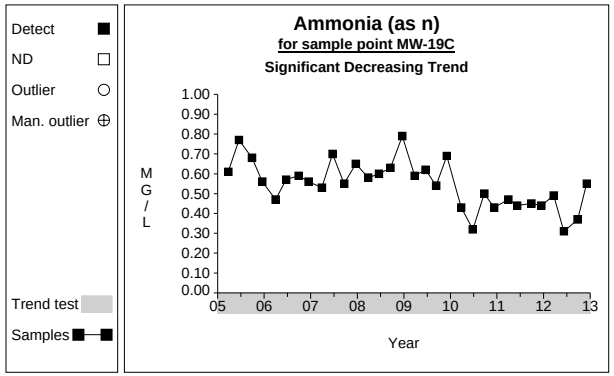
Graph 46



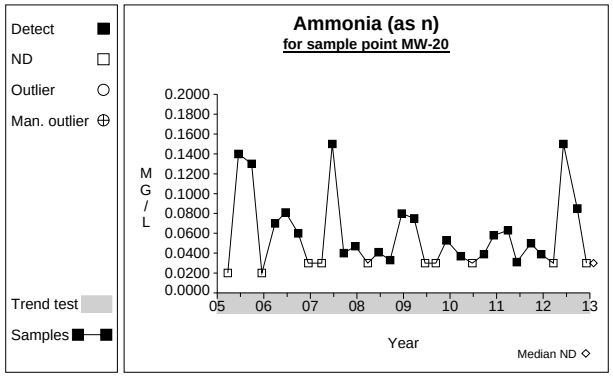
Graph 47



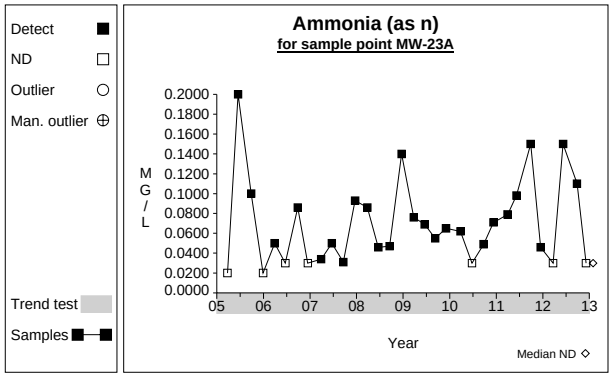
Graph 48



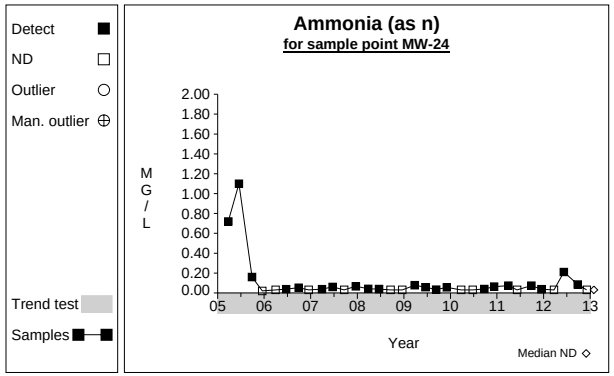
Graph 49



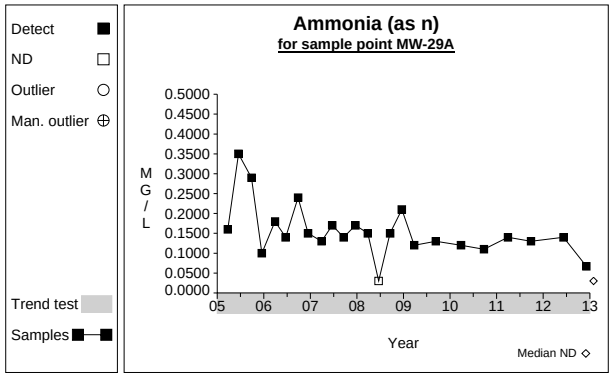
Graph 50



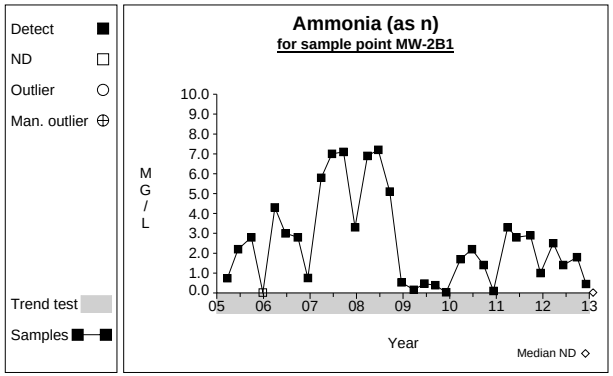
Graph 51



Graph 52

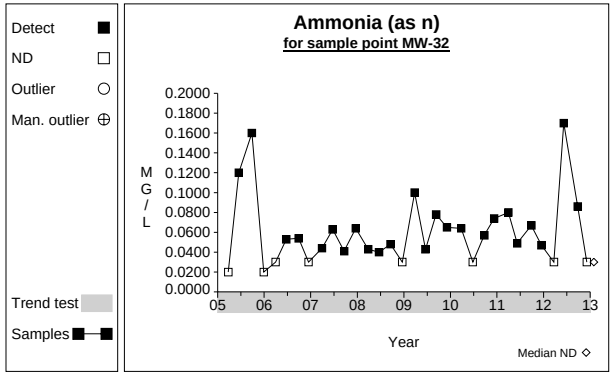


Graph 53

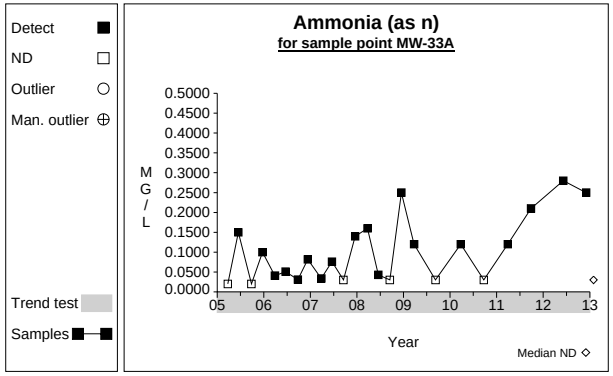


Graph 54

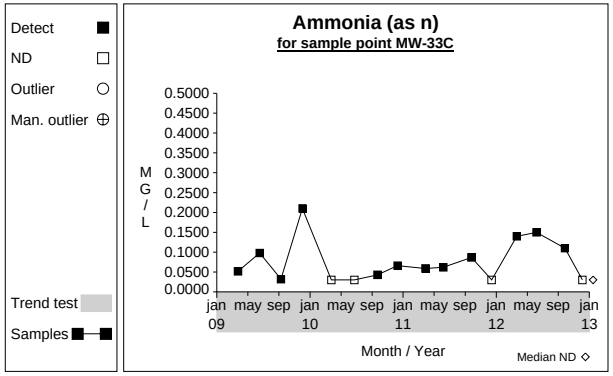
Time Series



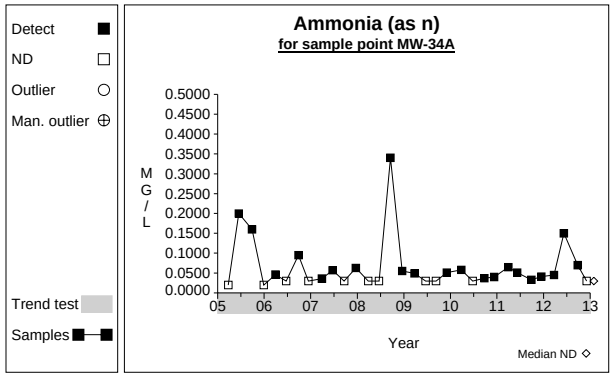
Graph 55



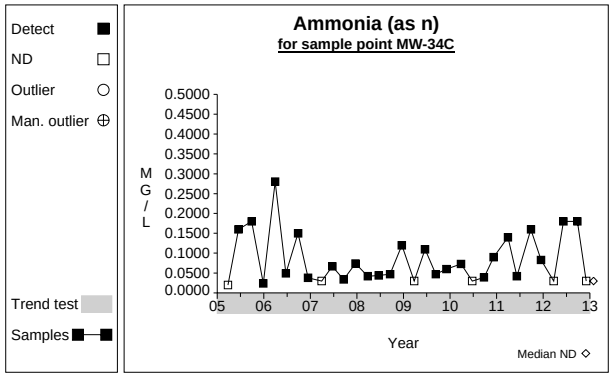
Graph 56



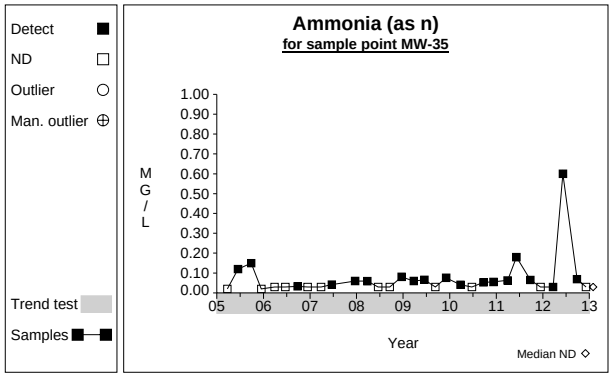
Graph 57



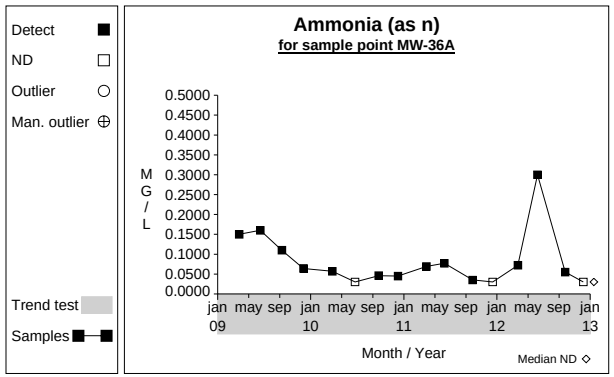
Graph 58



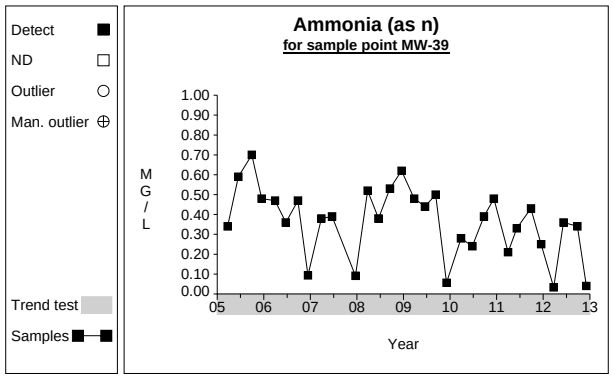
Graph 59



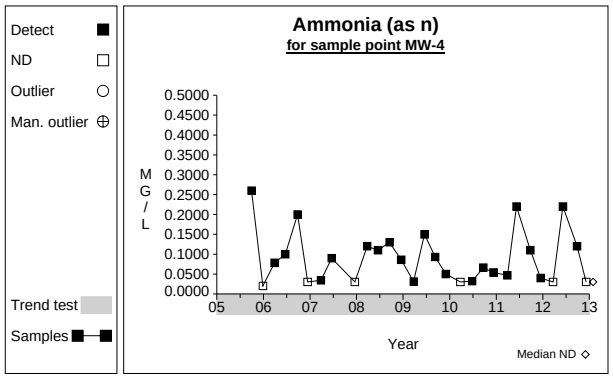
Graph 60



Graph 61

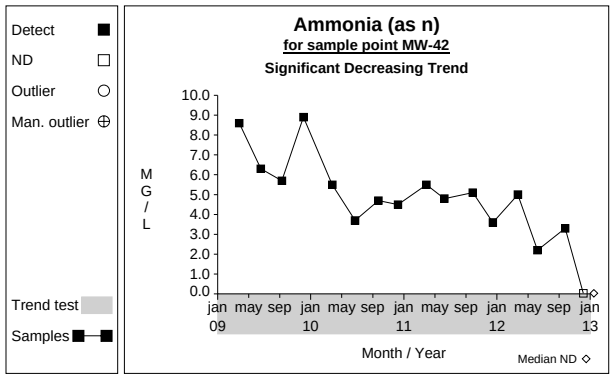


Graph 62

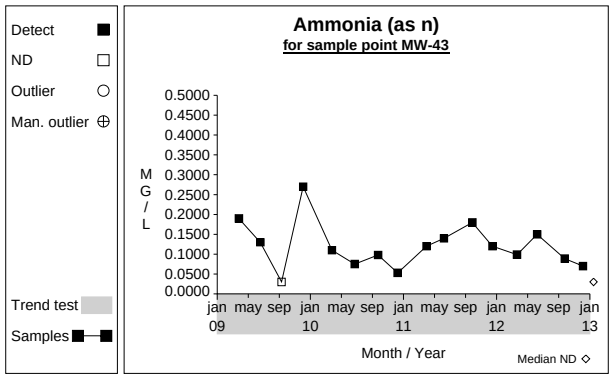


Graph 63

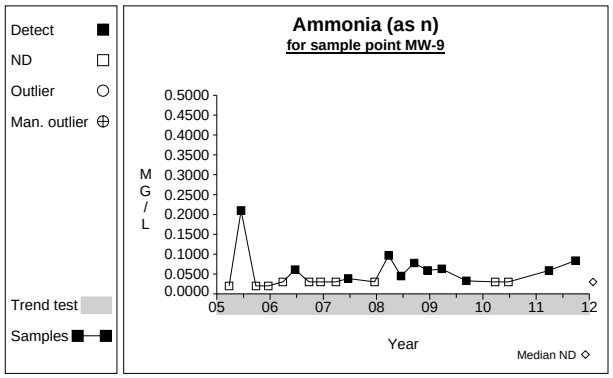
Time Series



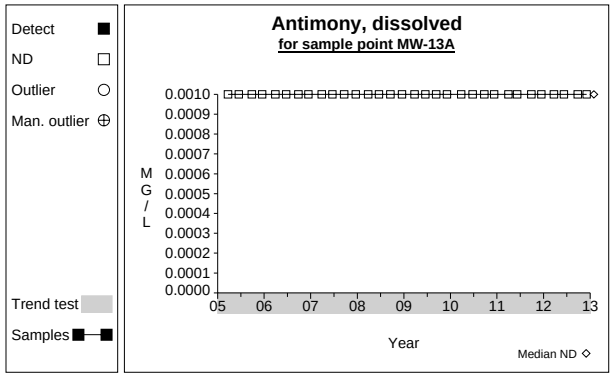
Graph 64



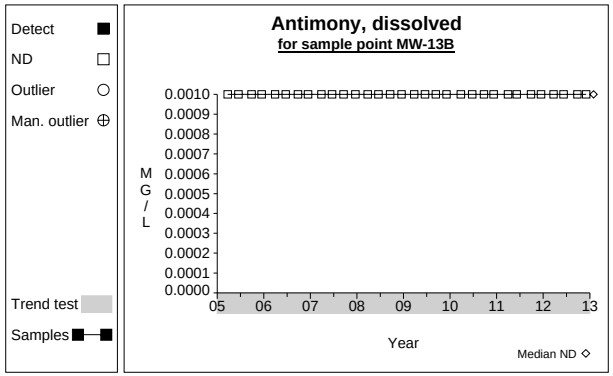
Graph 65



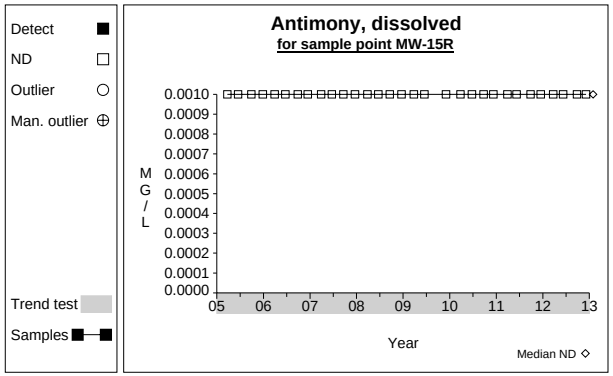
Graph 66



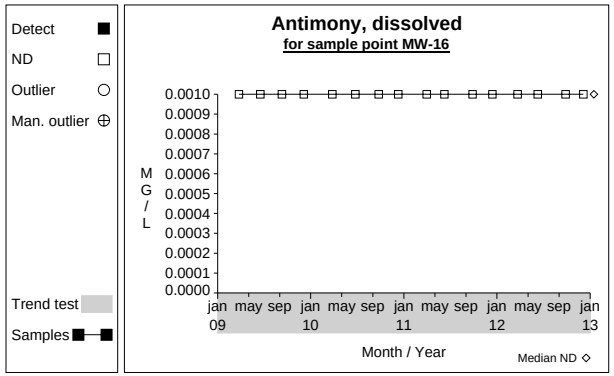
Graph 67



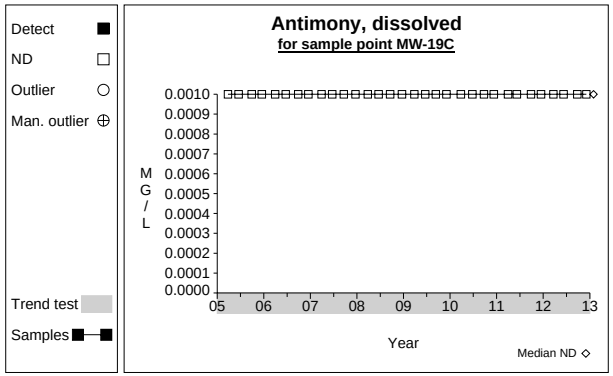
Graph 68



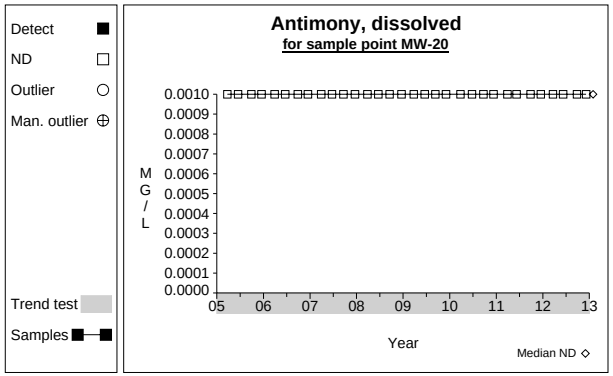
Graph 69



Graph 70

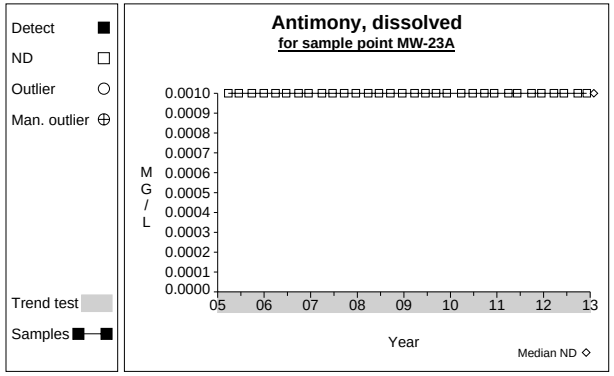


Graph 71

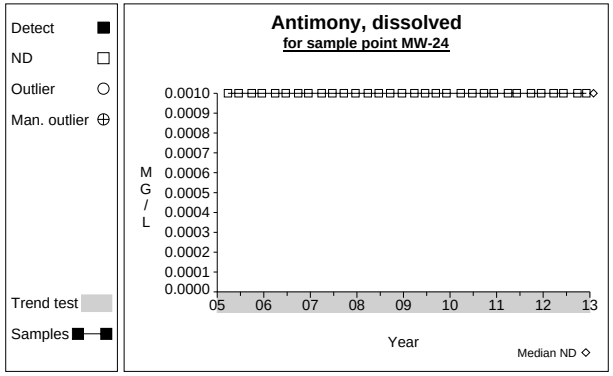


Graph 72

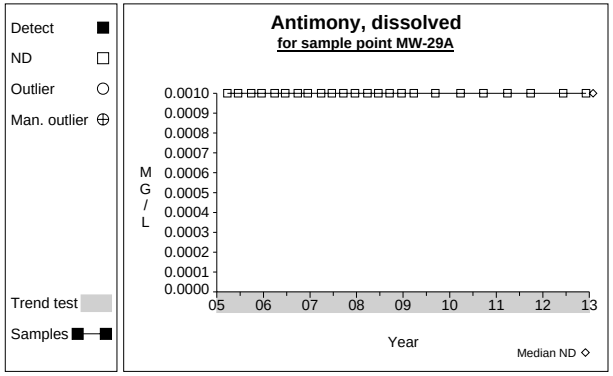
Time Series



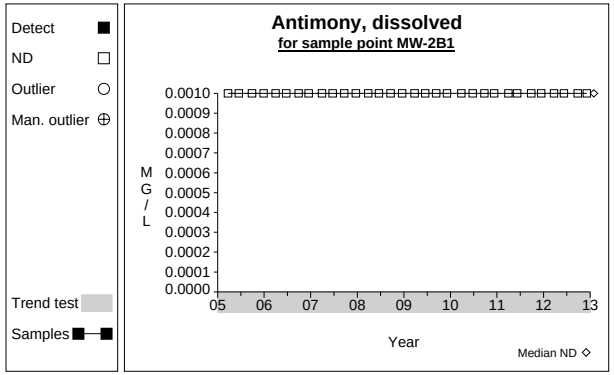
Graph 73



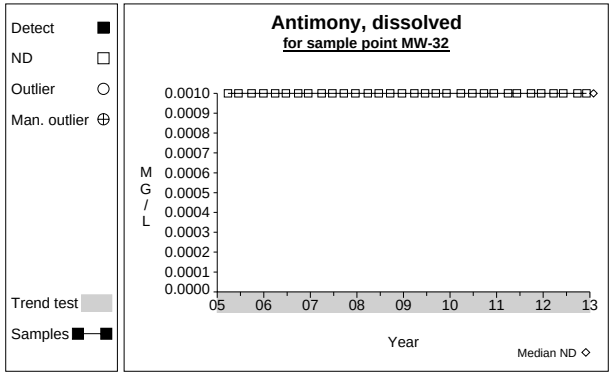
Graph 74



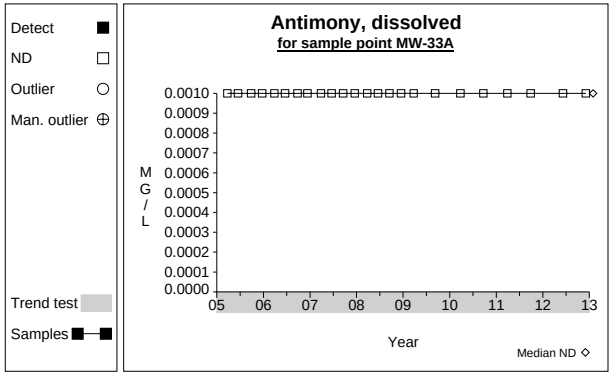
Graph 75



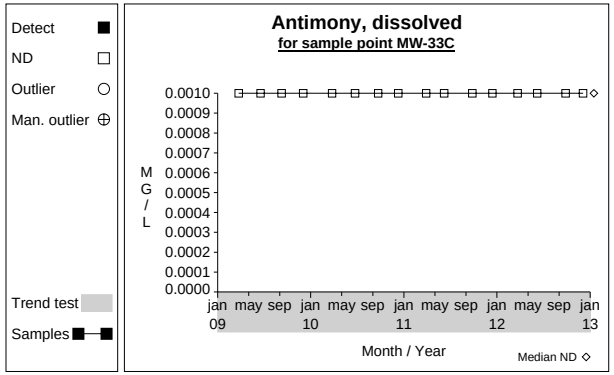
Graph 76



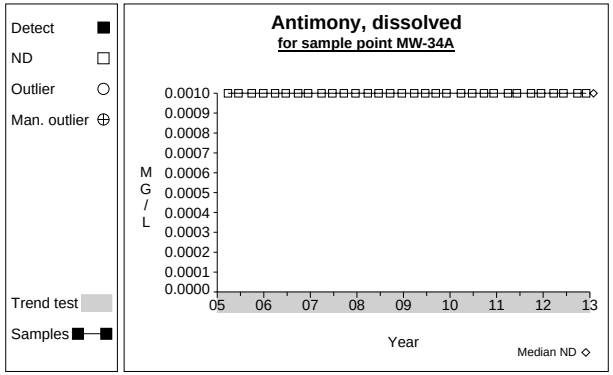
Graph 77



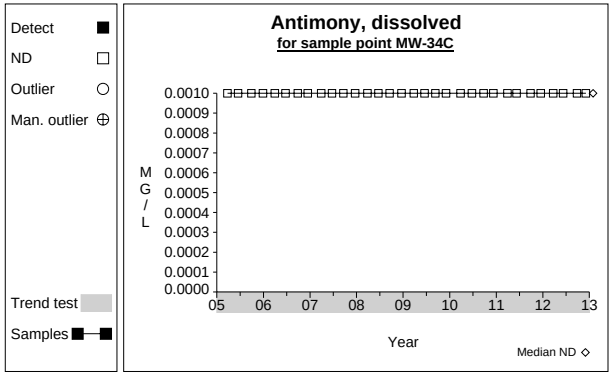
Graph 78



Graph 79

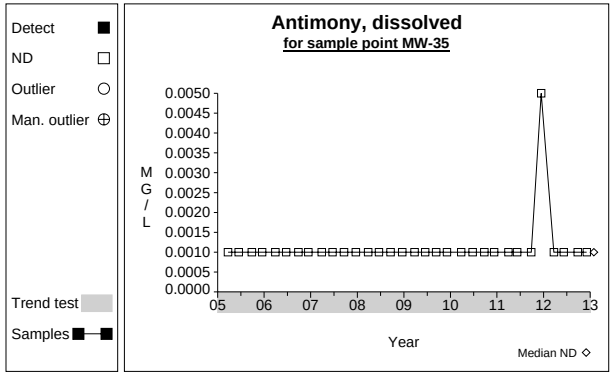


Graph 80

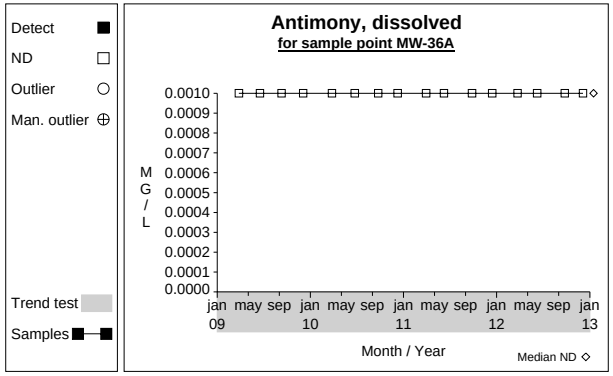


Graph 81

Time Series



Graph 82



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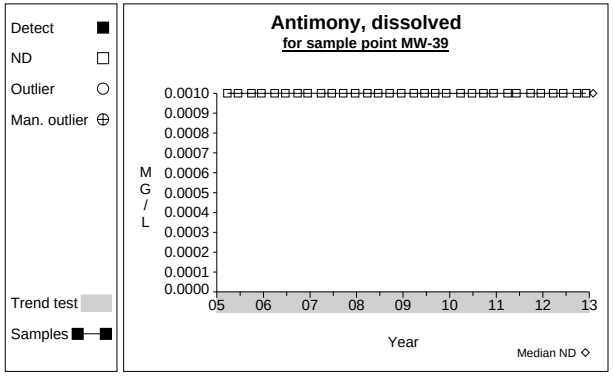
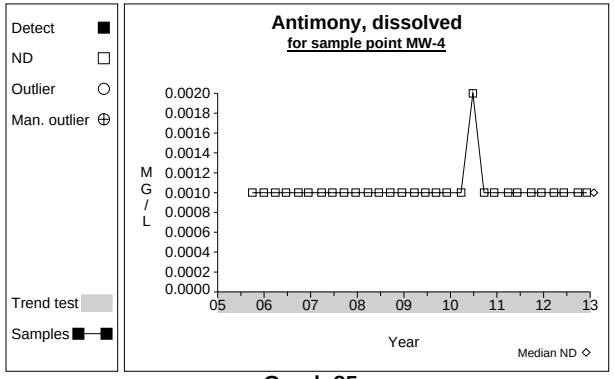
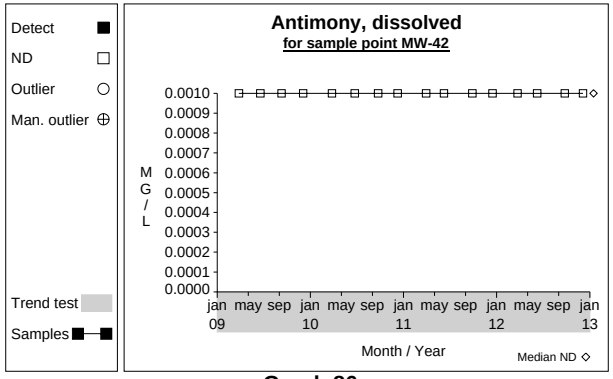


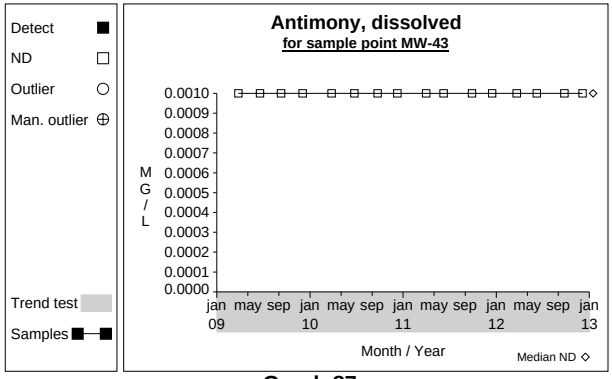
Graph 84



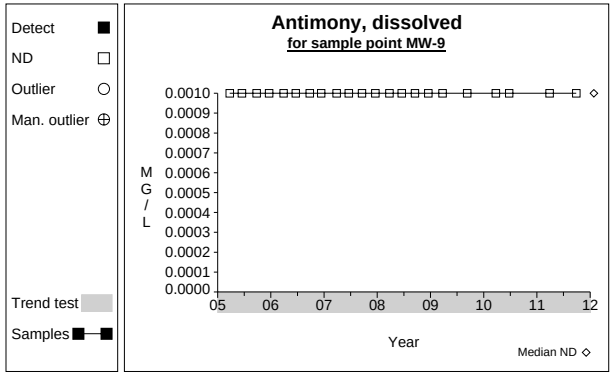
Graph 85



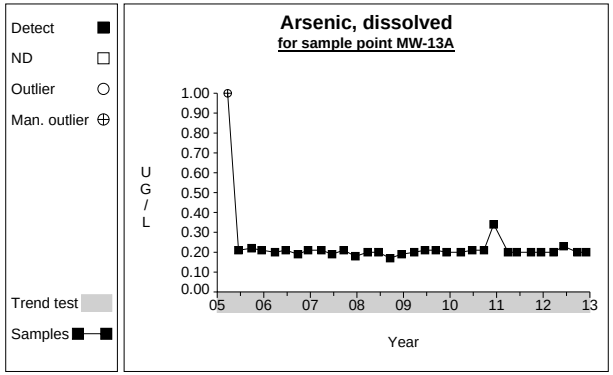
Graph 86



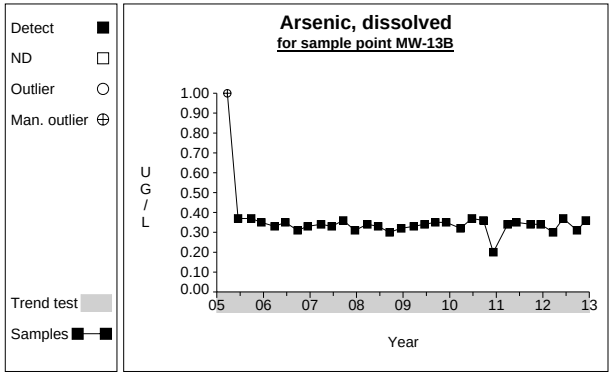
Graph 87



Graph 88

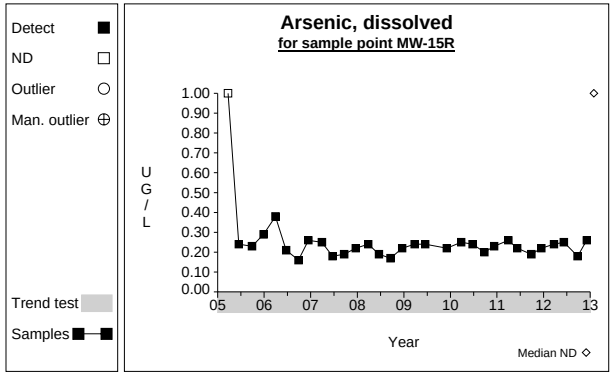


Graph 89

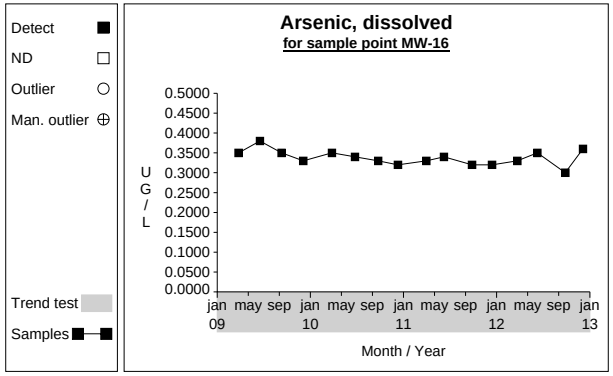


Graph 90

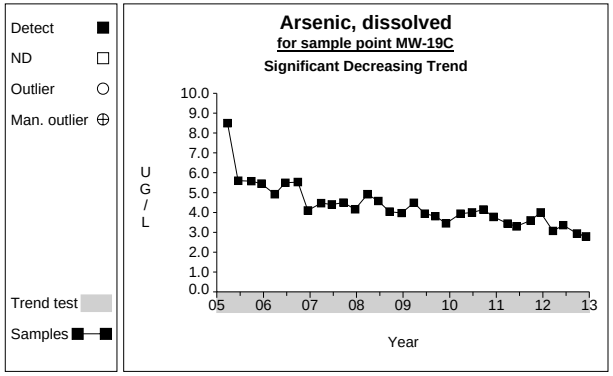
Time Series



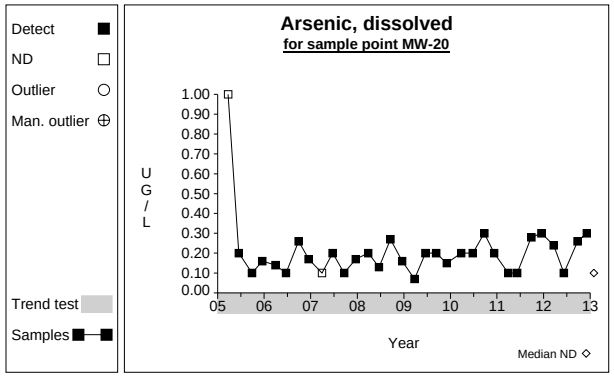
Graph 91



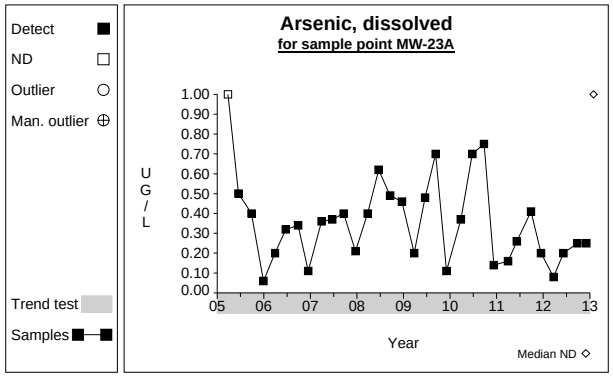
Graph 92



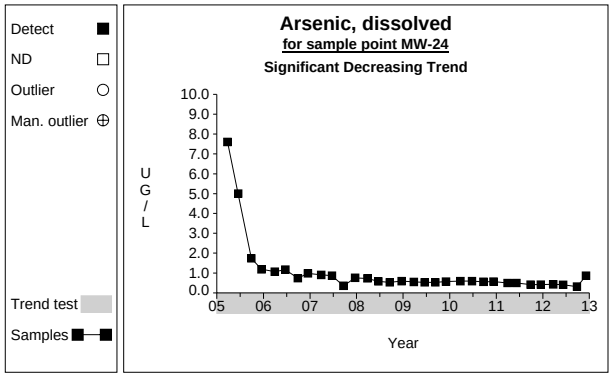
Graph 93



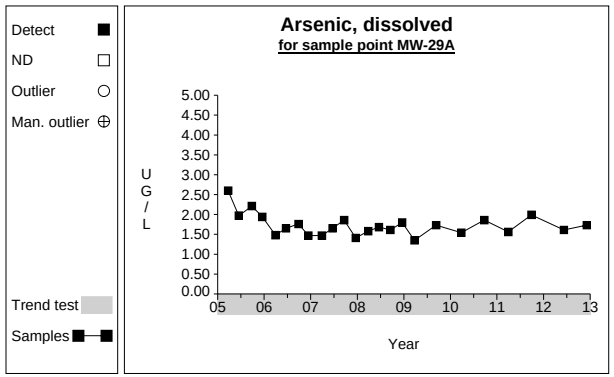
Graph 94



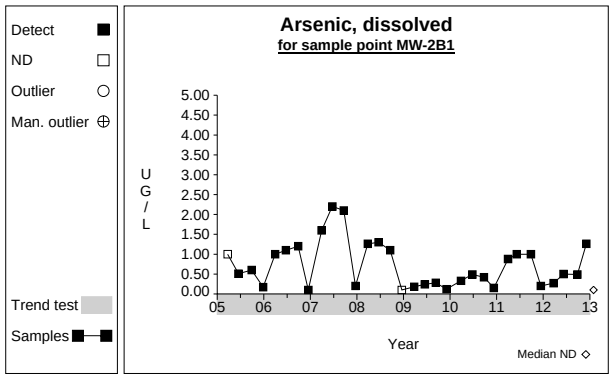
Graph 95



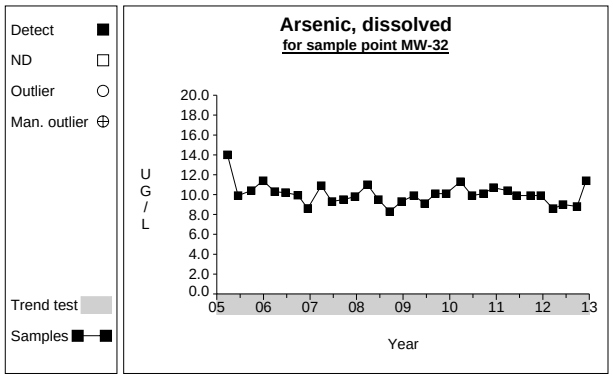
Graph 96



Graph 97

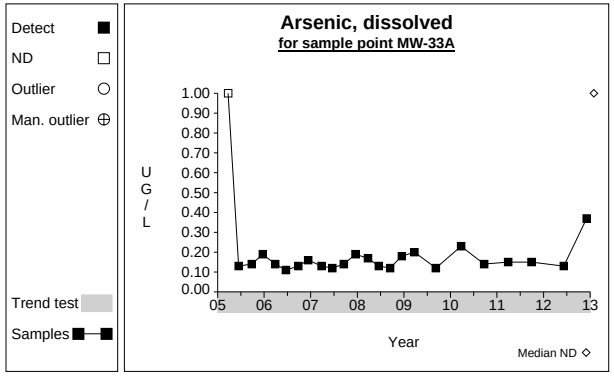


Graph 98

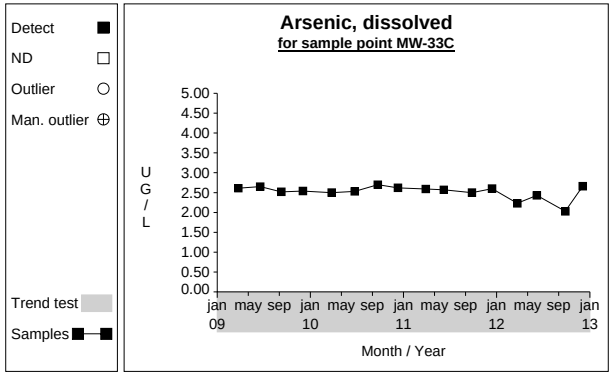


Graph 99

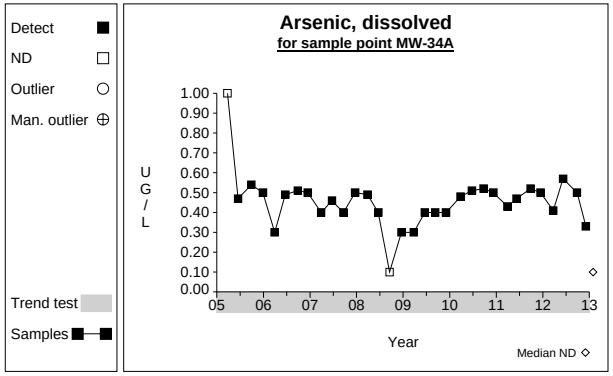
Time Series



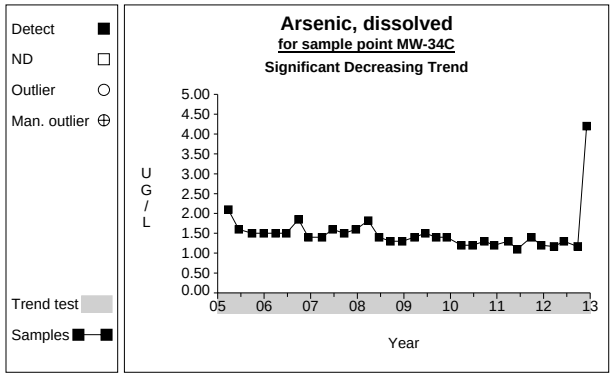
Graph 100



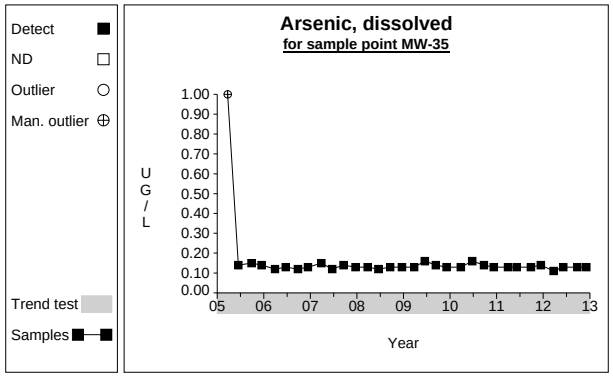
Graph 101



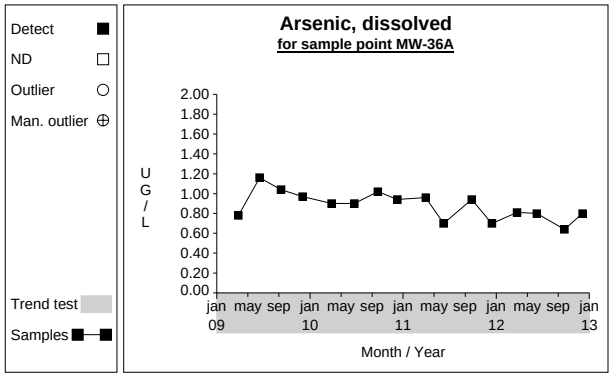
Graph 102



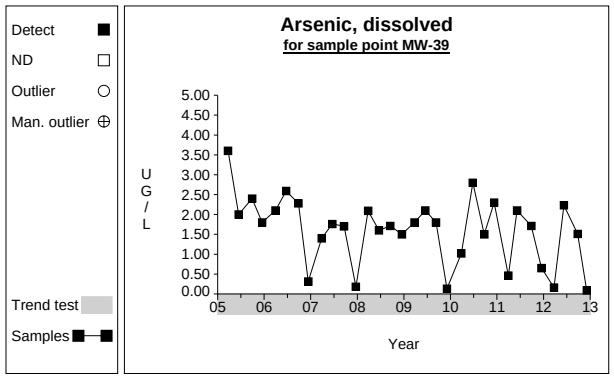
Graph 103



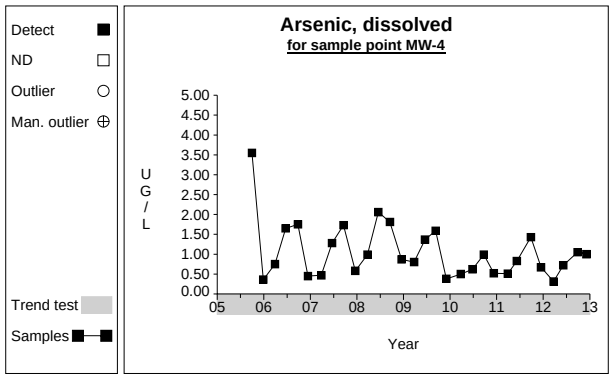
Graph 104



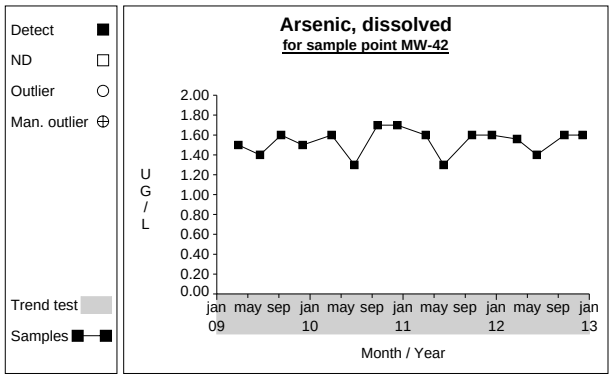
Graph 105



Graph 106

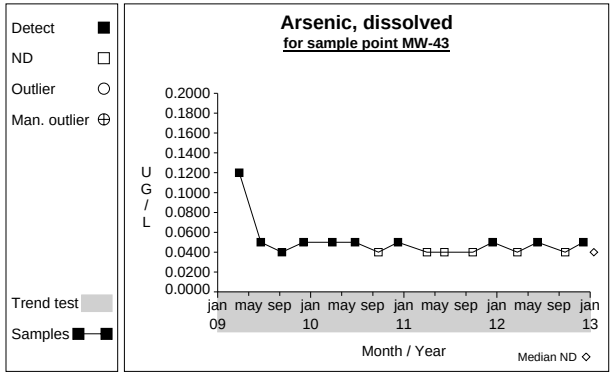


Graph 107

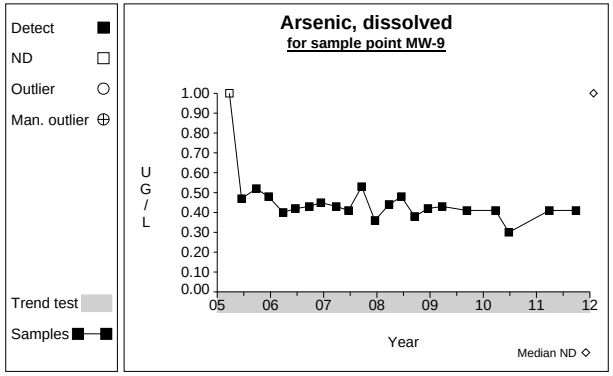


Graph 108

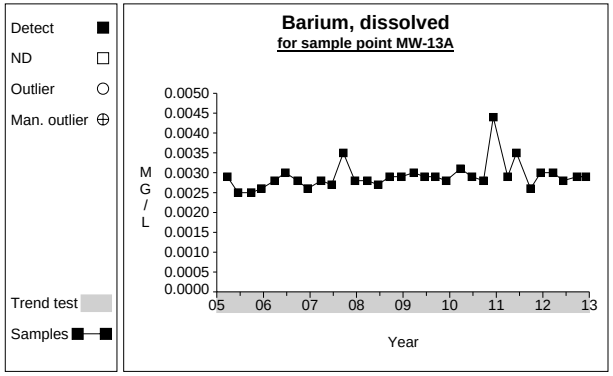
Time Series



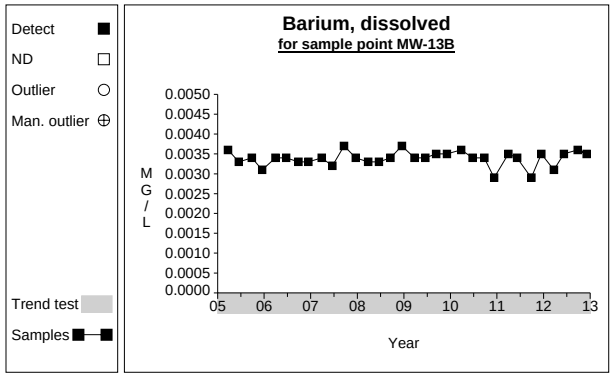
Graph 109



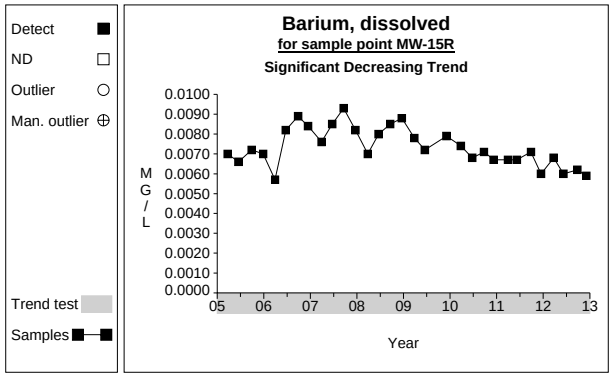
Graph 110



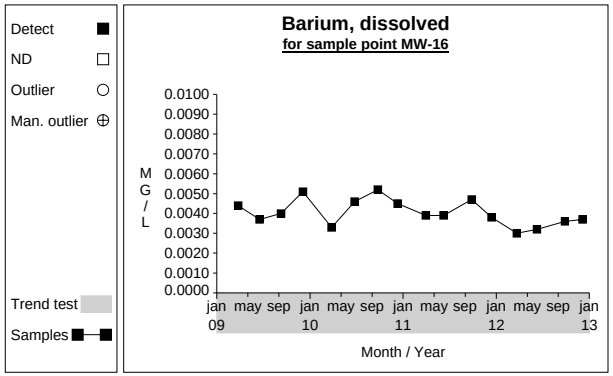
Graph 111



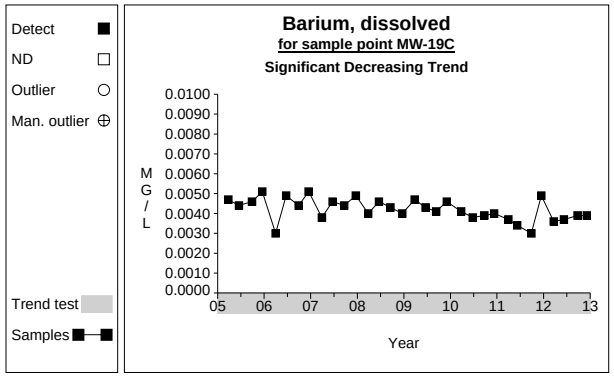
Graph 112



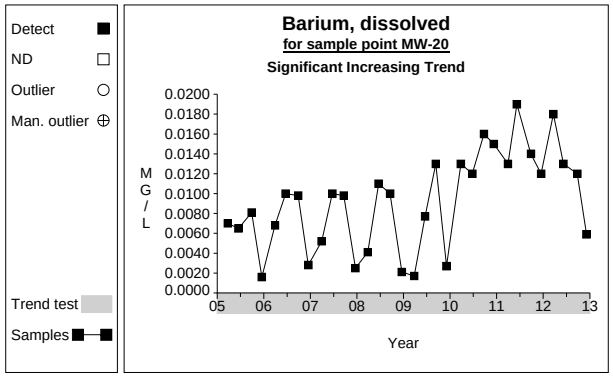
Graph 113



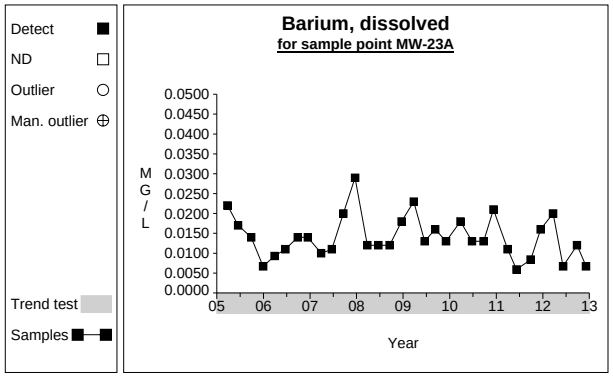
Graph 114



Graph 115

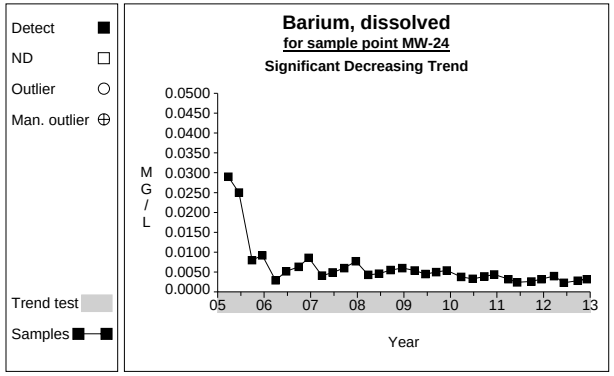


Graph 116

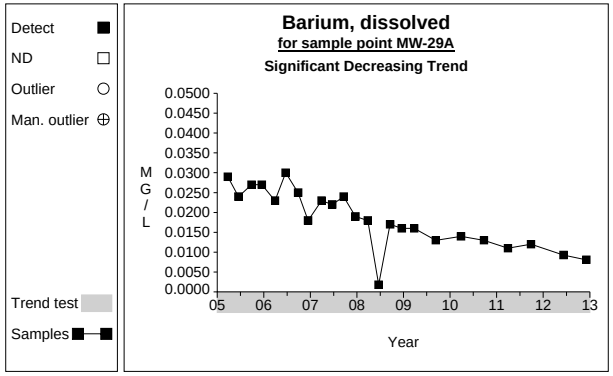


Graph 117

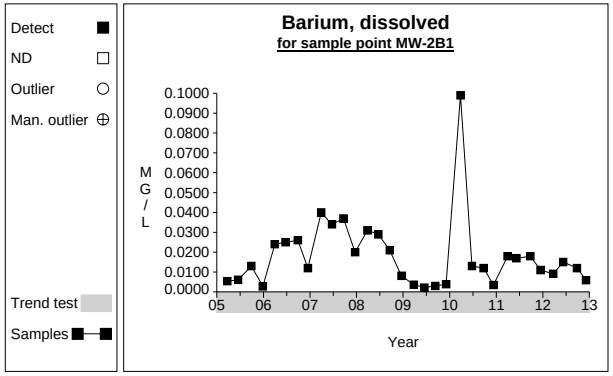
Time Series



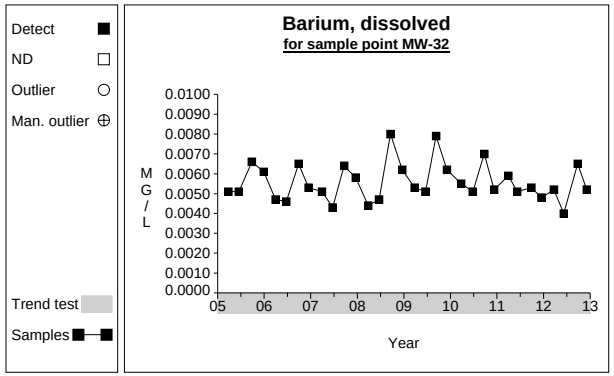
Graph 118



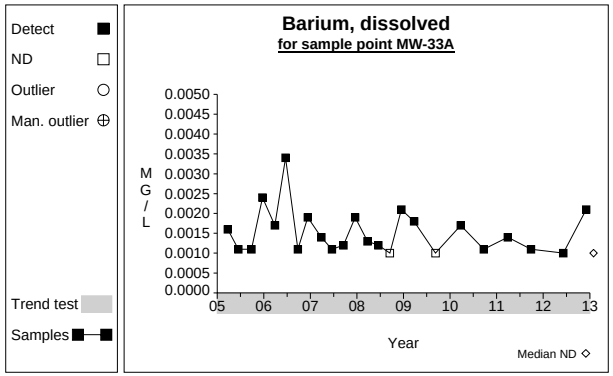
Graph 119



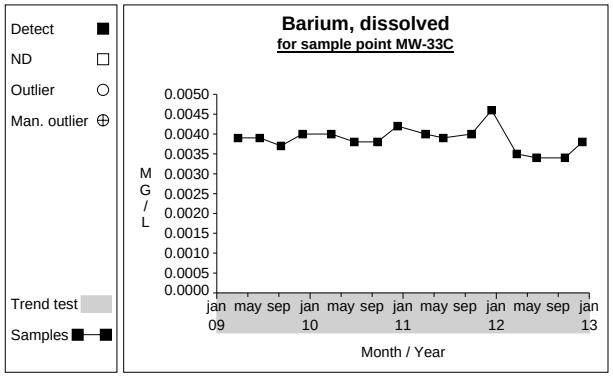
Graph 120



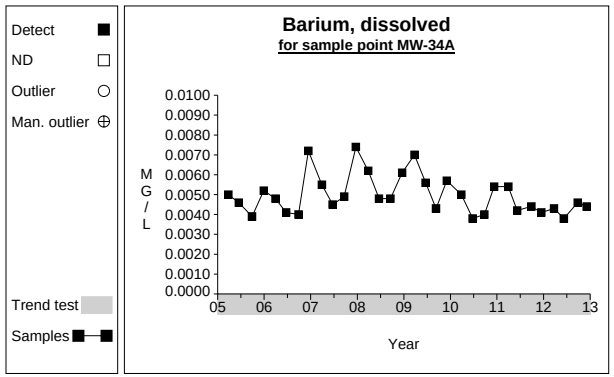
Graph 121



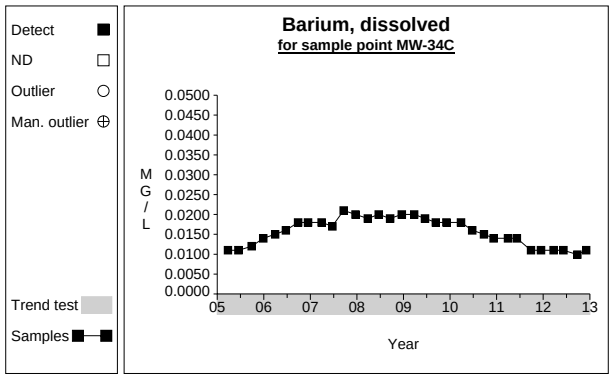
Graph 122



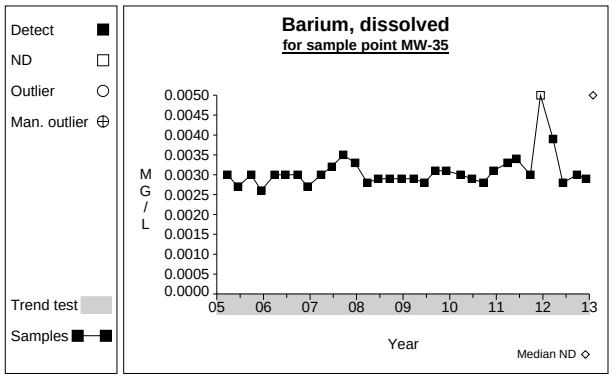
Graph 123



Graph 124

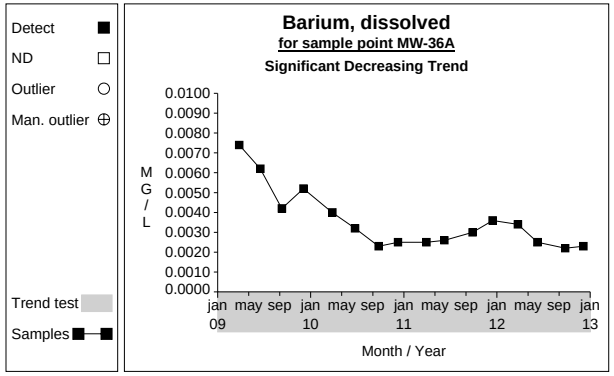


Graph 125

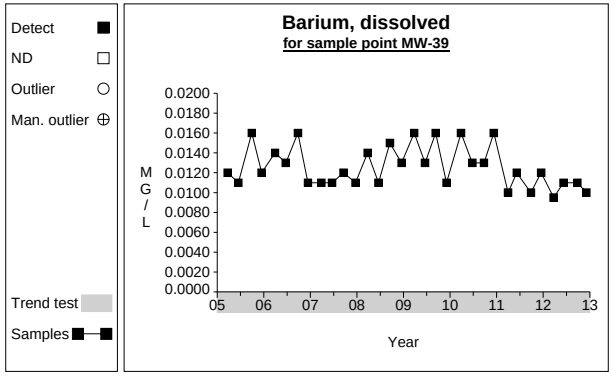


Graph 126

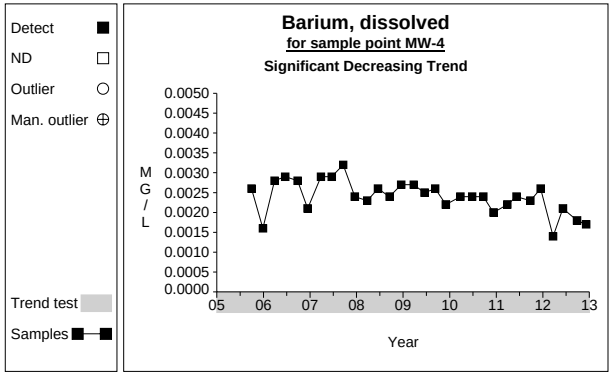
Time Series



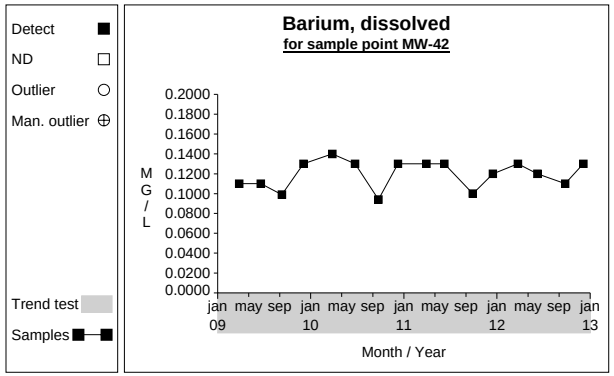
Graph 127



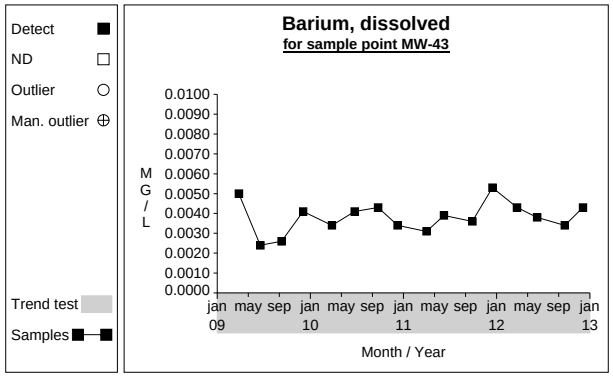
Graph 128



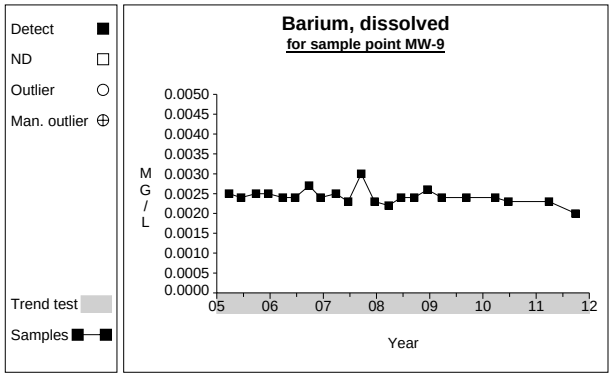
Graph 129



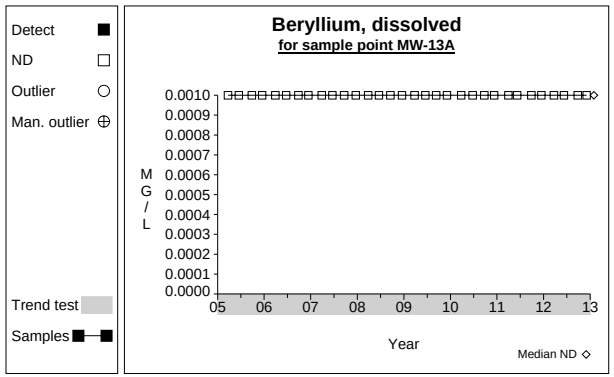
Graph 130



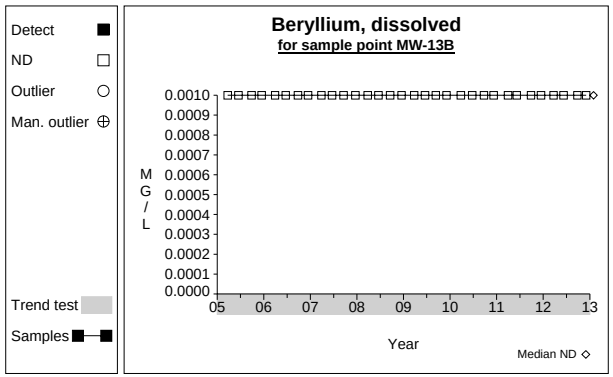
Graph 131



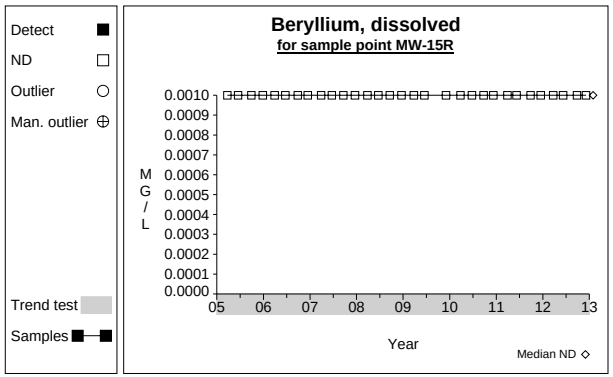
Graph 132



Graph 133

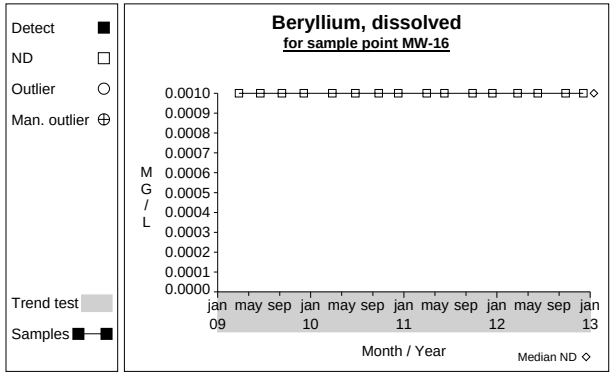


Graph 134

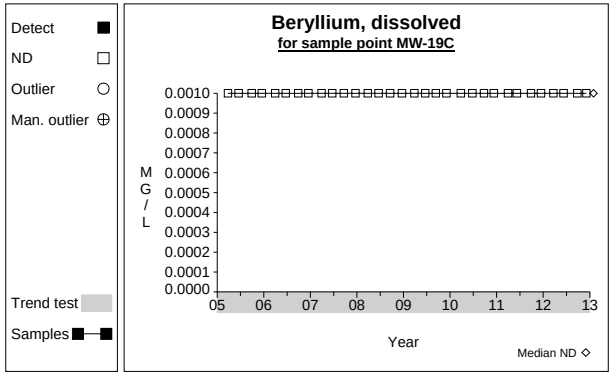


Graph 135

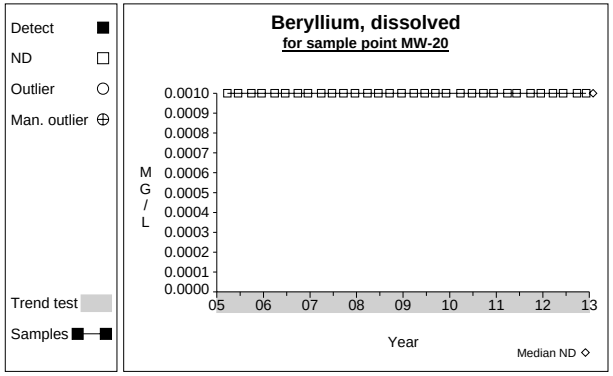
Time Series



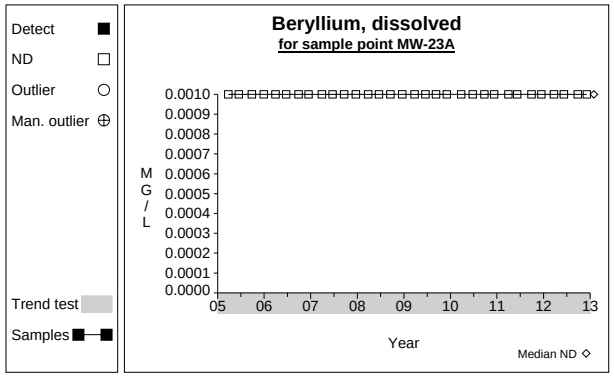
Graph 136



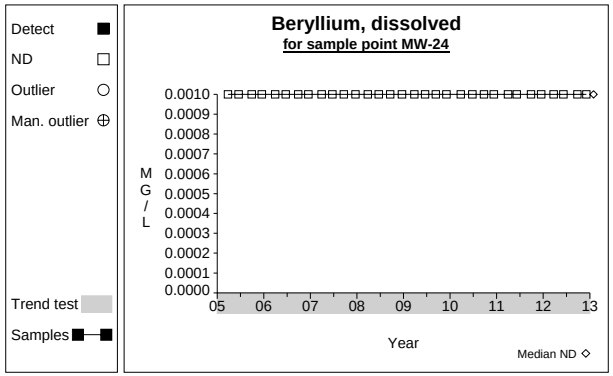
Graph 137



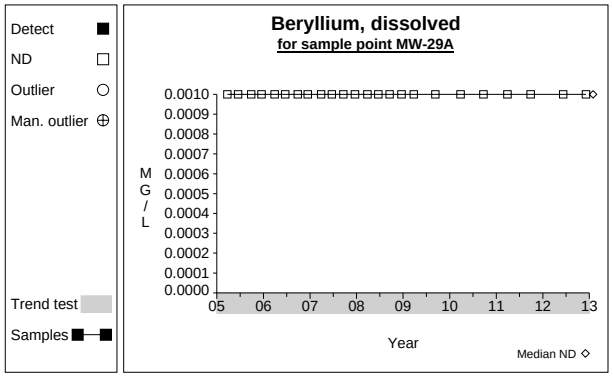
Graph 138



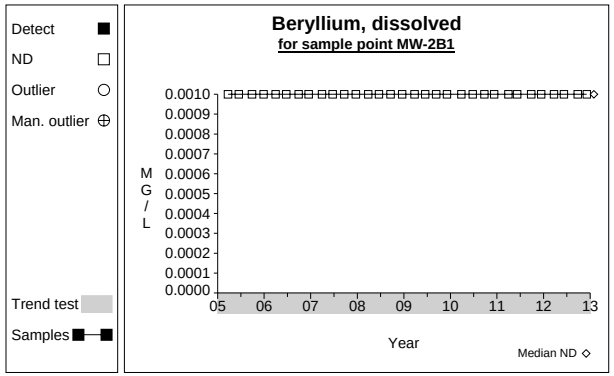
Graph 139



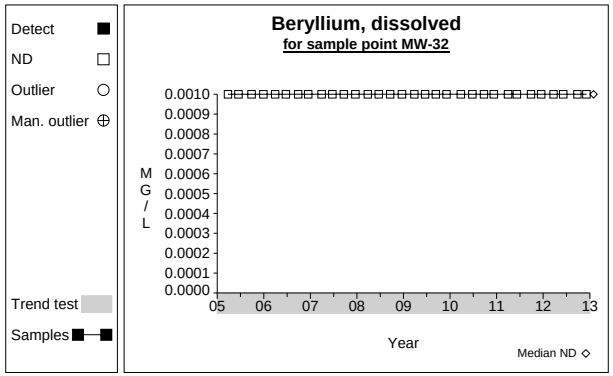
Graph 140



Graph 141



Graph 142



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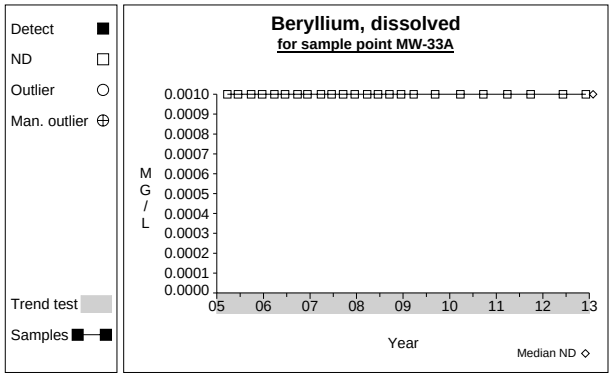
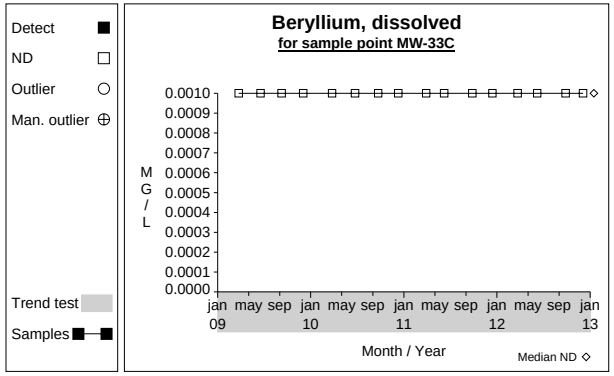
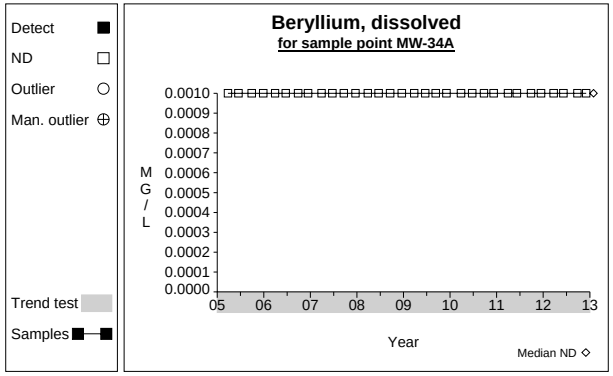


Graph 144

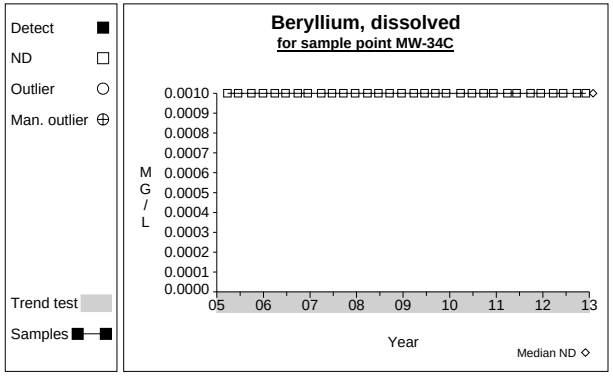
Time Series



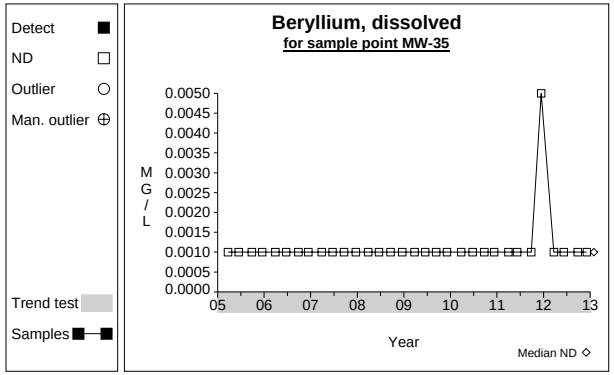
Graph 145



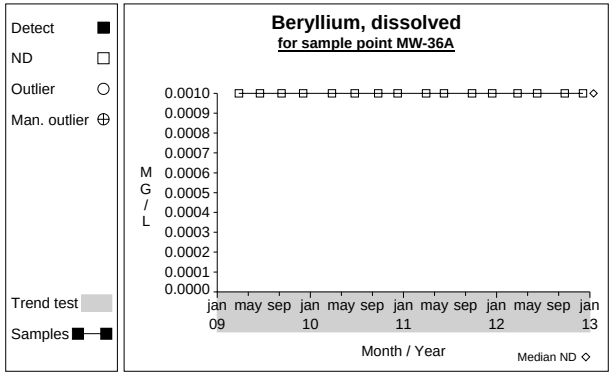
Graph 146



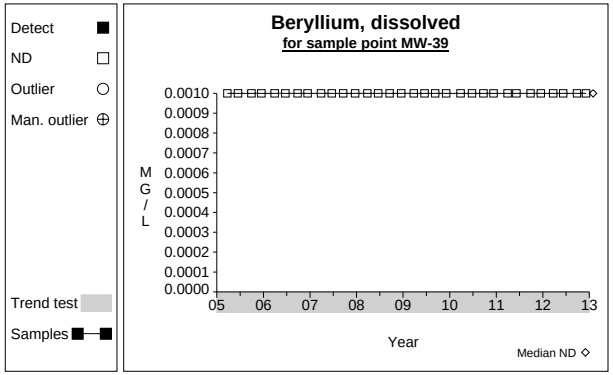
Graph 147



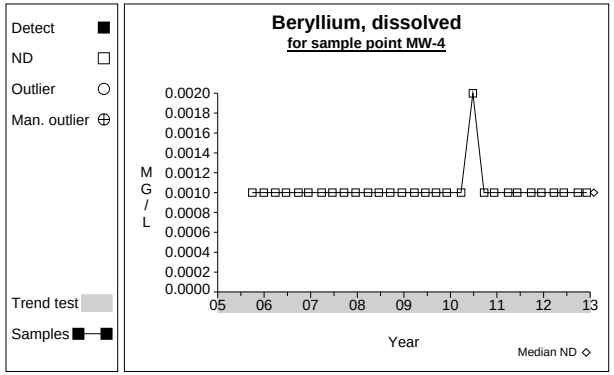
Graph 148



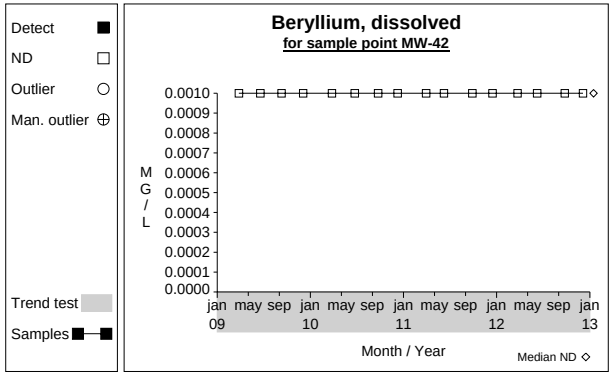
Graph 149



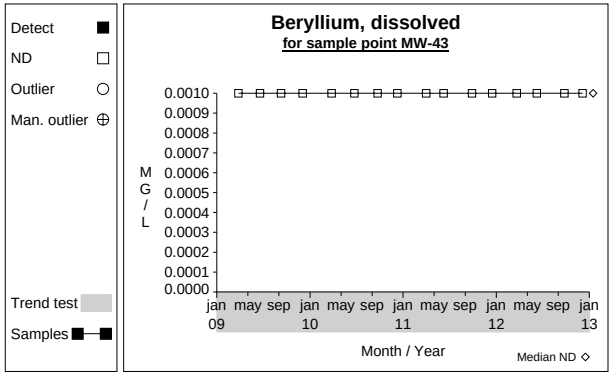
Graph 150



Graph 151

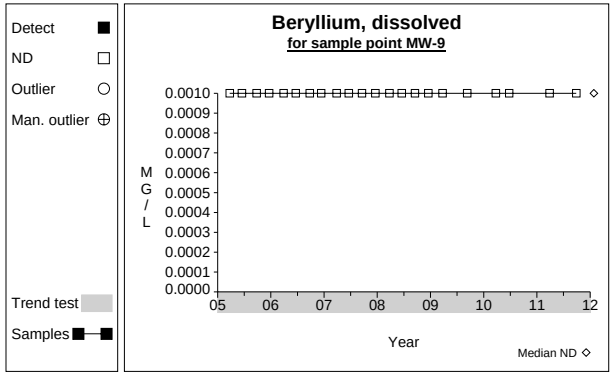


Graph 152

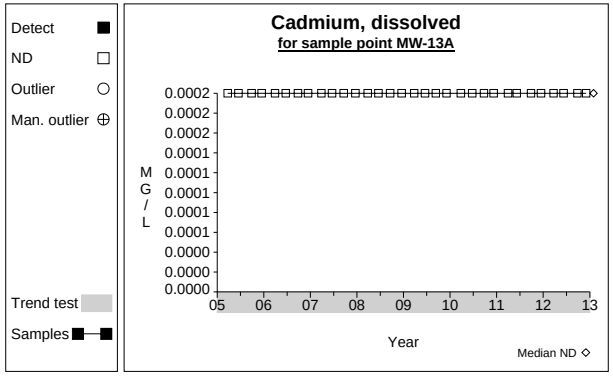


Graph 153

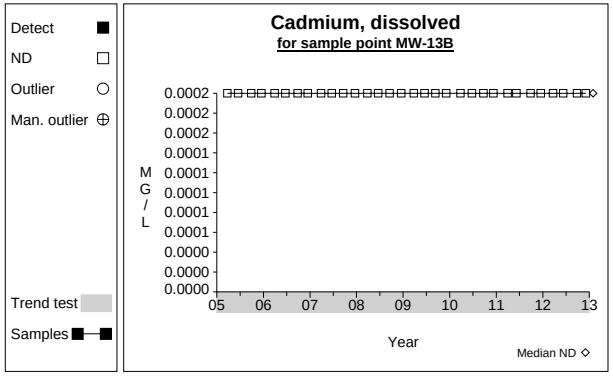
Time Series



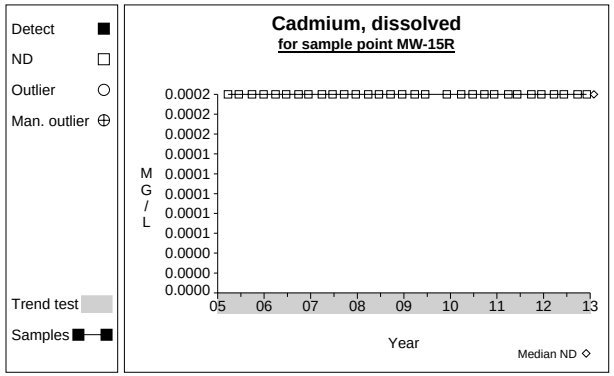
Graph 154



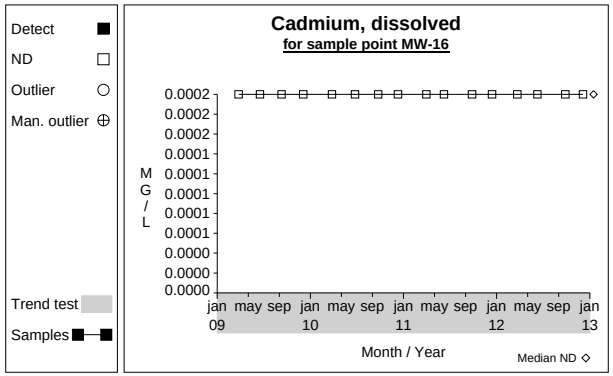
Graph 155



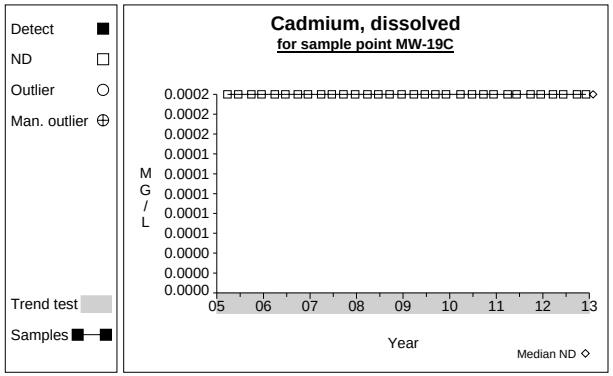
Graph 156



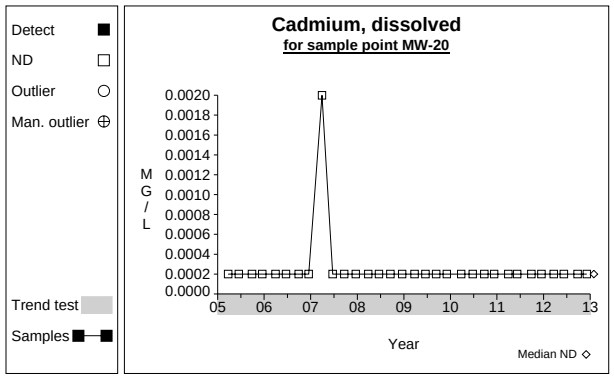
Graph 157



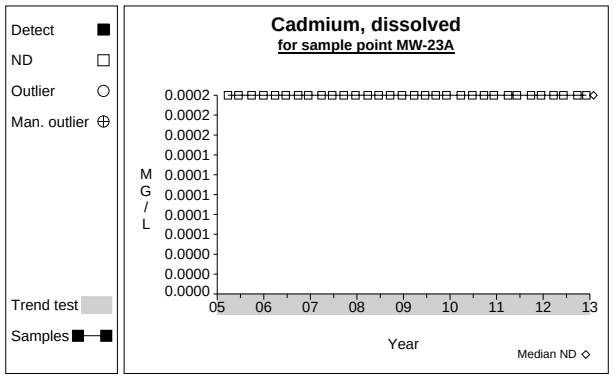
Graph 158



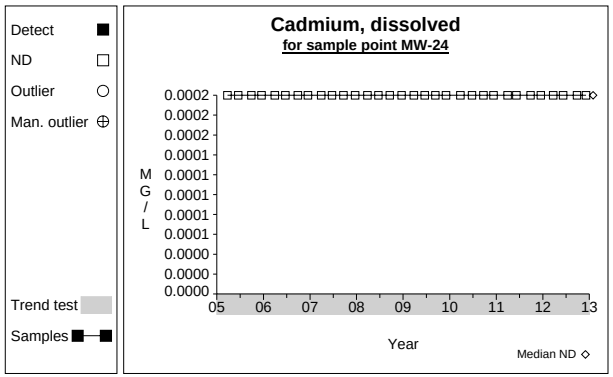
Graph 159



Graph 160

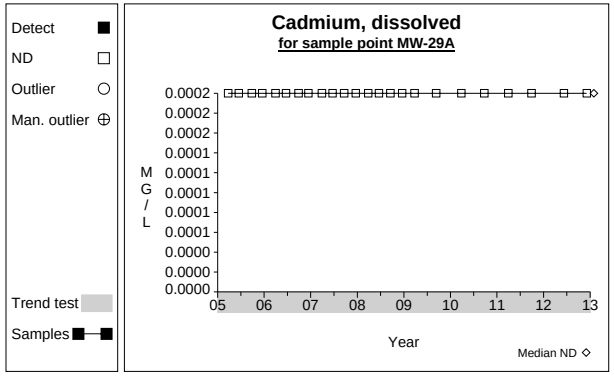


Graph 161

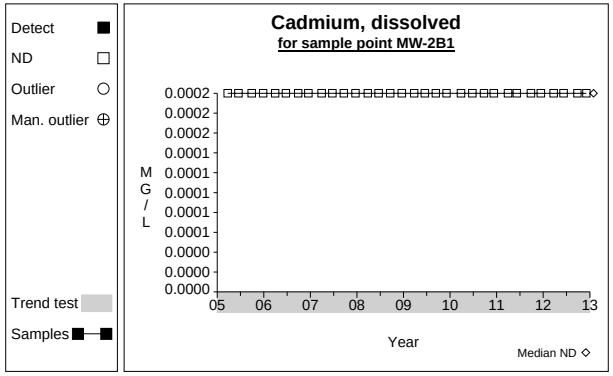


Graph 162

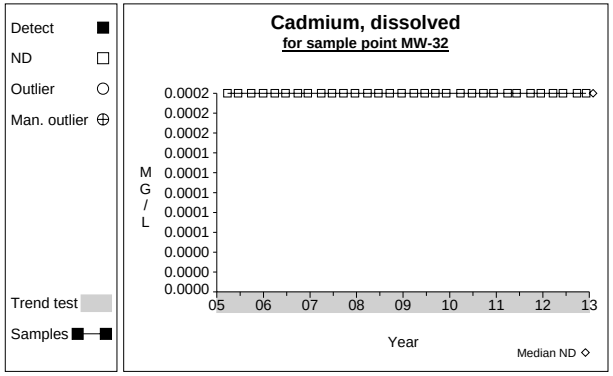
Time Series



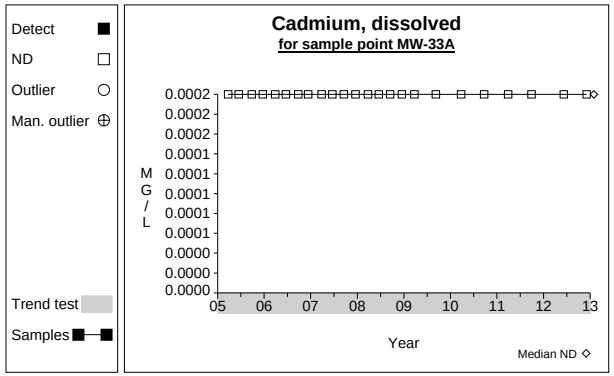
Graph 163



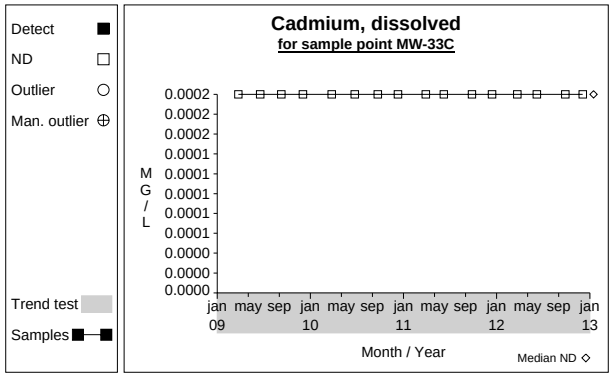
Graph 164



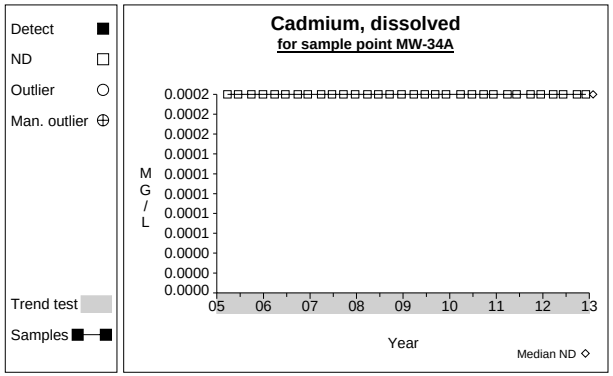
Graph 165



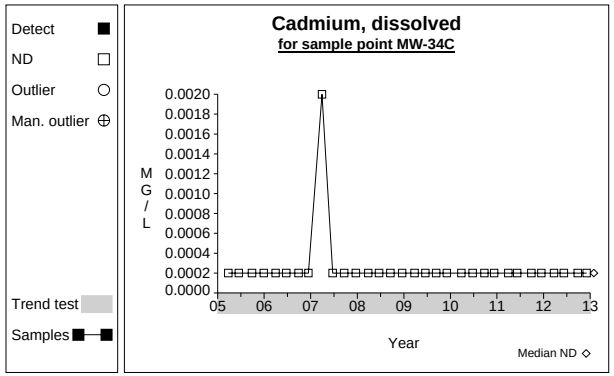
Graph 166



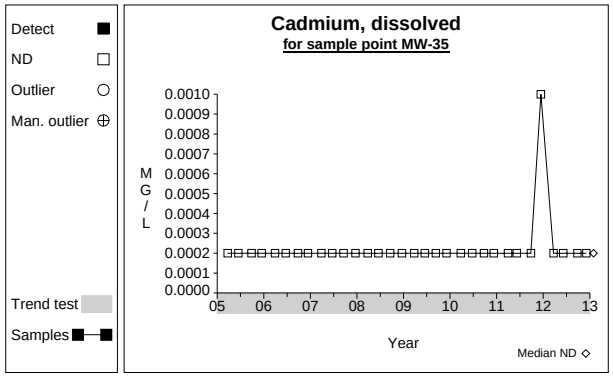
Graph 167



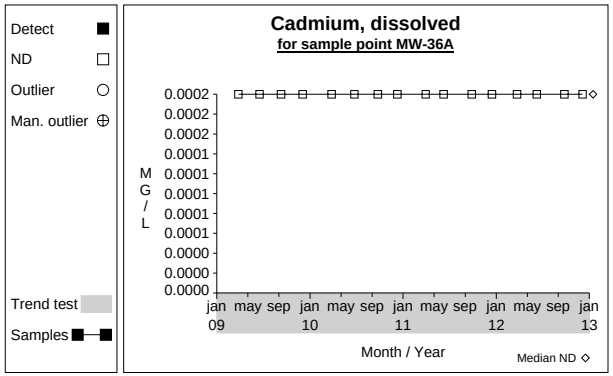
Graph 168



Graph 169

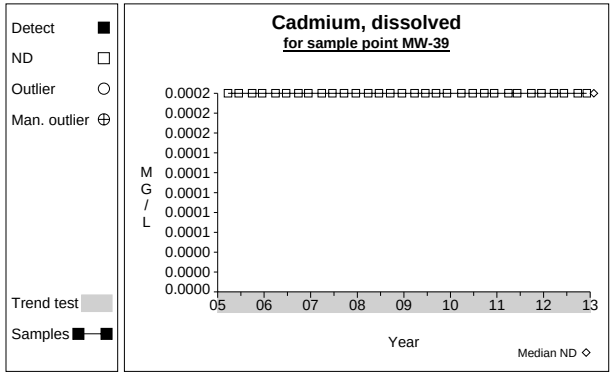


Graph 170

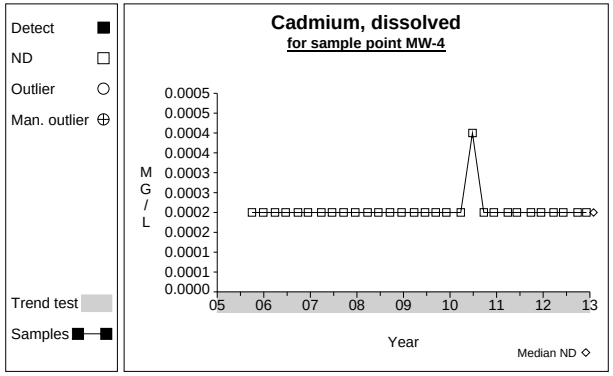


Graph 171

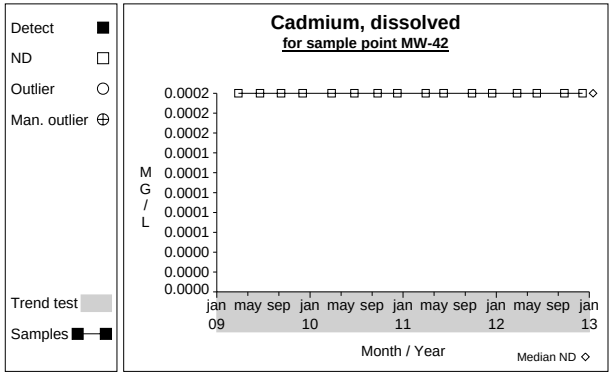
Time Series



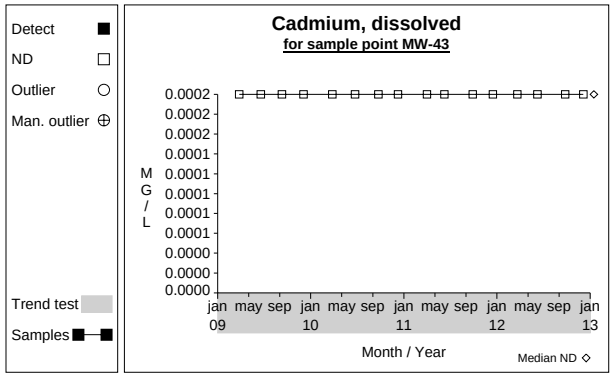
Graph 172



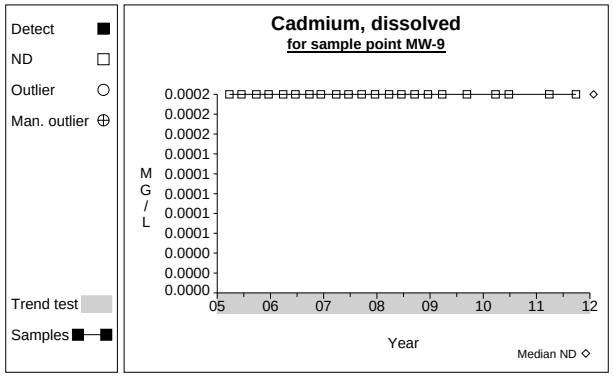
Graph 173



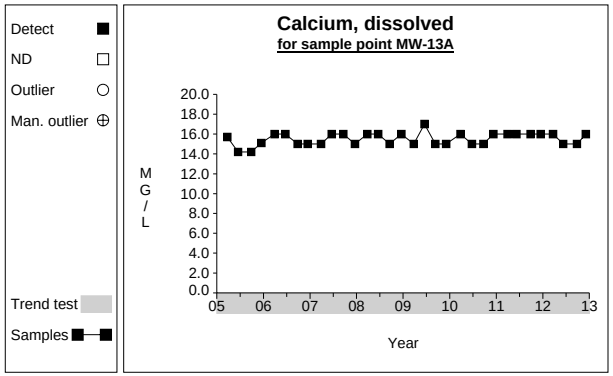
Graph 174



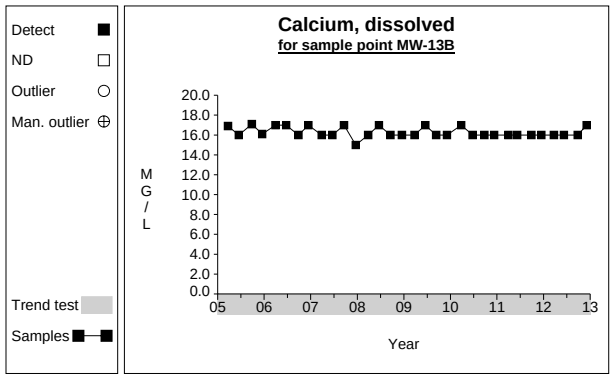
Graph 175



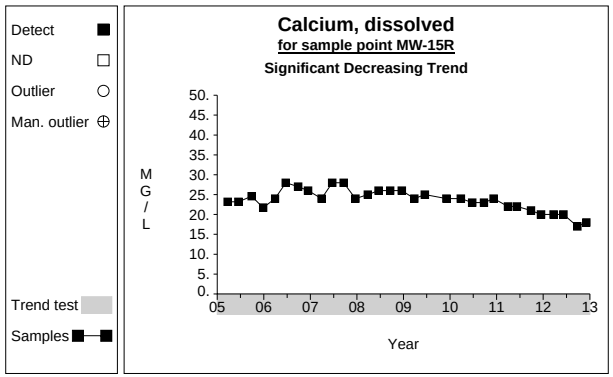
Graph 176



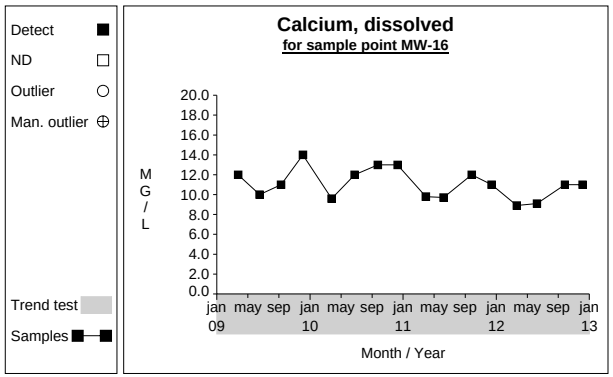
Graph 177



Graph 178

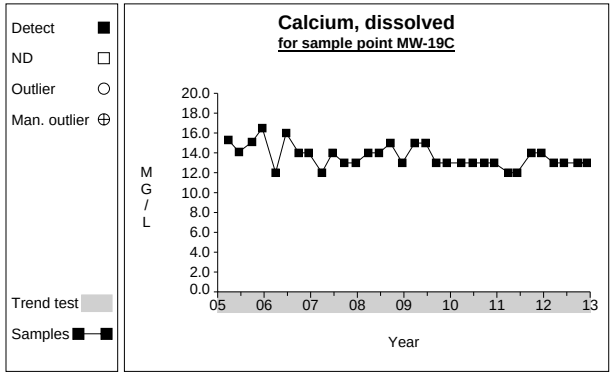


Graph 179

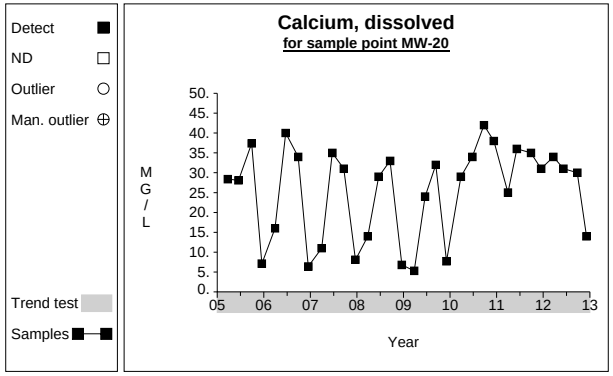


Graph 180

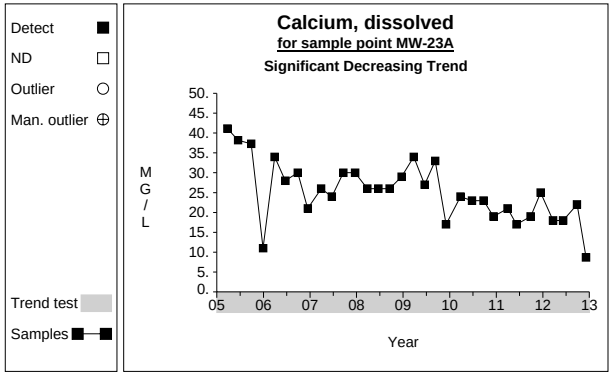
Time Series



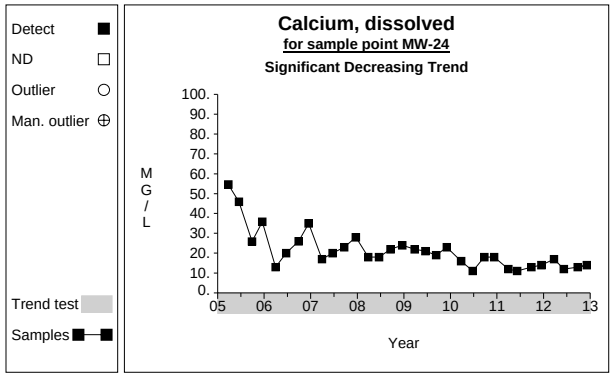
Graph 181



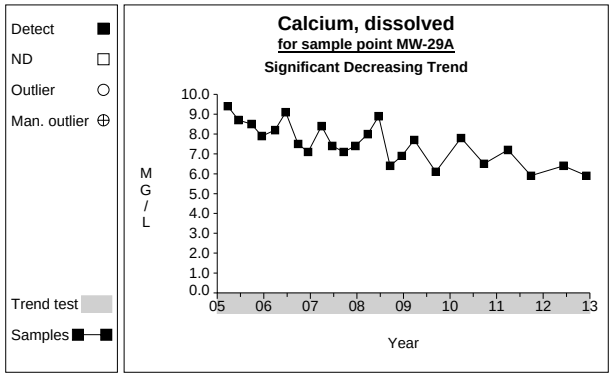
Graph 182



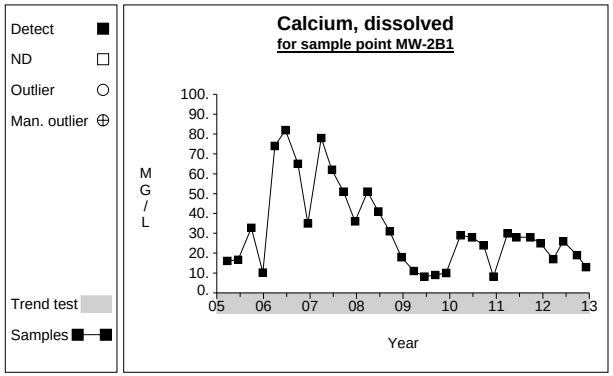
Graph 183



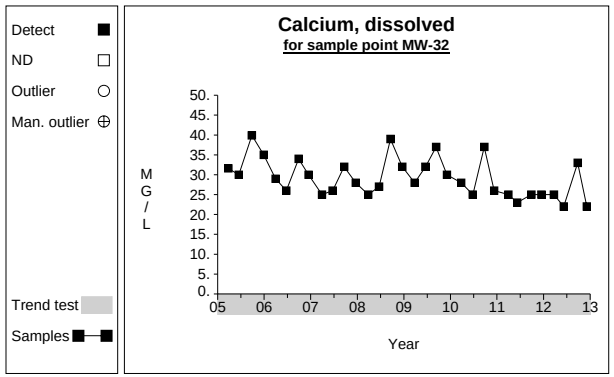
Graph 184



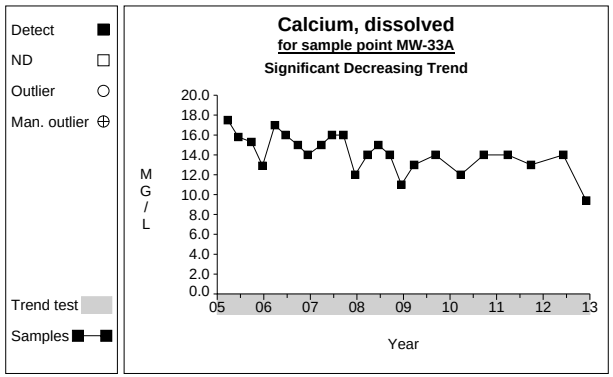
Graph 185



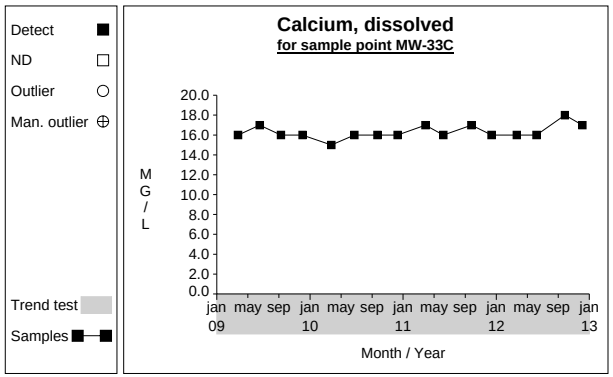
Graph 186



Graph 187

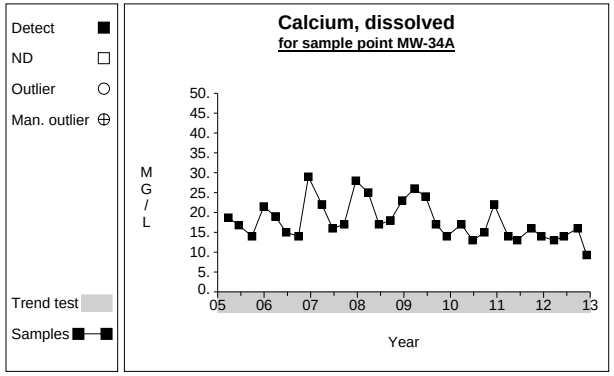


Graph 188

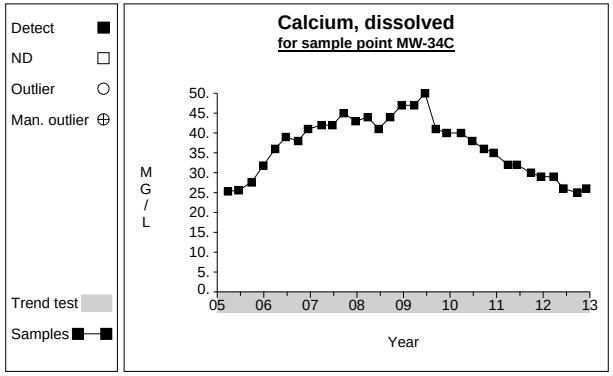


Graph 189

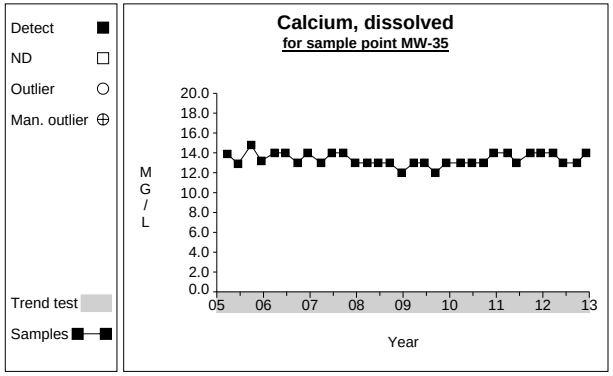
Time Series



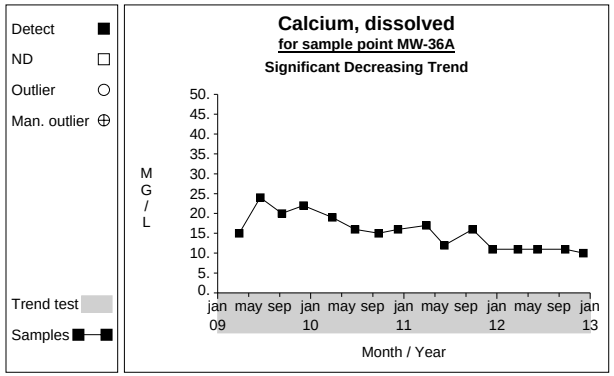
Graph 190



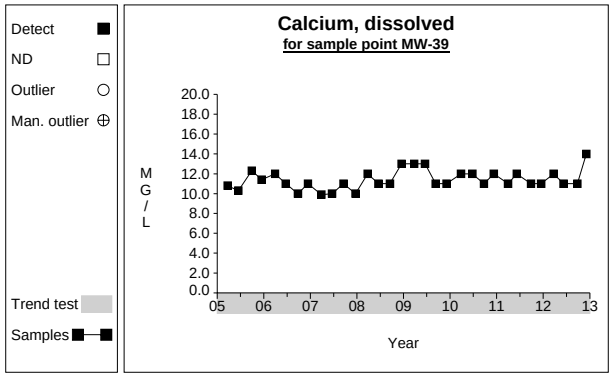
Graph 191



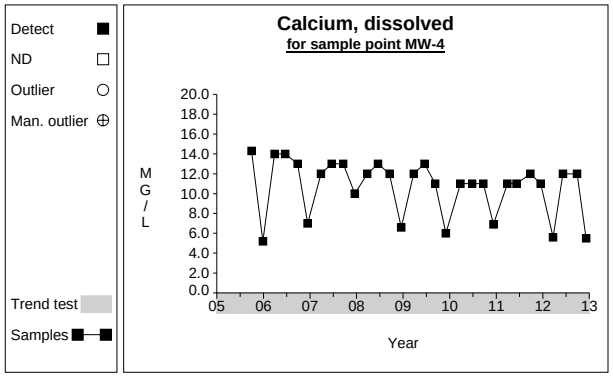
Graph 192



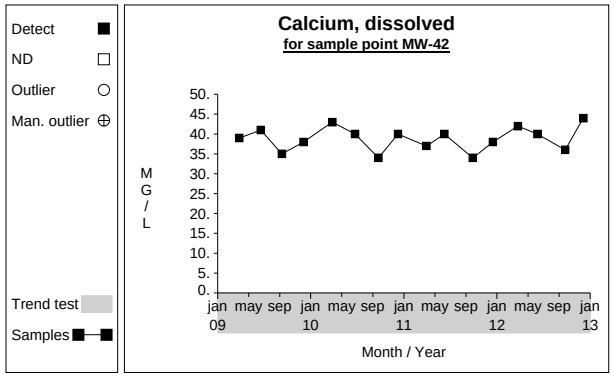
Graph 193



Graph 194



Graph 195



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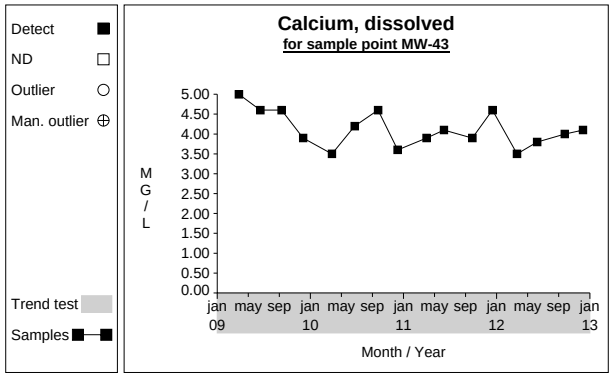

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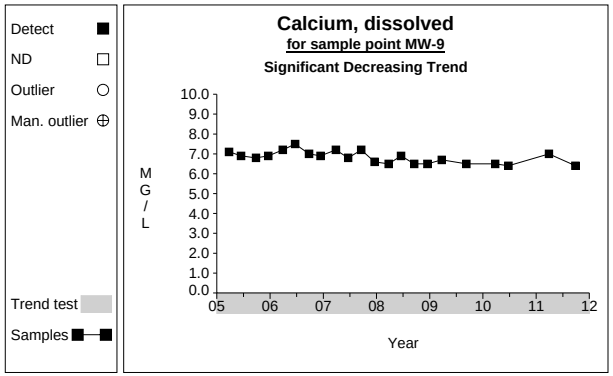
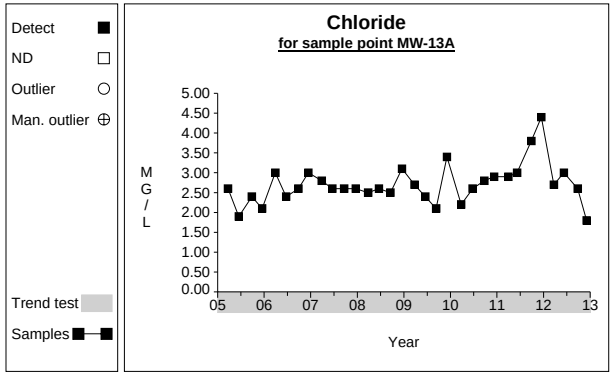
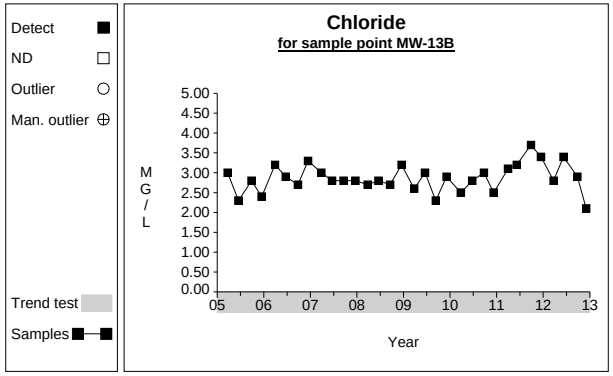


Graph 198

Time Series



Graph 199



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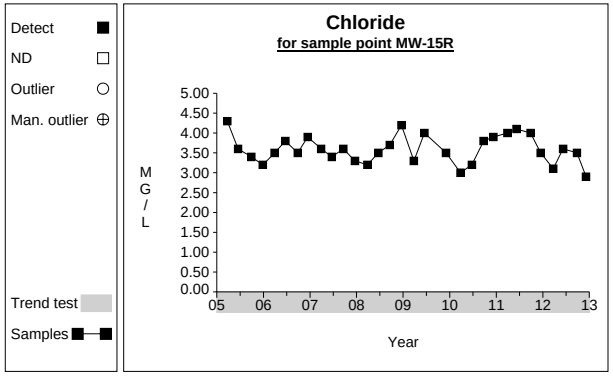

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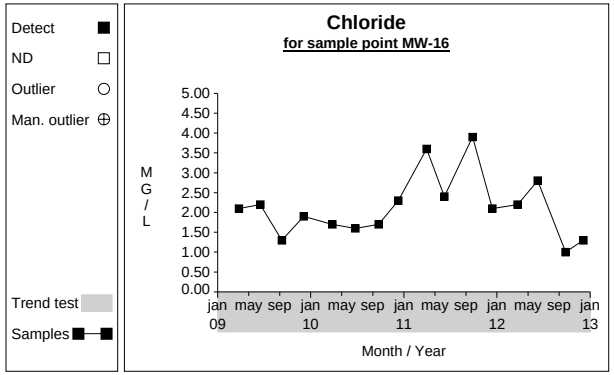
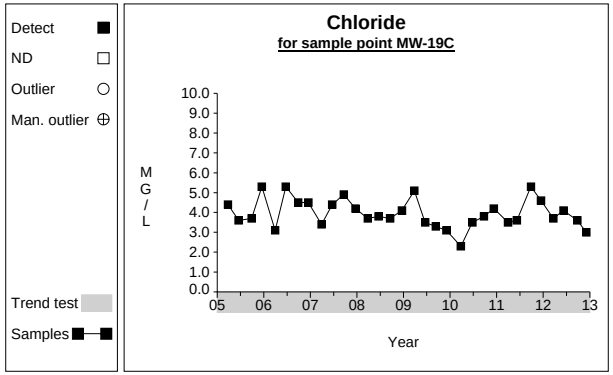
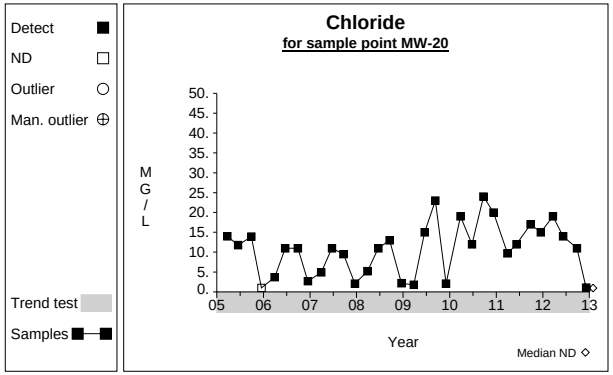


Graph 202



Graph 203



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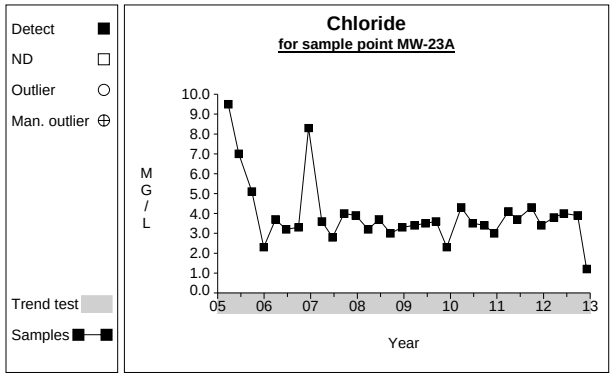

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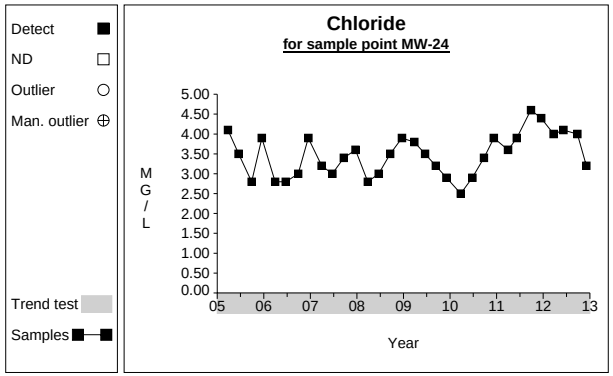
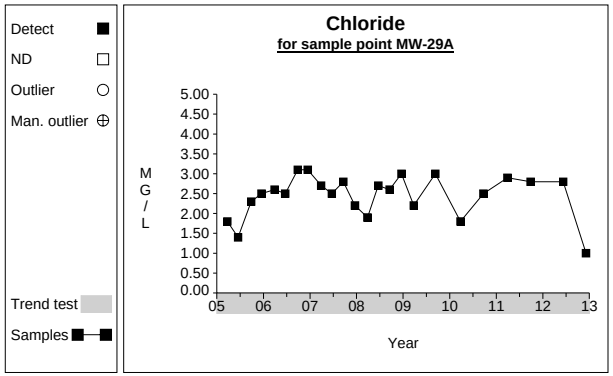
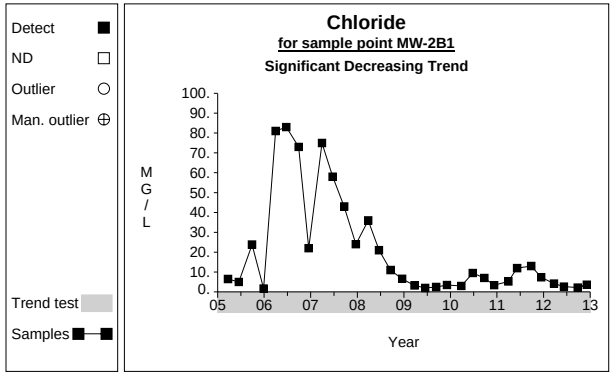


Graph 206

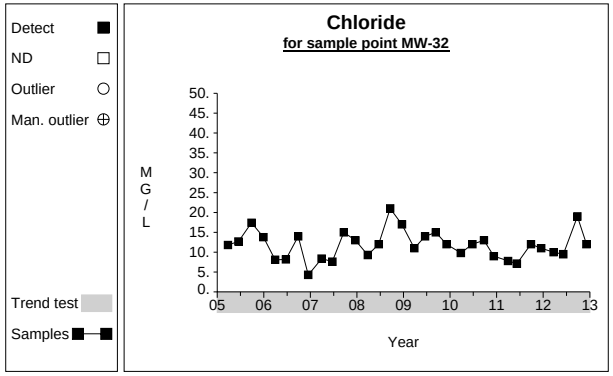


Graph 207

Time Series



Graph 208



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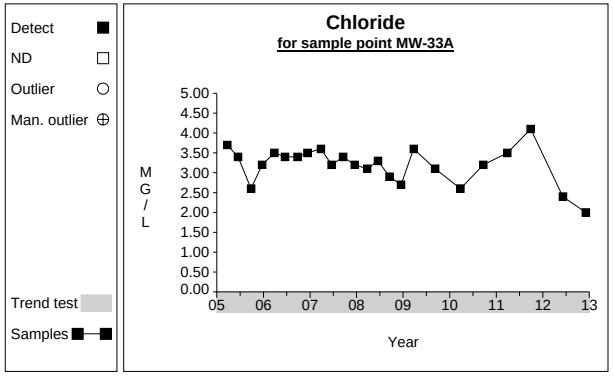

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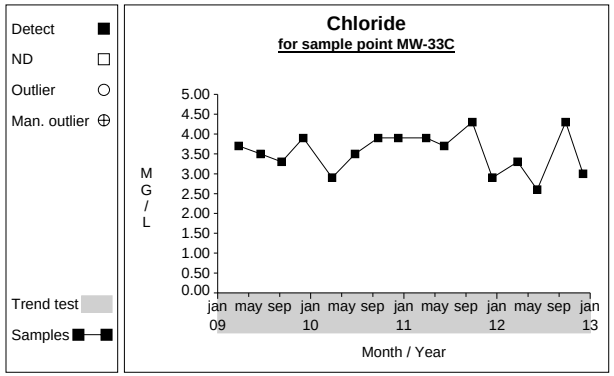

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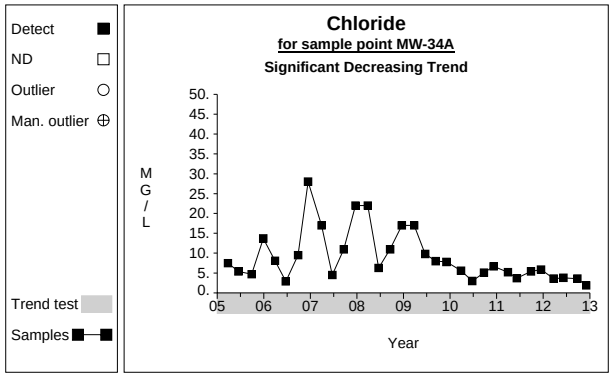
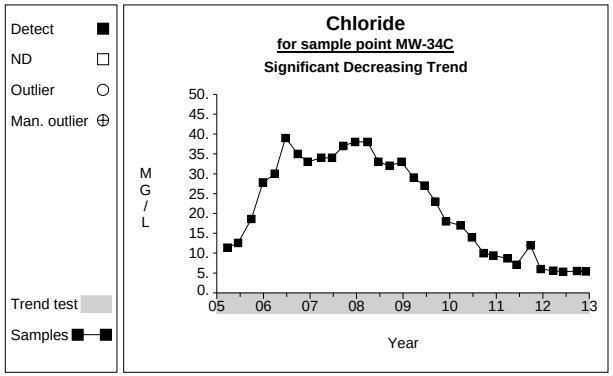


Graph 212



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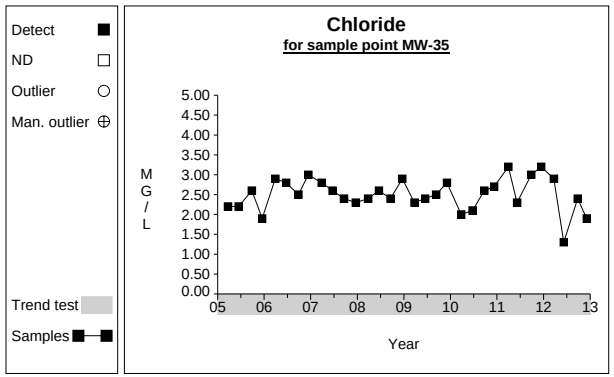

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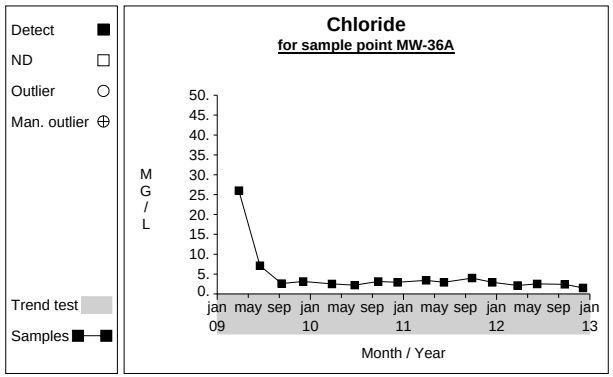

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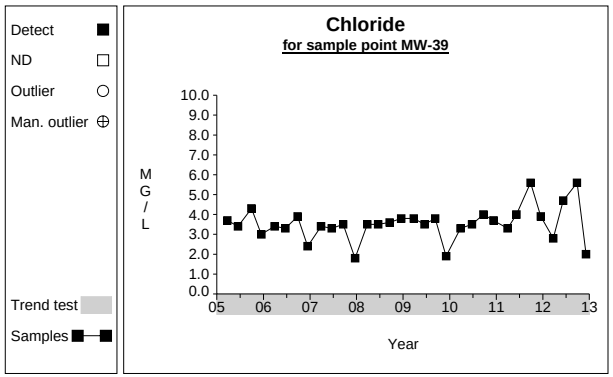
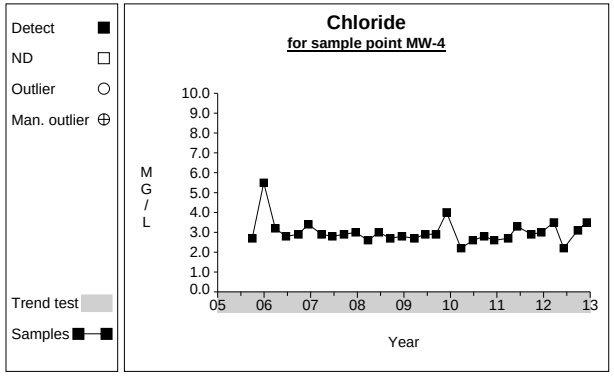
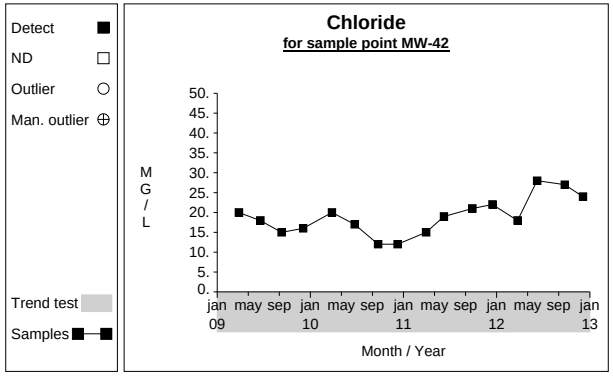


Graph 216

Time Series



Graph 217



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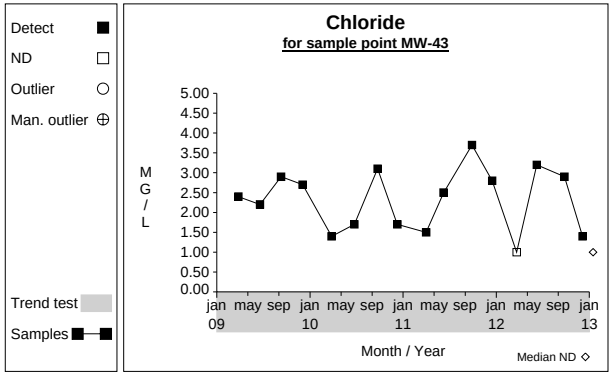
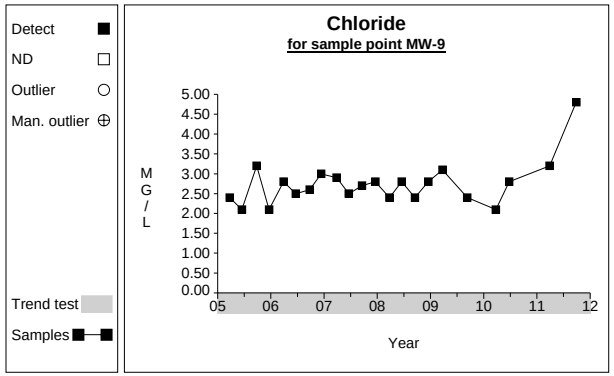


Graph 219



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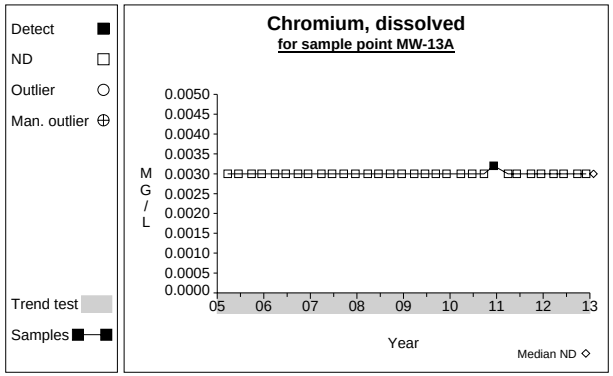

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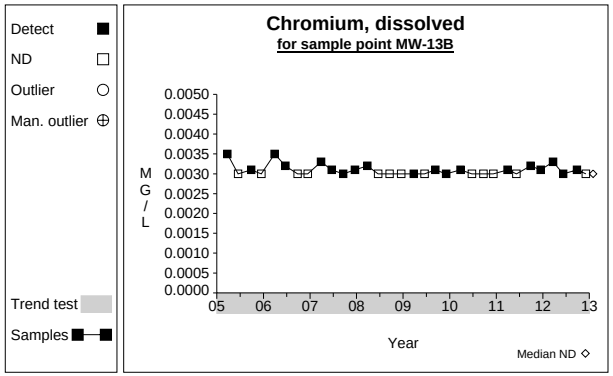
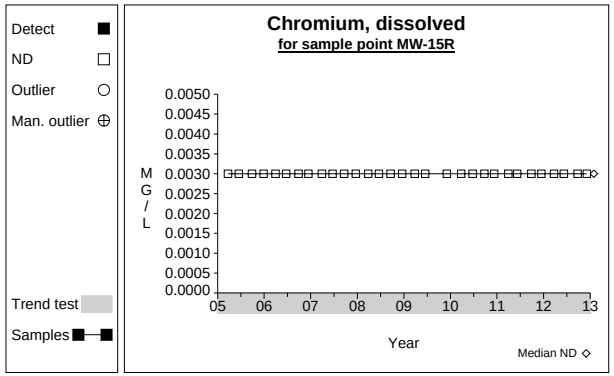
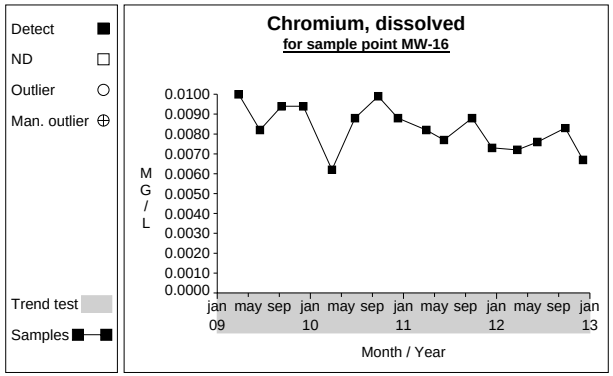


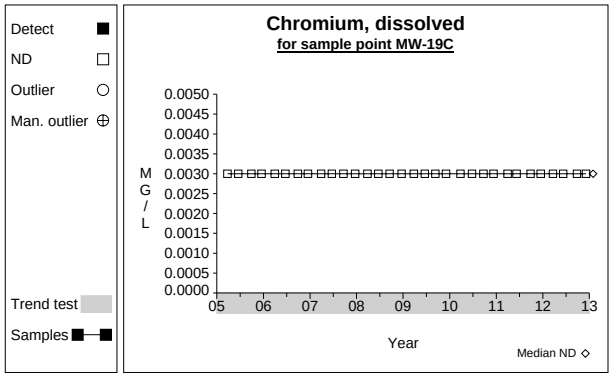
Graph 222



Graph 223

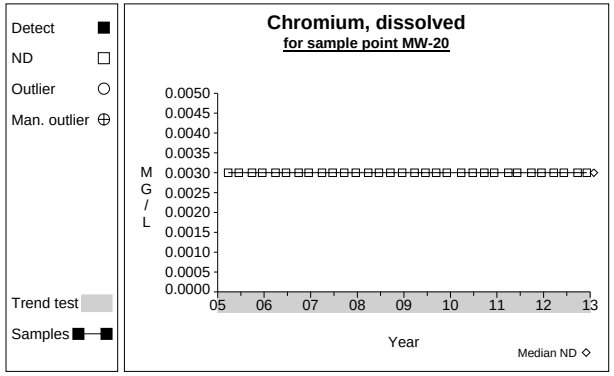


Graph 224

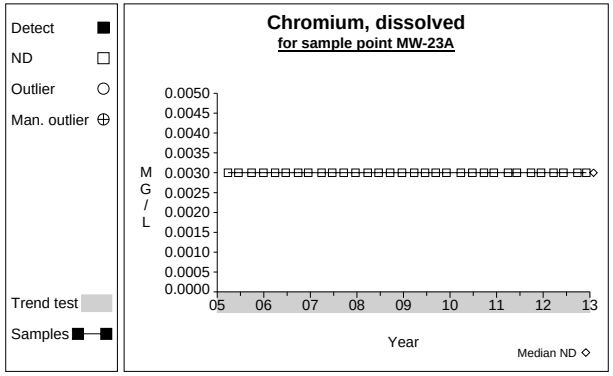


Graph 225

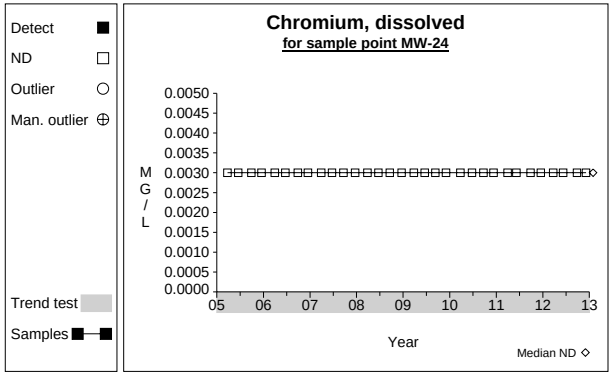
Time Series



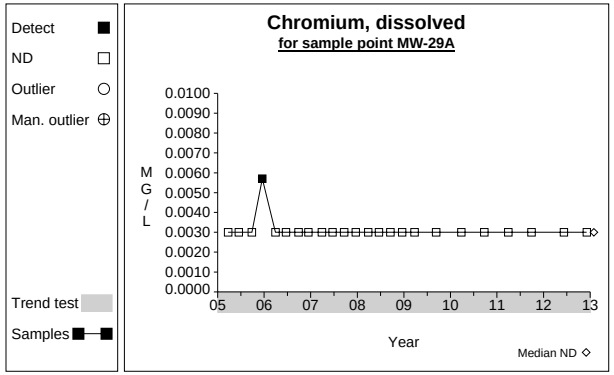
Graph 226



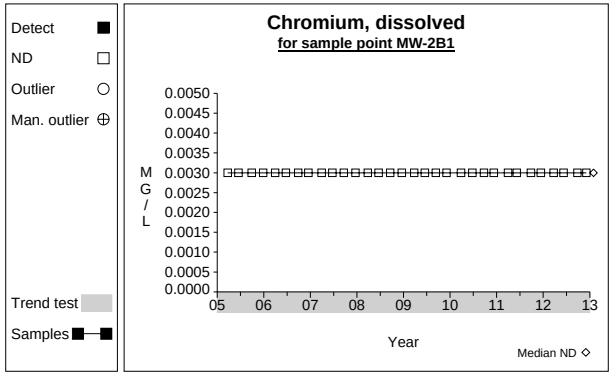
Graph 227



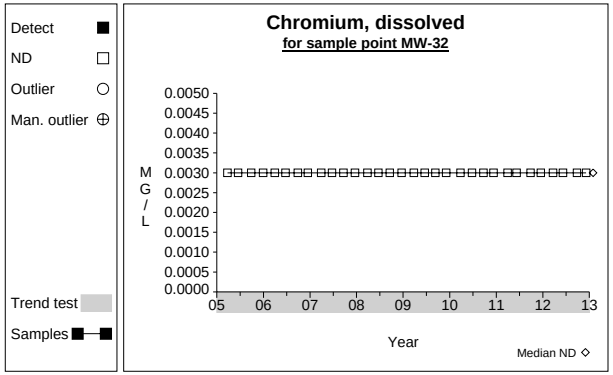
Graph 228



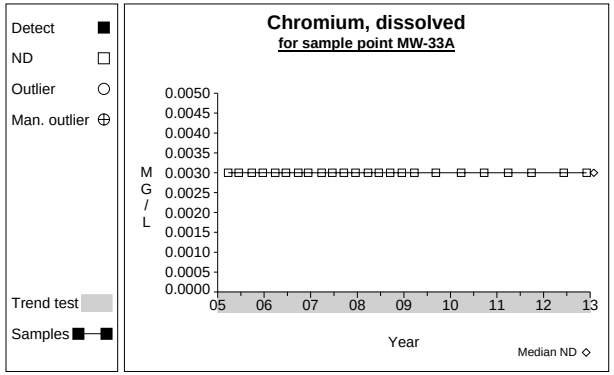
Graph 229



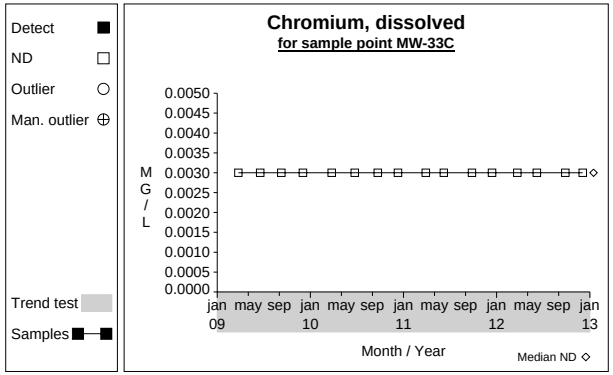
Graph 230



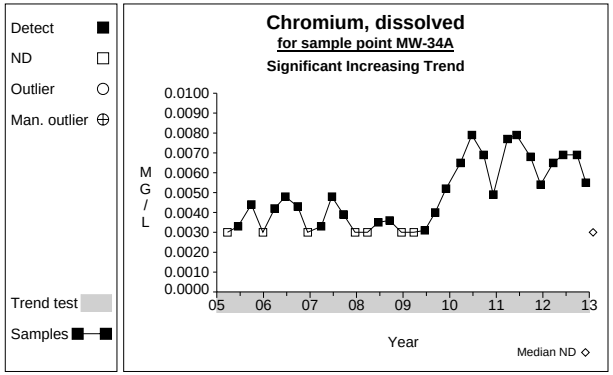
Graph 231



Graph 232

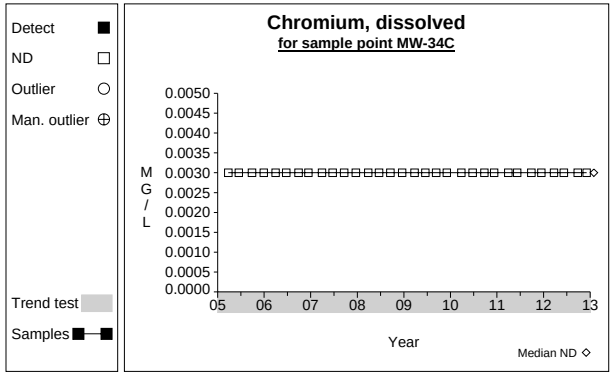


Graph 233

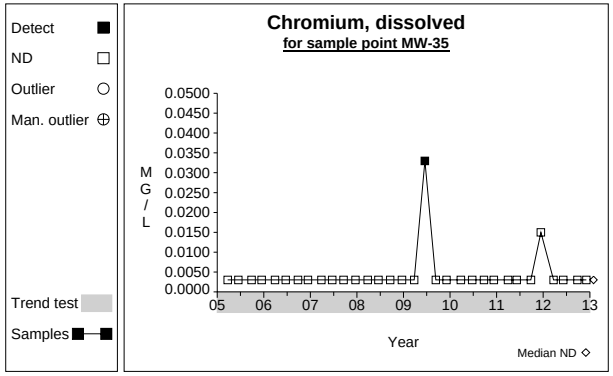


Graph 234

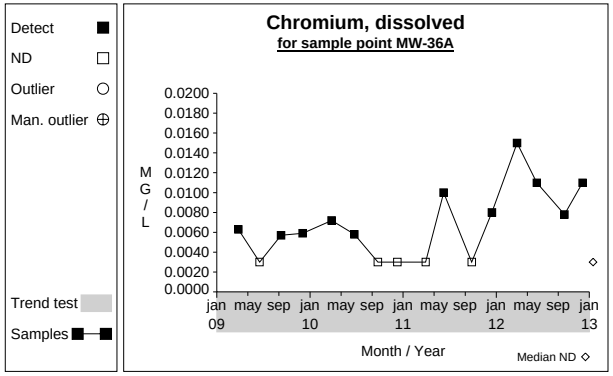
Time Series



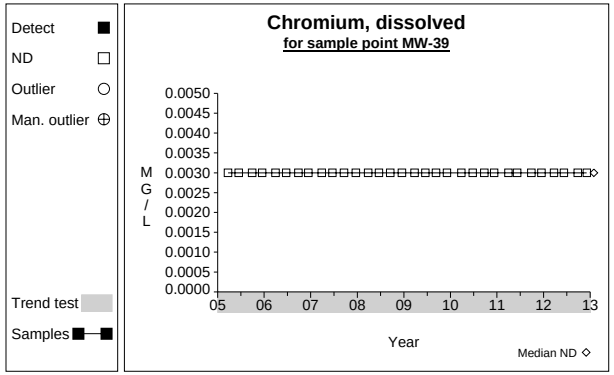
Graph 235



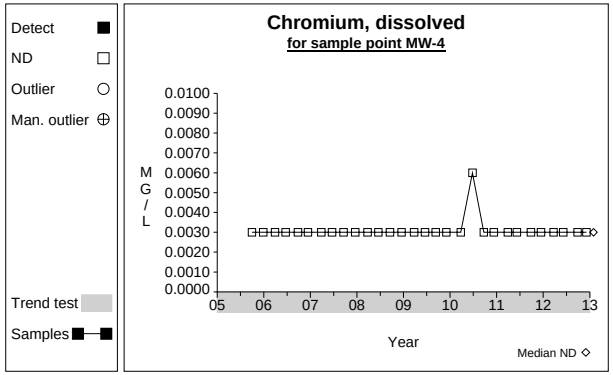
Graph 236



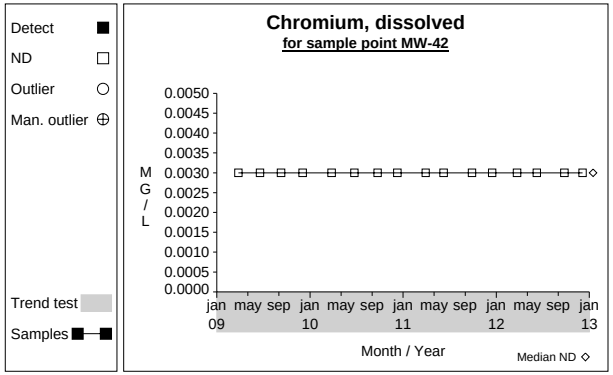
Graph 237



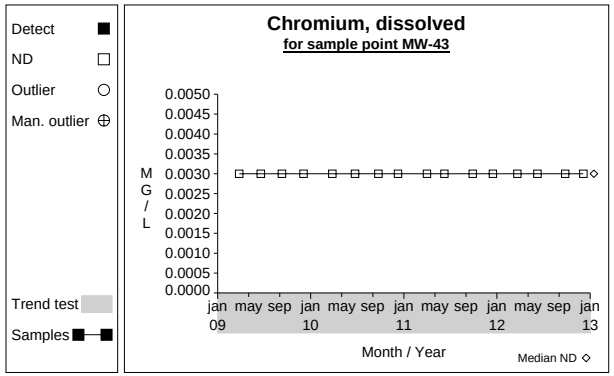
Graph 238



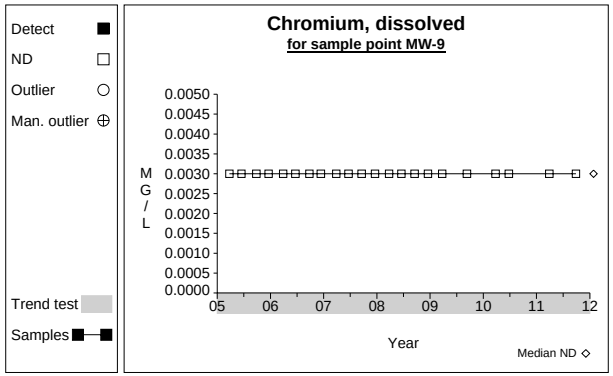
Graph 239



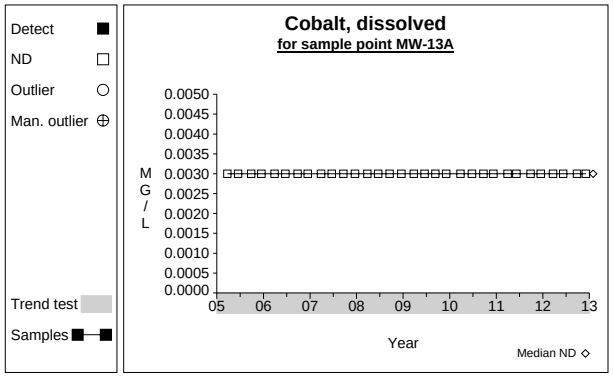
Graph 240



Graph 241

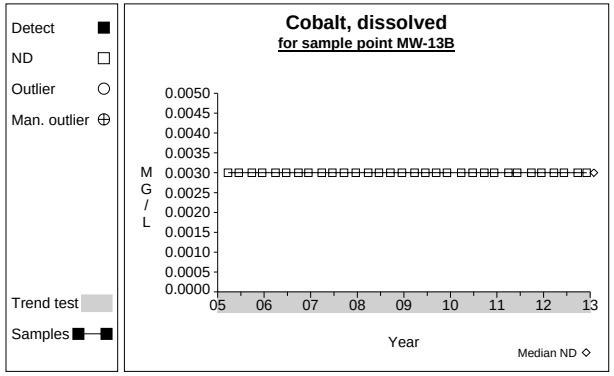


Graph 242

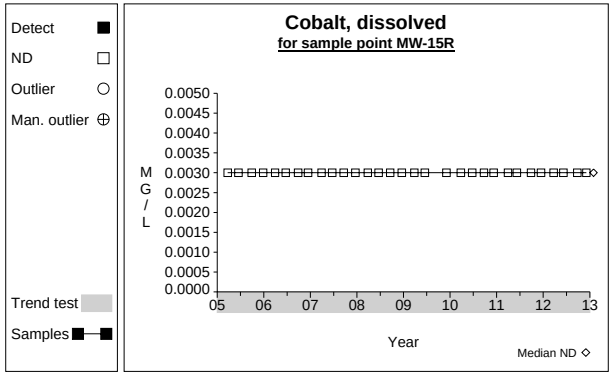


Graph 243

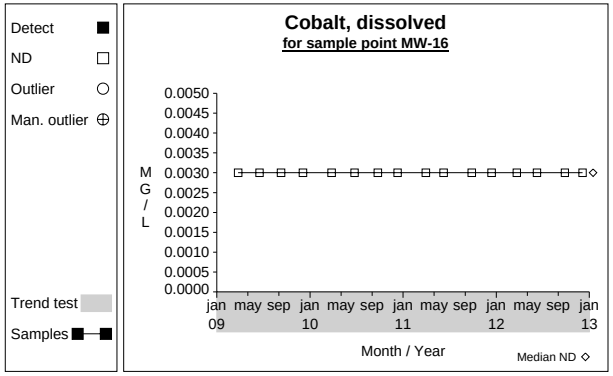
Time Series



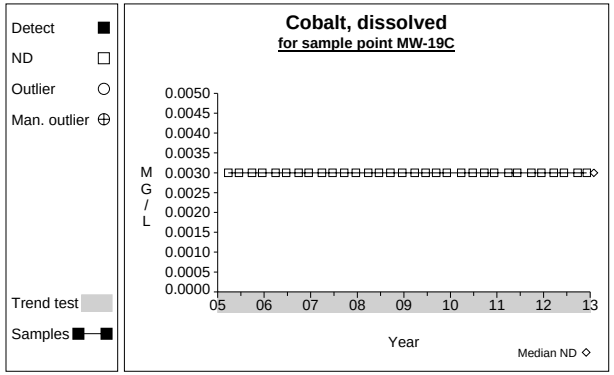
Graph 244



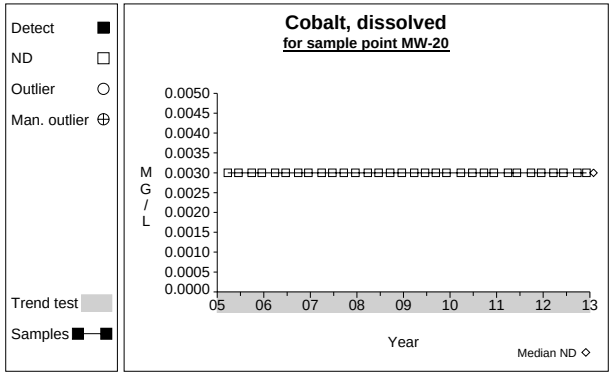
Graph 245



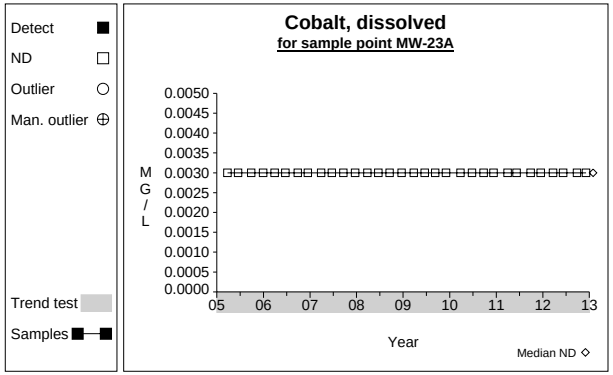
Graph 246



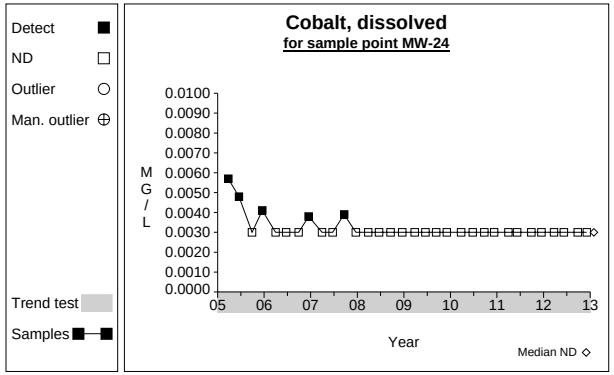
Graph 247



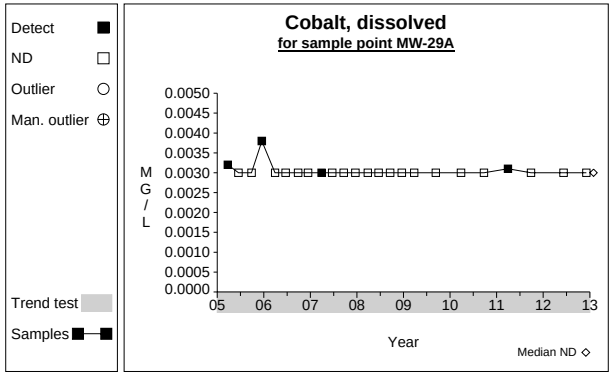
Graph 248



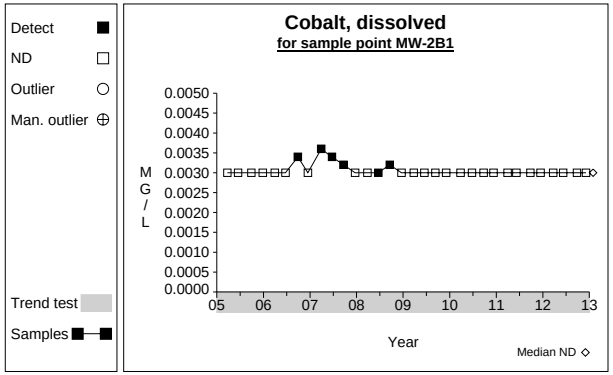
Graph 249



Graph 250

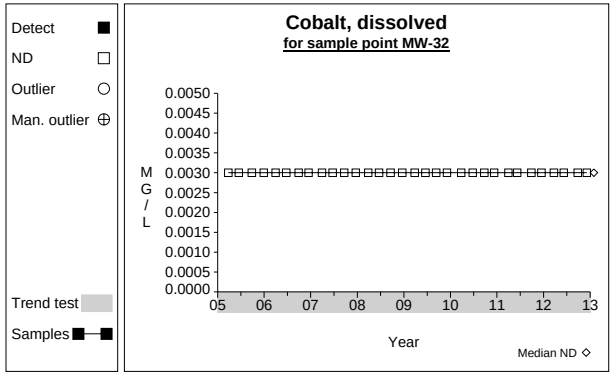


Graph 251

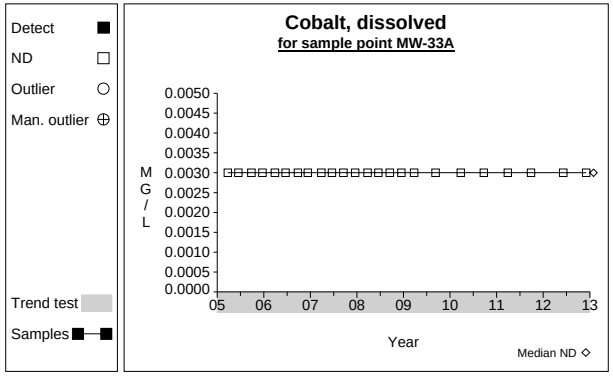


Graph 252

Time Series



Graph 253



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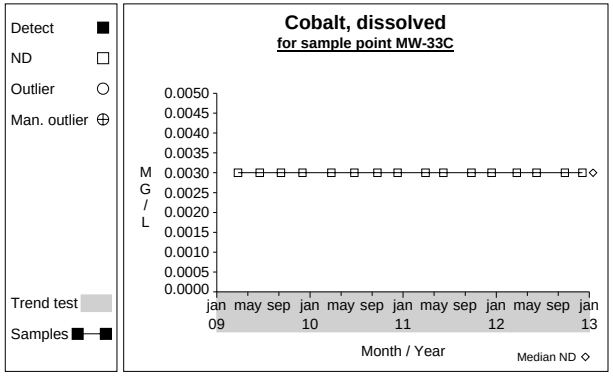
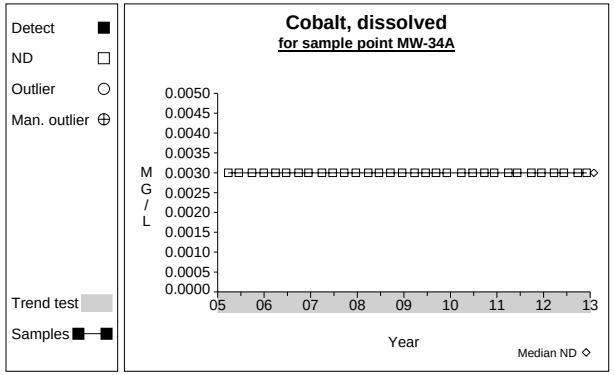
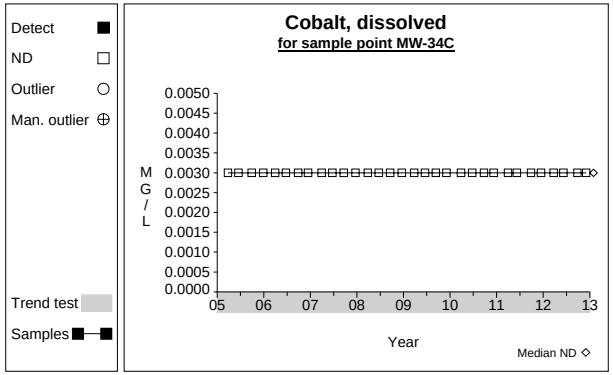


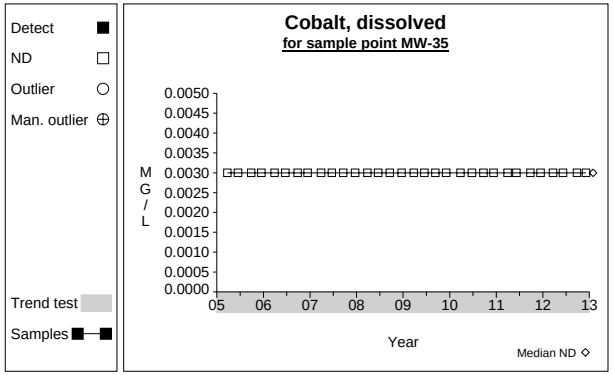
Graph 255



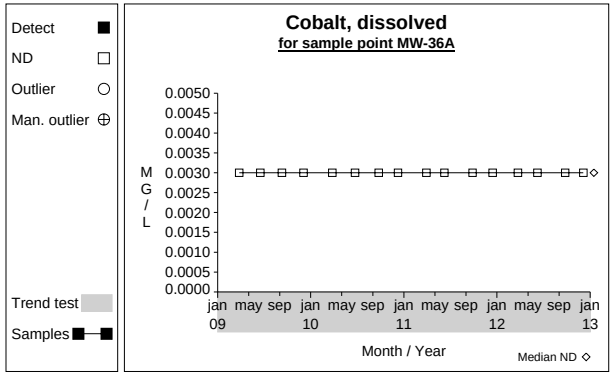
Graph 256



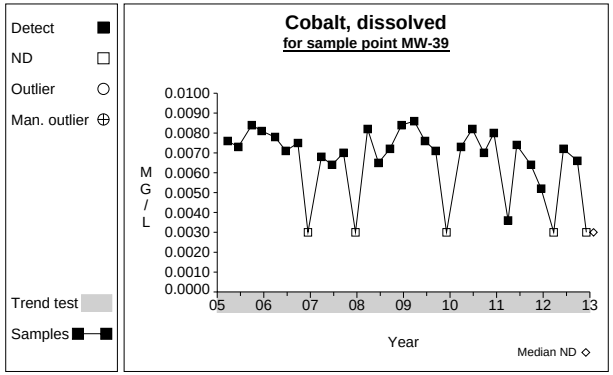
Graph 257



Graph 258



Graph 259



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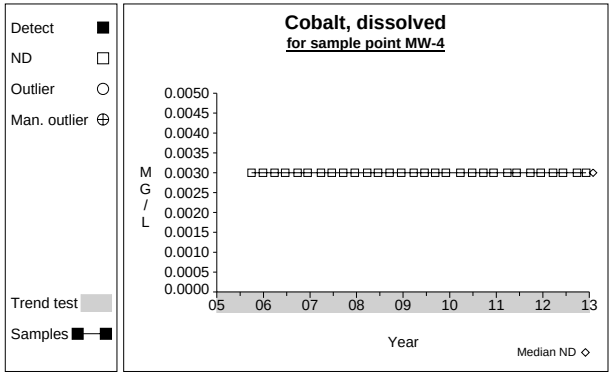
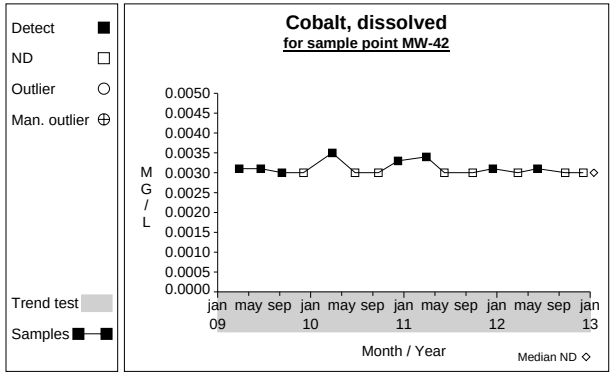
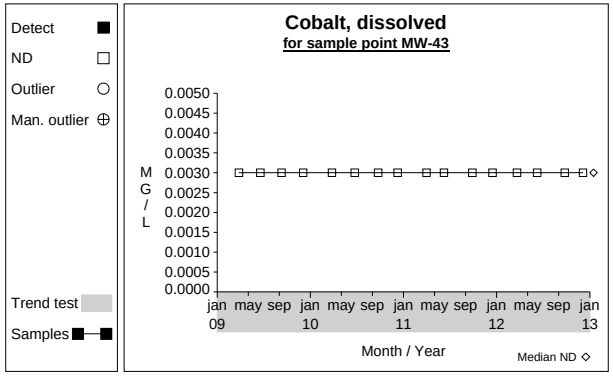


Graph 261

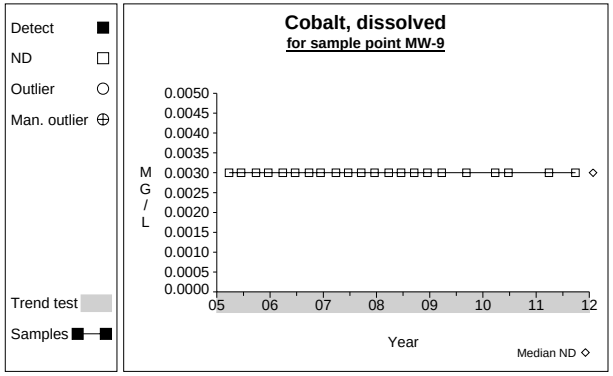
Time Series



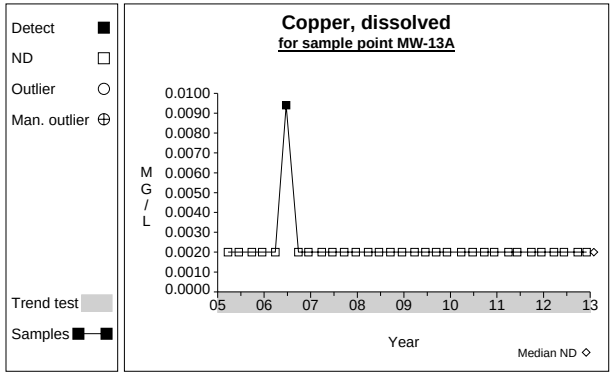
Graph 262



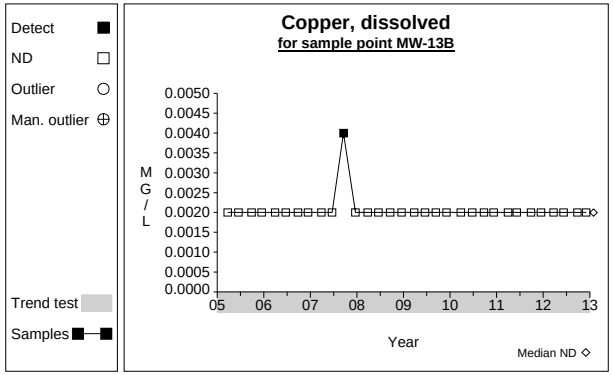
Graph 263



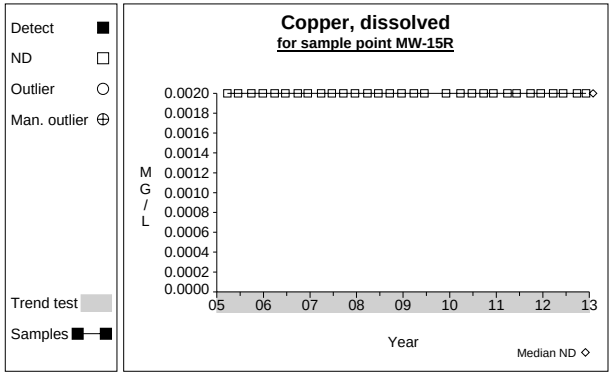
Graph 264



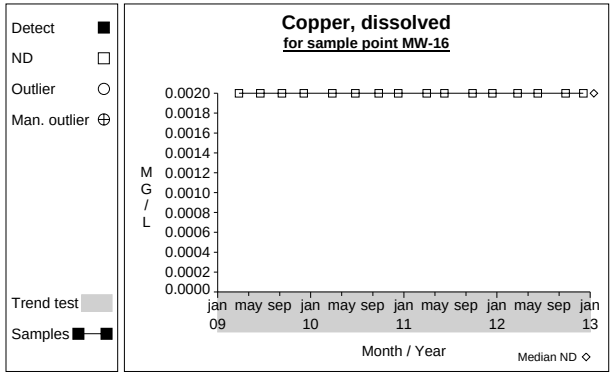
Graph 265



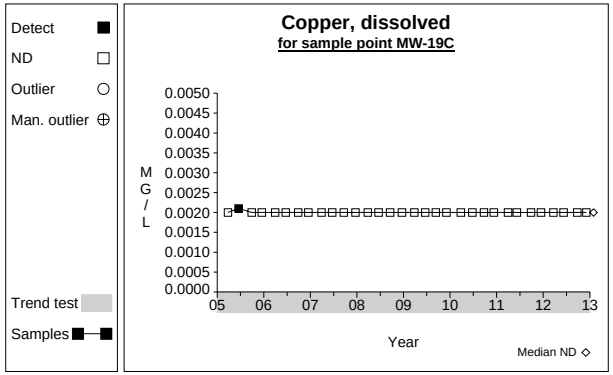
Graph 266



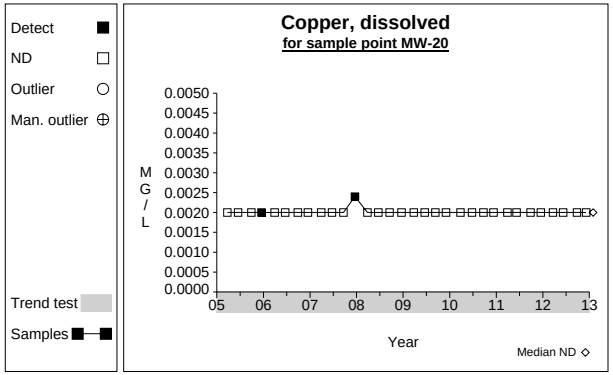
Graph 267



Graph 268

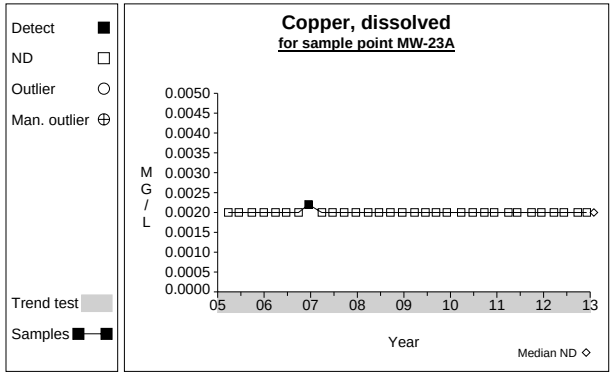


Graph 269

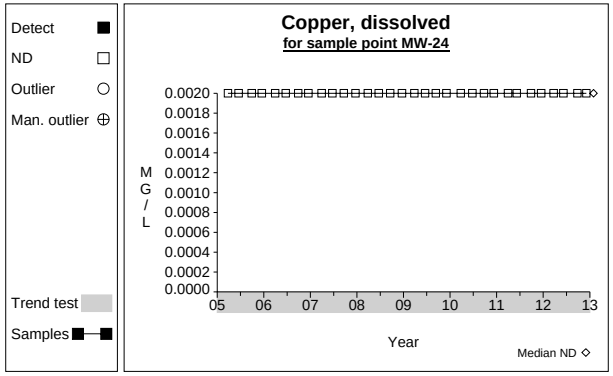


Graph 270

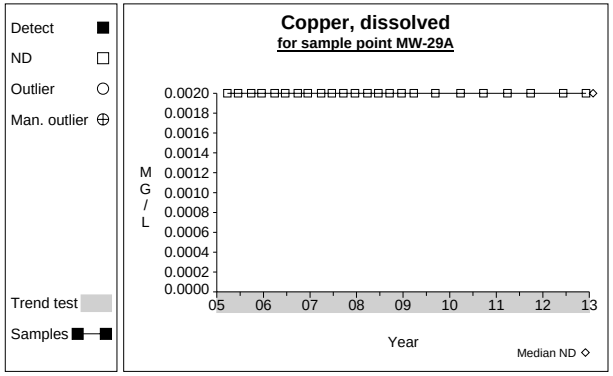
Time Series



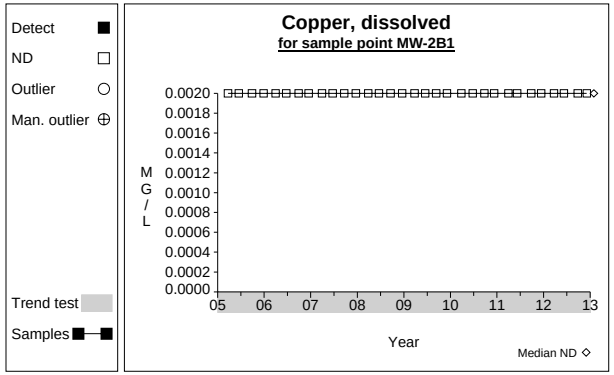
Graph 271



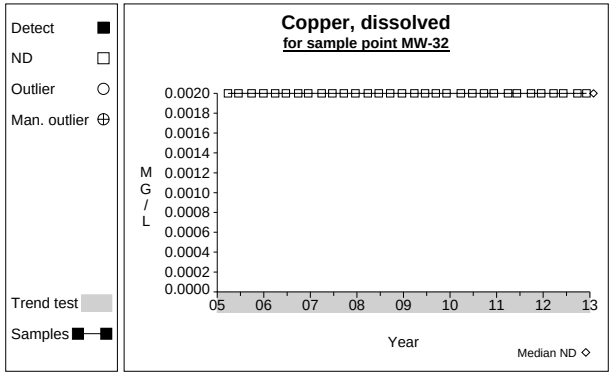
Graph 272



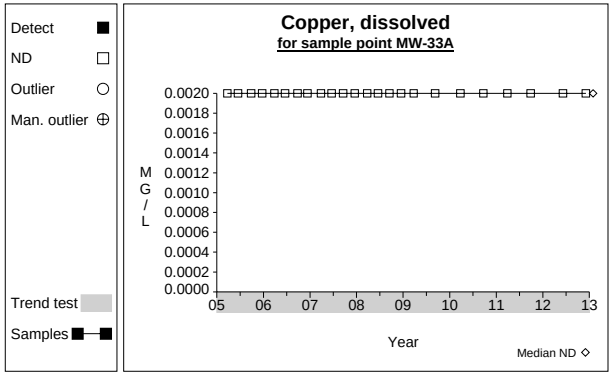
Graph 273



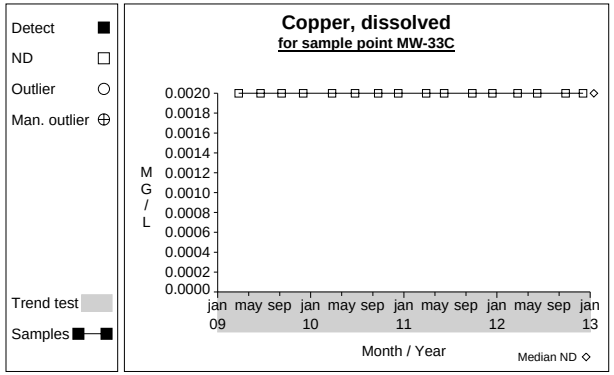
Graph 274



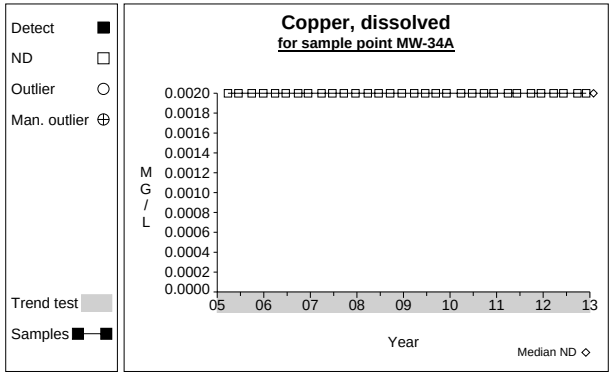
Graph 275



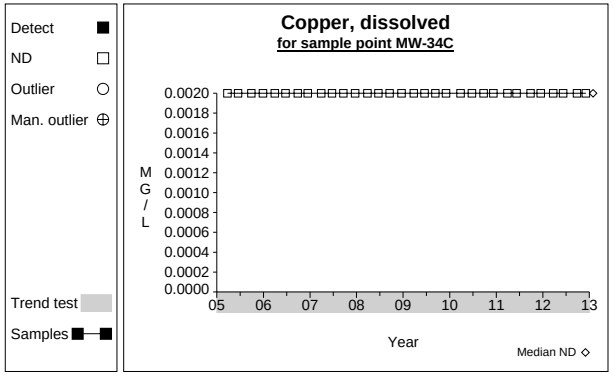
Graph 276



Graph 277

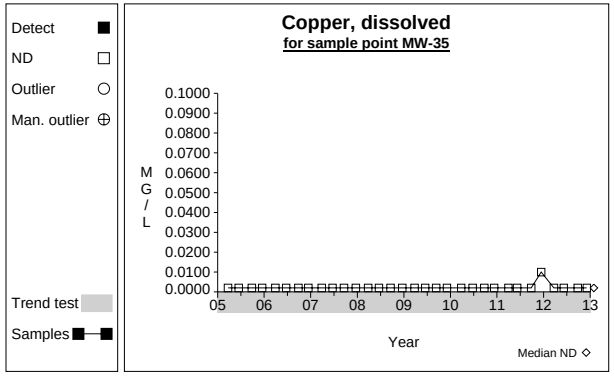


Graph 278



Graph 279

Time Series



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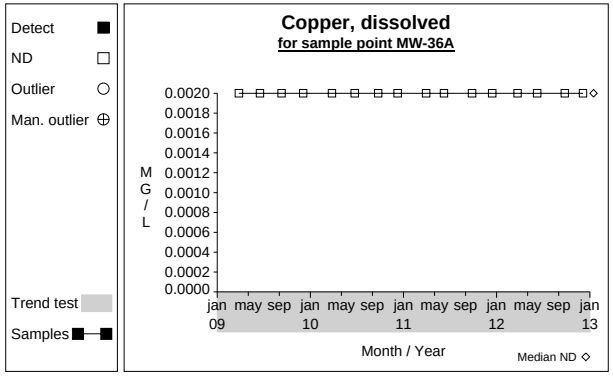
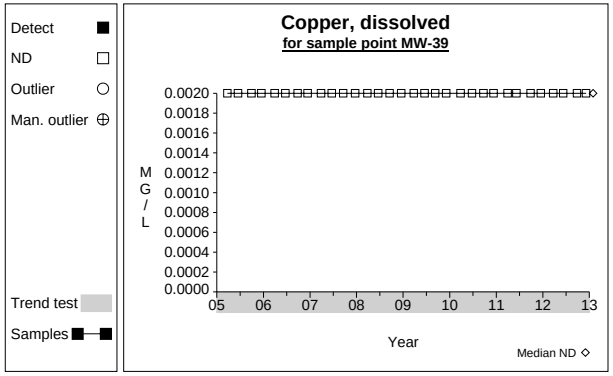
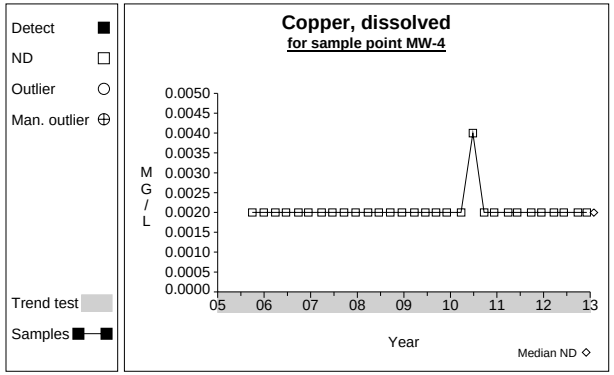


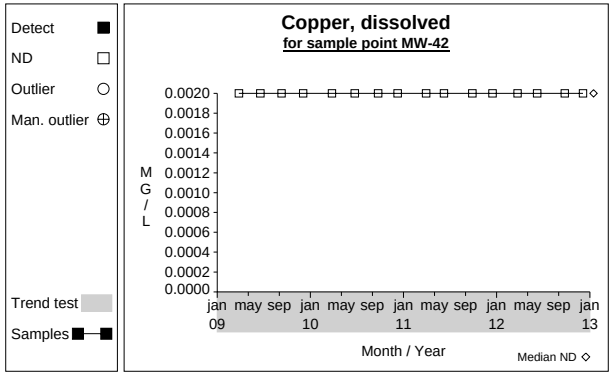
Graph 281



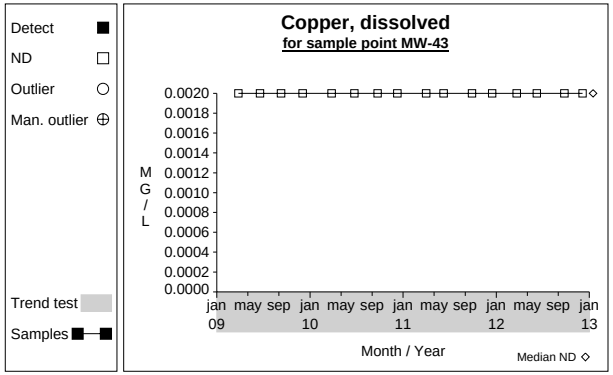
Graph 282



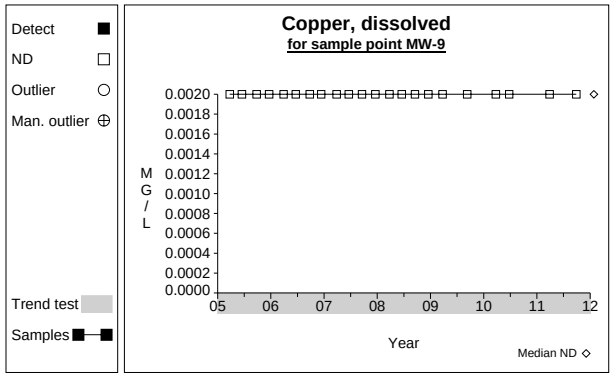
Graph 283



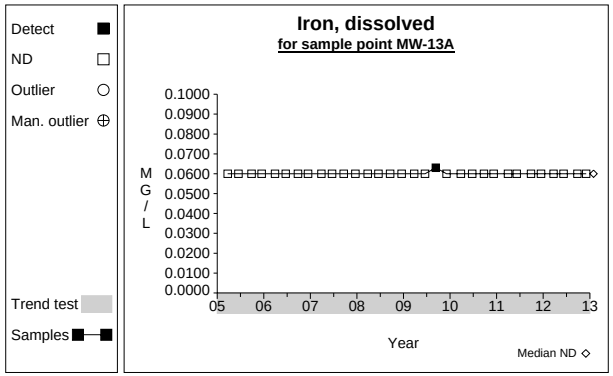
Graph 284



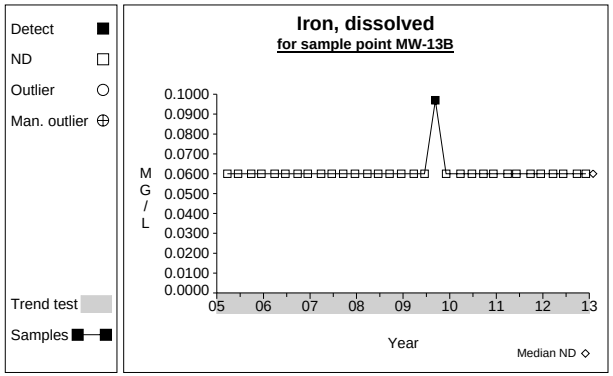
Graph 285



Graph 286

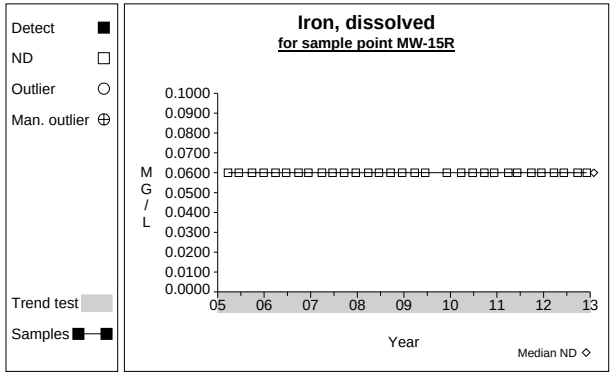


Graph 287

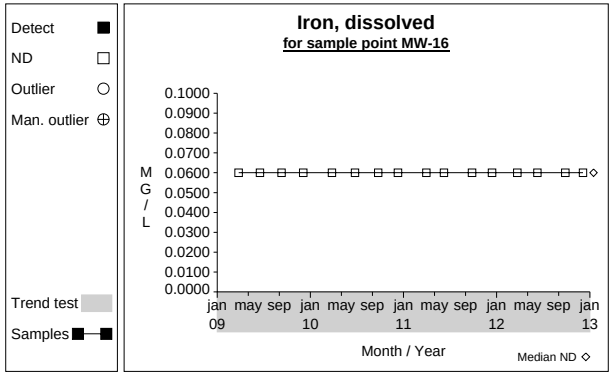


Graph 288

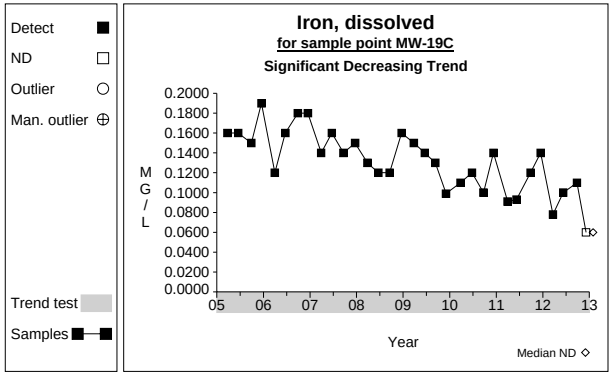
Time Series



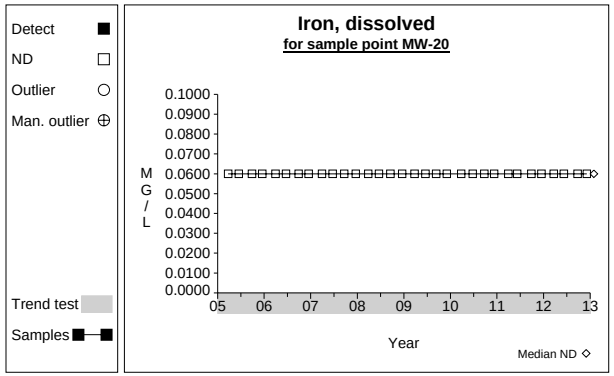
Graph 289



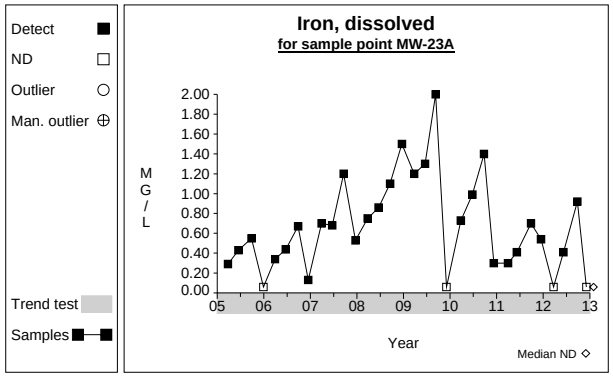
Graph 290



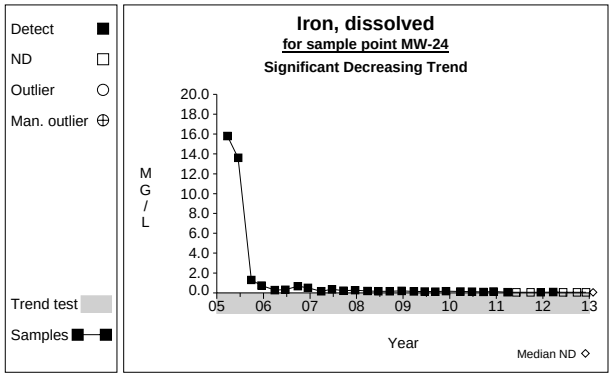
Graph 291



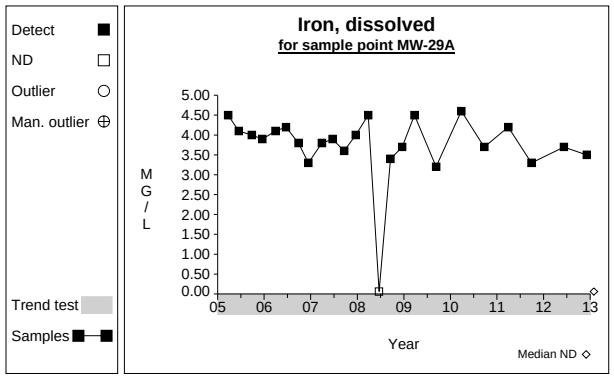
Graph 292



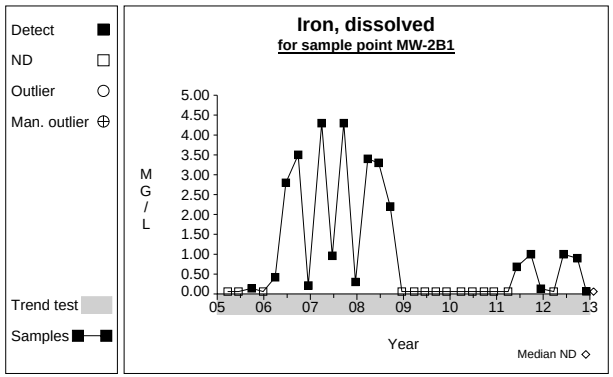
Graph 293



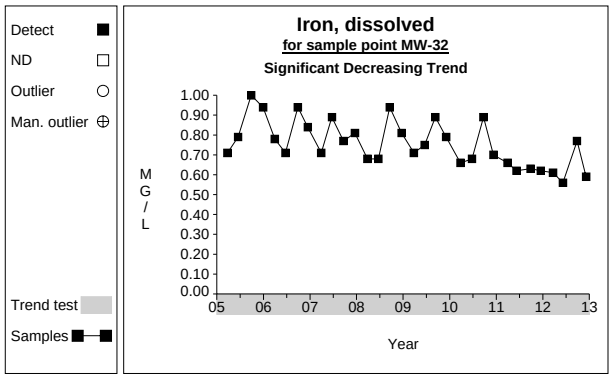
Graph 294



Graph 295

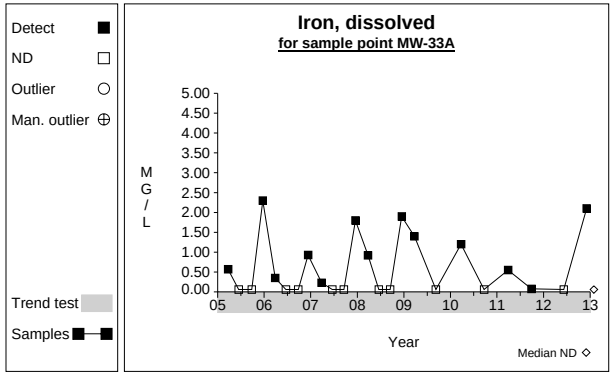


Graph 296

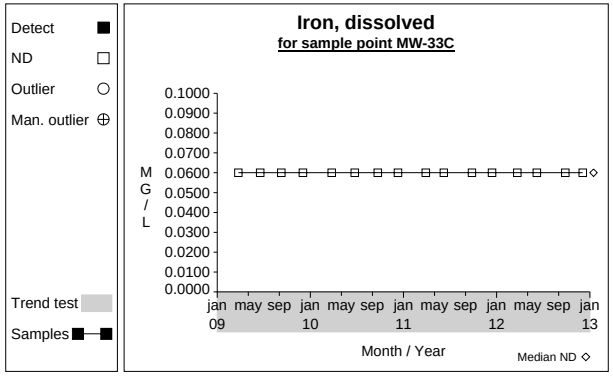


Graph 297

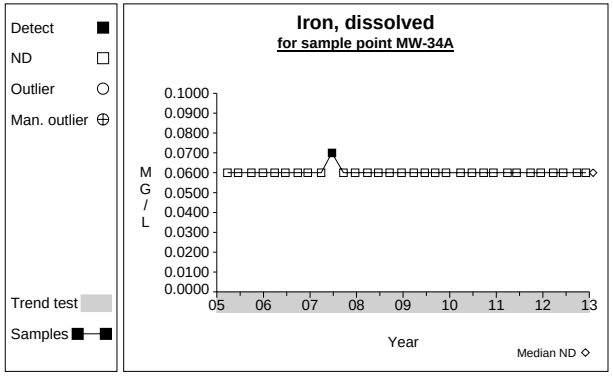
Time Series



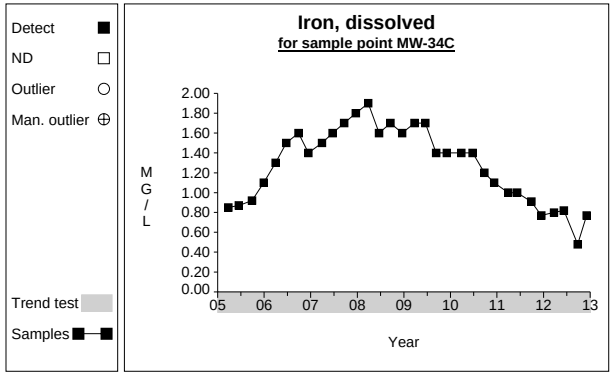
Graph 298



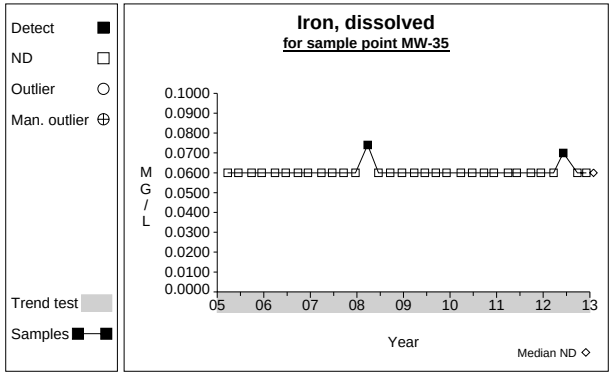
Graph 299



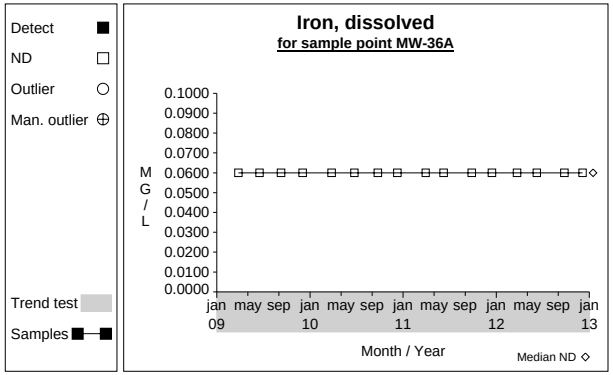
Graph 300



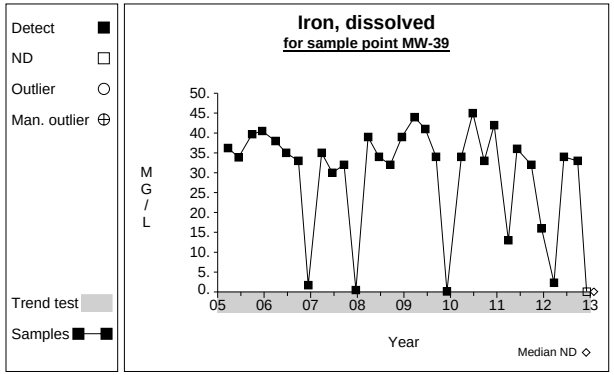
Graph 301



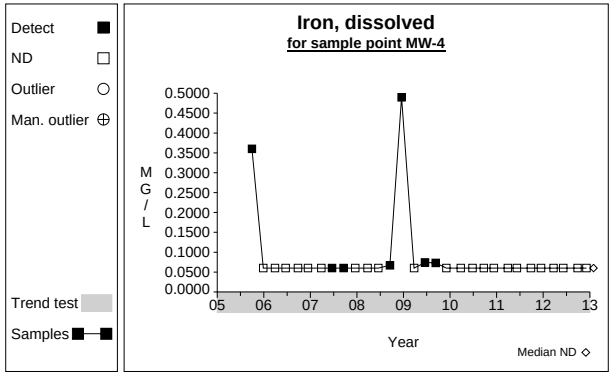
Graph 302



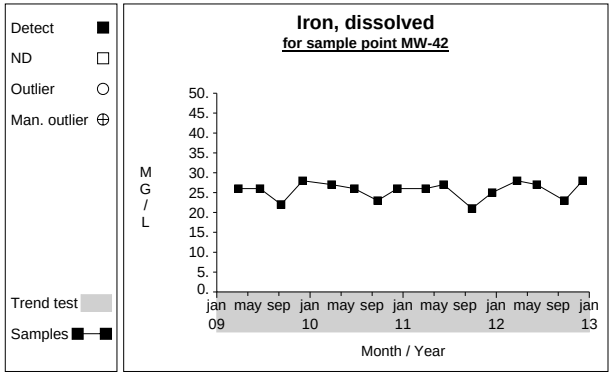
Graph 303



Graph 304

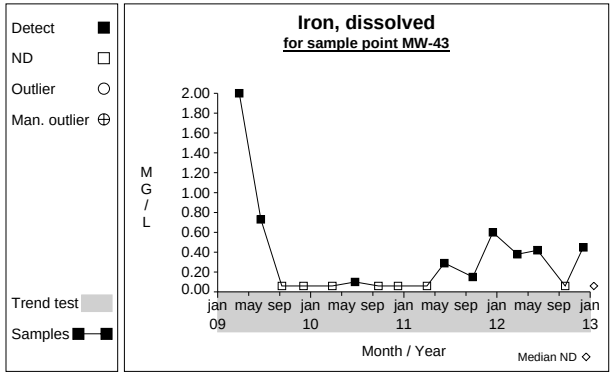


Graph 305

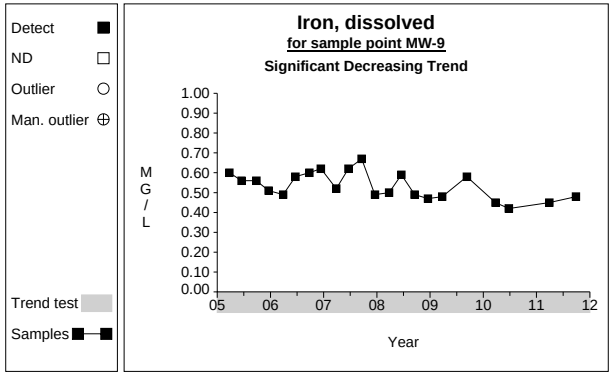


Graph 306

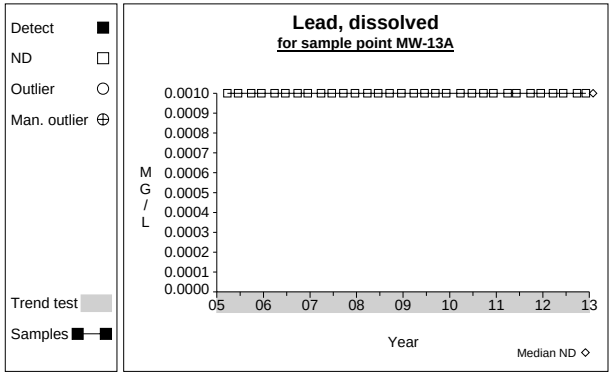
Time Series



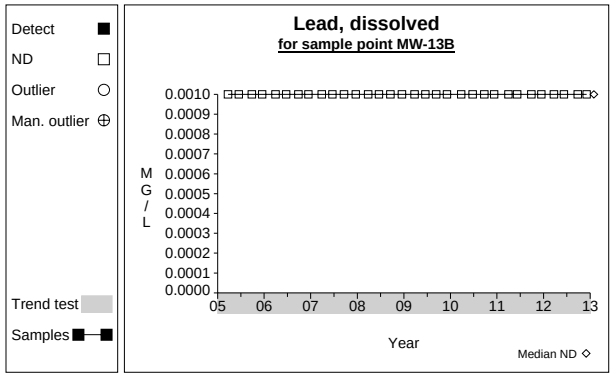
Graph 307



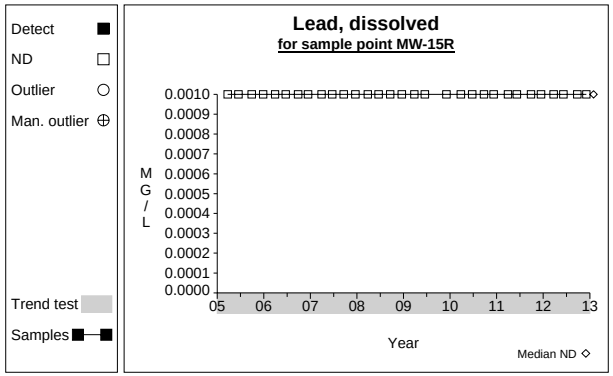
Graph 308



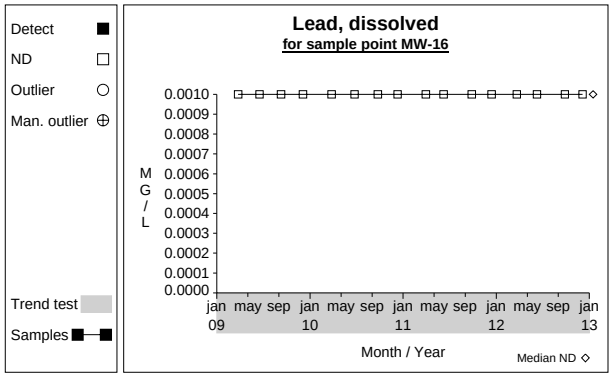
Graph 309



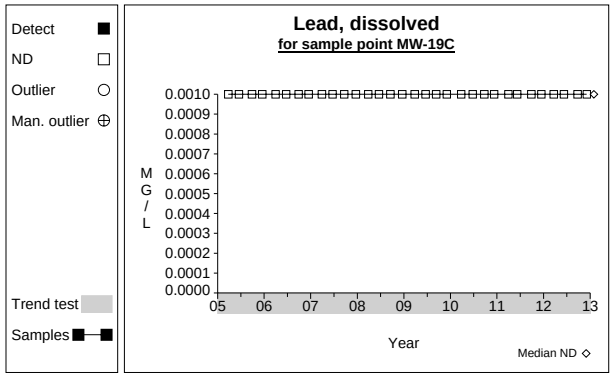
Graph 310



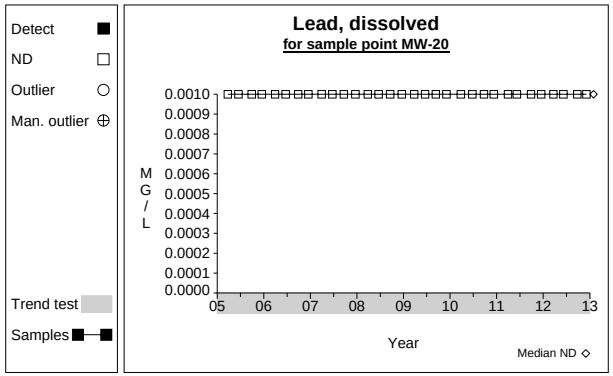
Graph 311



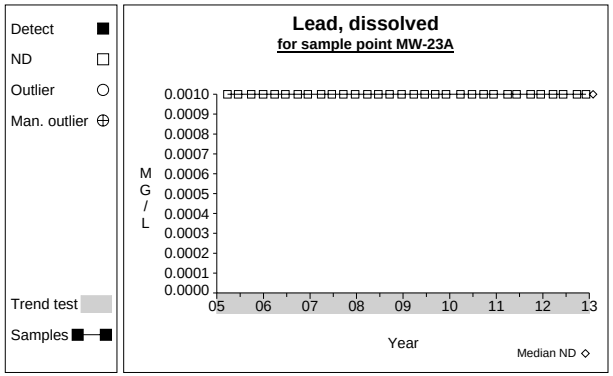
Graph 312



Graph 313

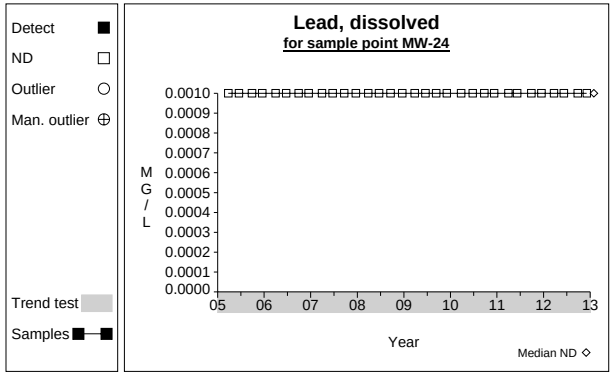


Graph 314

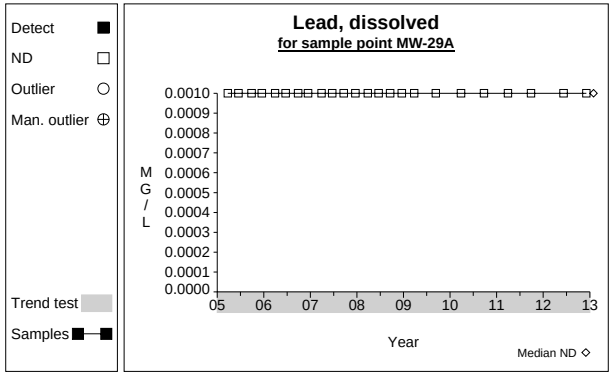


Graph 315

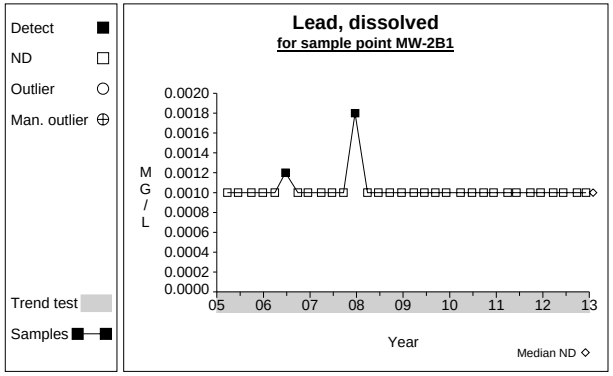
Time Series



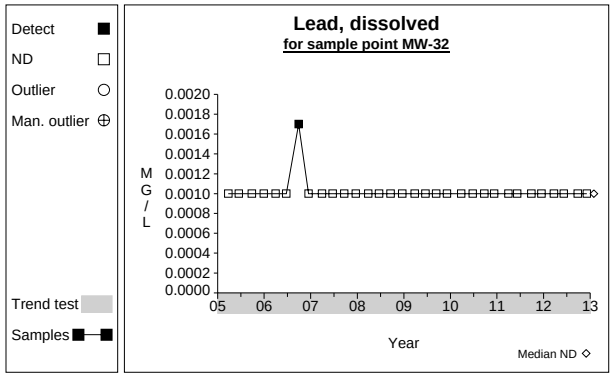
Graph 316



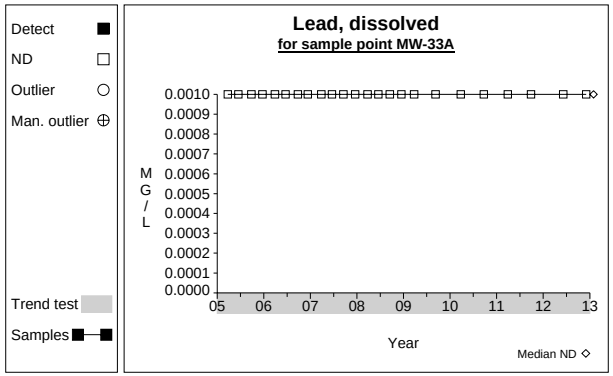
Graph 317



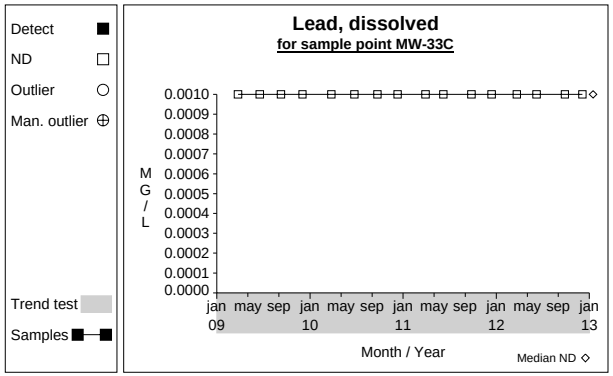
Graph 318



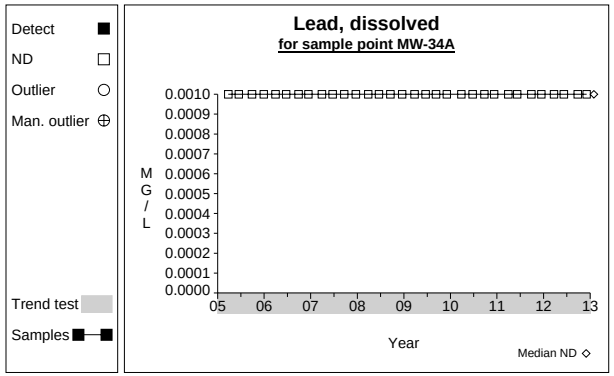
Graph 319



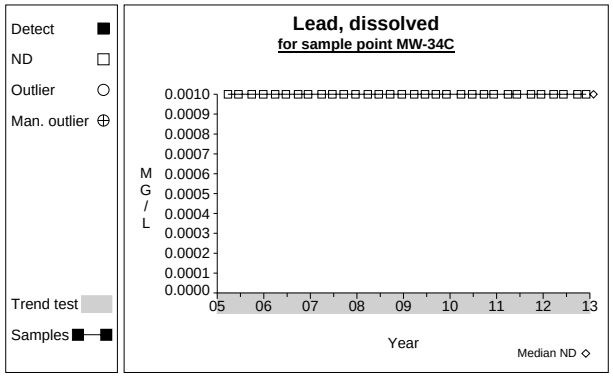
Graph 320



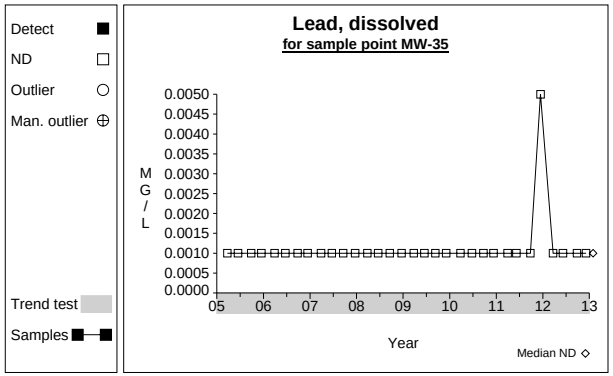
Graph 321



Graph 322

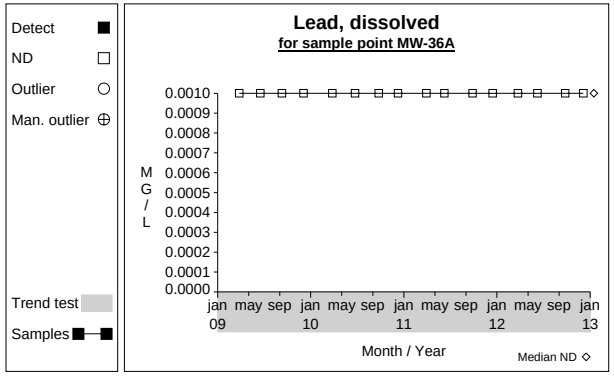


Graph 323

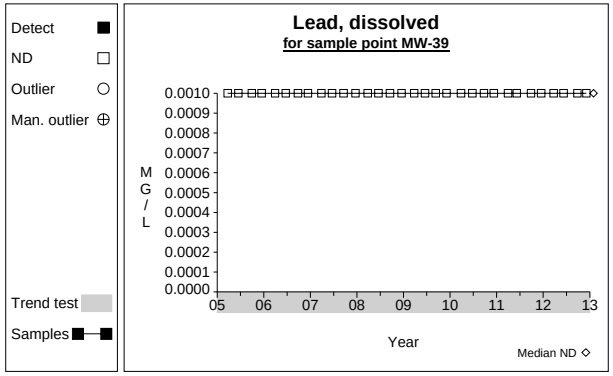


Graph 324

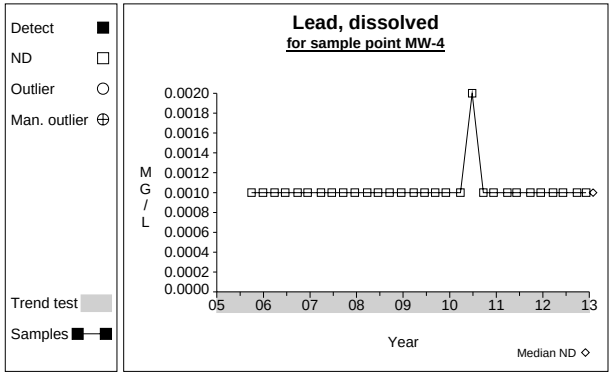
Time Series



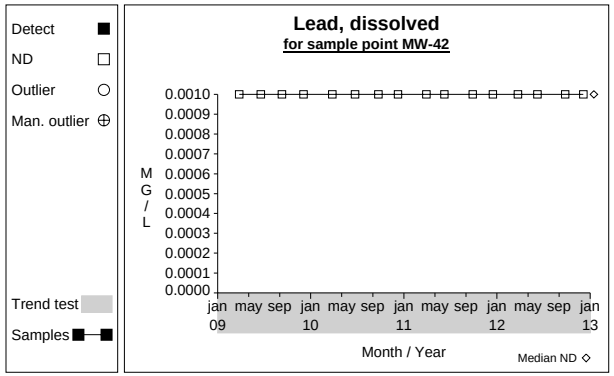
Graph 325



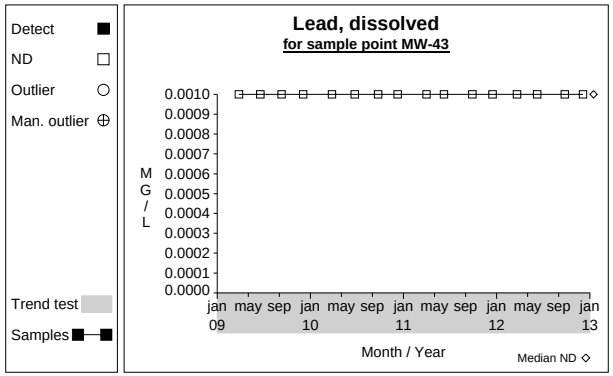
Graph 326



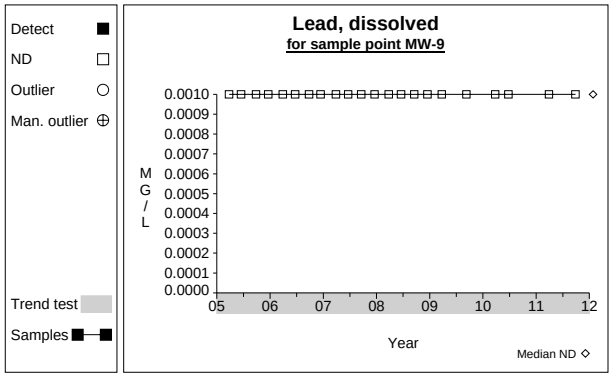
Graph 327



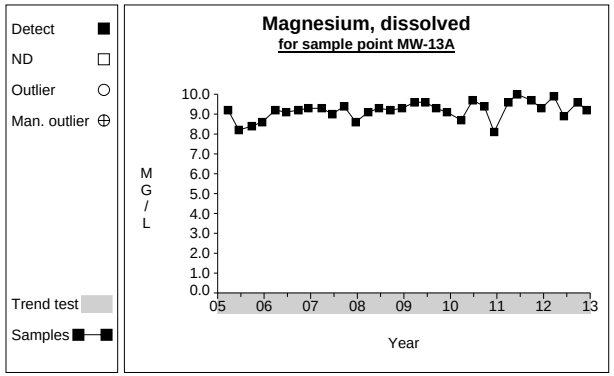
Graph 328



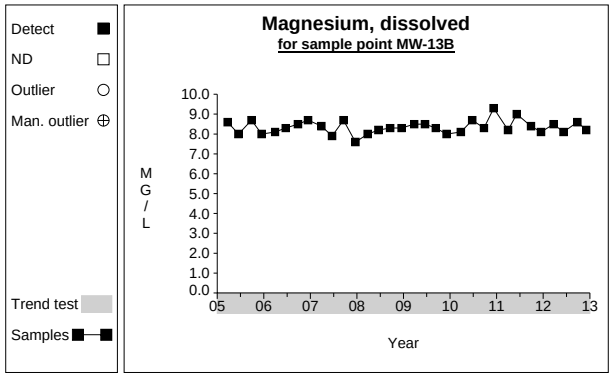
Graph 329



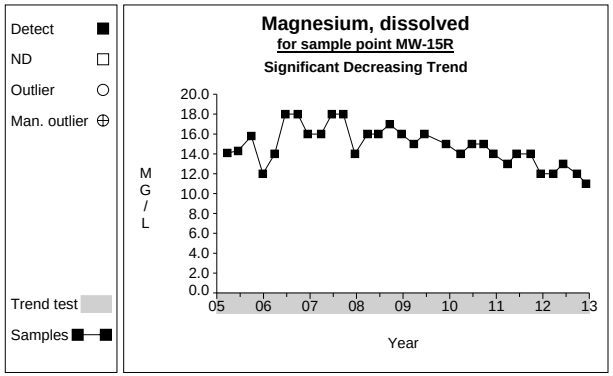
Graph 330



Graph 331

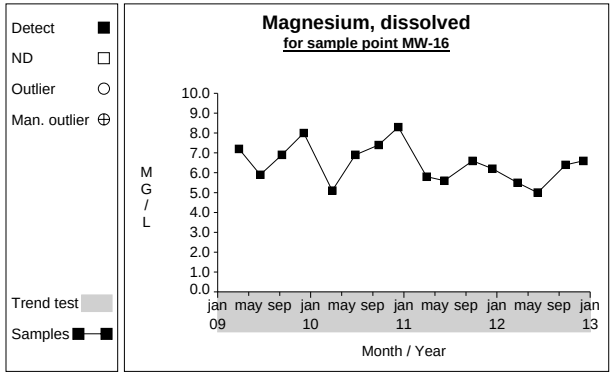


Graph 332

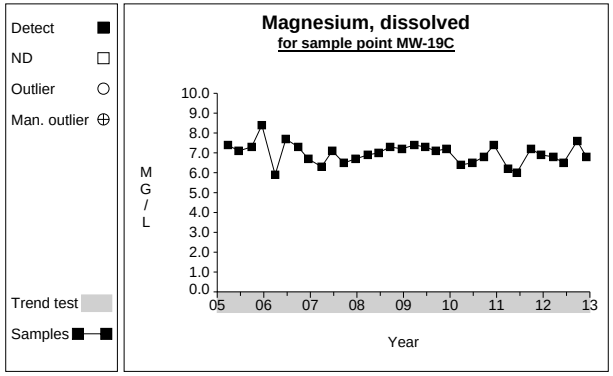


Graph 333

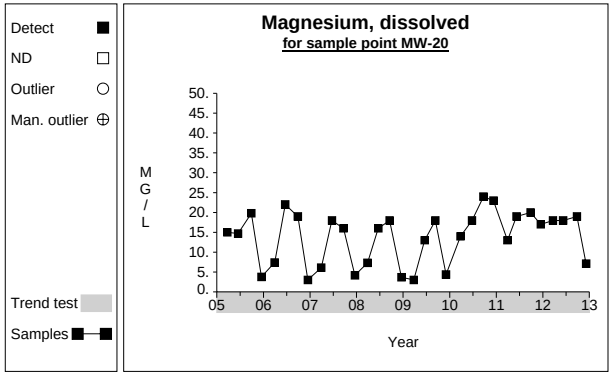
Time Series



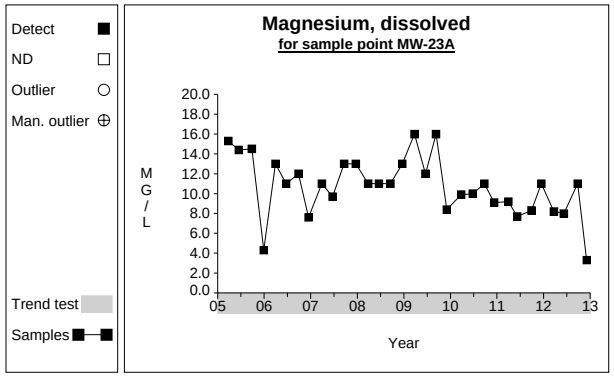
Graph 334



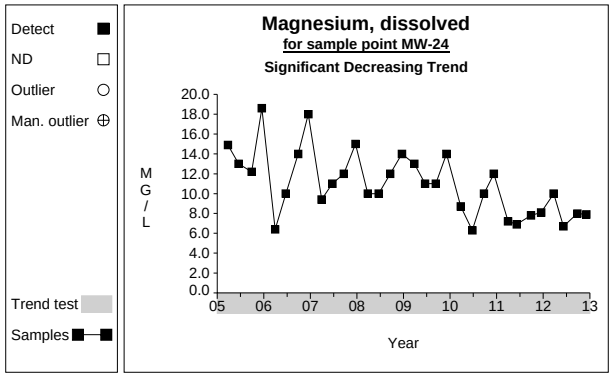
Graph 335



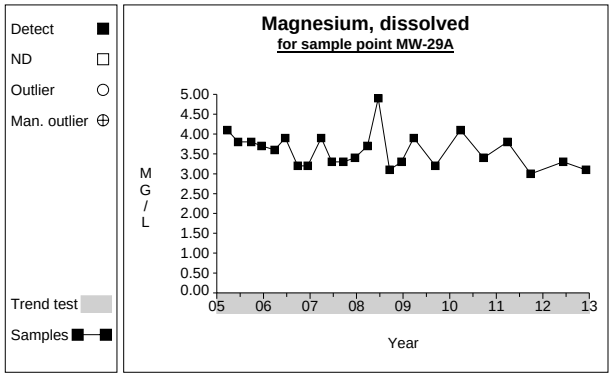
Graph 336



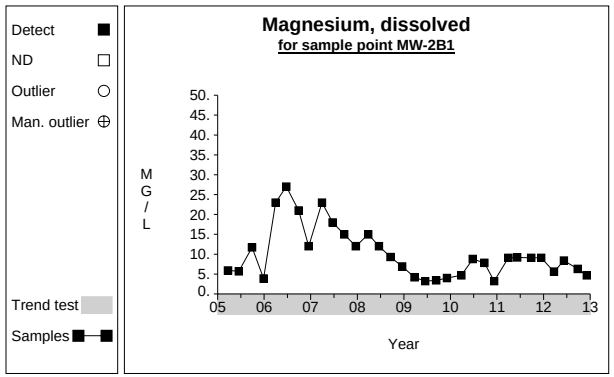
Graph 337



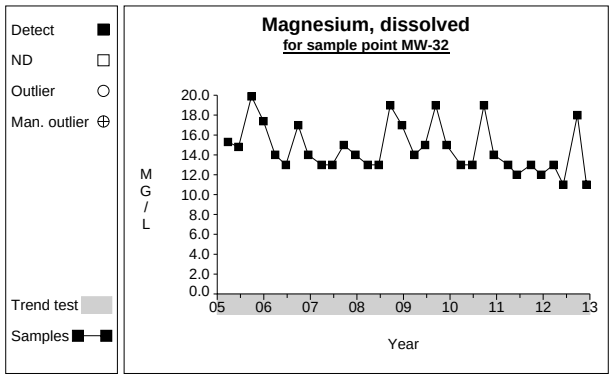
Graph 338



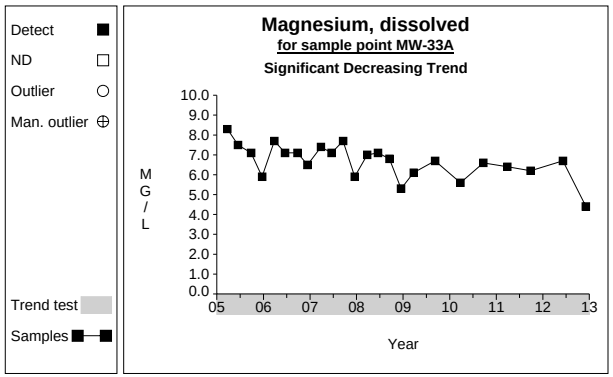
Graph 339



Graph 340

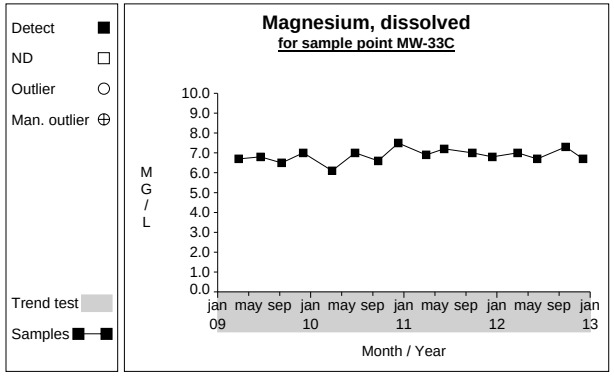


Graph 341

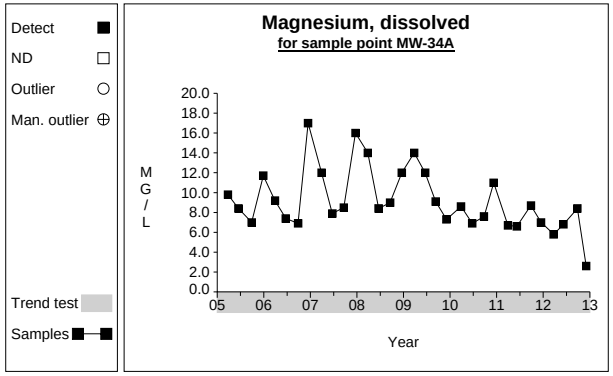


Graph 342

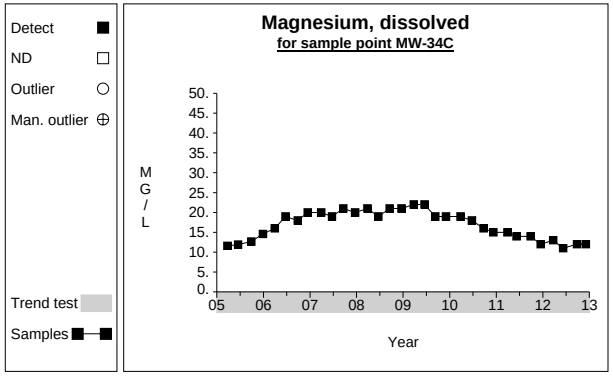
Time Series



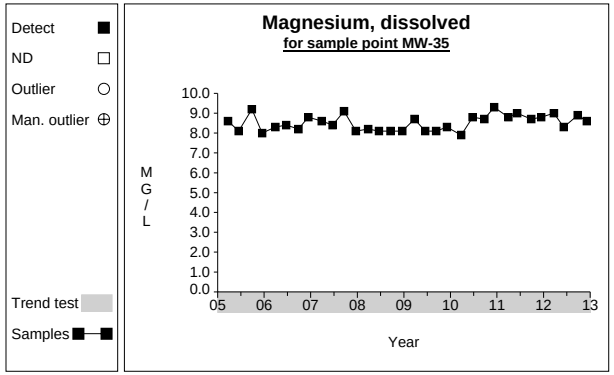
Graph 343



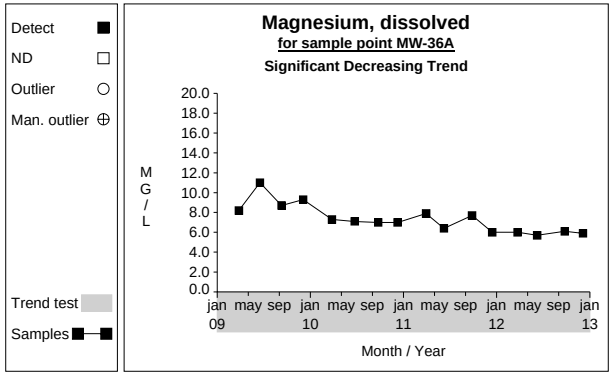
Graph 344



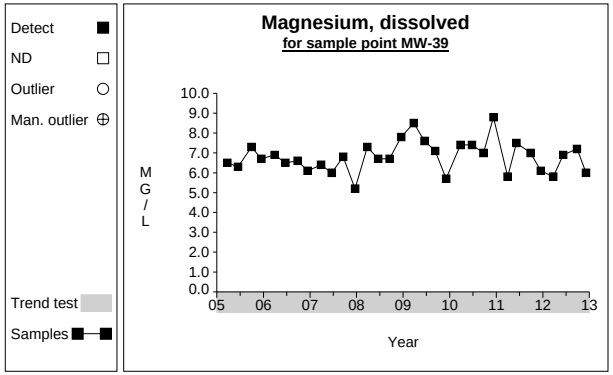
Graph 345



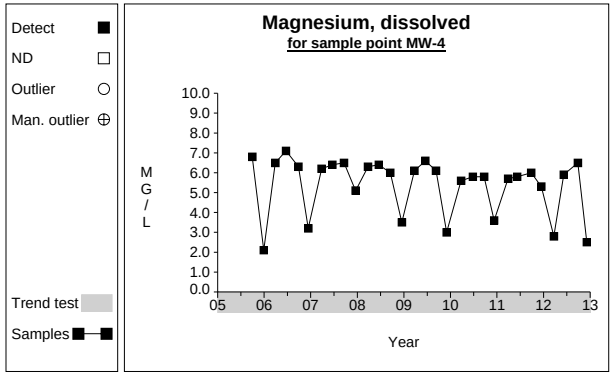
Graph 346



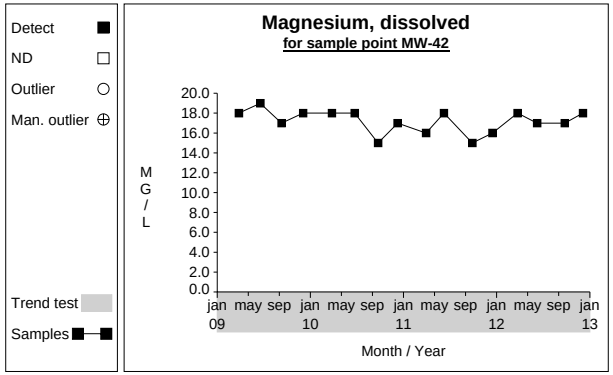
Graph 347



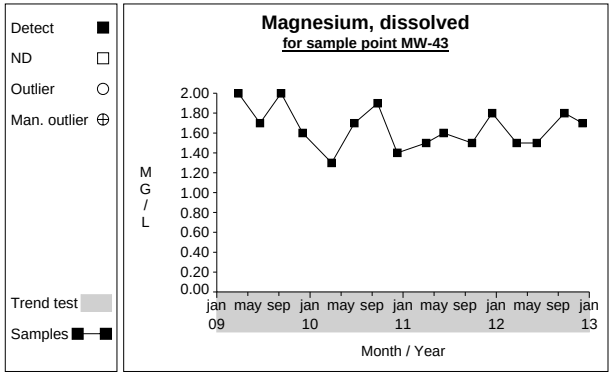
Graph 348



Graph 349

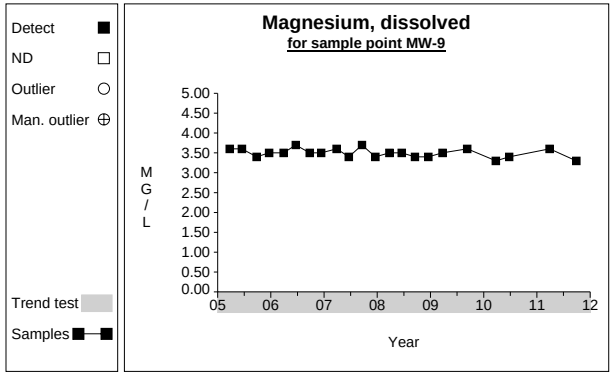


Graph 350

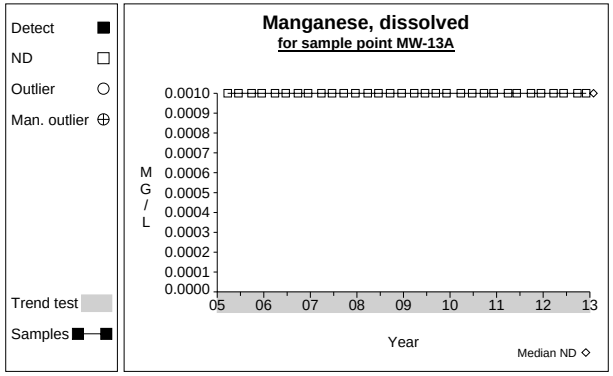


Graph 351

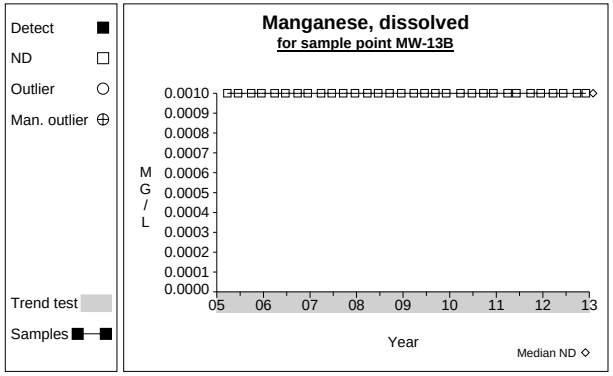
Time Series



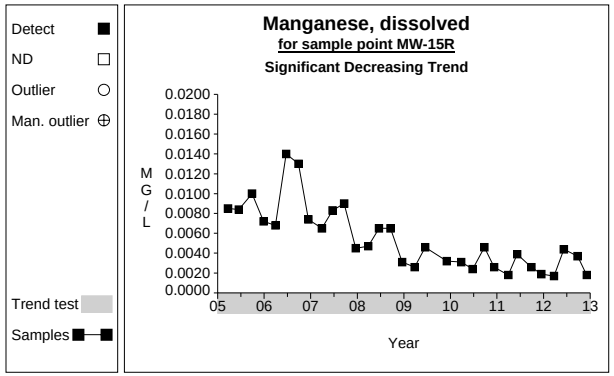
Graph 352



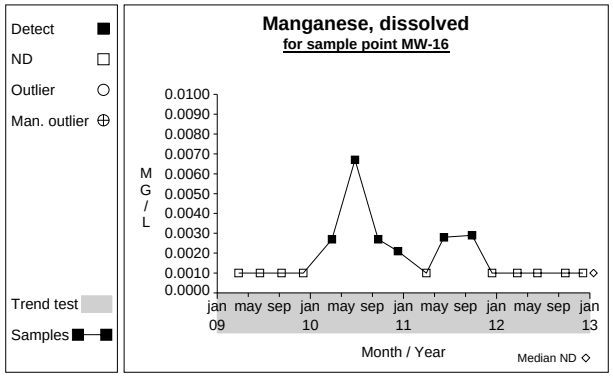
Graph 353



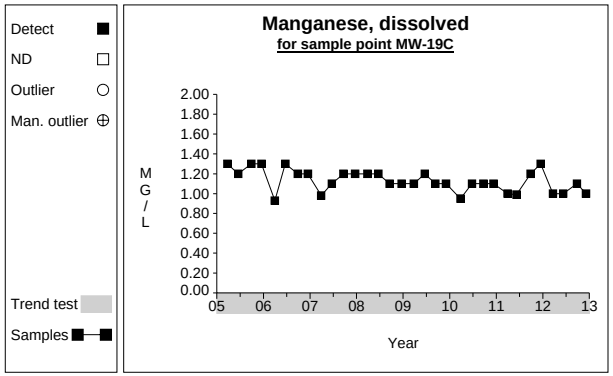
Graph 354



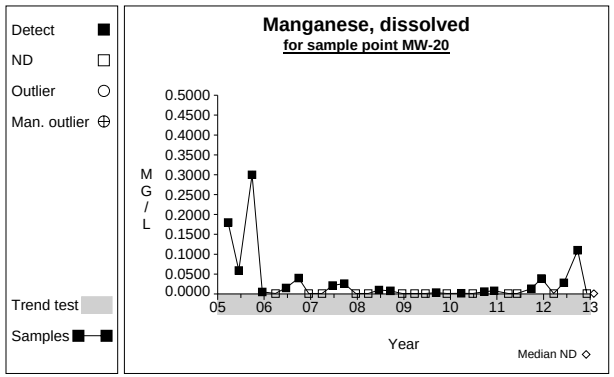
Graph 355



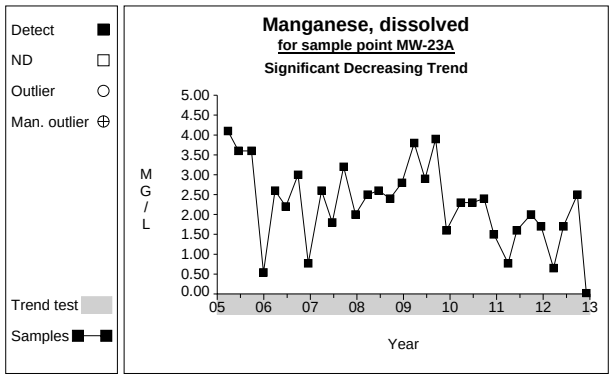
Graph 356



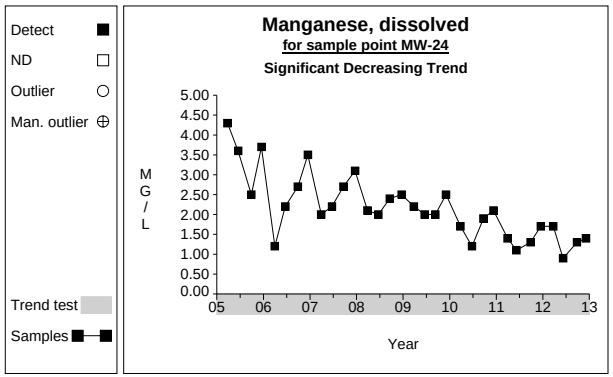
Graph 357



Graph 358

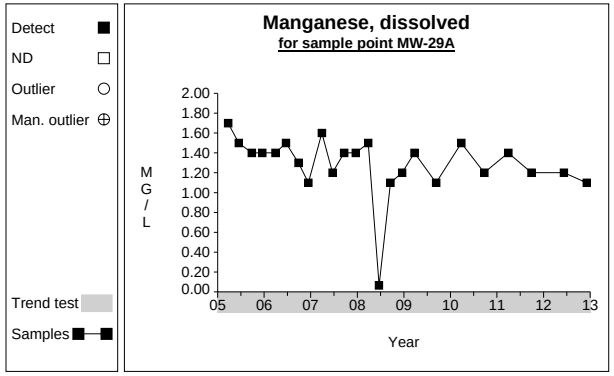


Graph 359

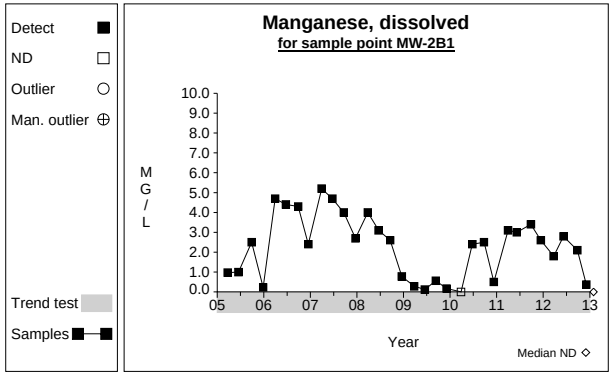


Graph 360

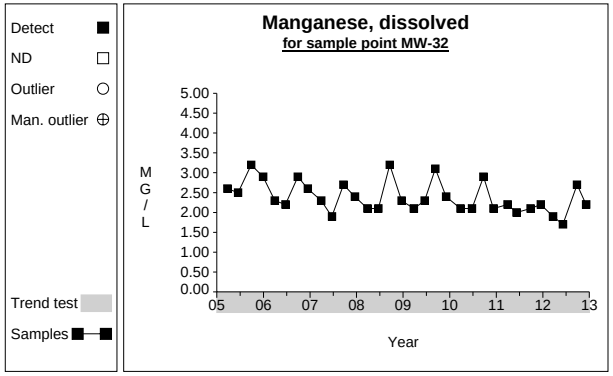
Time Series



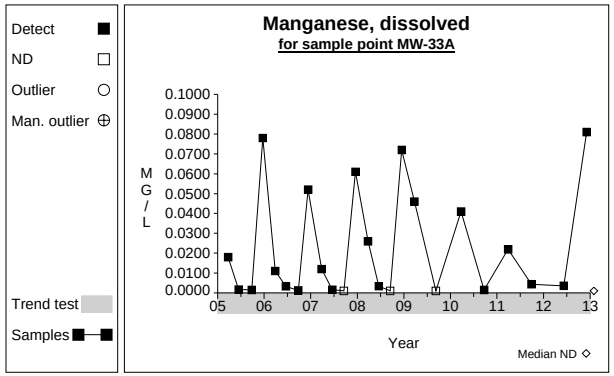
Graph 361



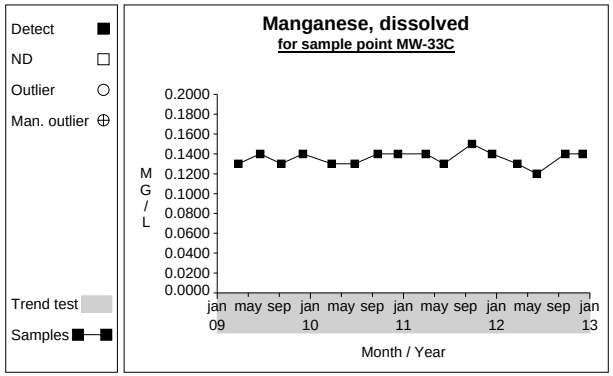
Graph 362



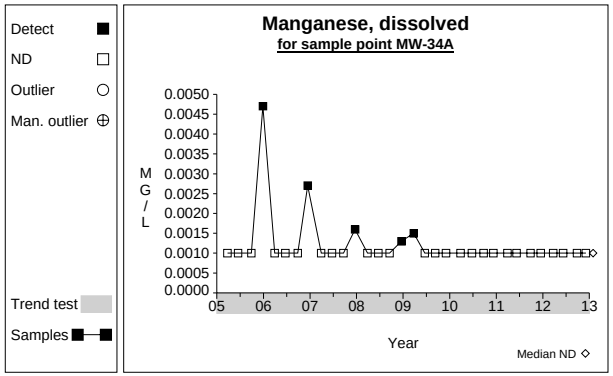
Graph 363



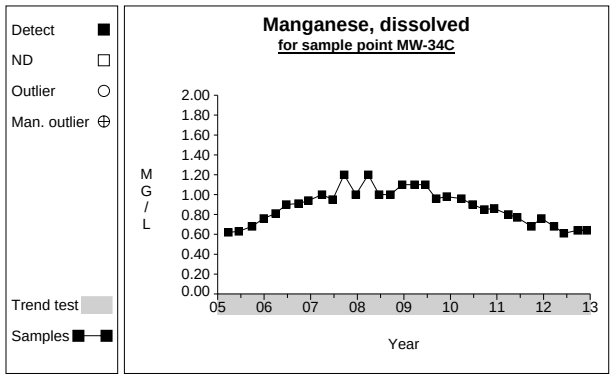
Graph 364



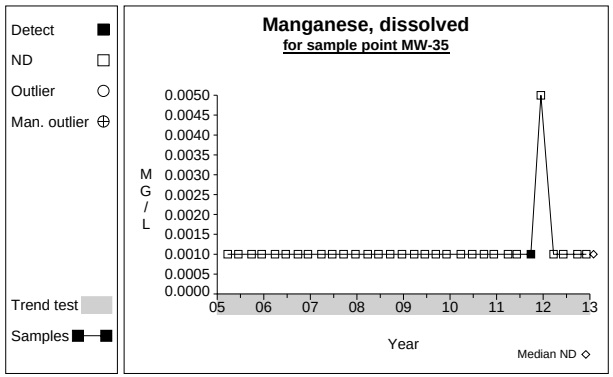
Graph 365



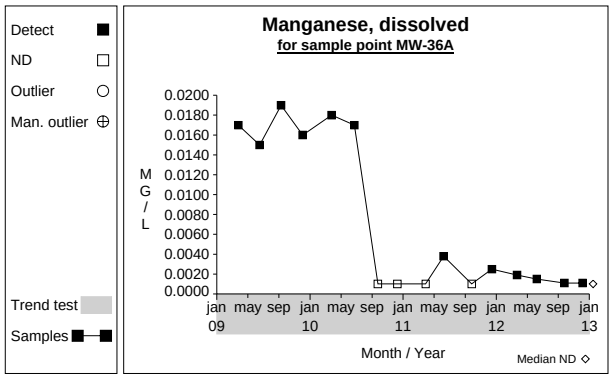
Graph 366



Graph 367

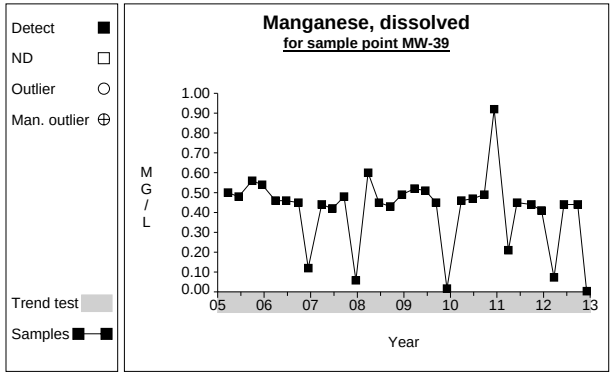


Graph 368

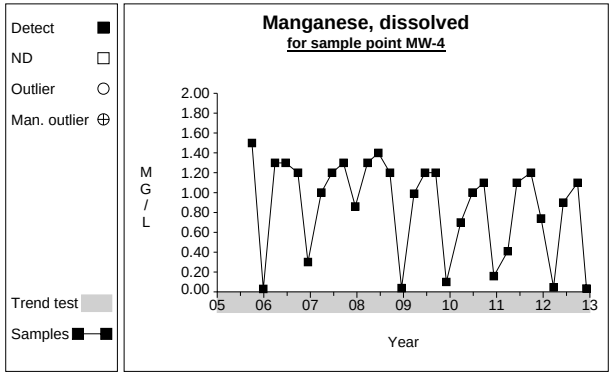


Graph 369

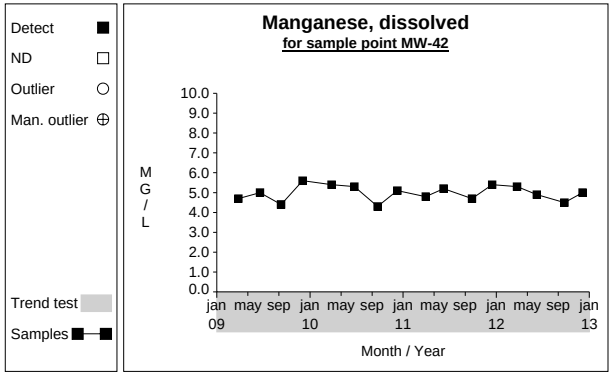
Time Series



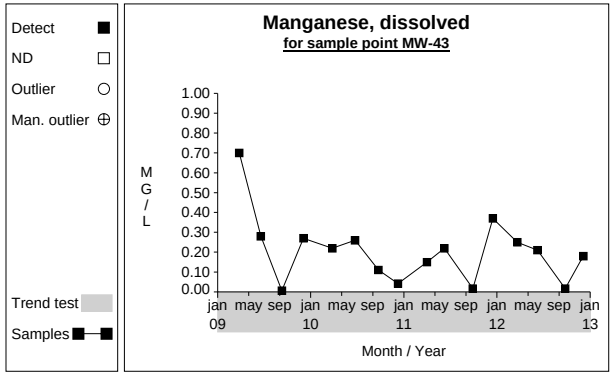
Graph 370



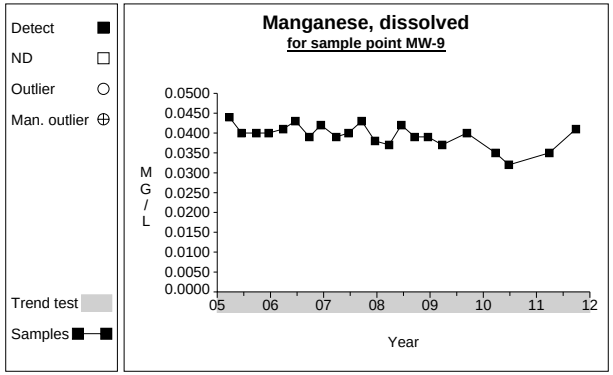
Graph 371



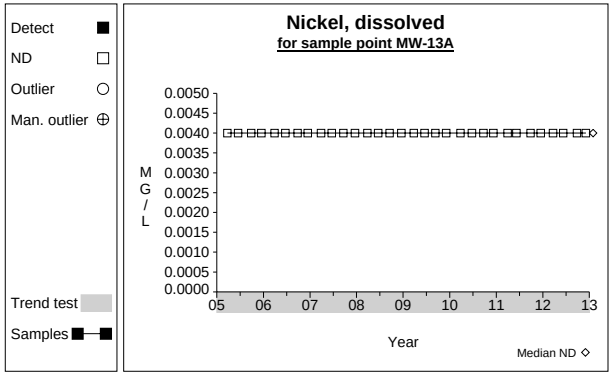
Graph 372



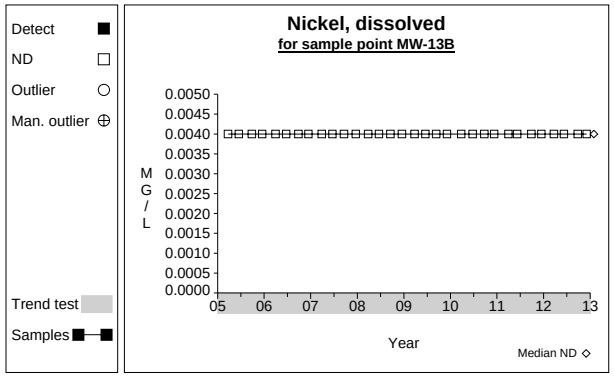
Graph 373



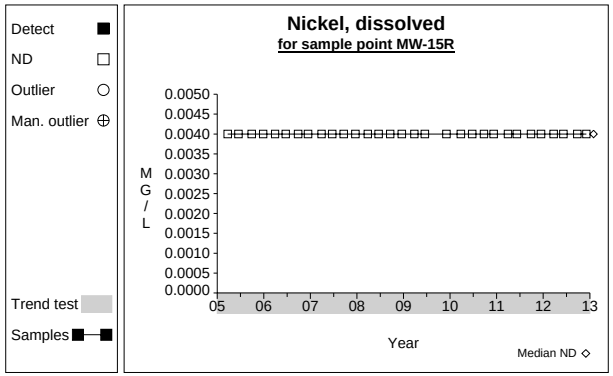
Graph 374



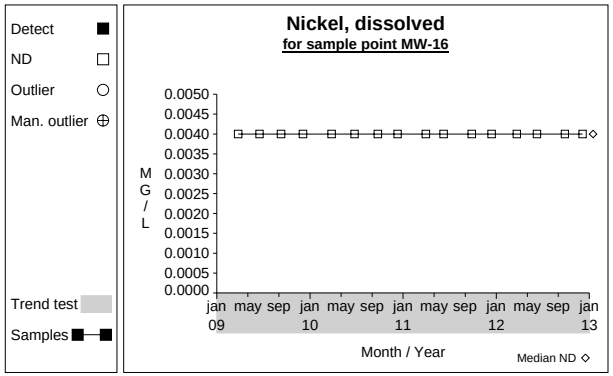
Graph 375



Graph 376

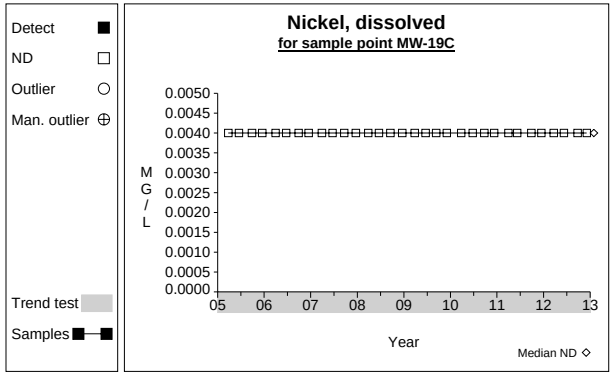


Graph 377

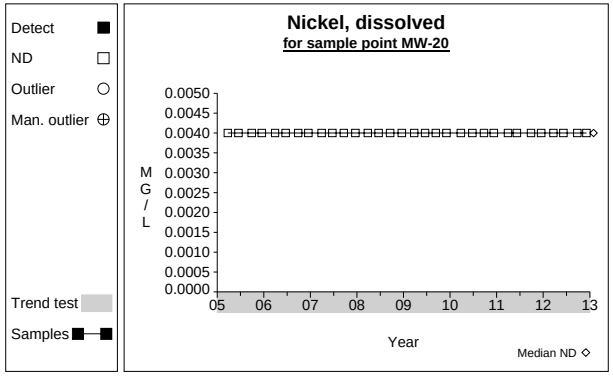


Graph 378

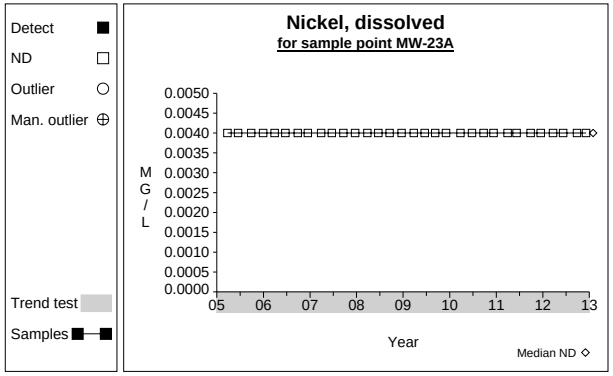
Time Series



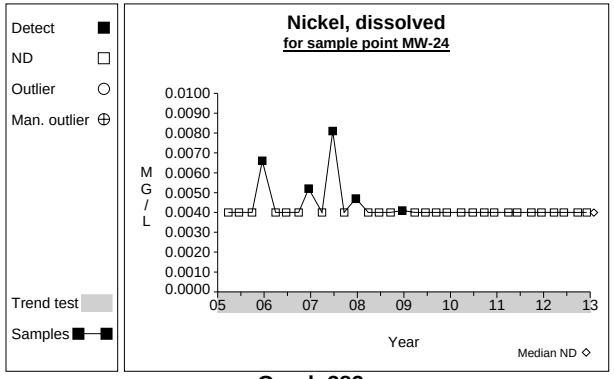
Graph 379



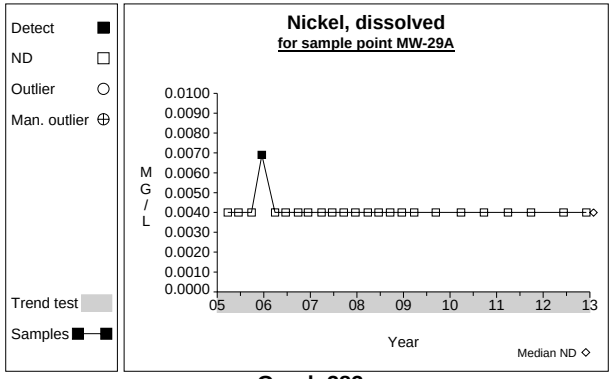
Graph 380



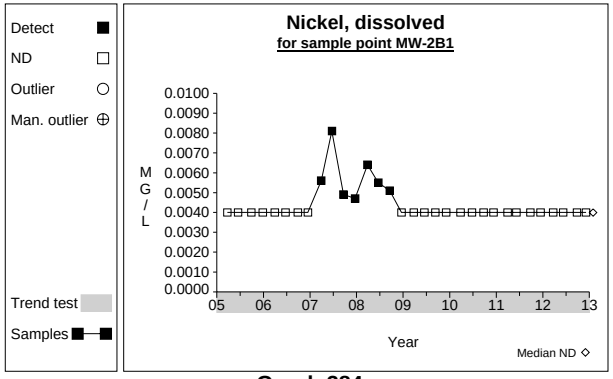
Graph 381



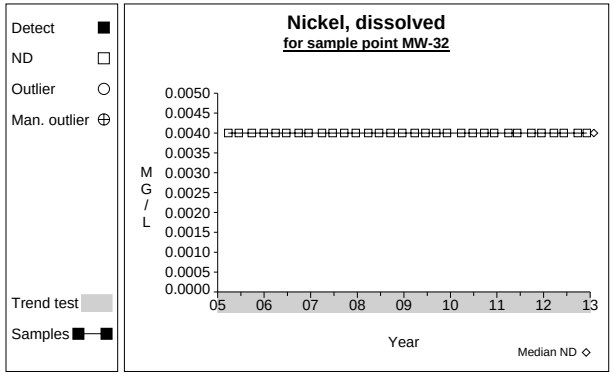
Graph 382



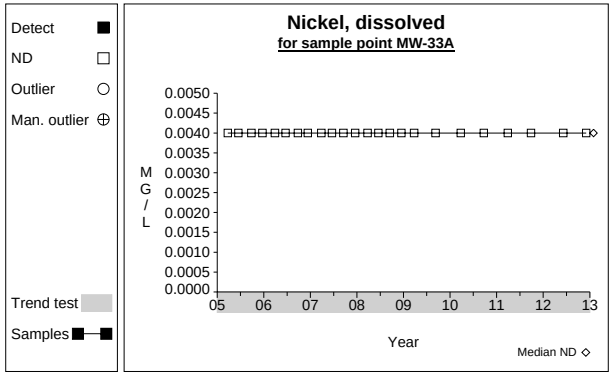
Graph 383



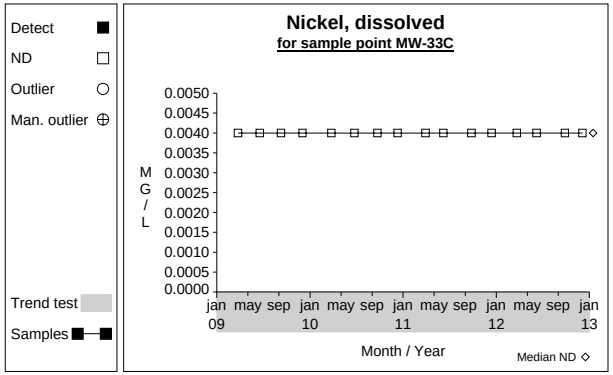
Graph 384



Graph 385

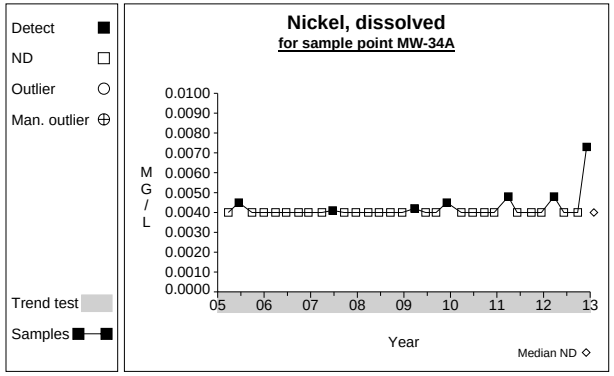


Graph 386

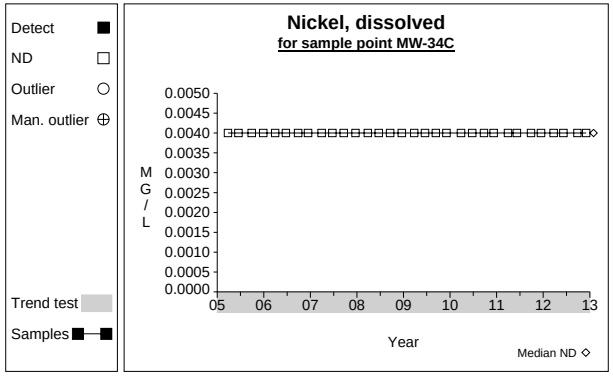


Graph 387

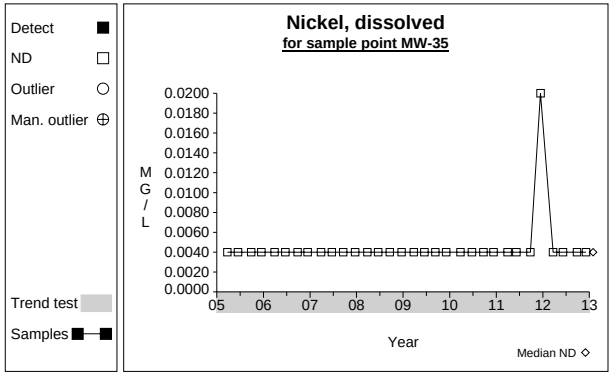
Time Series



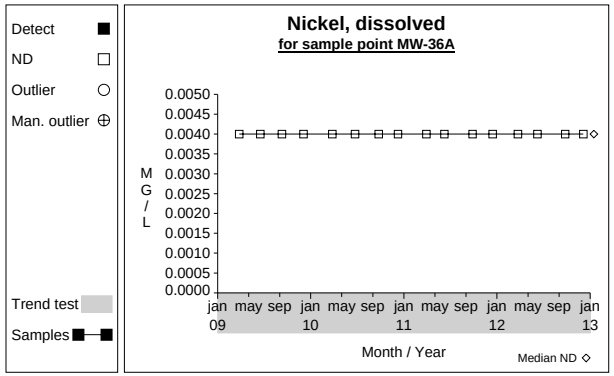
Graph 388



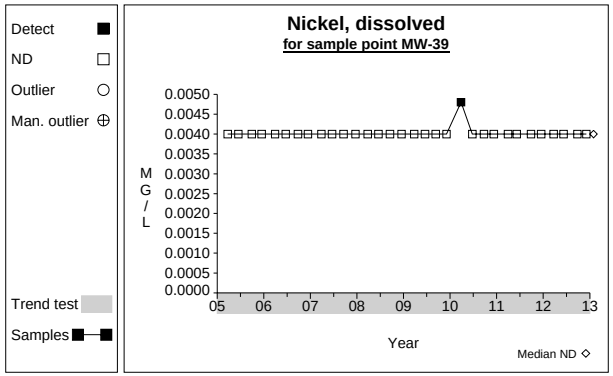
Graph 389



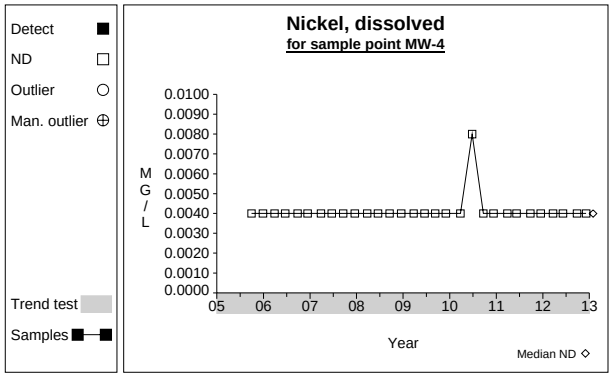
Graph 390



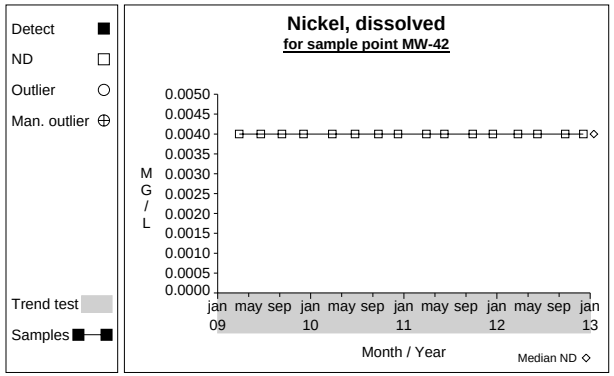
Graph 391



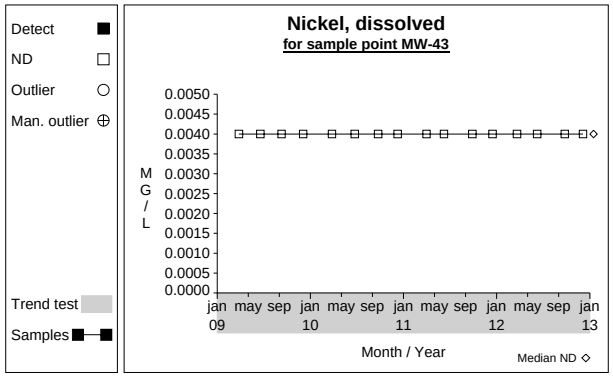
Graph 392



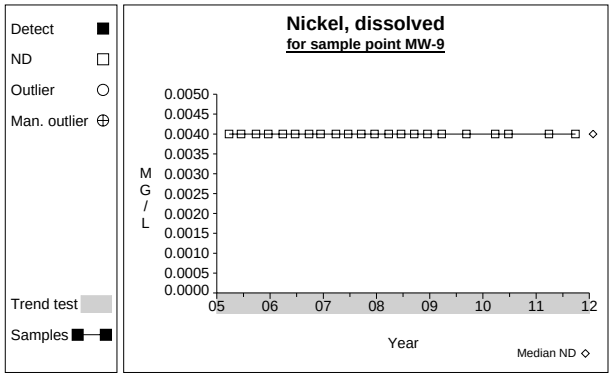
Graph 393



Graph 394

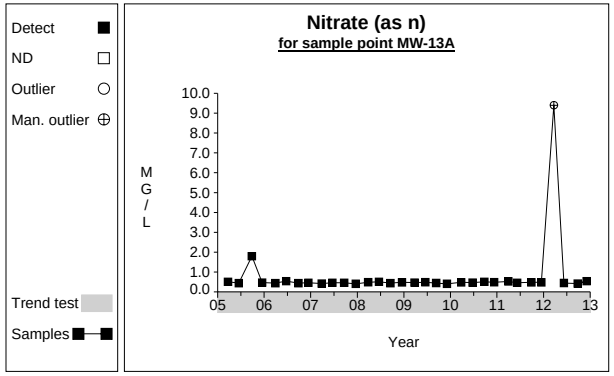


Graph 395

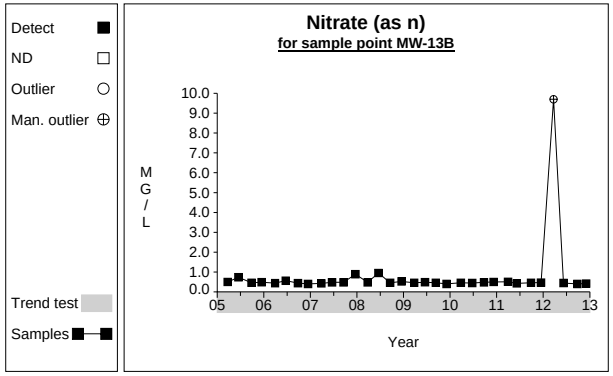


Graph 396

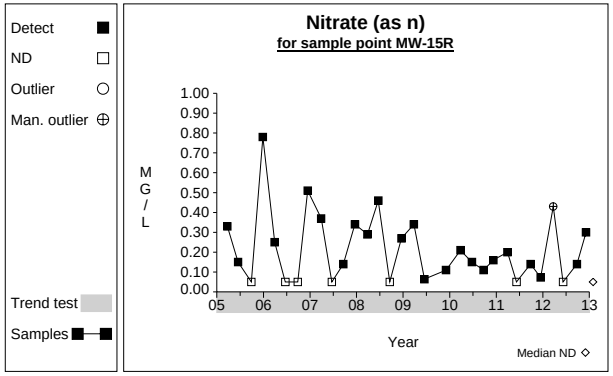
Time Series



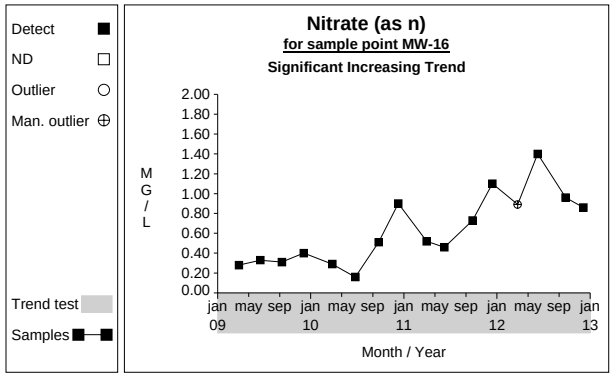
Graph 397



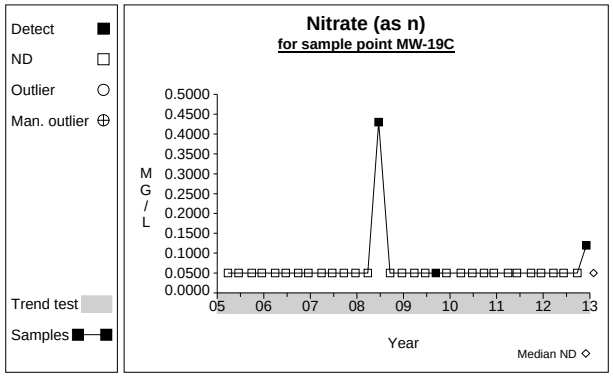
Graph 398



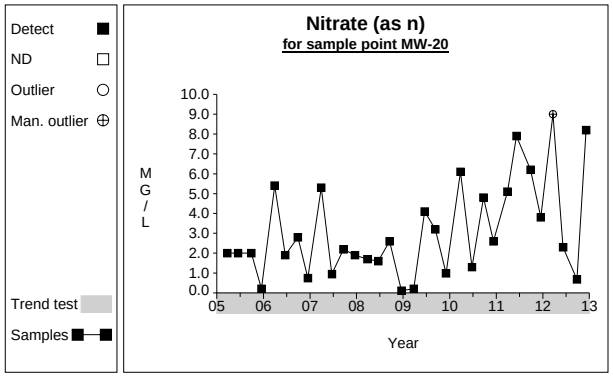
Graph 399



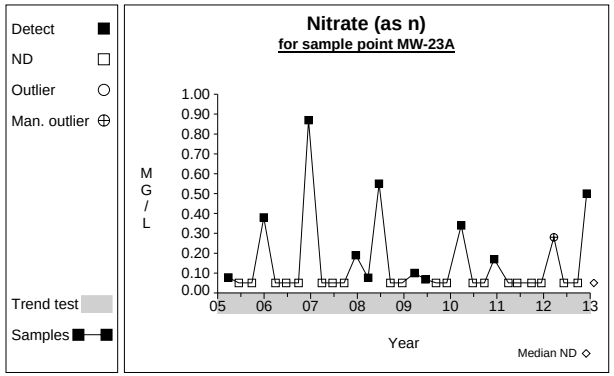
Graph 400



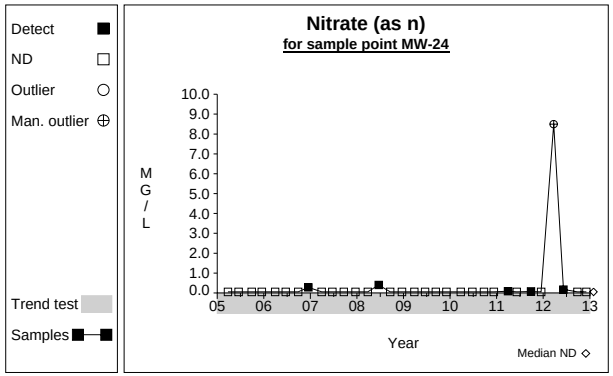
Graph 401



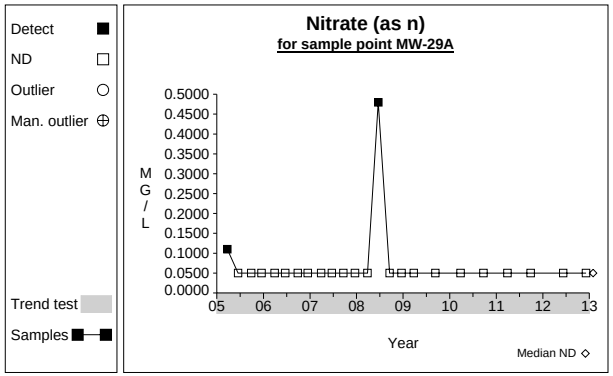
Graph 402



Graph 403

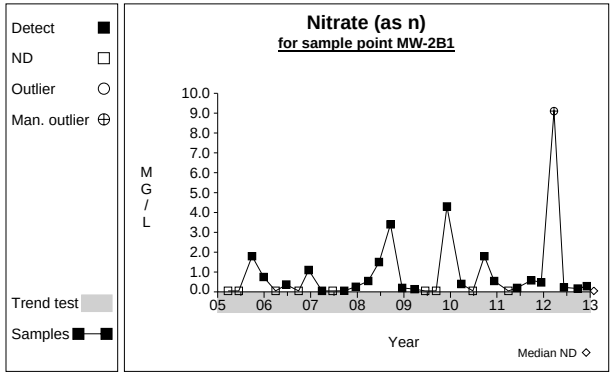


Graph 404

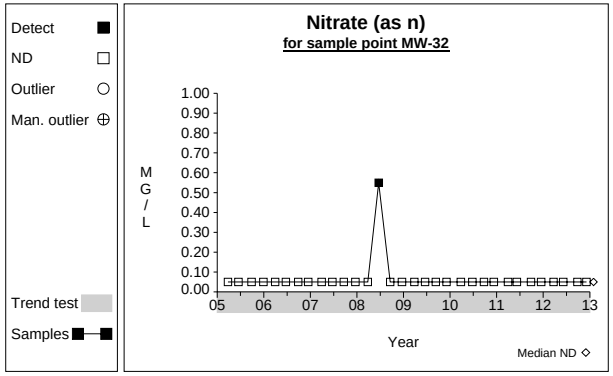


Graph 405

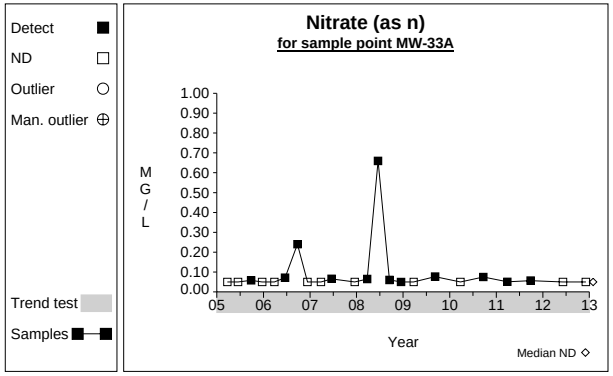
Time Series



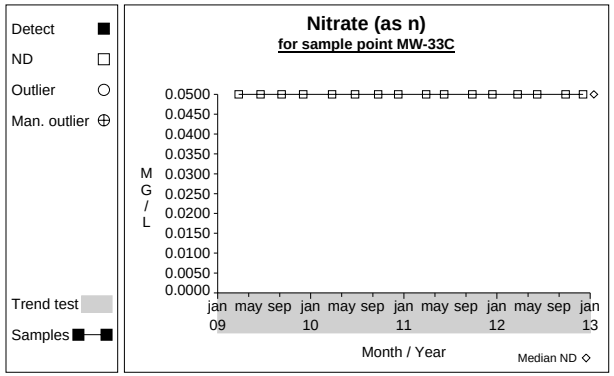
Graph 406



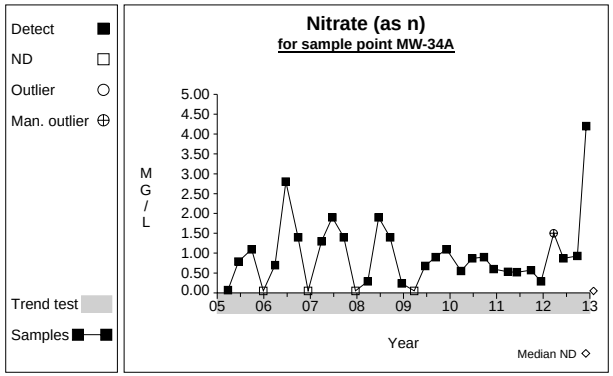
Graph 407



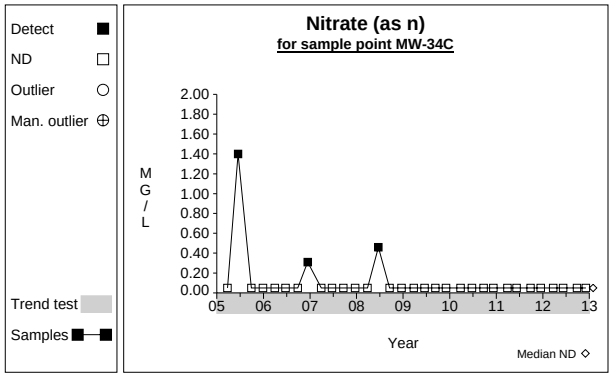
Graph 408



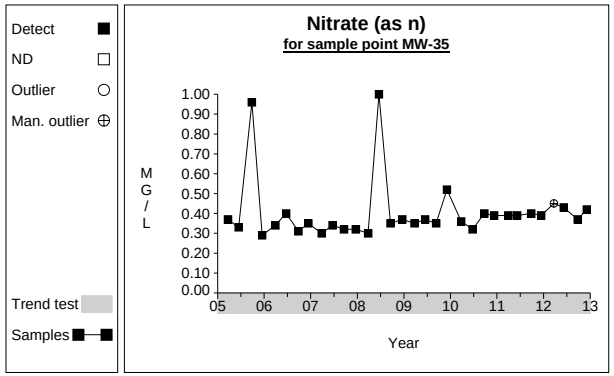
Graph 409



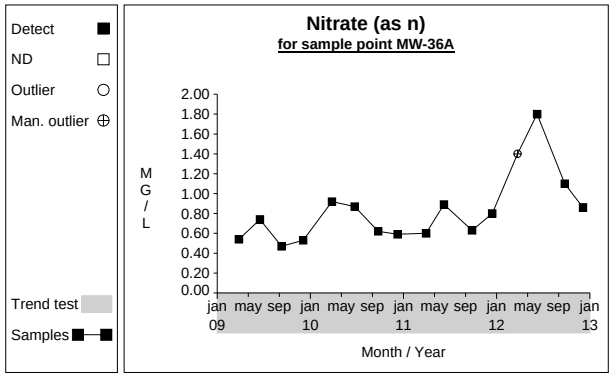
Graph 410



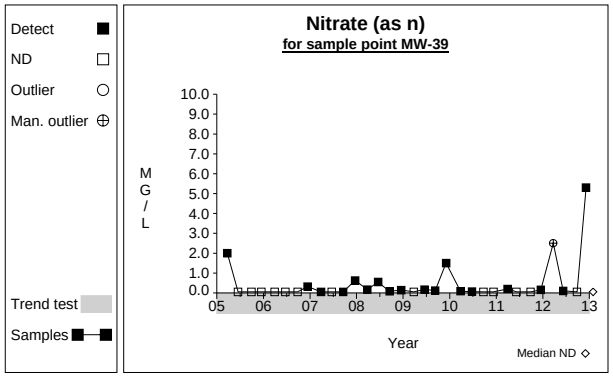
Graph 411



Graph 412

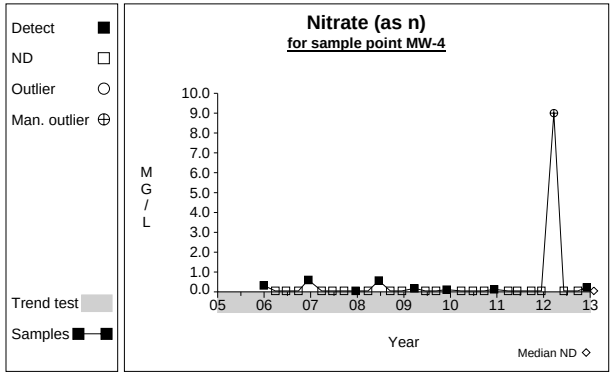


Graph 413

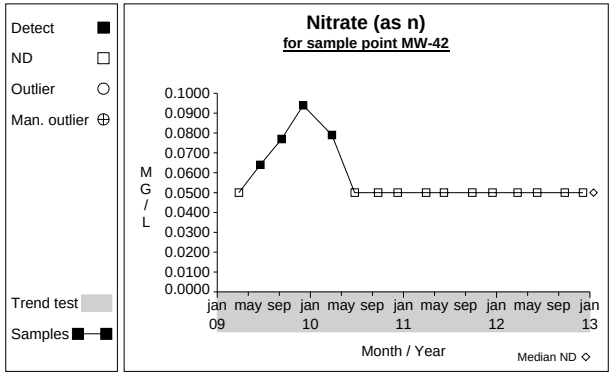


Graph 414

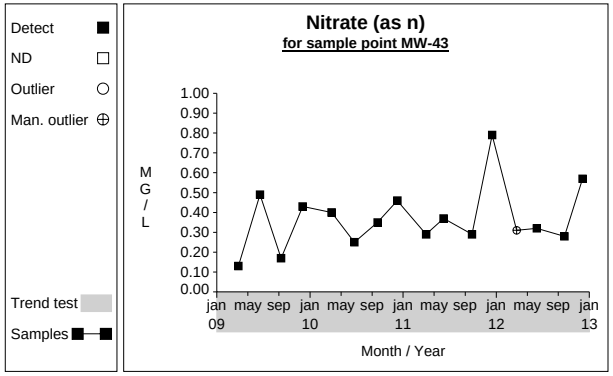
Time Series



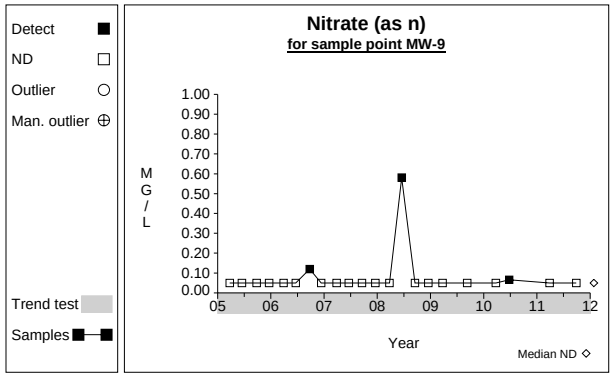
Graph 415



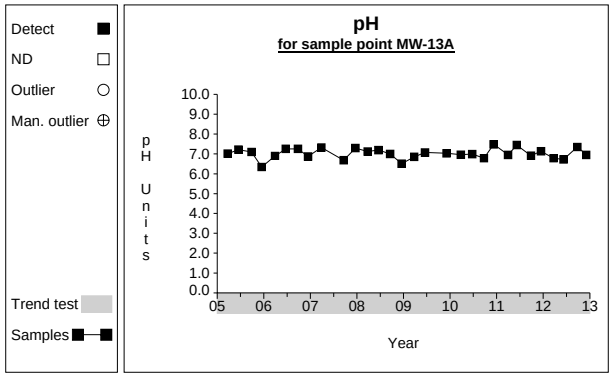
Graph 416



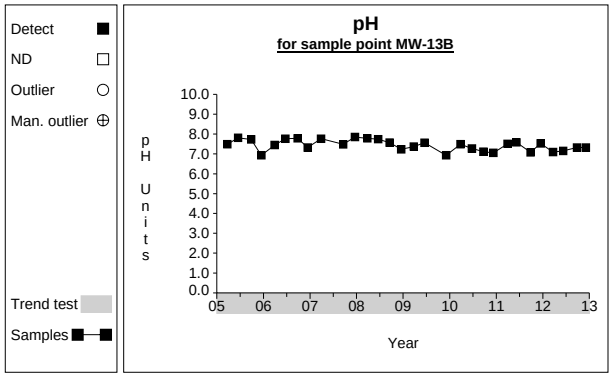
Graph 417



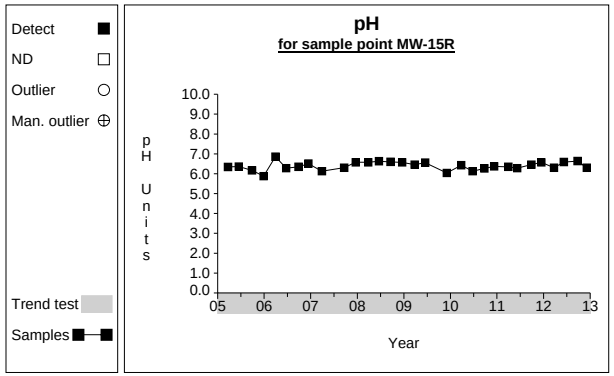
Graph 418



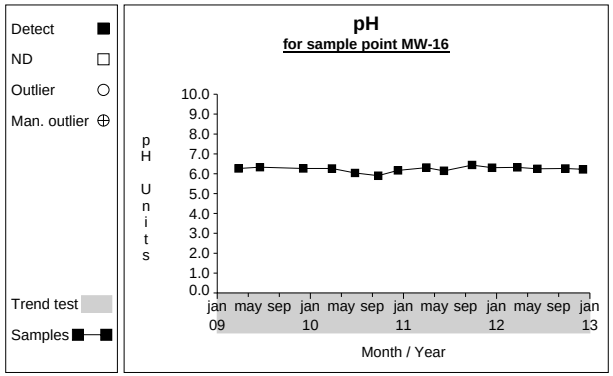
Graph 419



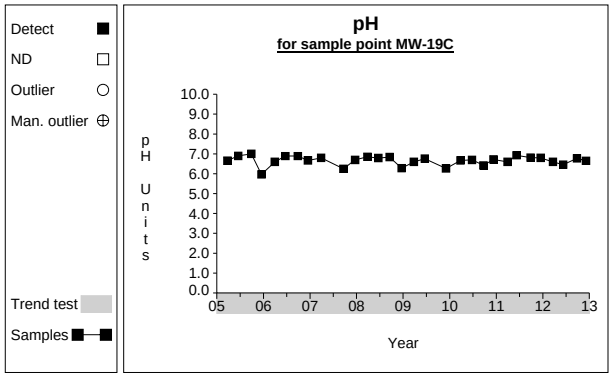
Graph 420



Graph 421

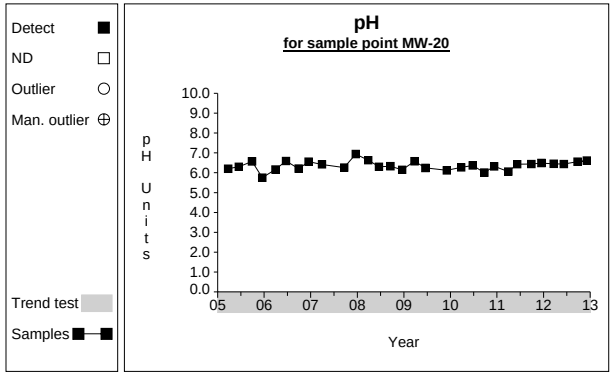


Graph 422

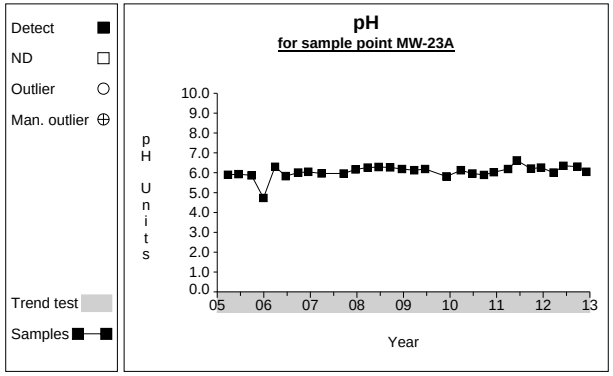


Graph 423

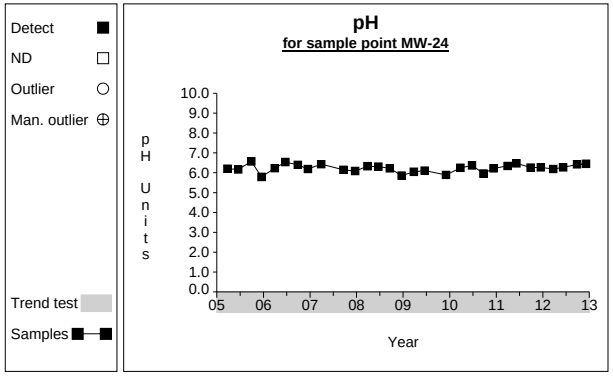
Time Series



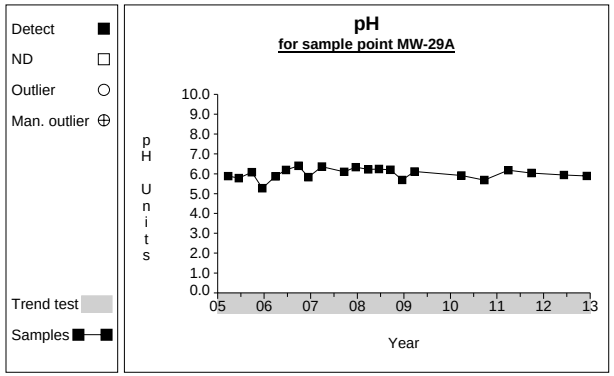
Graph 424



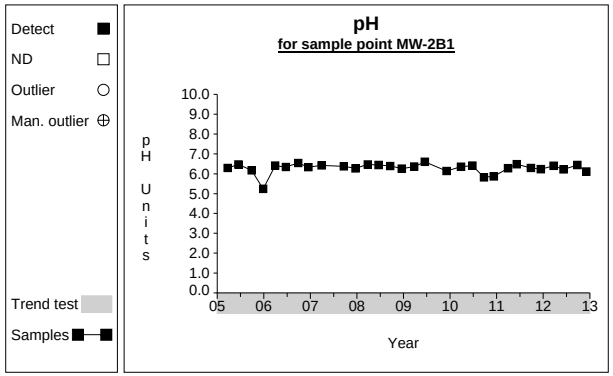
Graph 425



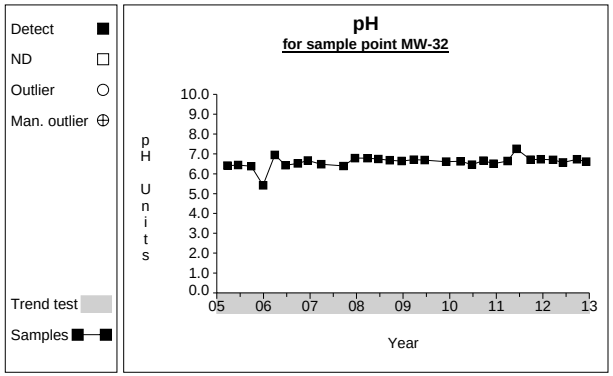
Graph 426



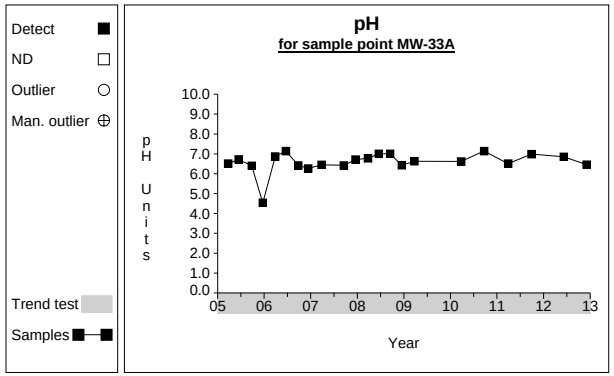
Graph 427



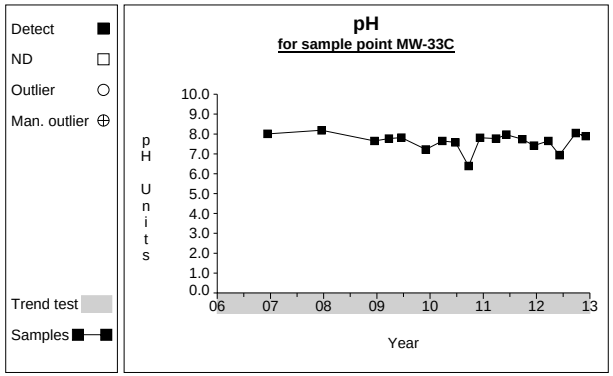
Graph 428



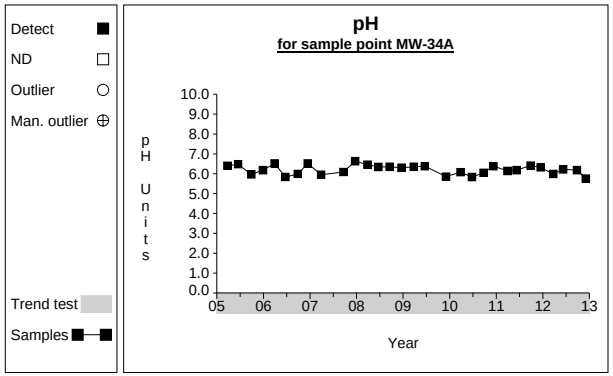
Graph 429



Graph 430

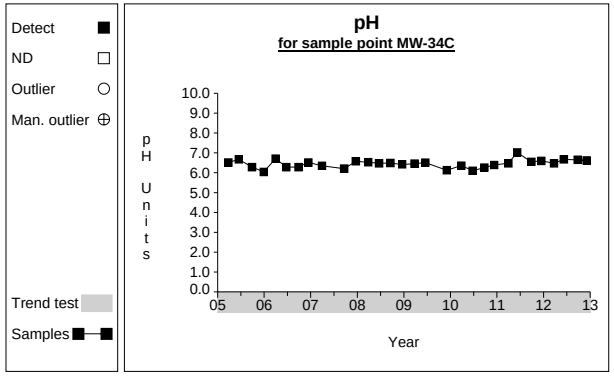


Graph 431

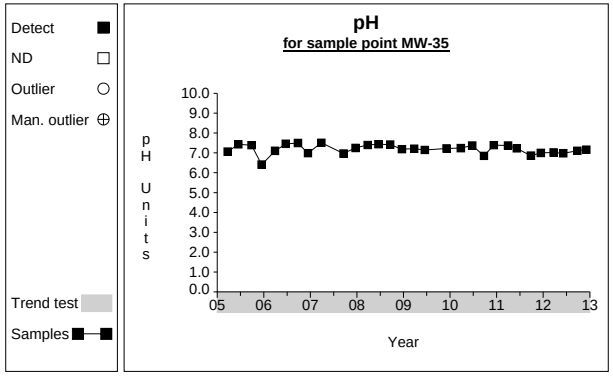


Graph 432

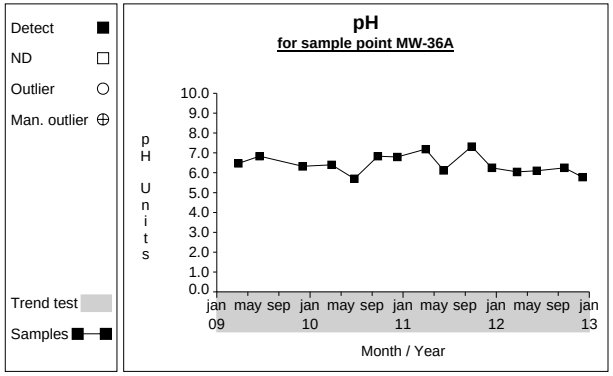
Time Series



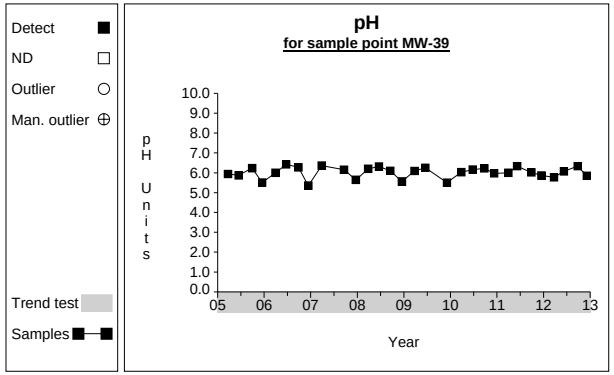
Graph 433



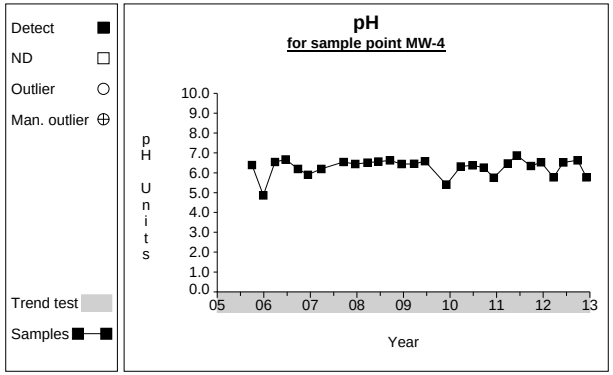
Graph 434



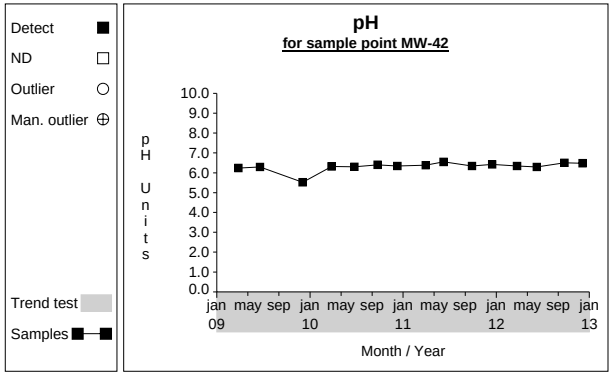
Graph 435



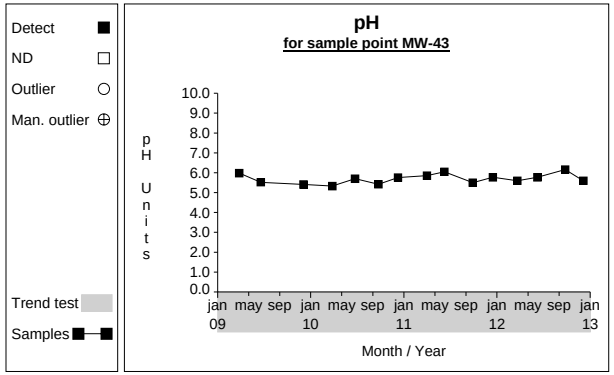
Graph 436



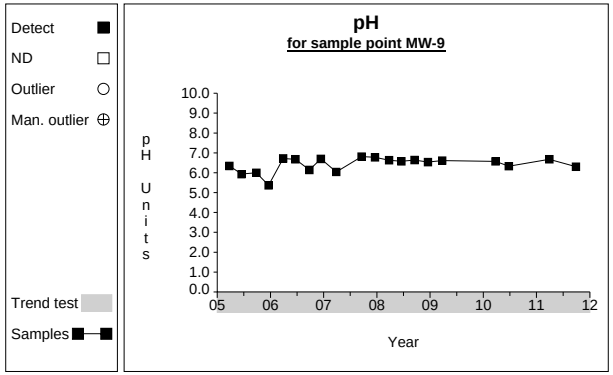
Graph 437



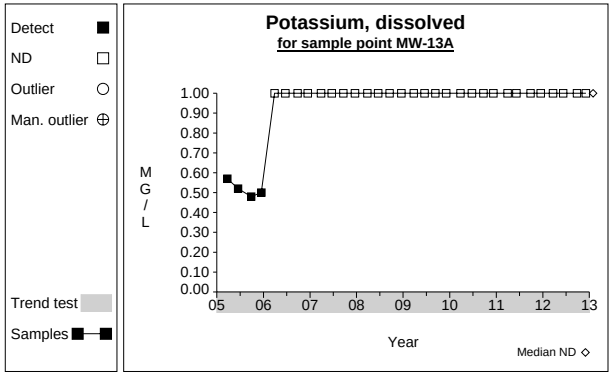
Graph 438



Graph 439

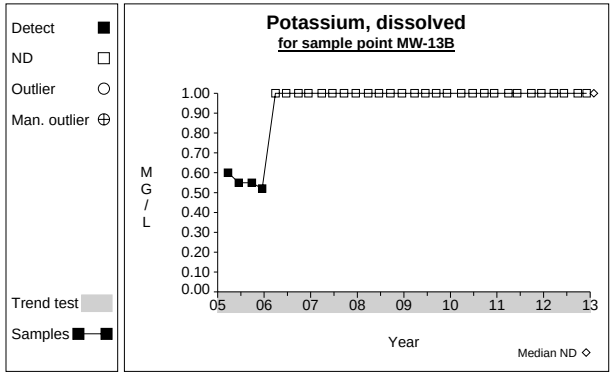


Graph 440

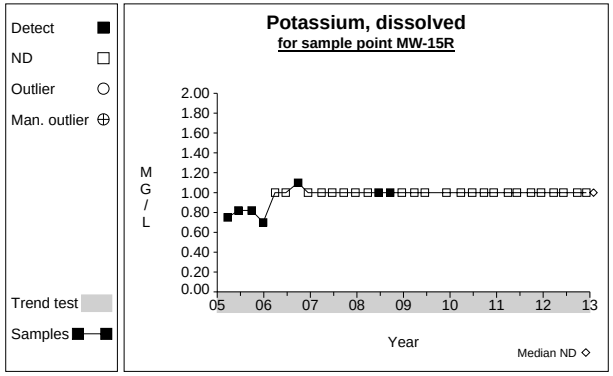


Graph 441

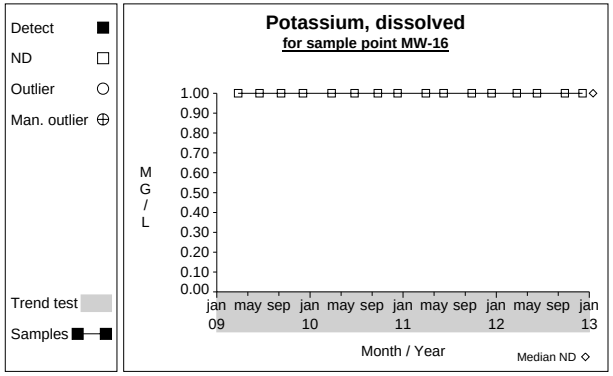
Time Series



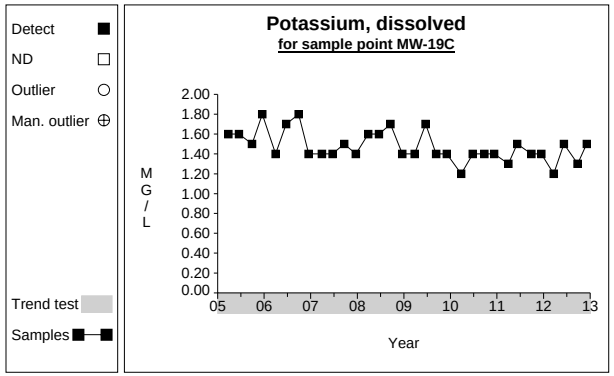
Graph 442



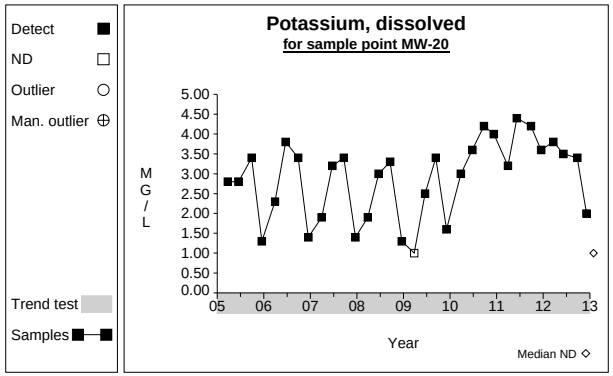
Graph 443



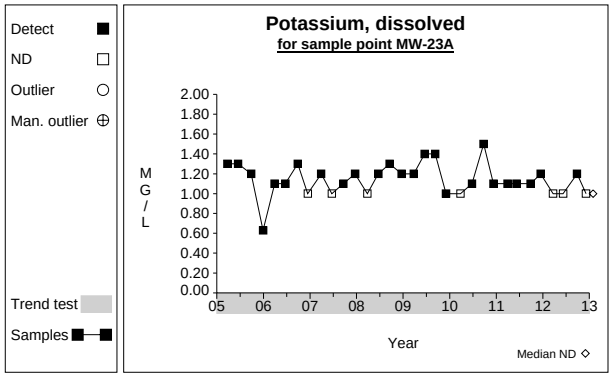
Graph 444



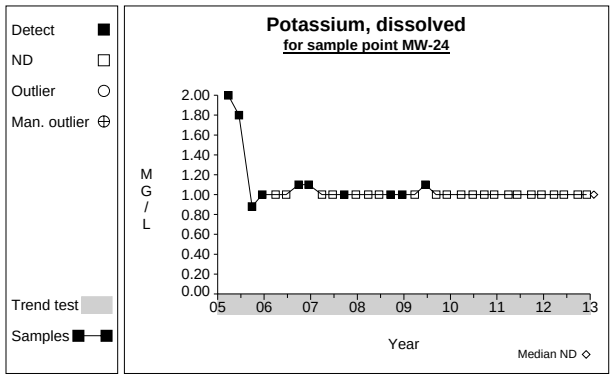
Graph 445



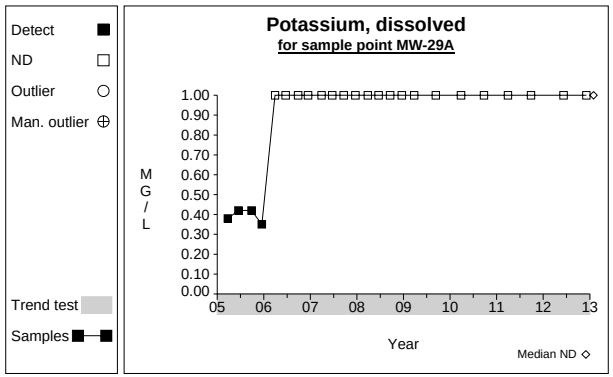
Graph 446



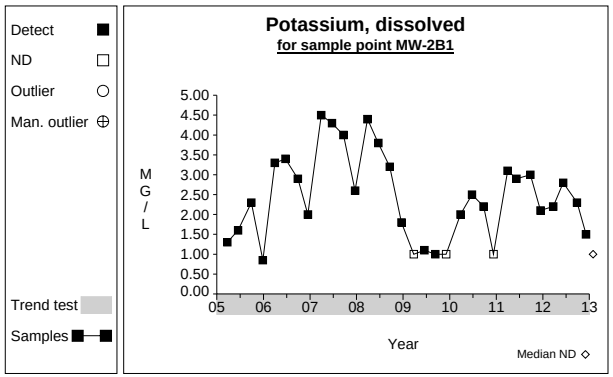
Graph 447



Graph 448

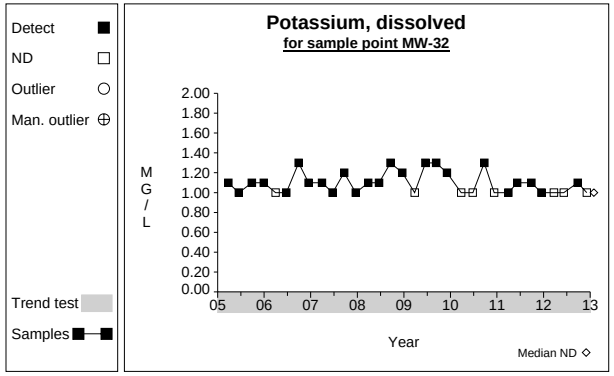


Graph 449

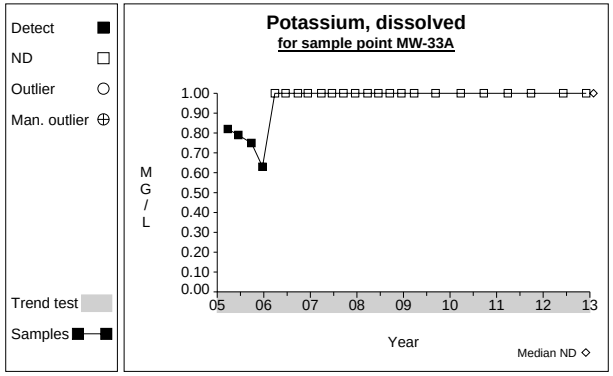


Graph 450

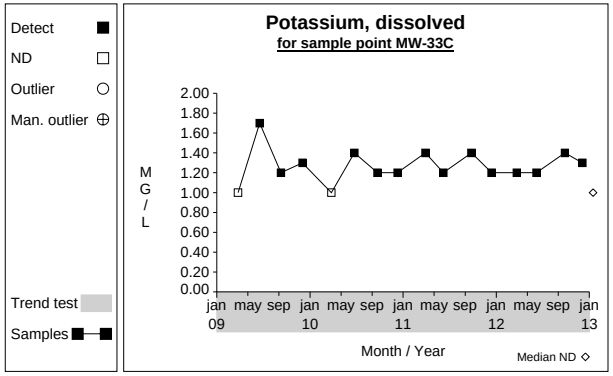
Time Series



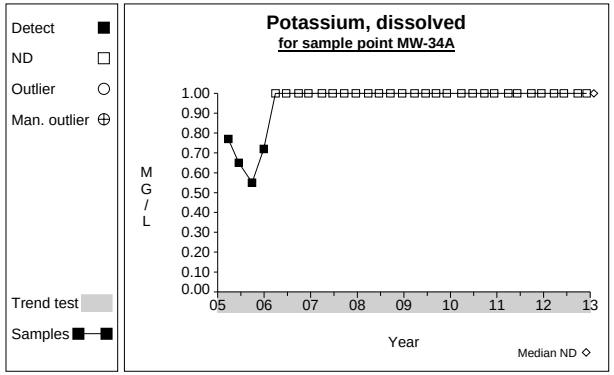
Graph 451



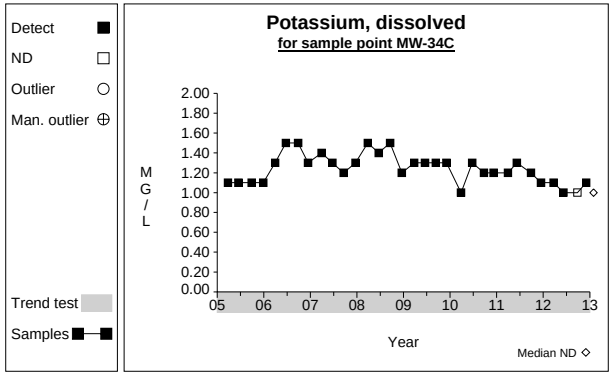
Graph 452



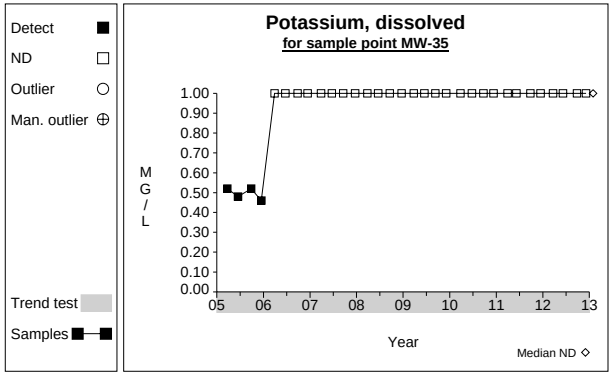
Graph 453



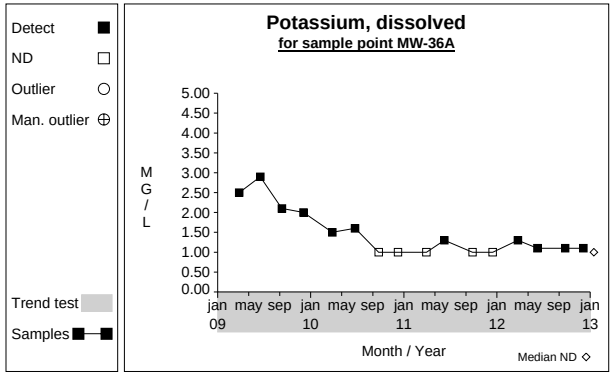
Graph 454



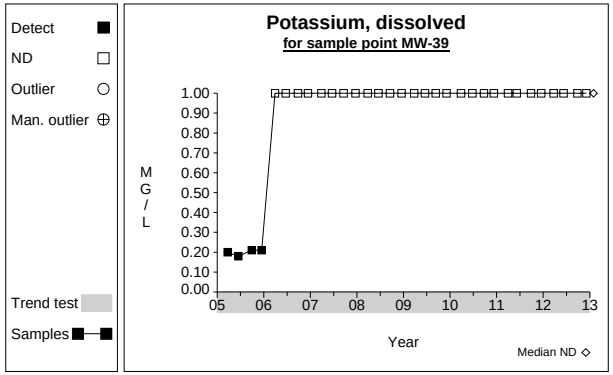
Graph 455



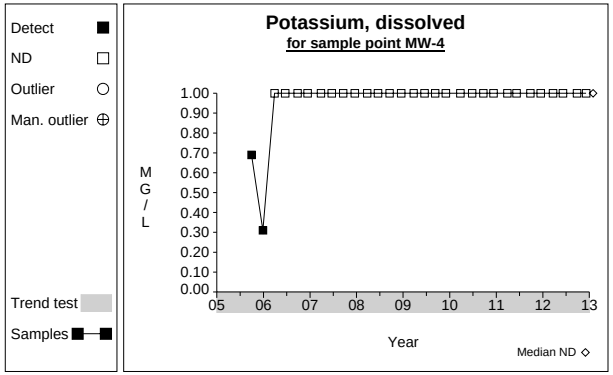
Graph 456



Graph 457

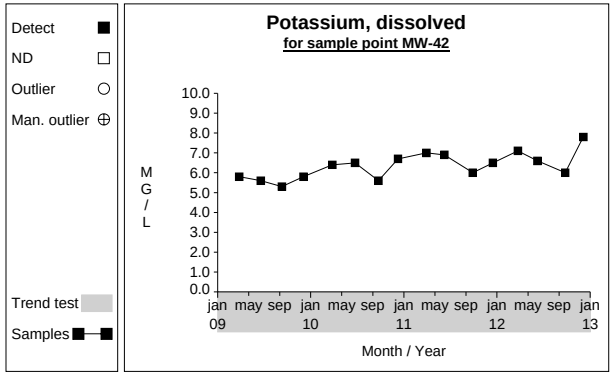


Graph 458

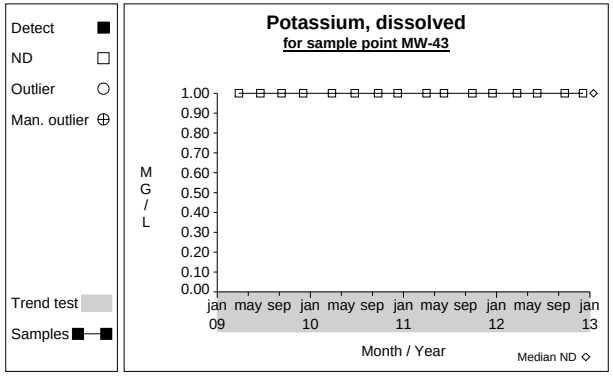


Graph 459

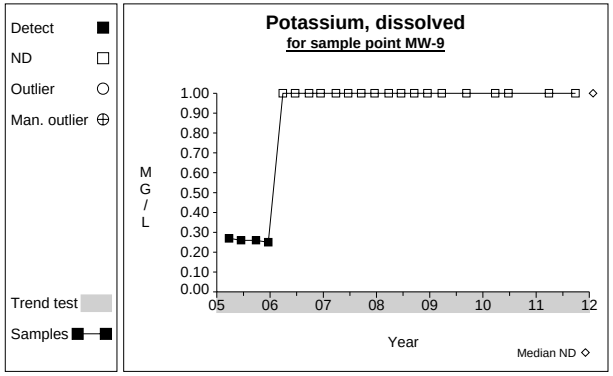
Time Series



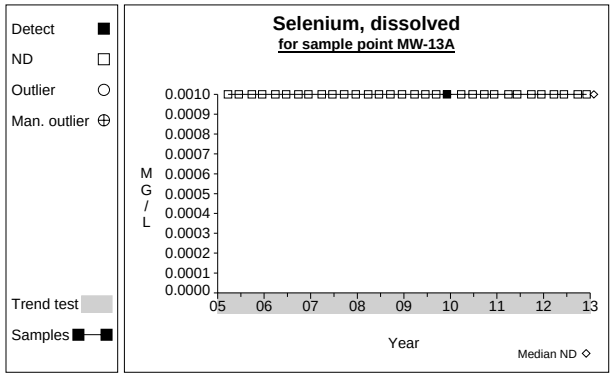
Graph 460



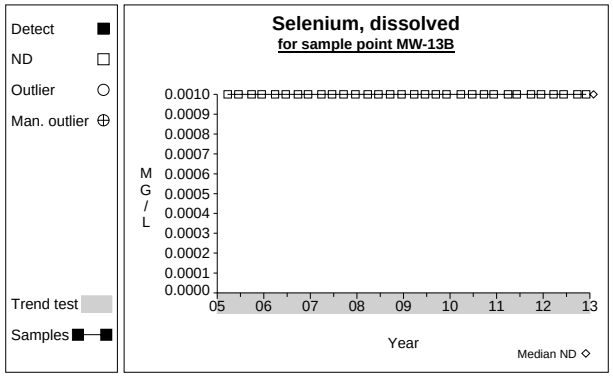
Graph 461



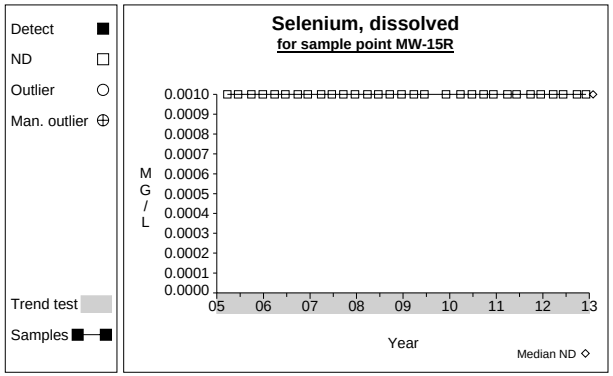
Graph 462



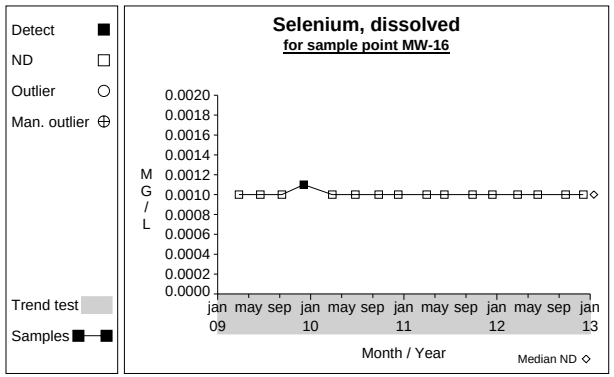
Graph 463



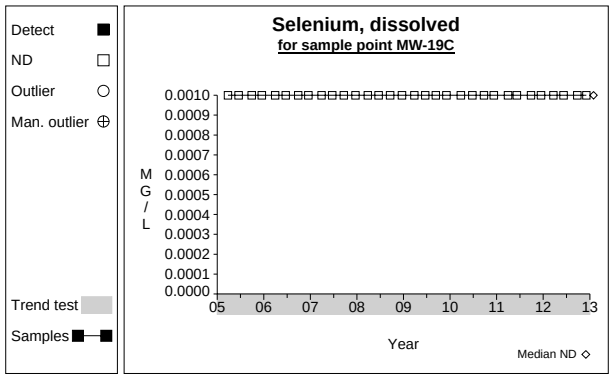
Graph 464



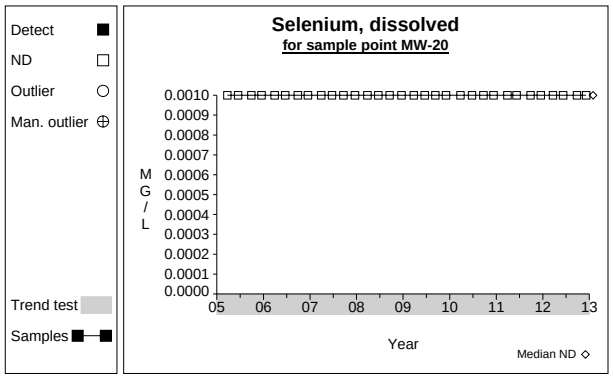
Graph 465



Graph 466

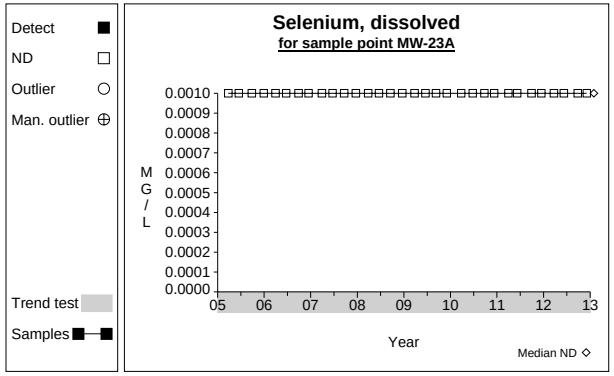


Graph 467

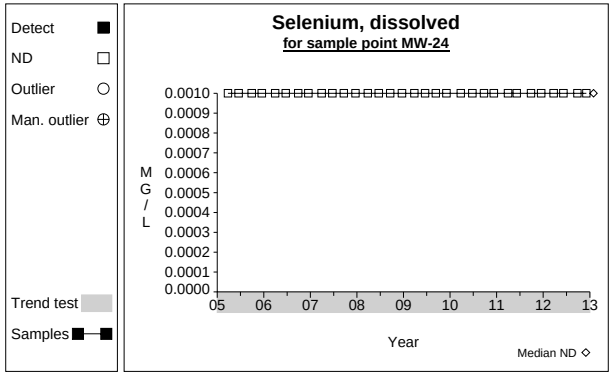


Graph 468

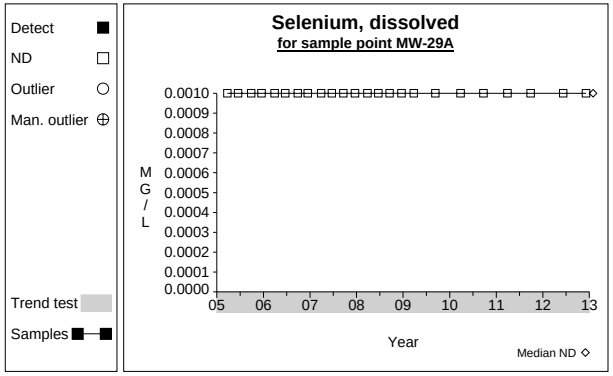
Time Series



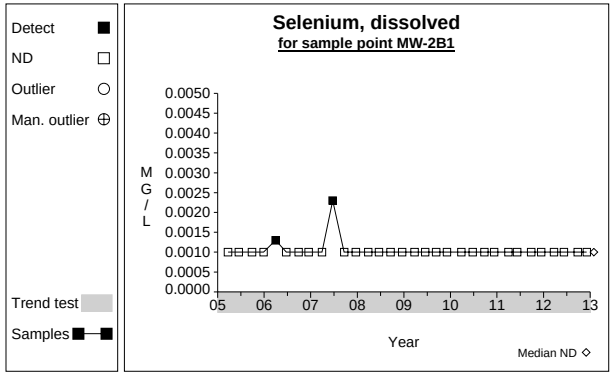
Graph 469



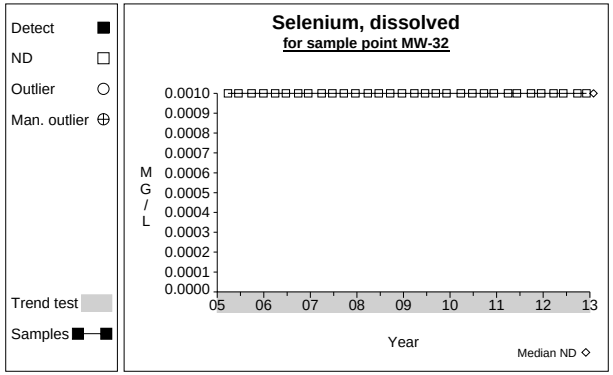
Graph 470



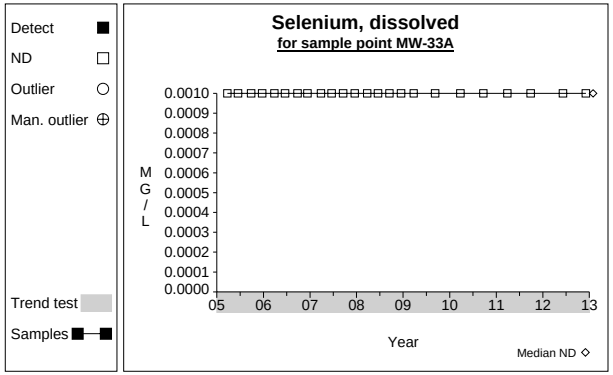
Graph 471



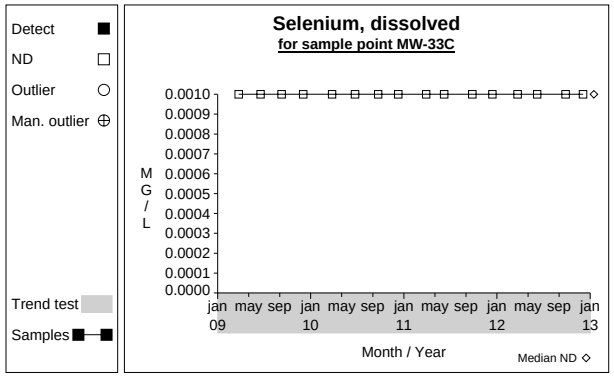
Graph 472



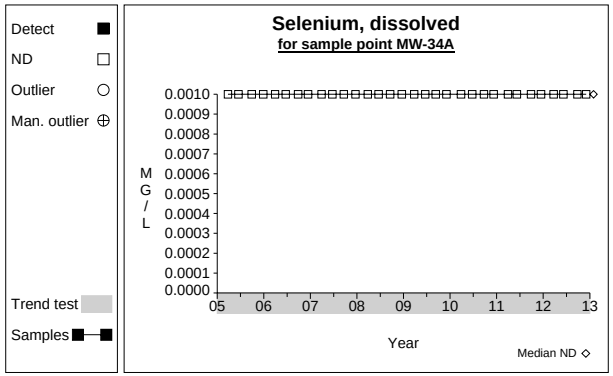
Graph 473



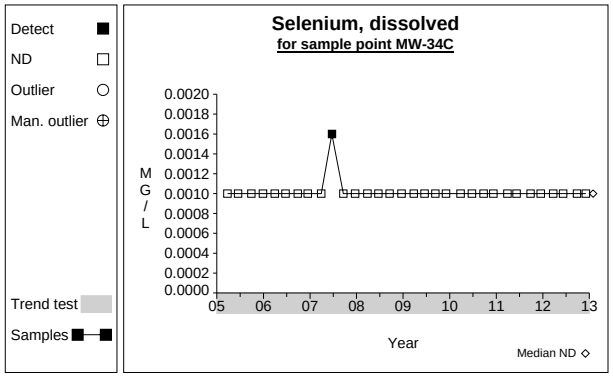
Graph 474



Graph 475

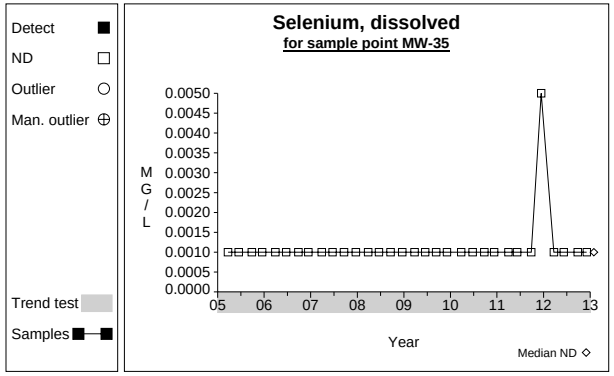


Graph 476

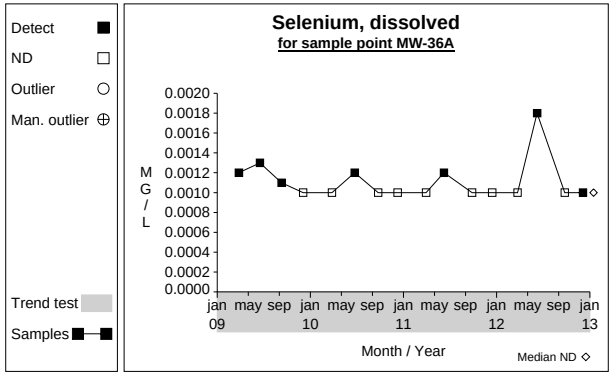


Graph 477

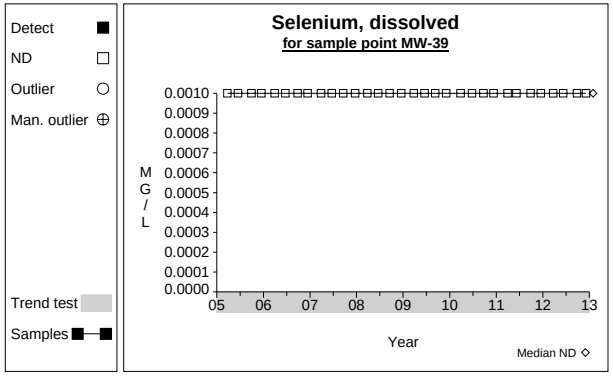
Time Series



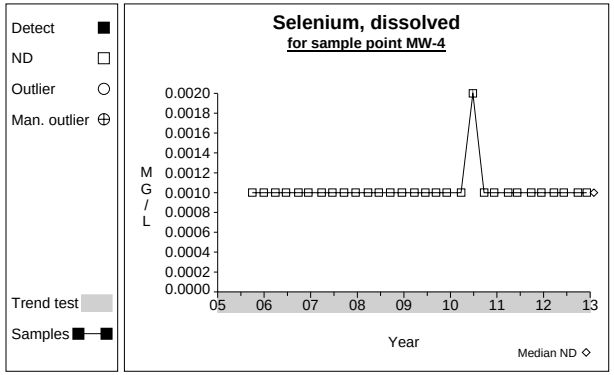
Graph 478



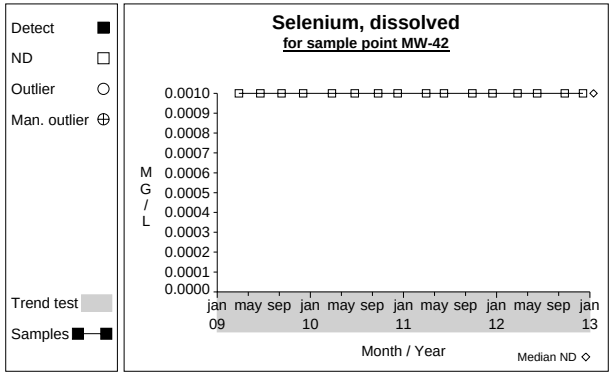
Graph 479



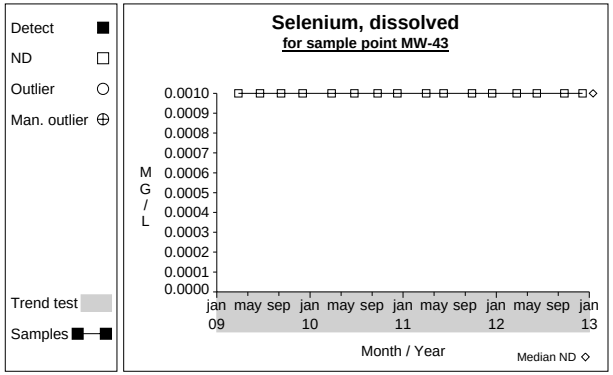
Graph 480



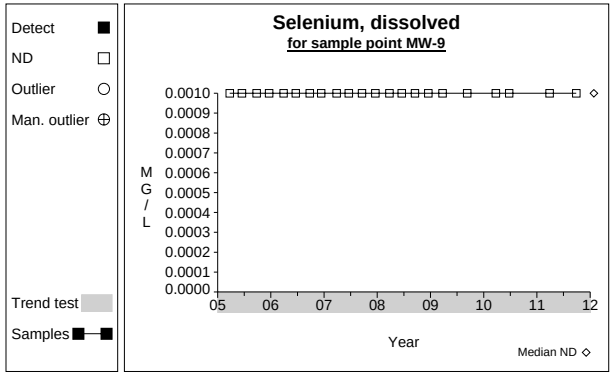
Graph 481



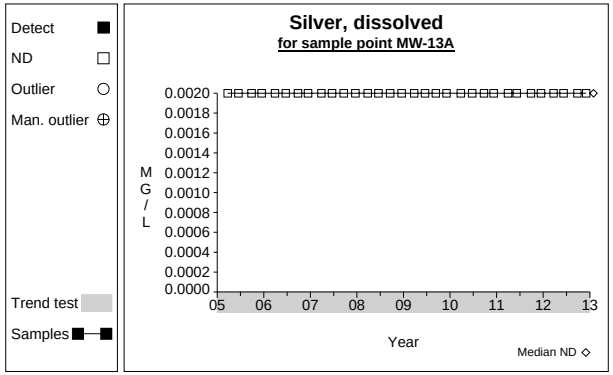
Graph 482



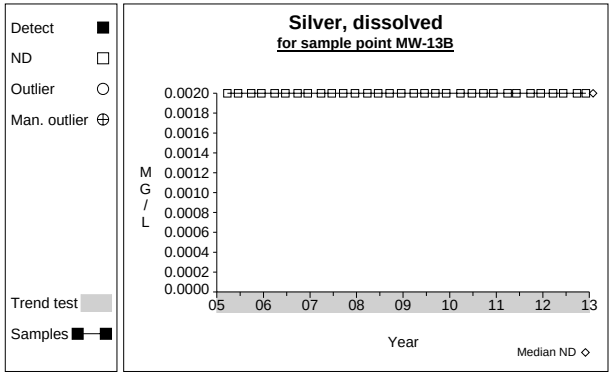
Graph 483



Graph 484

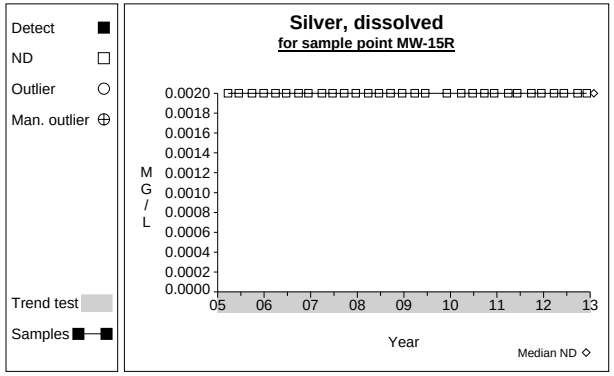


Graph 485

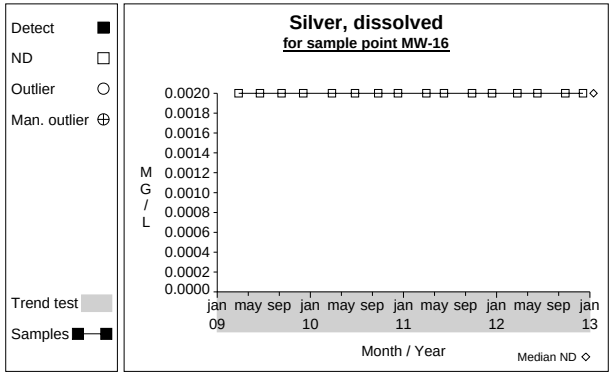


Graph 486

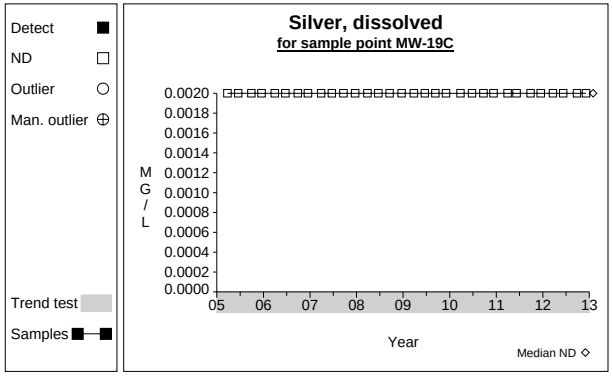
Time Series



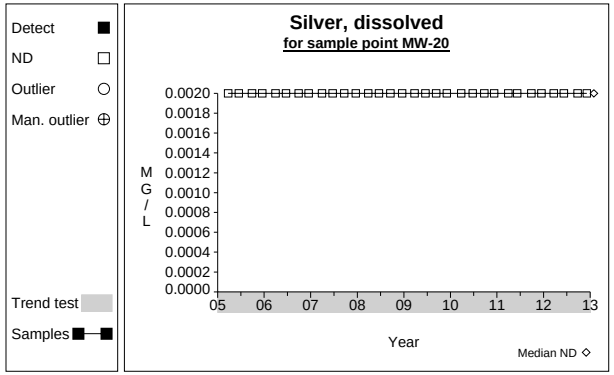
Graph 487



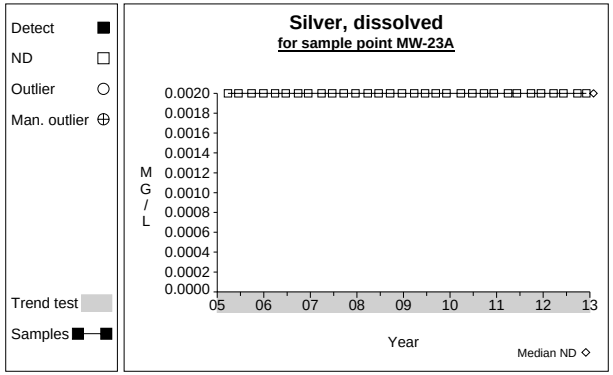
Graph 488



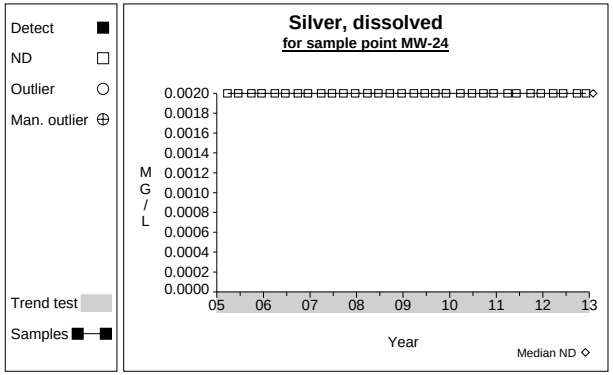
Graph 489



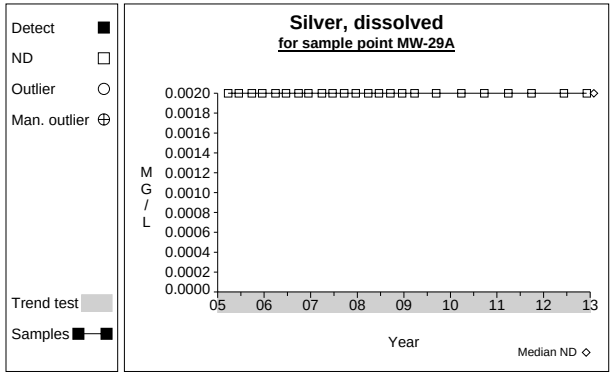
Graph 490



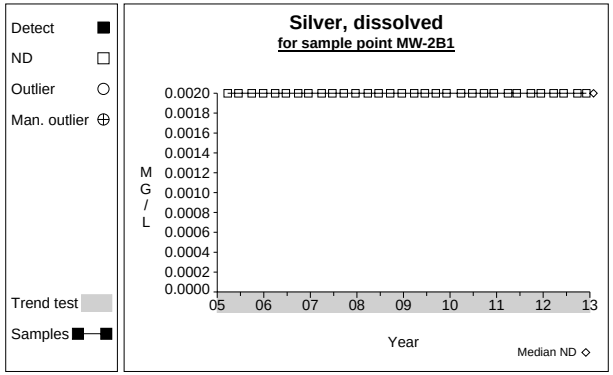
Graph 491



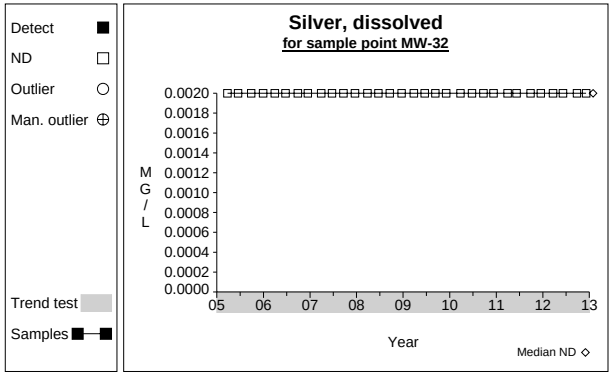
Graph 492



Graph 493

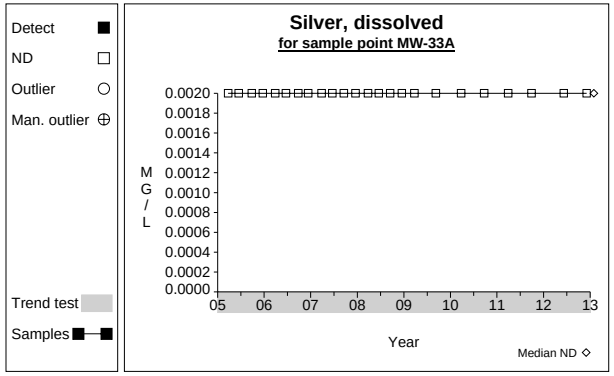


Graph 494

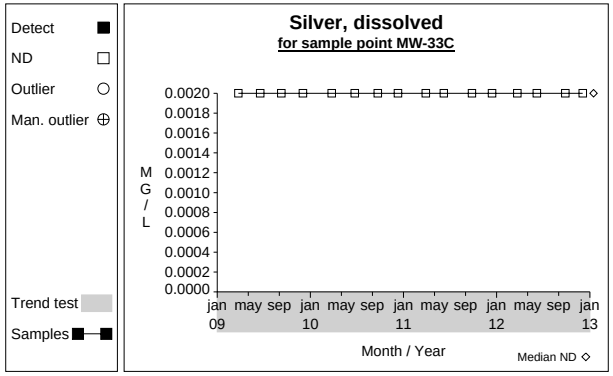


Graph 495

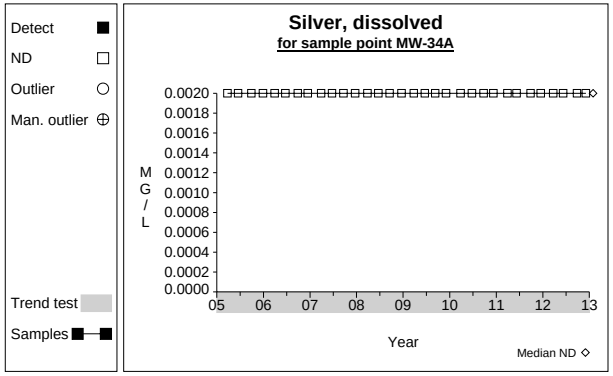
Time Series



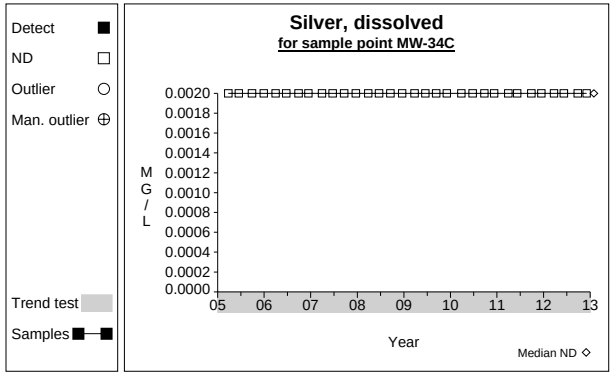
Graph 496



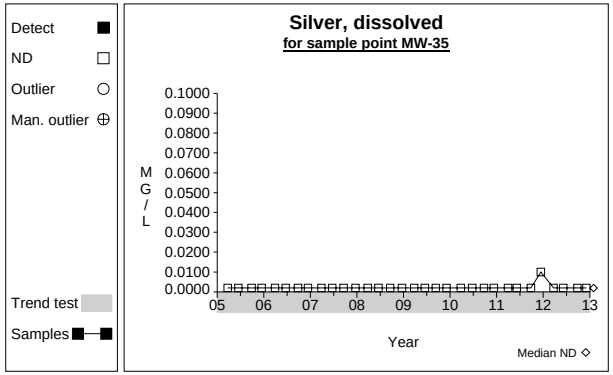
Graph 497



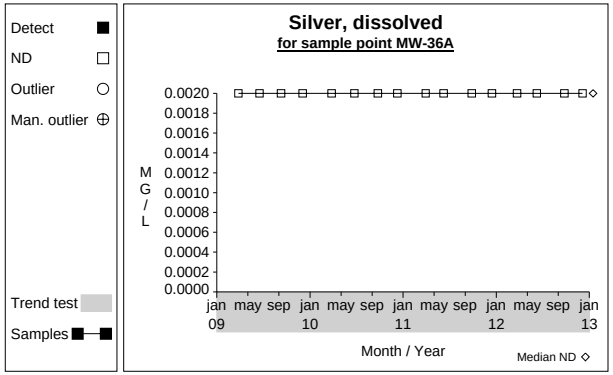
Graph 498



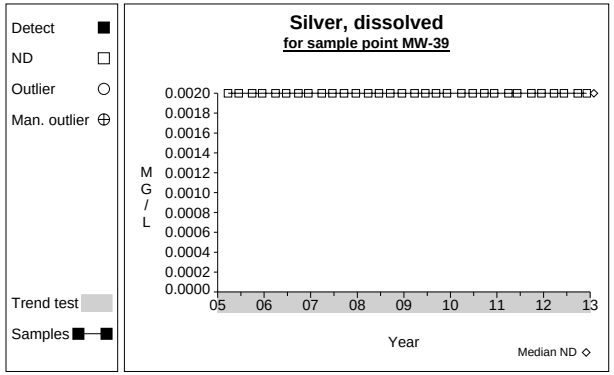
Graph 499



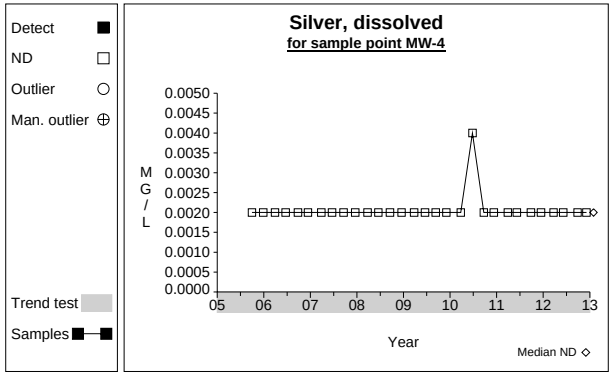
Graph 500



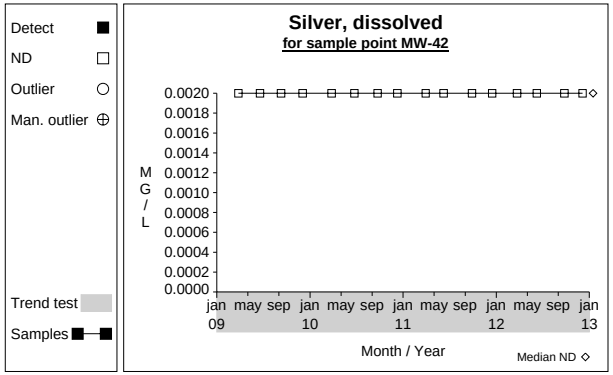
Graph 501



Graph 502

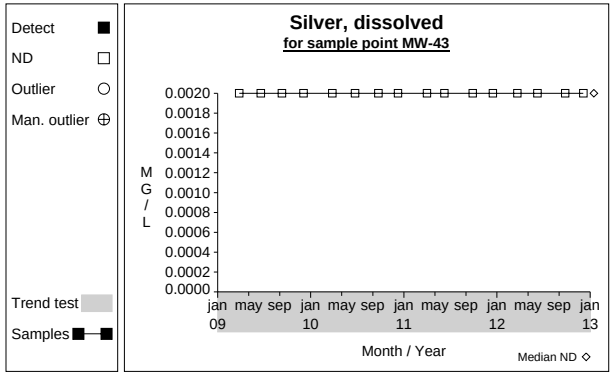


Graph 503

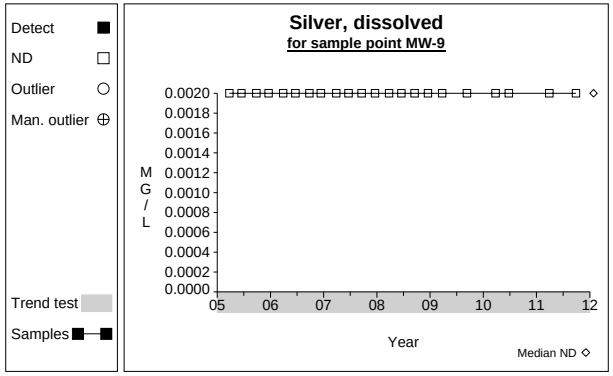


Graph 504

Time Series



Graph 505



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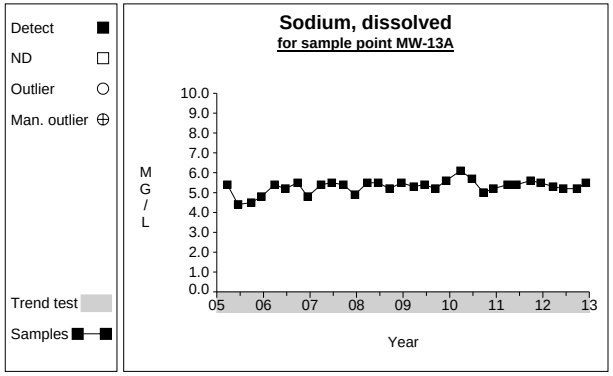
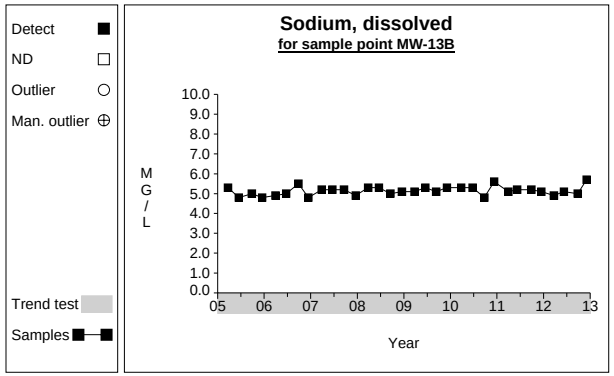
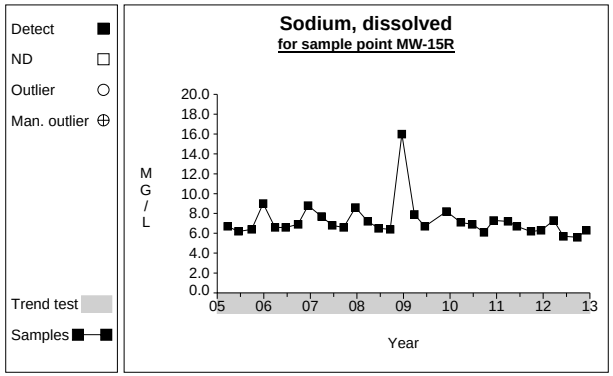


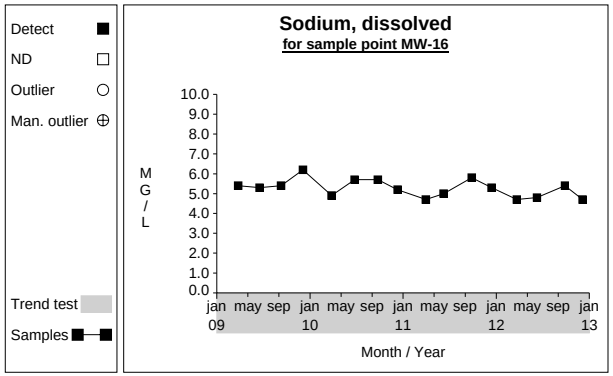
Graph 507



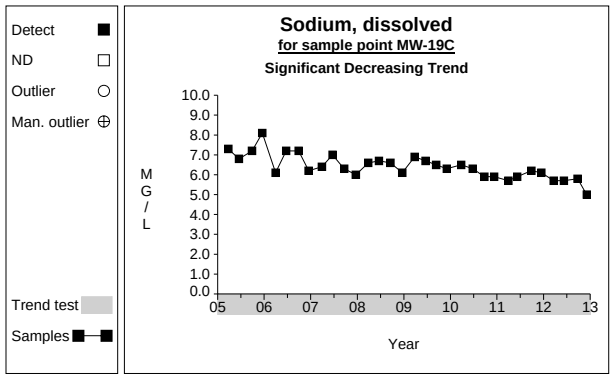
Graph 508



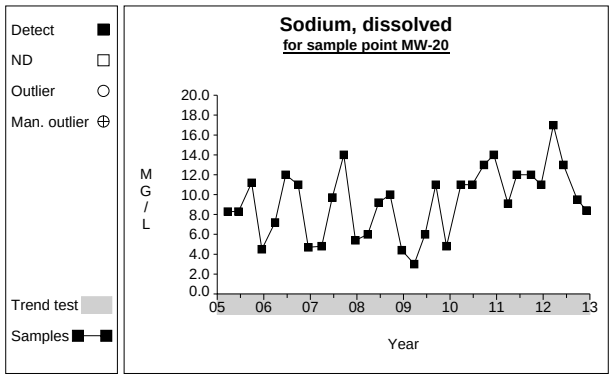
Graph 509



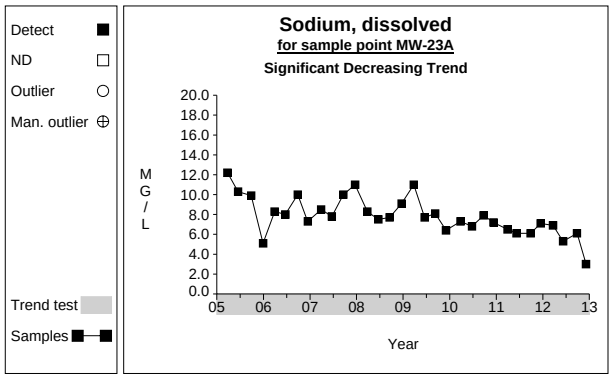
Graph 510



Graph 511

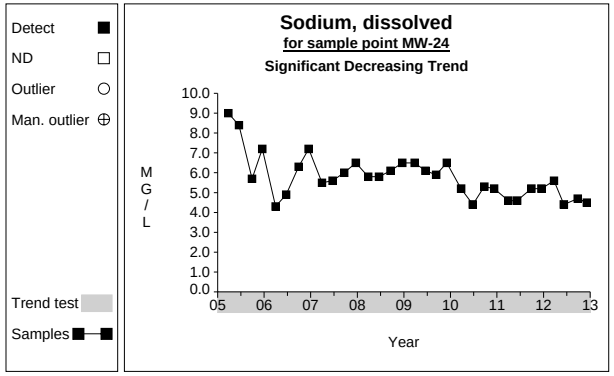


Graph 512

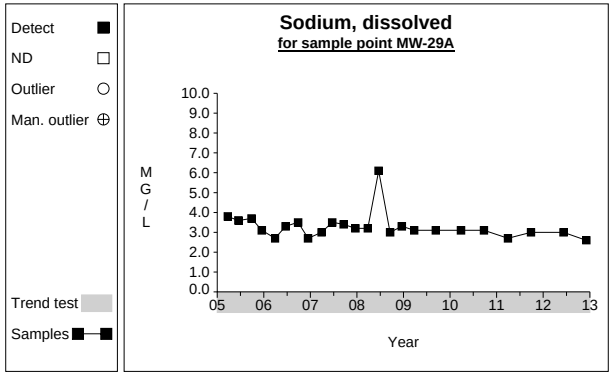


Graph 513

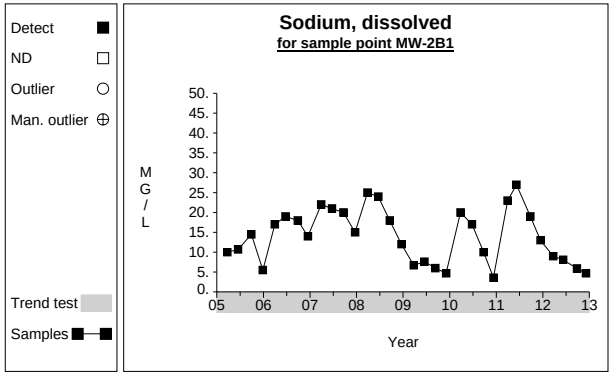
Time Series



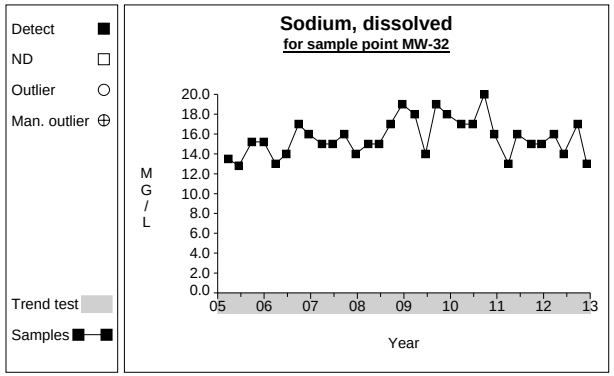
Graph 514



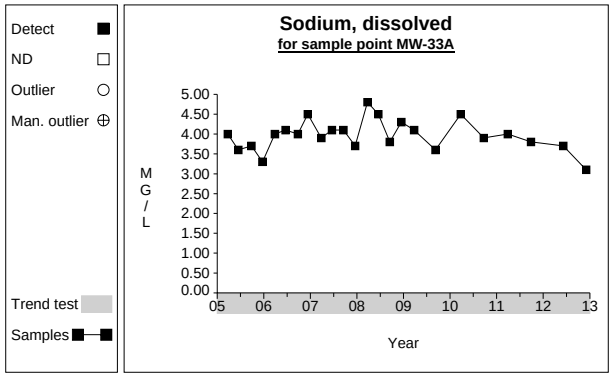
Graph 515



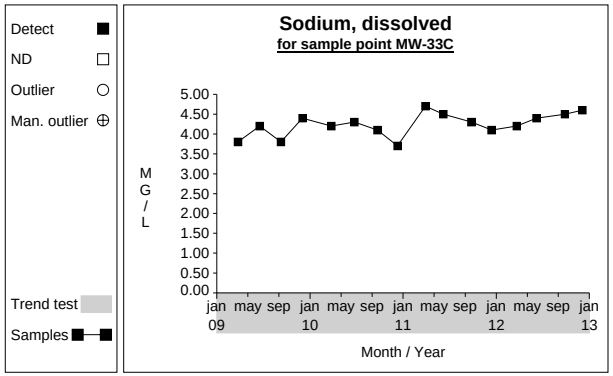
Graph 516



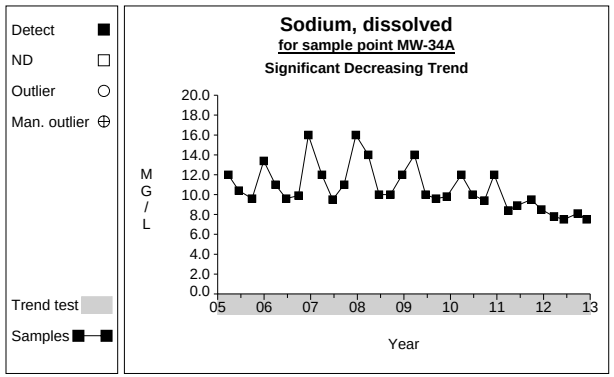
Graph 517



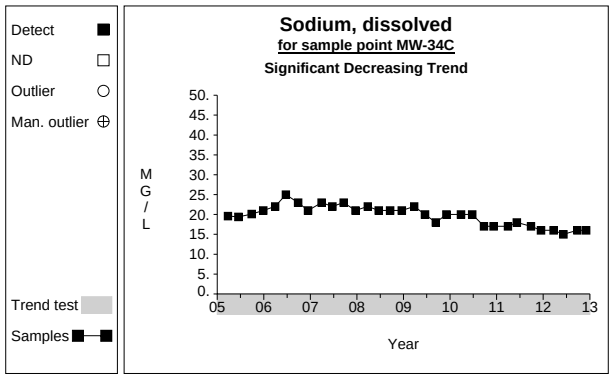
Graph 518



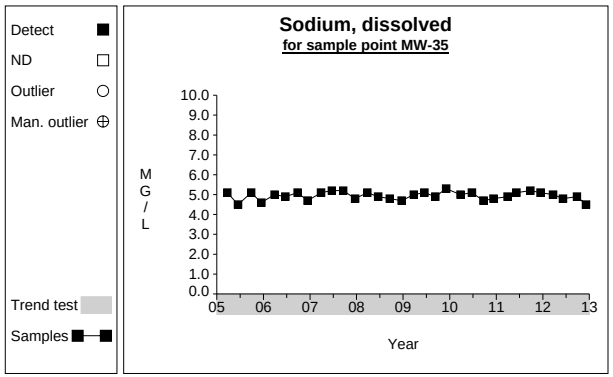
Graph 519



Graph 520

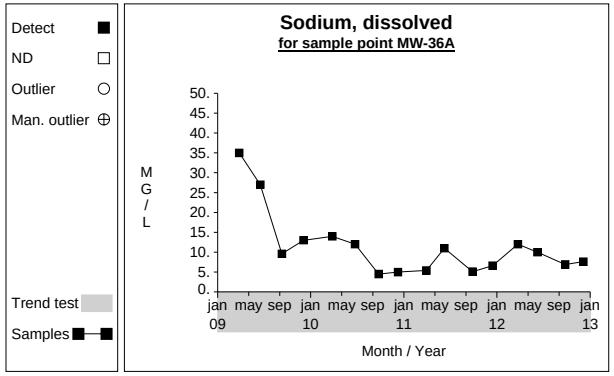


Graph 521

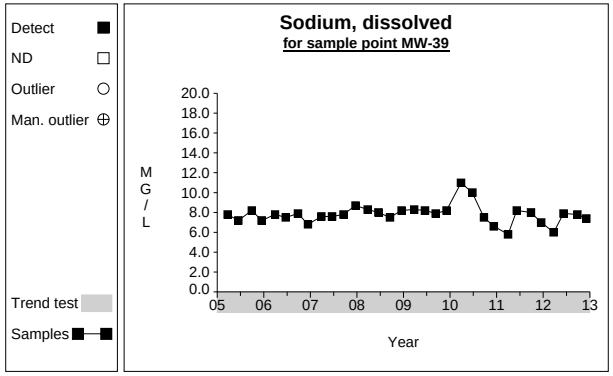


Graph 522

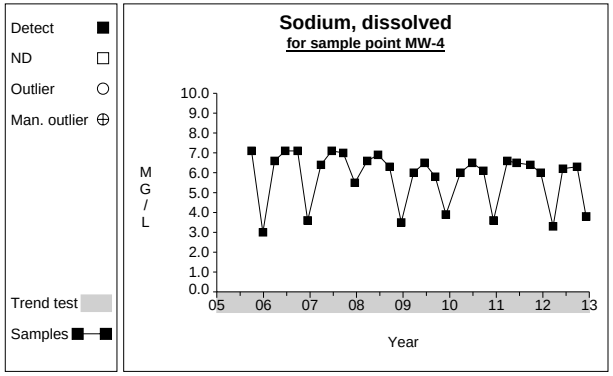
Time Series



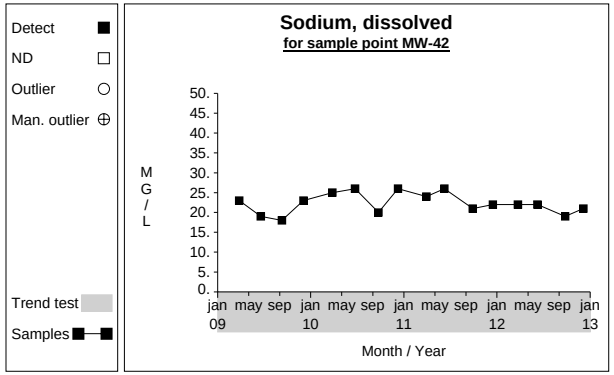
Graph 523



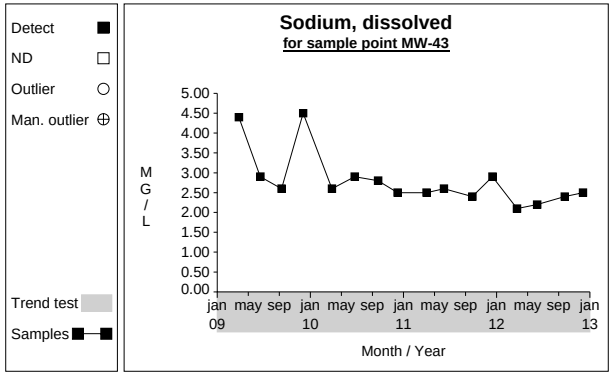
Graph 524



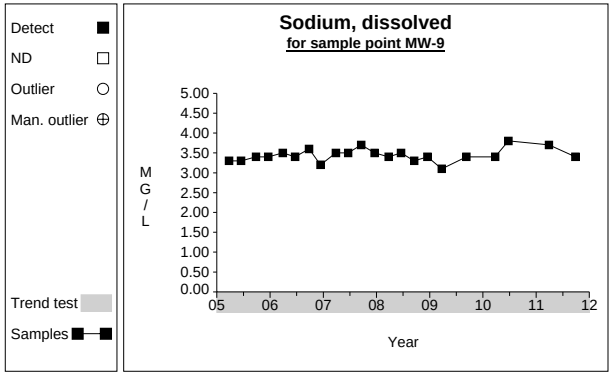
Graph 525



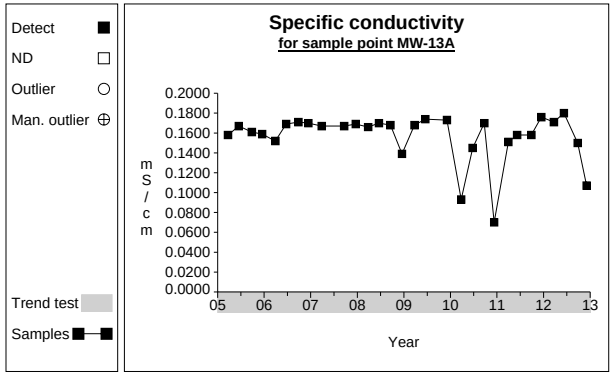
Graph 526



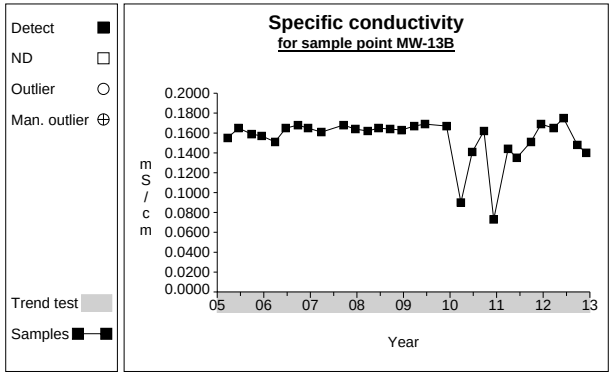
Graph 527



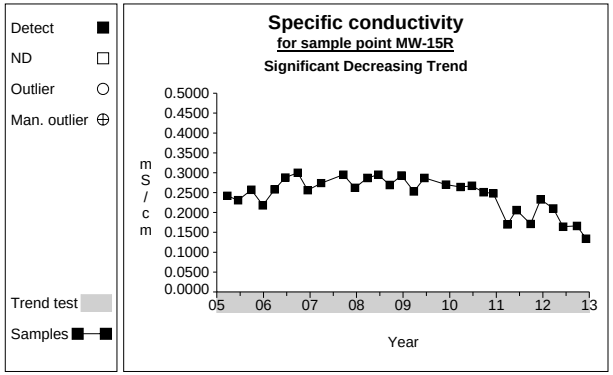
Graph 528



Graph 529

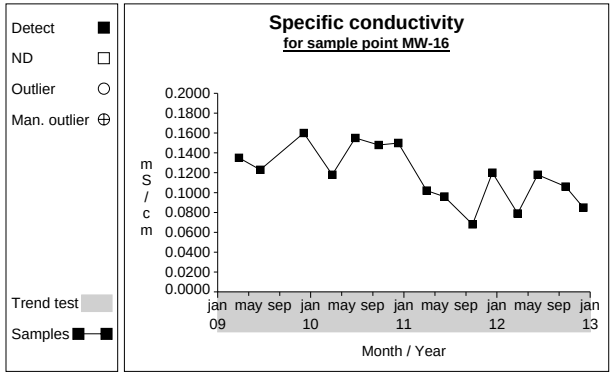


Graph 530

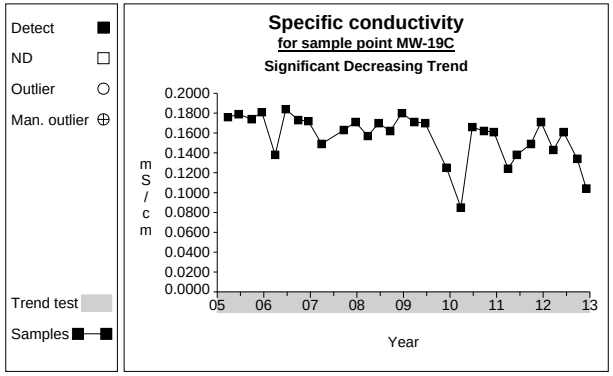


Graph 531

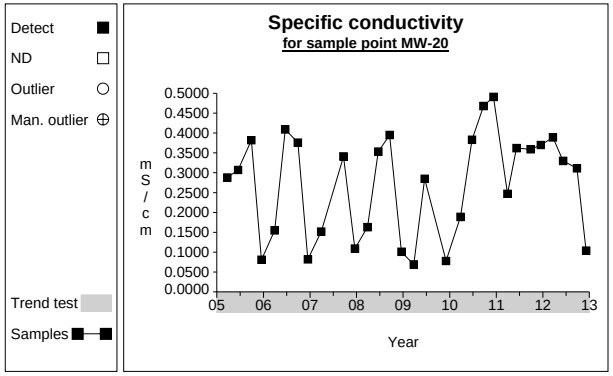
Time Series



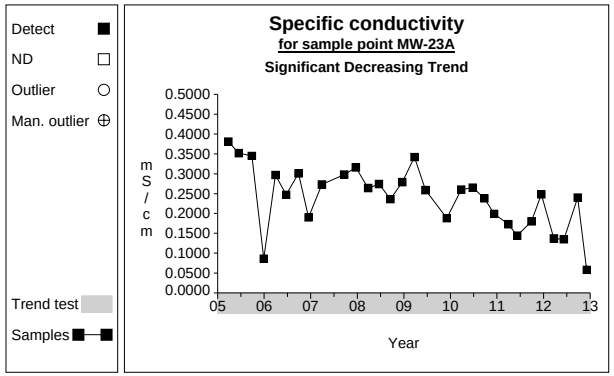
Graph 532



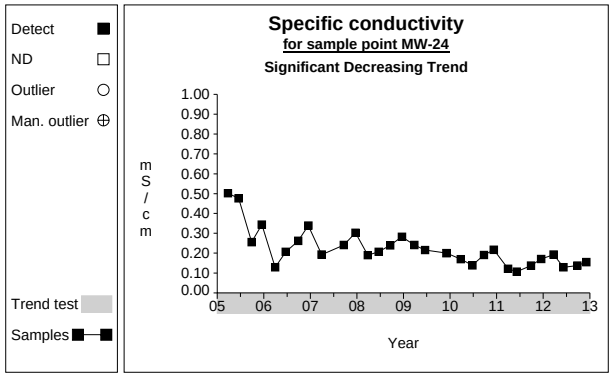
Graph 533



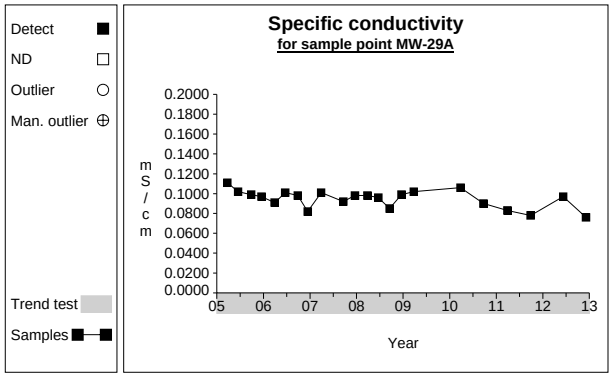
Graph 534



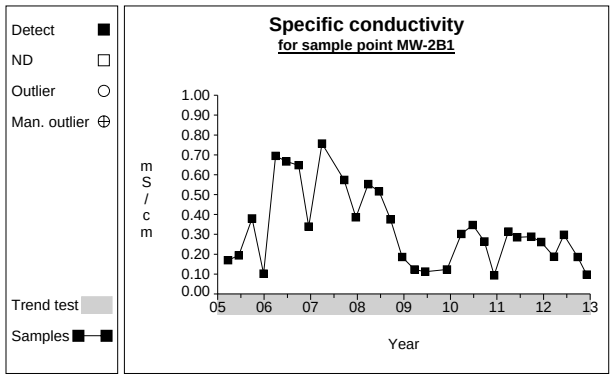
Graph 535



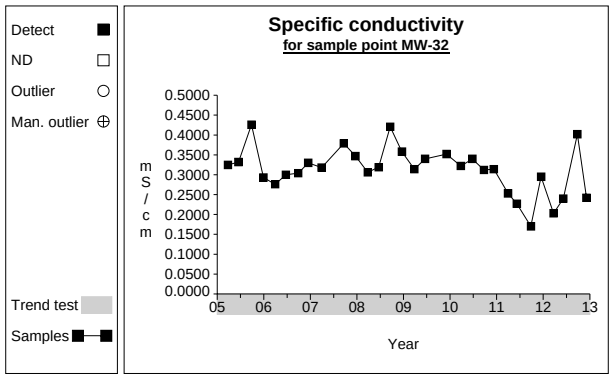
Graph 536



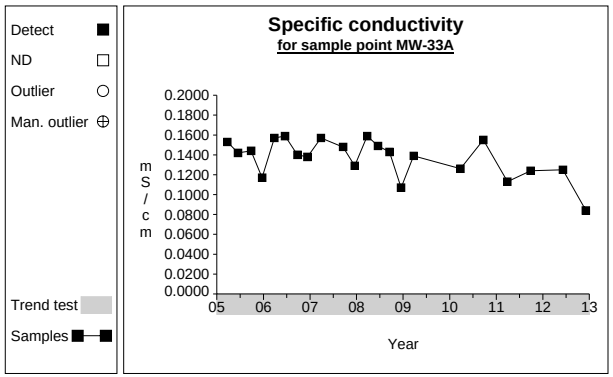
Graph 537



Graph 538

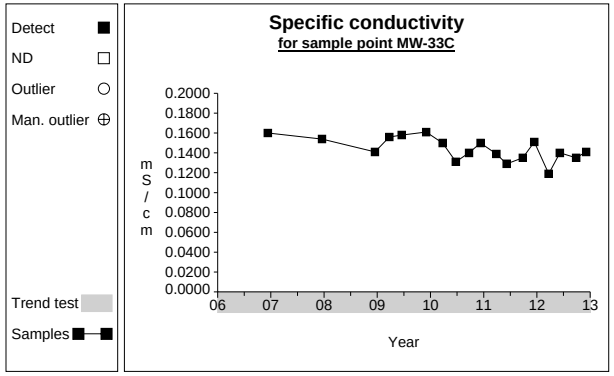


Graph 539

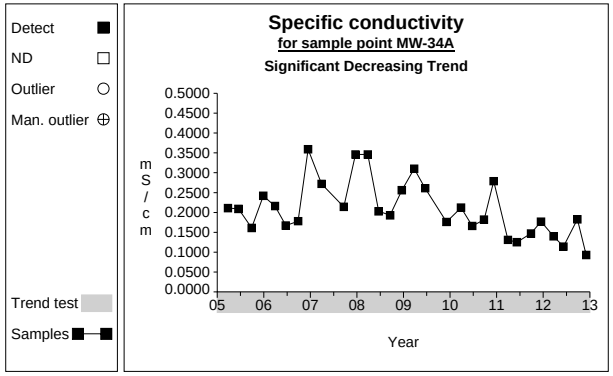


Graph 540

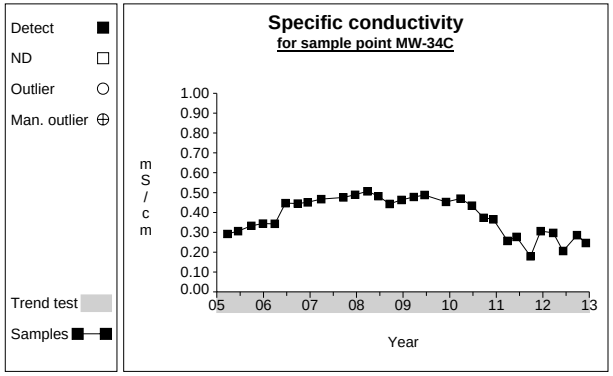
Time Series



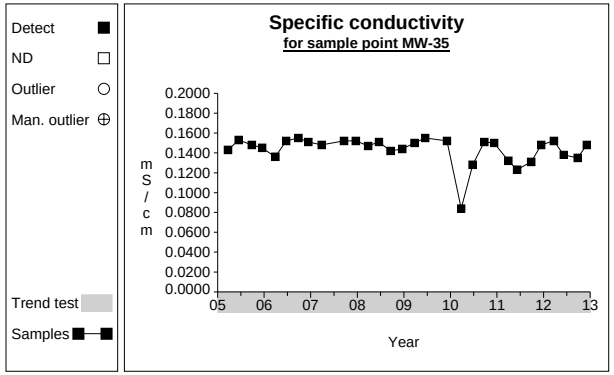
Graph 541



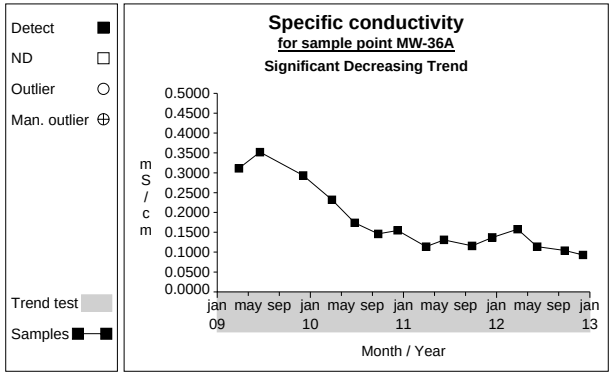
Graph 542



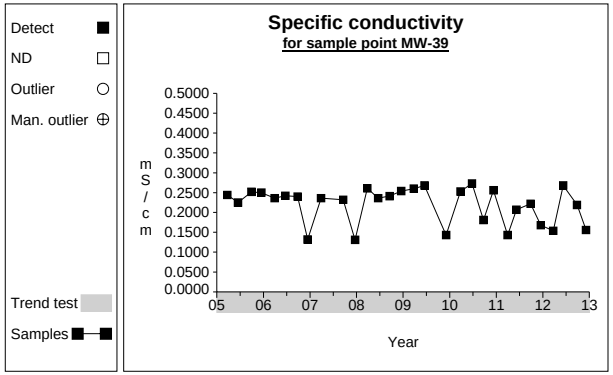
Graph 543



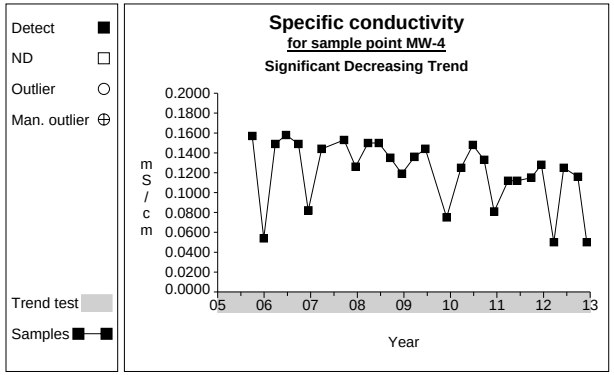
Graph 544



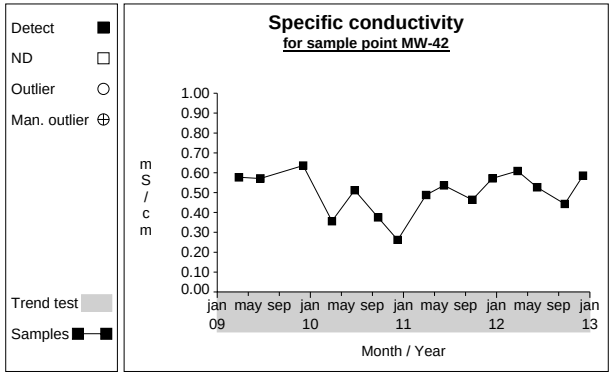
Graph 545



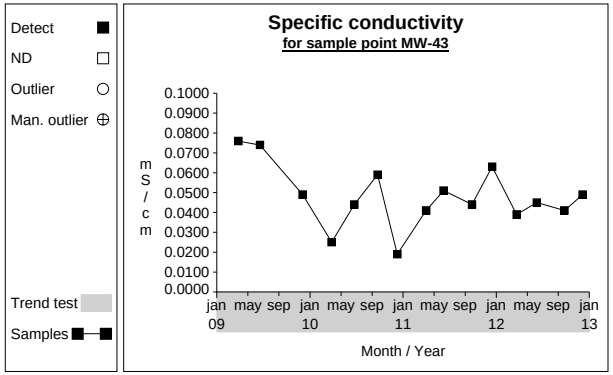
Graph 546



Graph 547

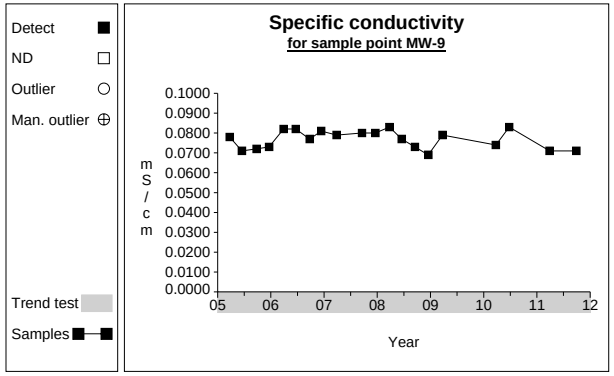


Graph 548

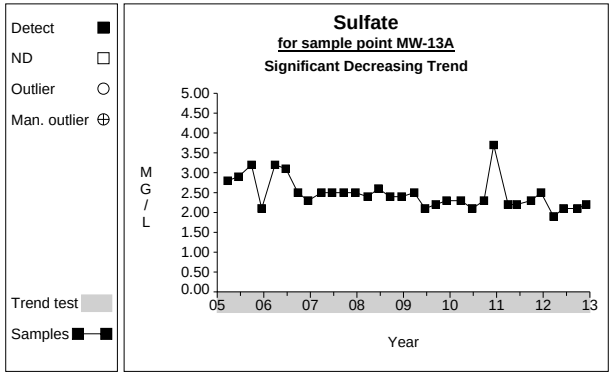


Graph 549

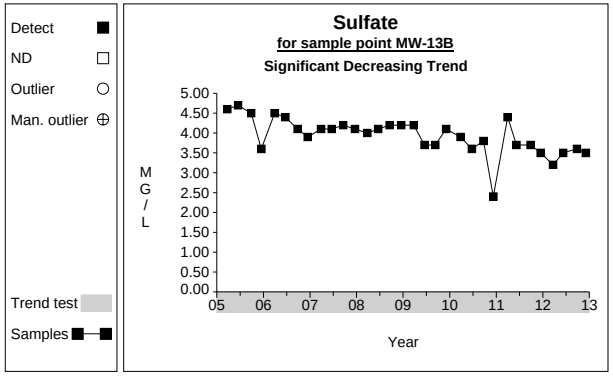
Time Series



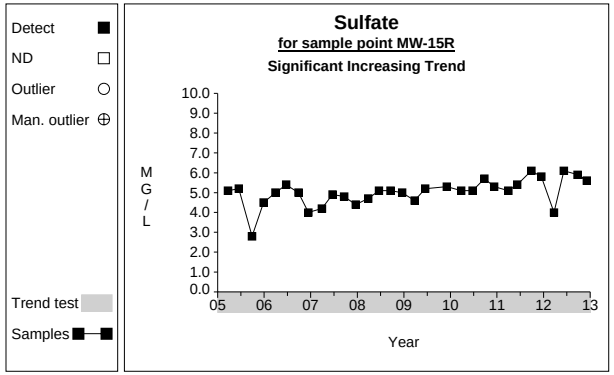
Graph 550



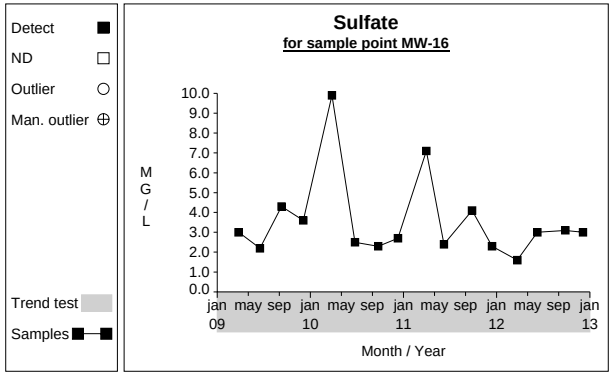
Graph 551



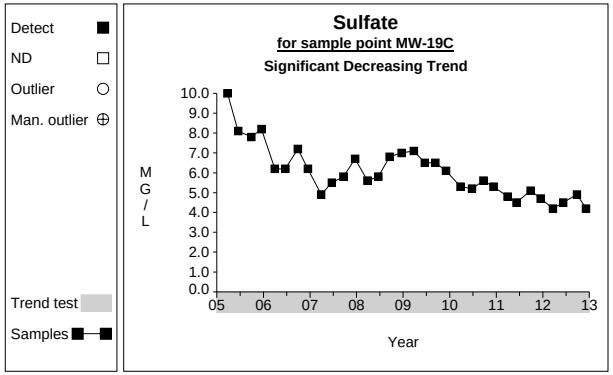
Graph 552



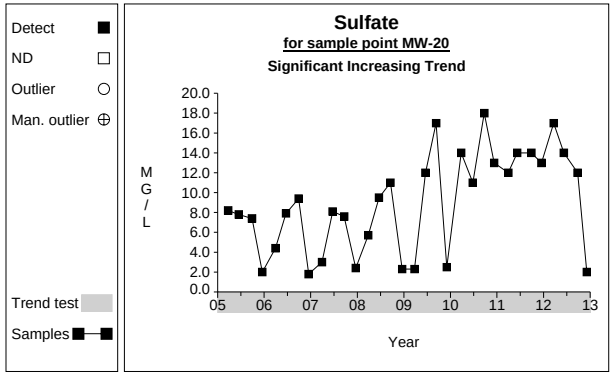
Graph 553



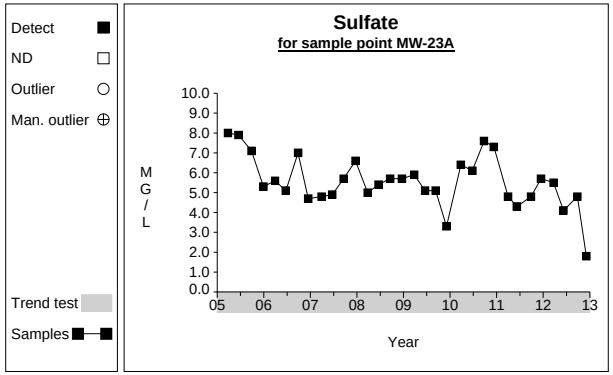
Graph 554



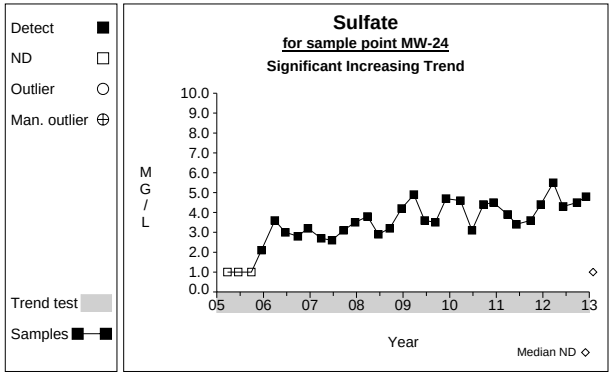
Graph 555



Graph 556

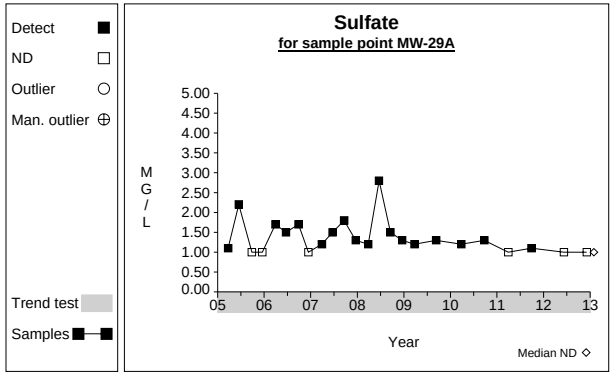


Graph 557

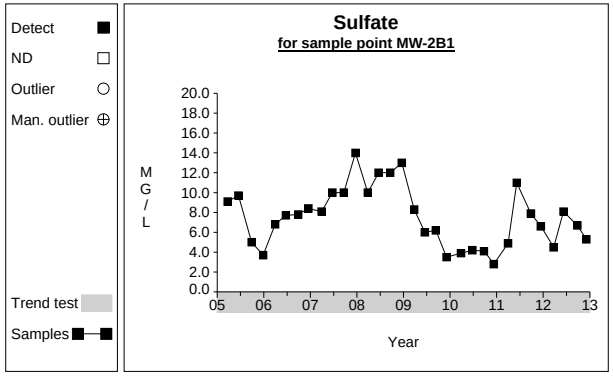


Graph 558

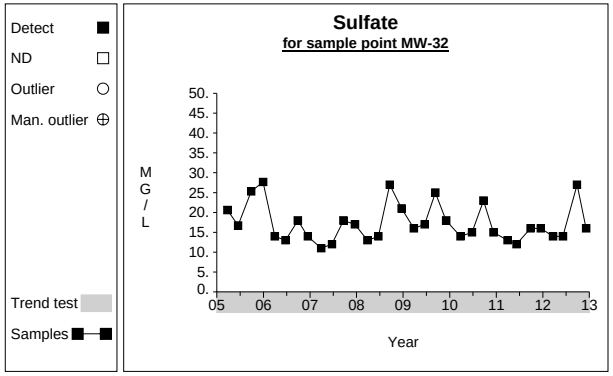
Time Series



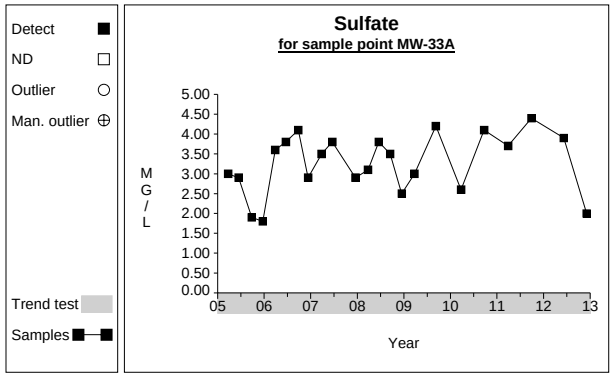
Graph 559



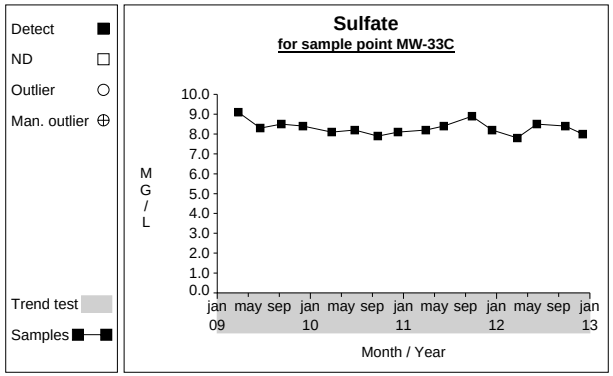
Graph 560



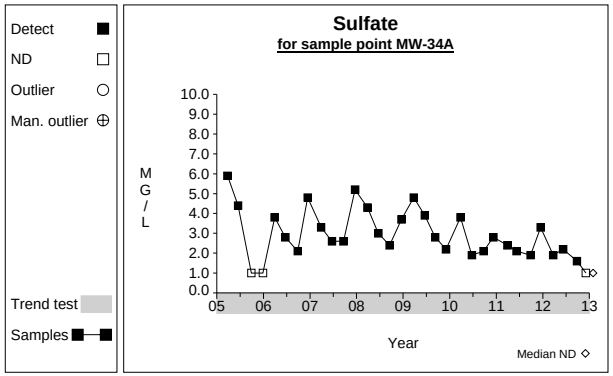
Graph 561



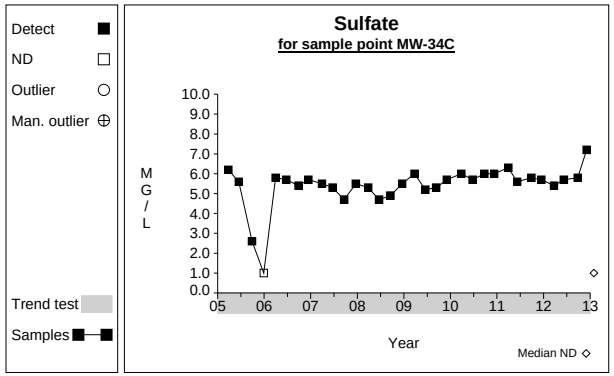
Graph 562



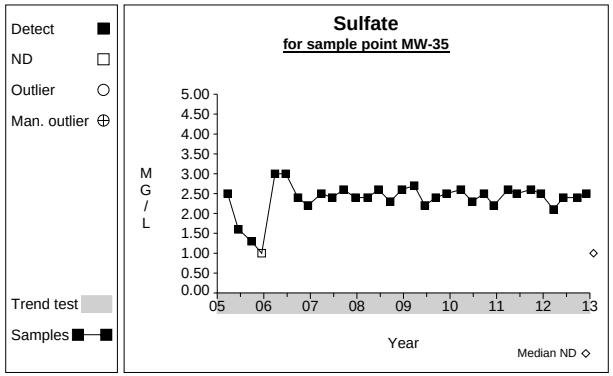
Graph 563



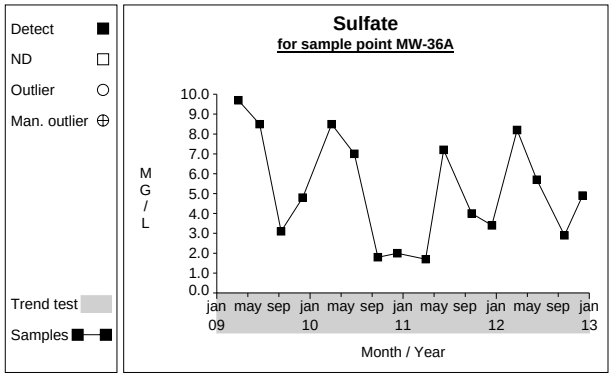
Graph 564



Graph 565

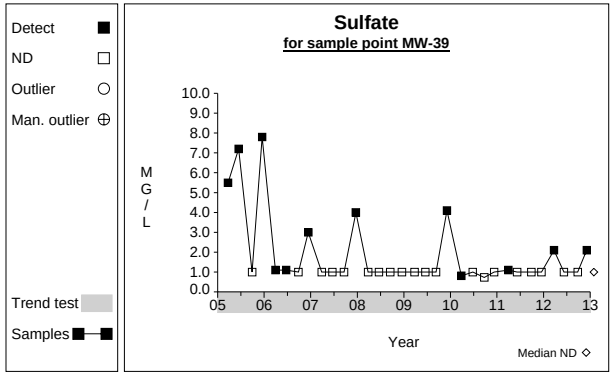


Graph 566

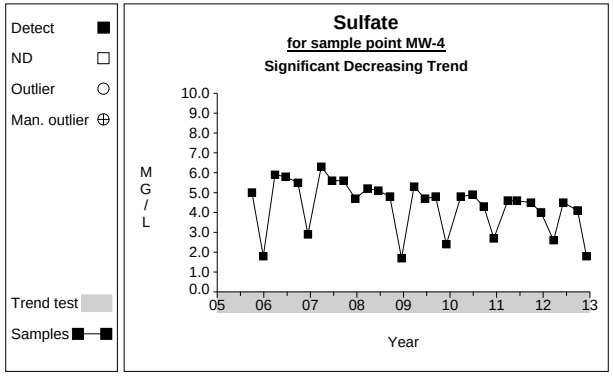


Graph 567

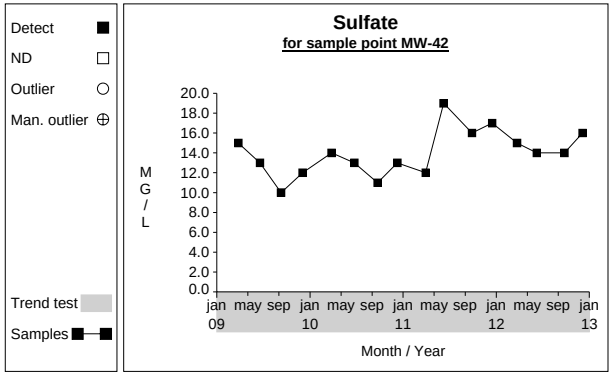
Time Series



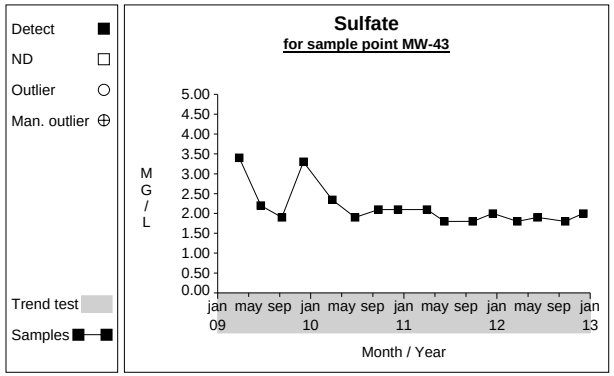
Graph 568



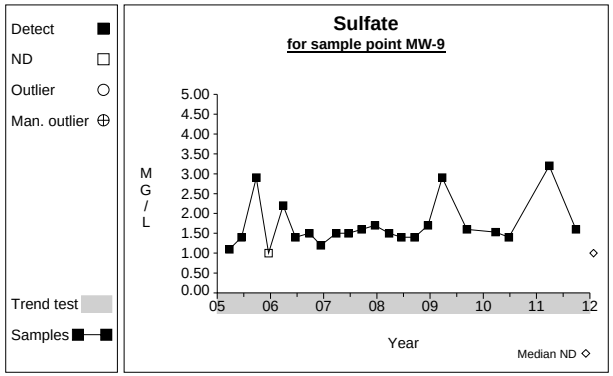
Graph 569



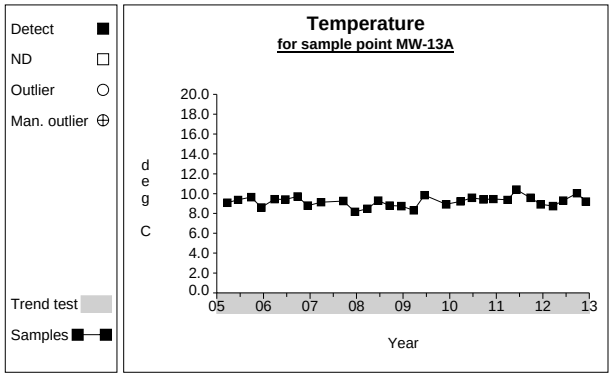
Graph 570



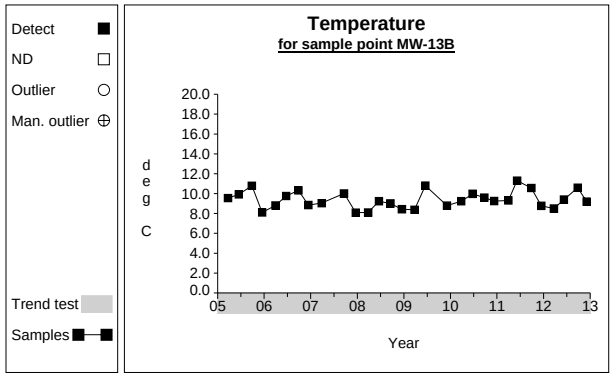
Graph 571



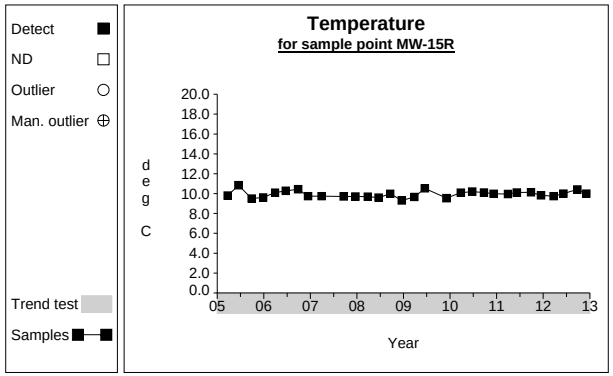
Graph 572



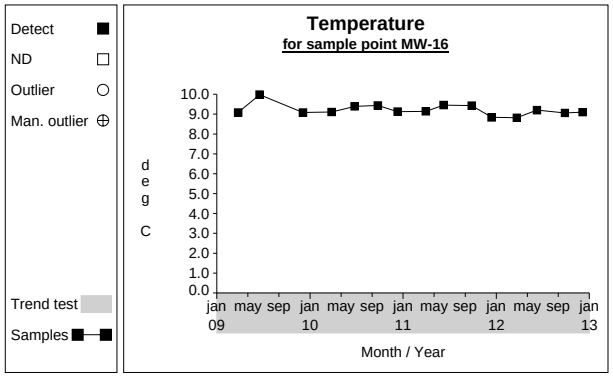
Graph 573



Graph 574

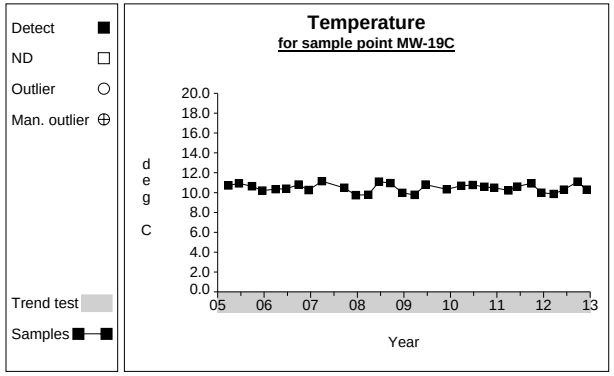


Graph 575

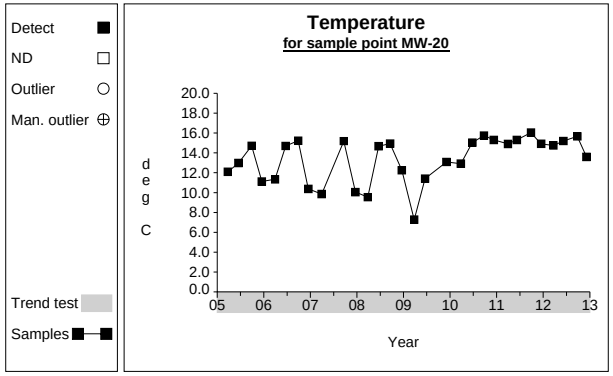


Graph 576

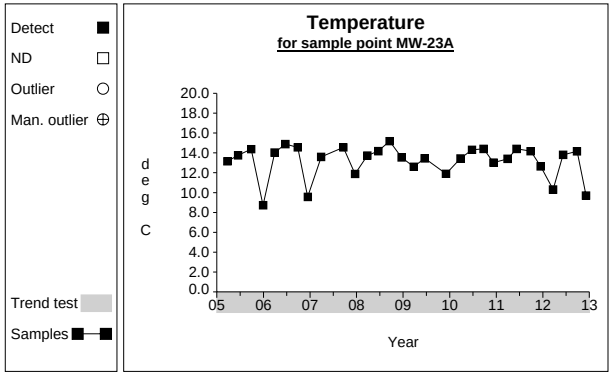
Time Series



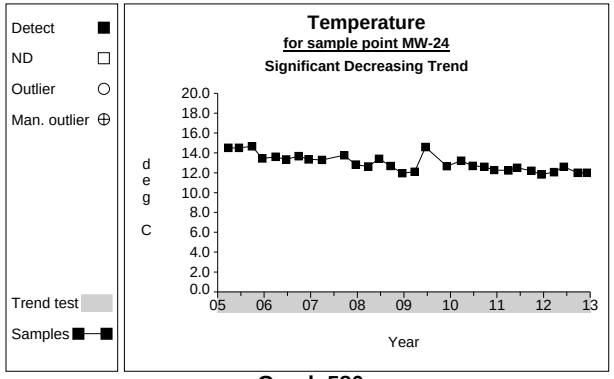
Graph 577



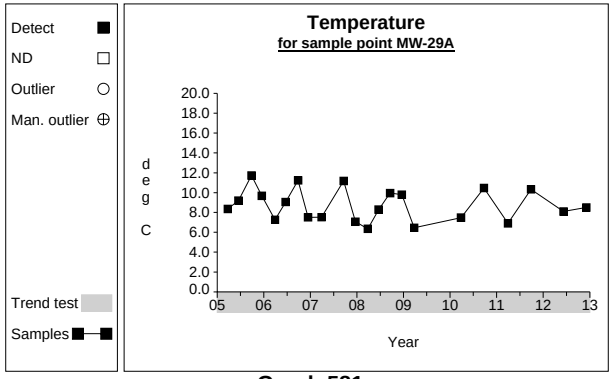
Graph 578



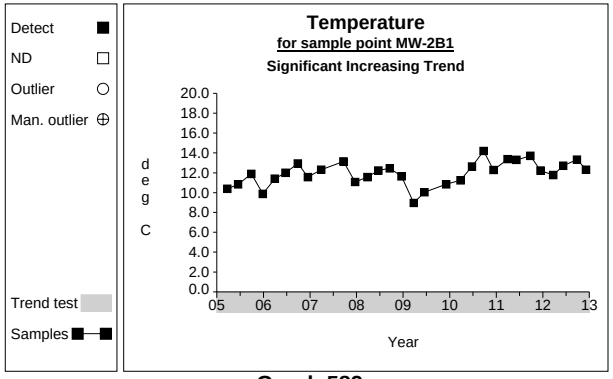
Graph 579



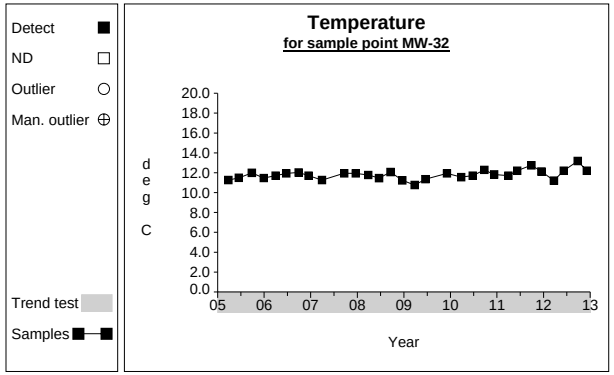
Graph 580



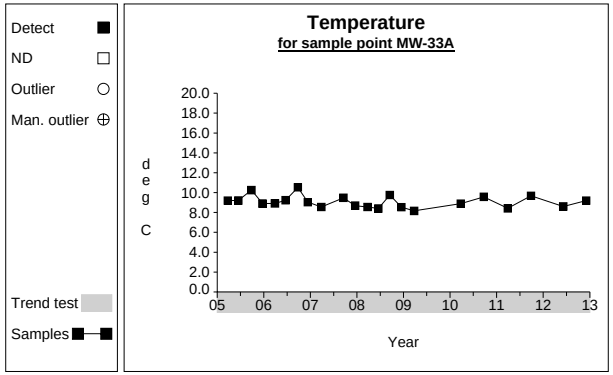
Graph 581



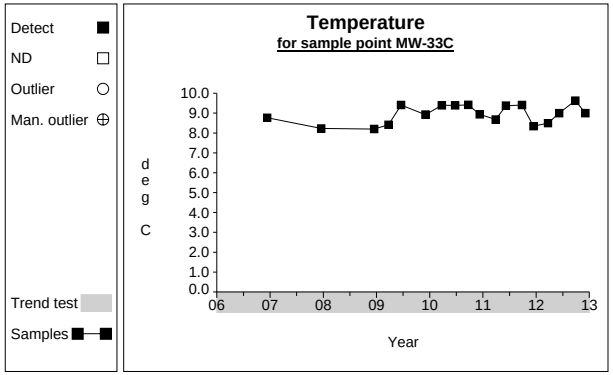
Graph 582



Graph 583

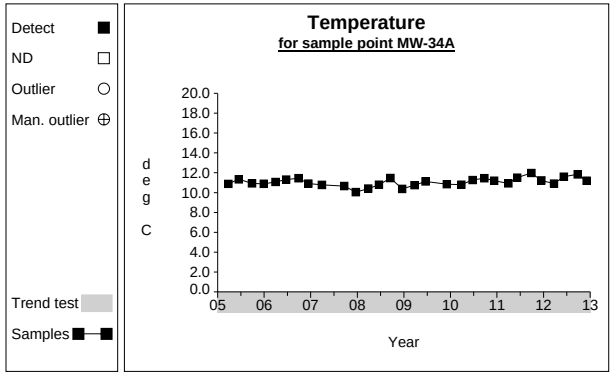


Graph 584

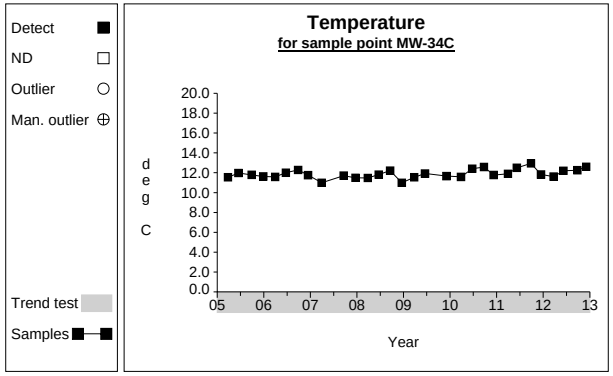


Graph 585

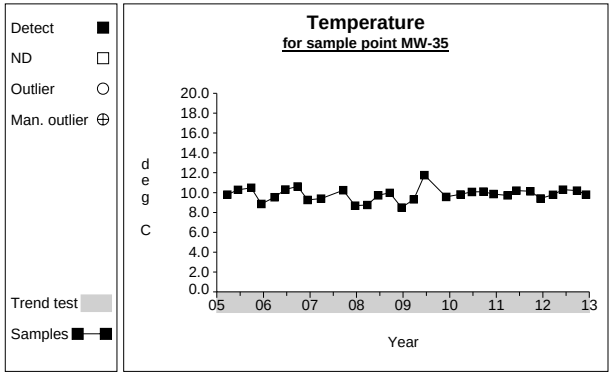
Time Series



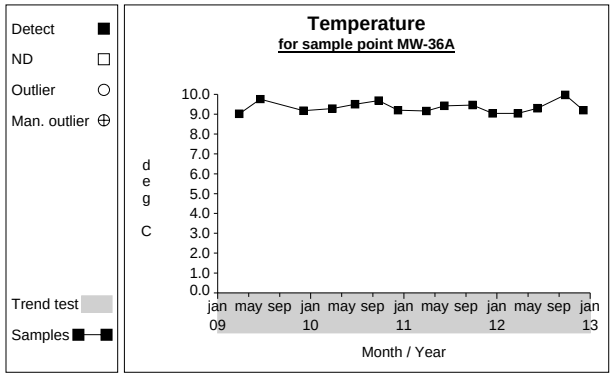
Graph 586



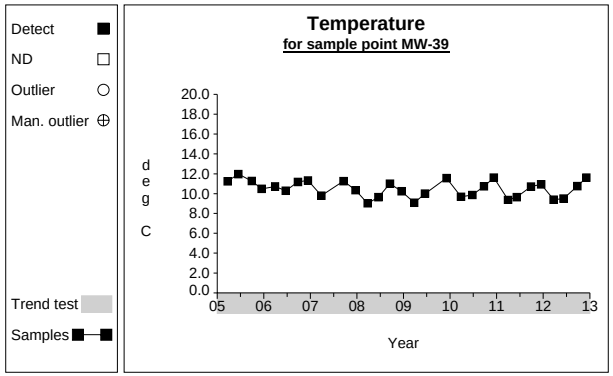
Graph 587



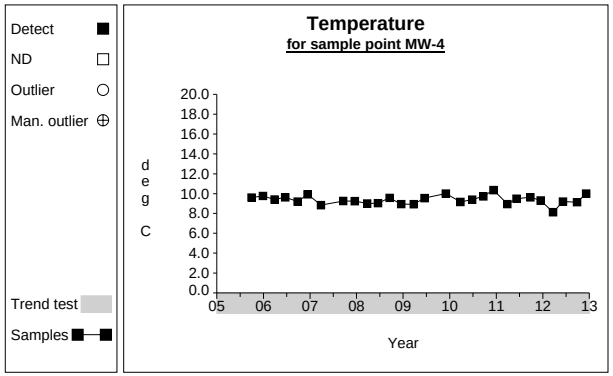
Graph 588



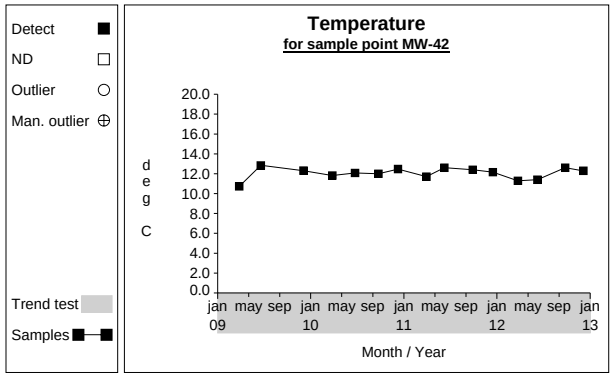
Graph 589



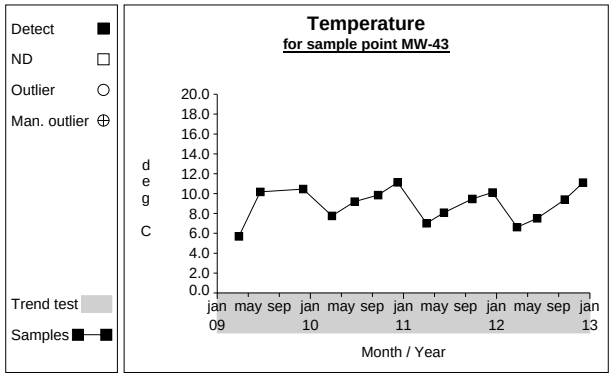
Graph 590



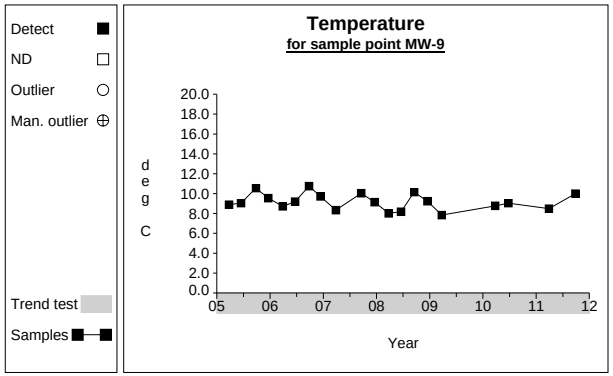
Graph 591



Graph 592

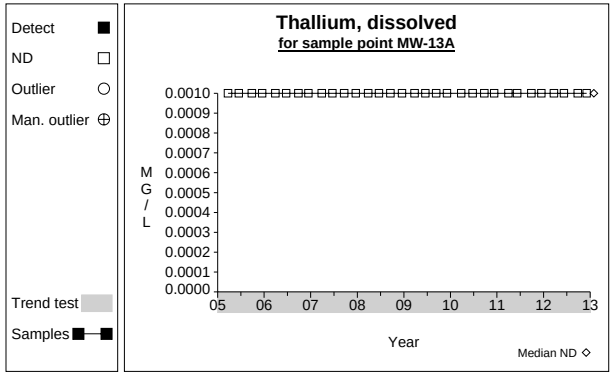


Graph 593

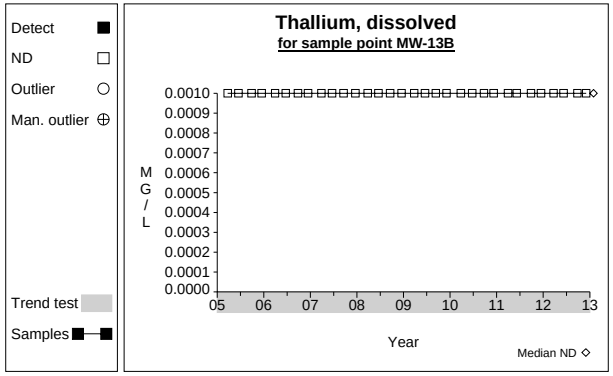


Graph 594

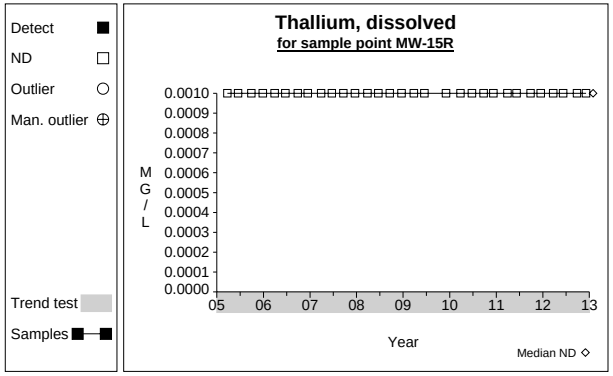
Time Series



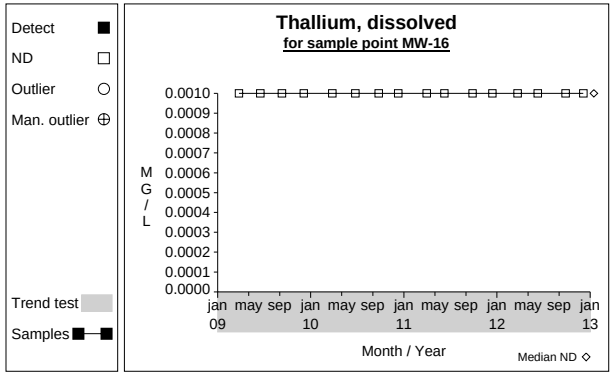
Graph 595



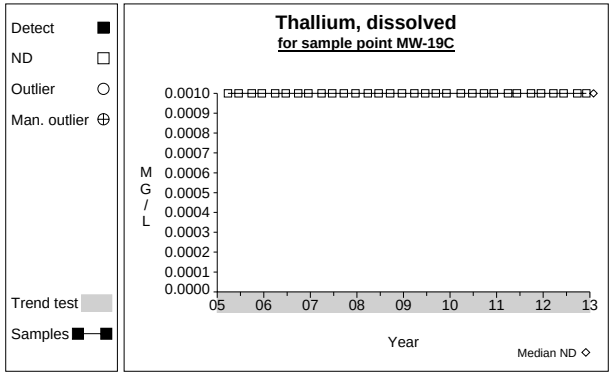
Graph 596



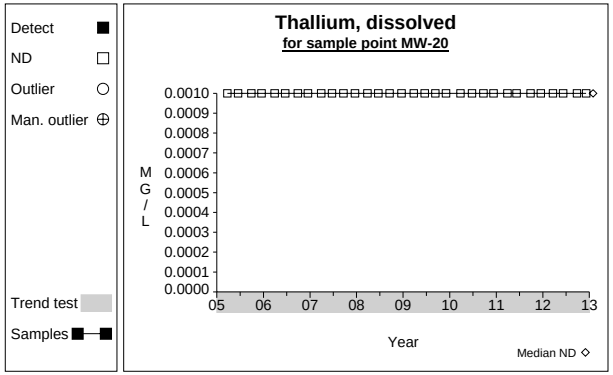
Graph 597



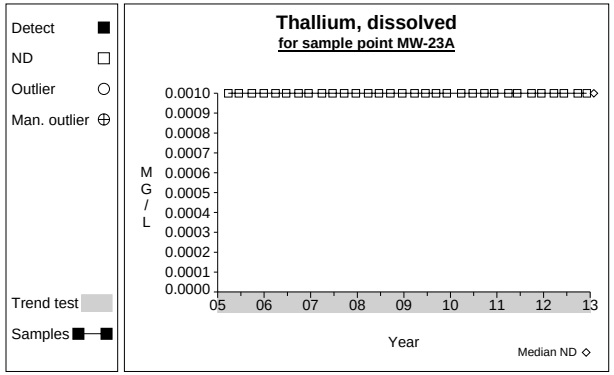
Graph 598



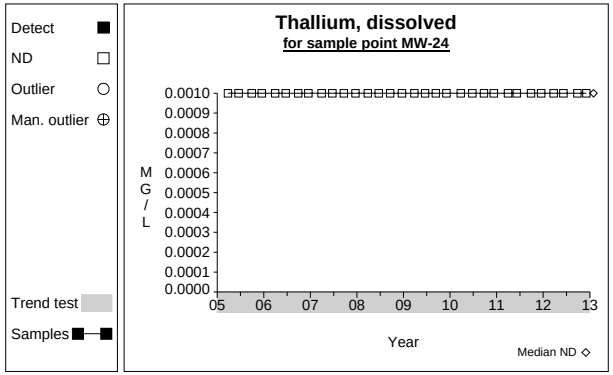
Graph 599



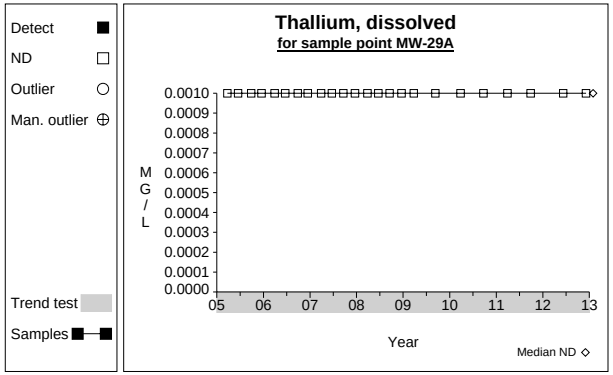
Graph 600



Graph 601

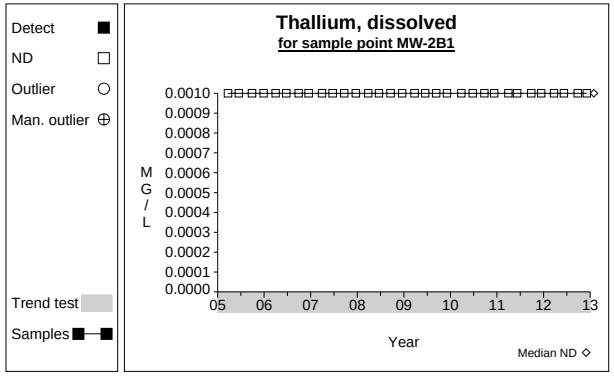


Graph 602

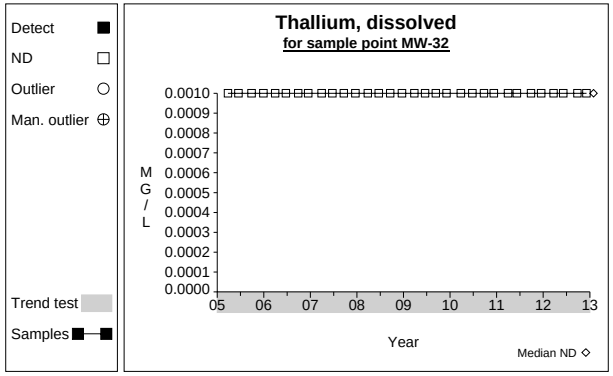


Graph 603

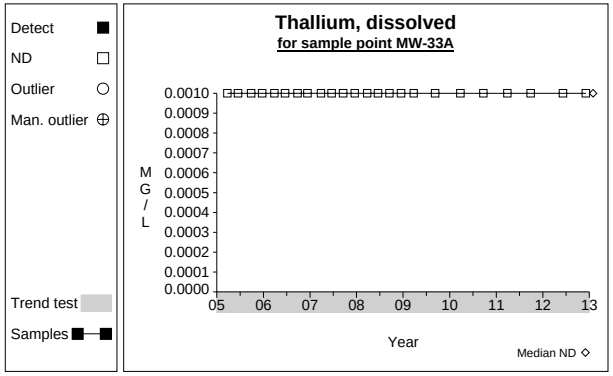
Time Series



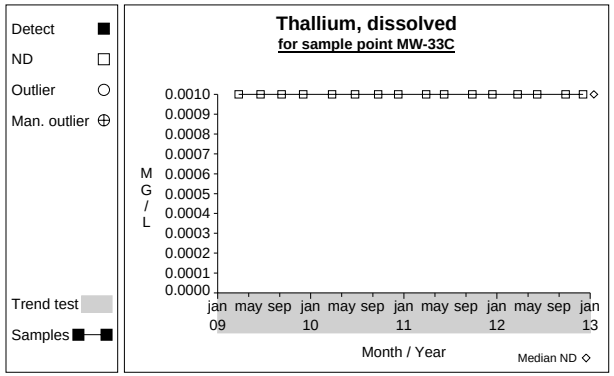
Graph 604



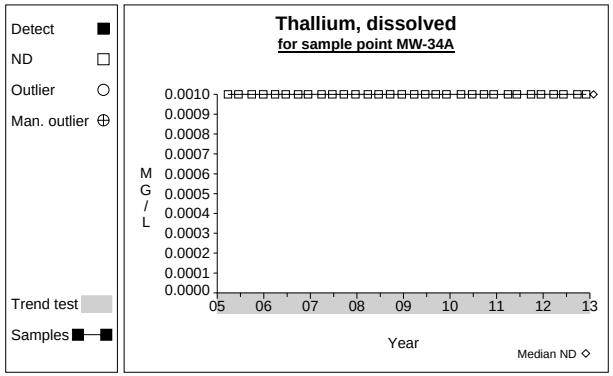
Graph 605



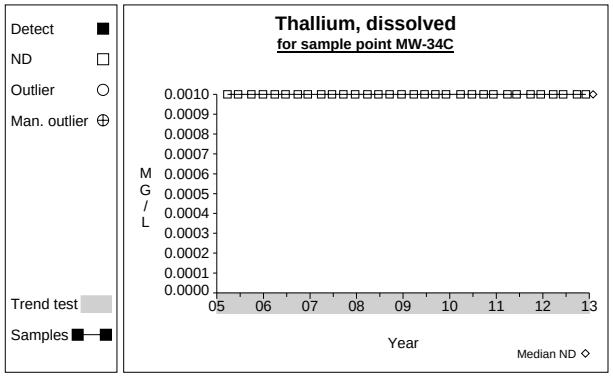
Graph 606



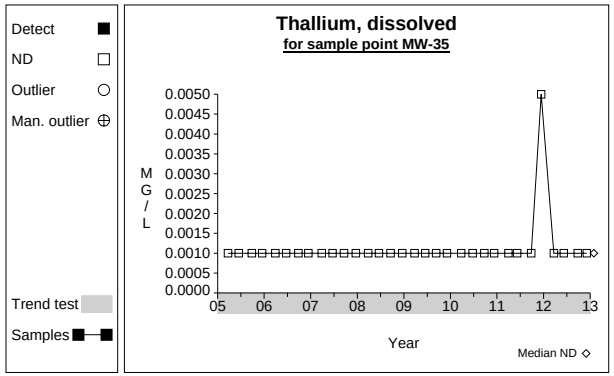
Graph 607



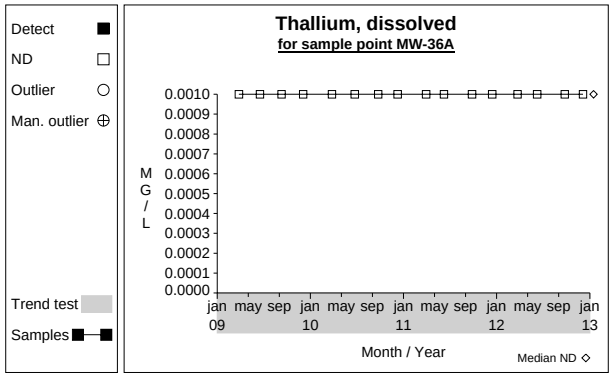
Graph 608



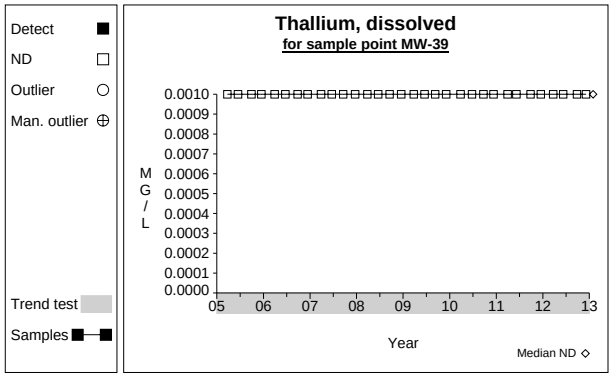
Graph 609



Graph 610

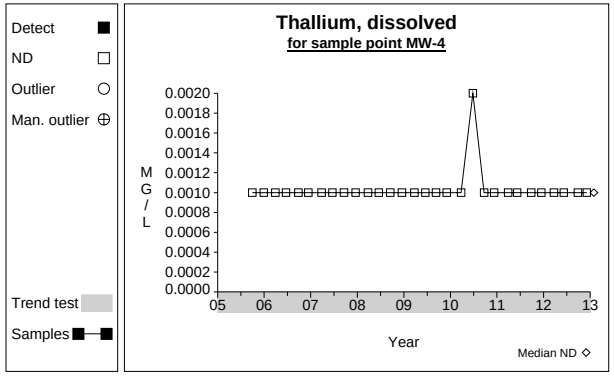


Graph 611

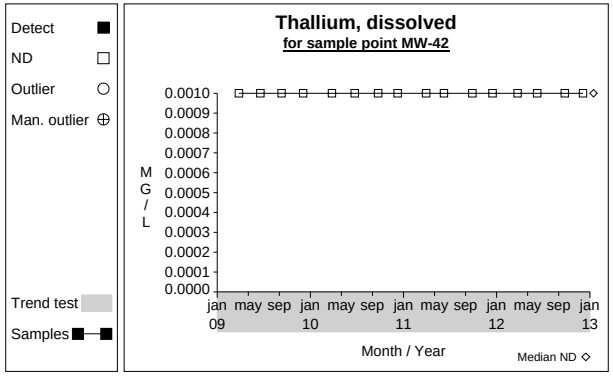


Graph 612

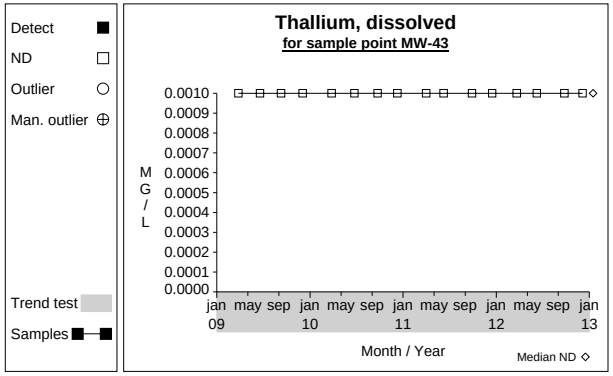
Time Series



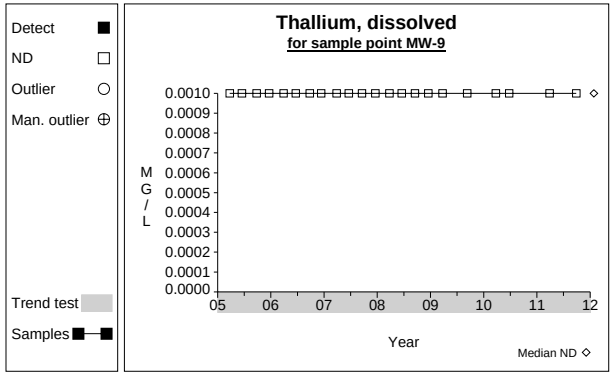
Graph 613



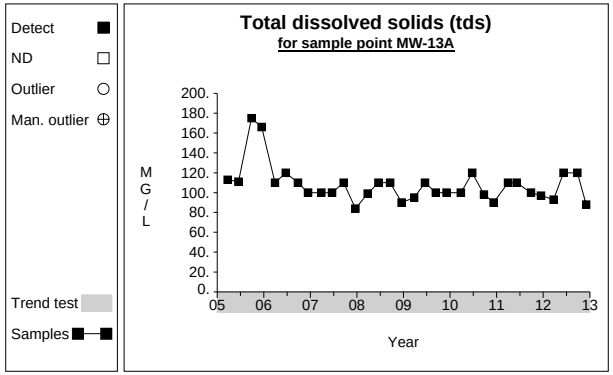
Graph 614



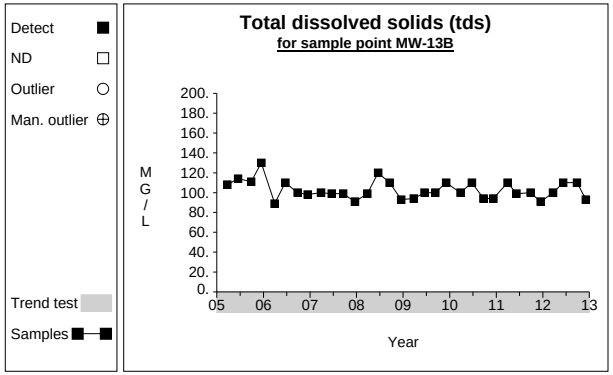
Graph 615



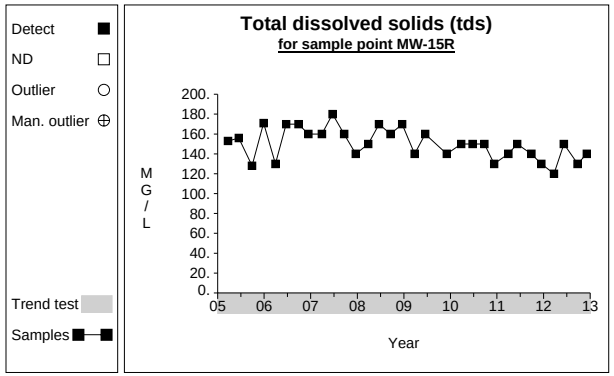
Graph 616



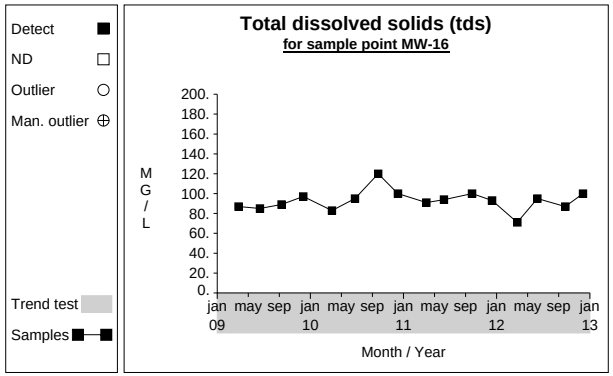
Graph 617



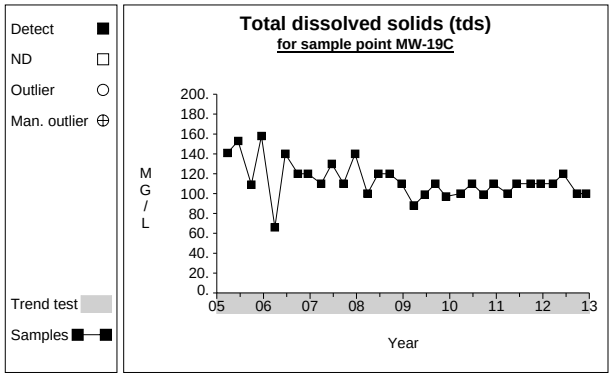
Graph 618



Graph 619

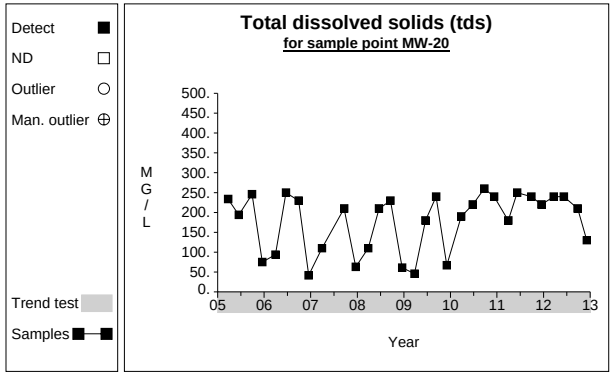


Graph 620

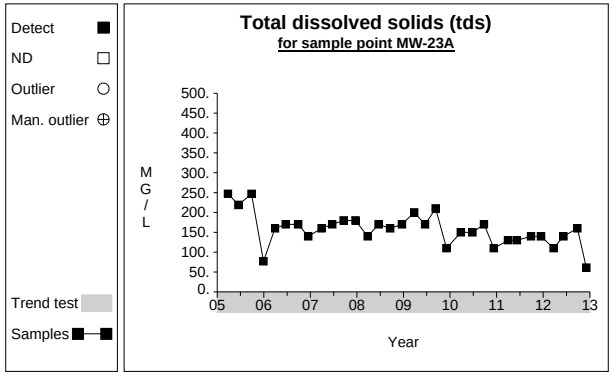


Graph 621

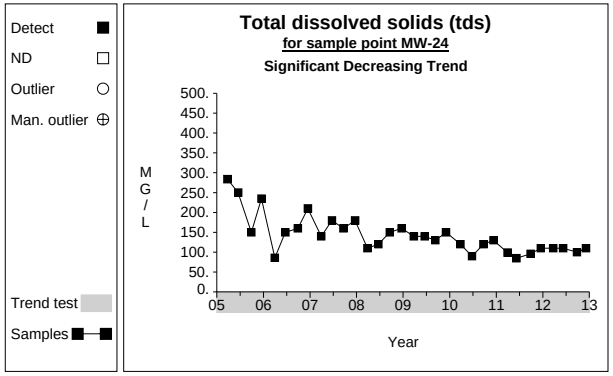
Time Series



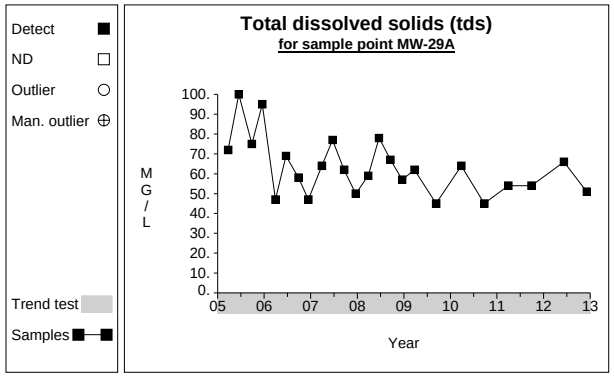
Graph 622



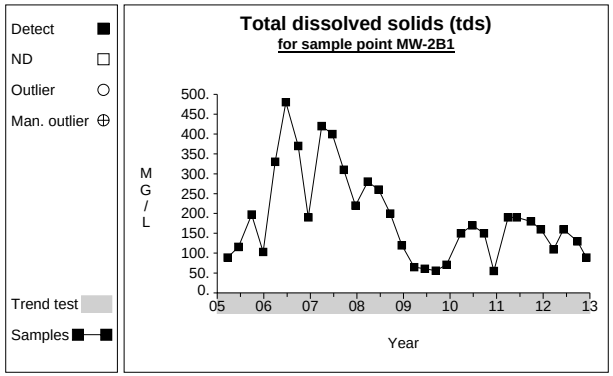
Graph 623



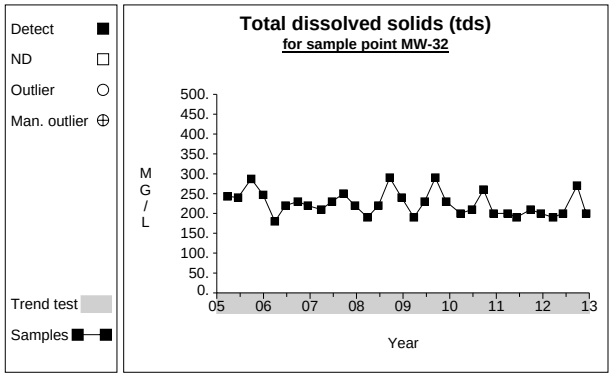
Graph 624



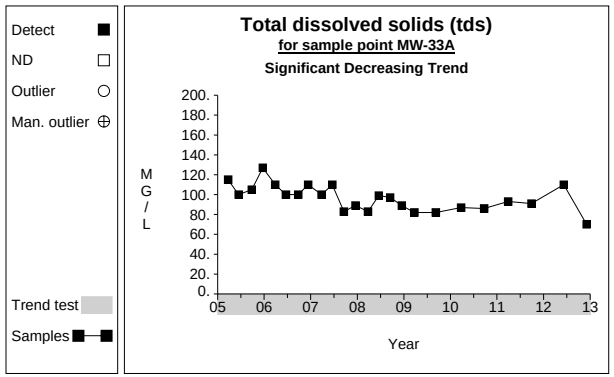
Graph 625



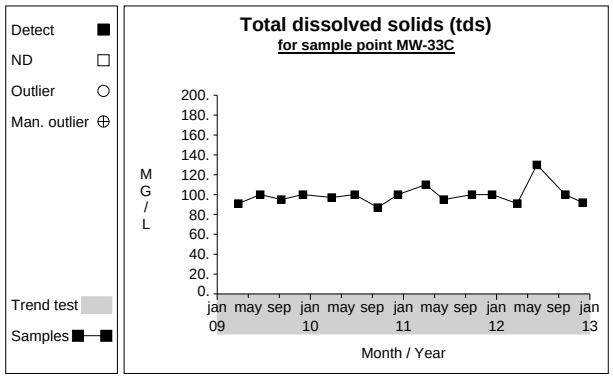
Graph 626



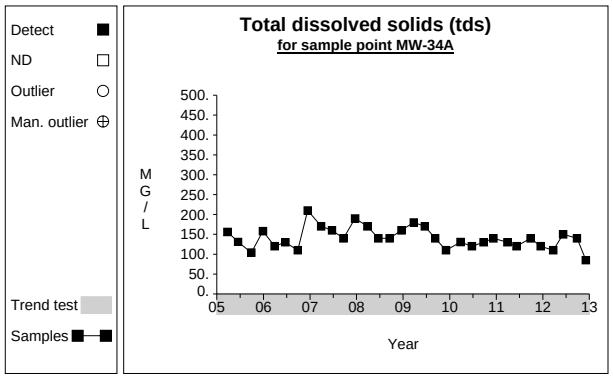
Graph 627



Graph 628

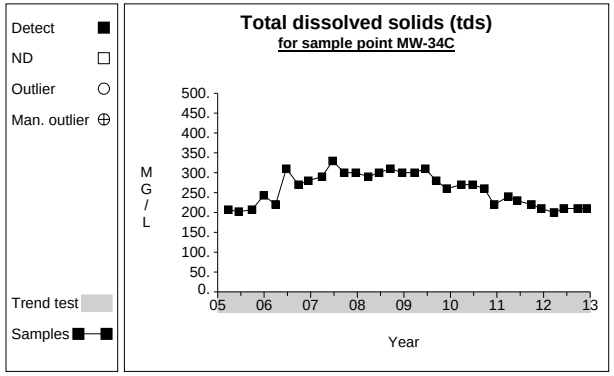


Graph 629

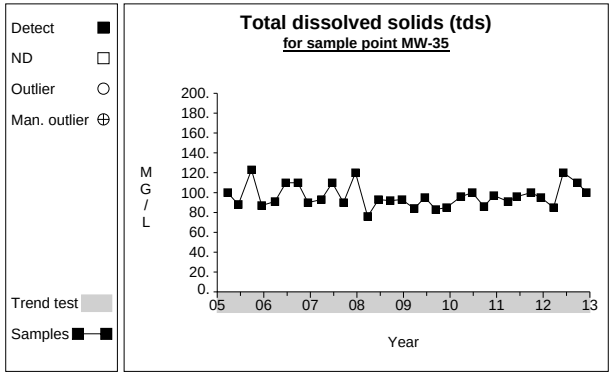


Graph 630

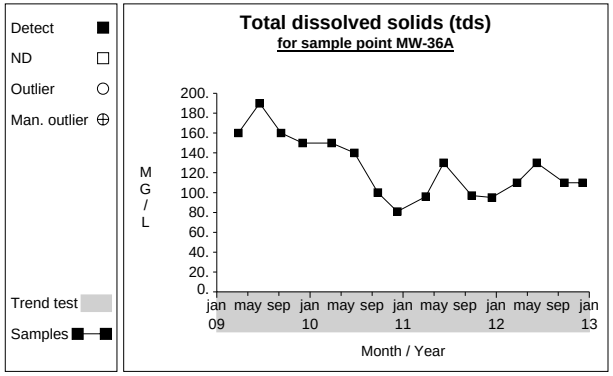
Time Series



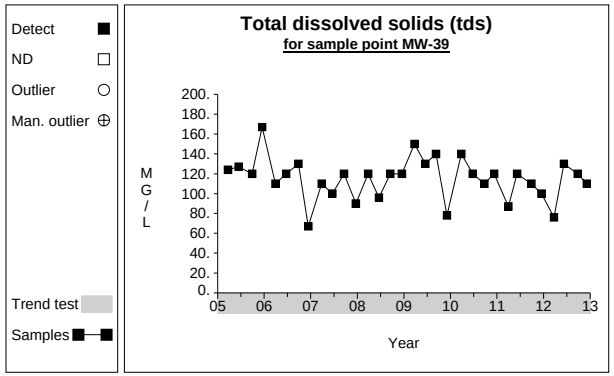
Graph 631



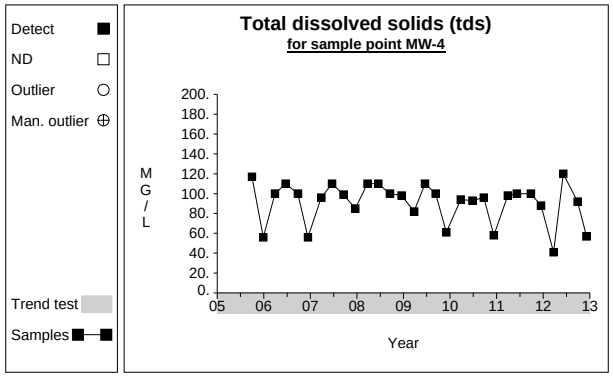
Graph 632



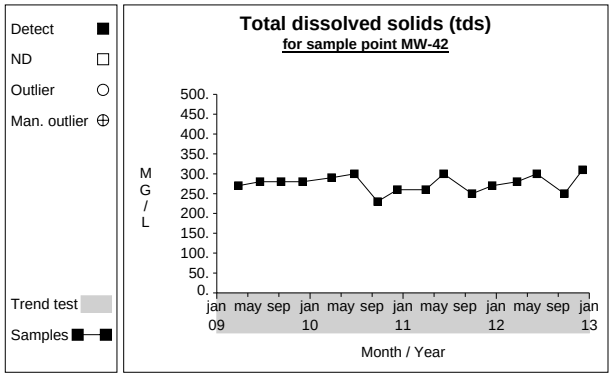
Graph 633



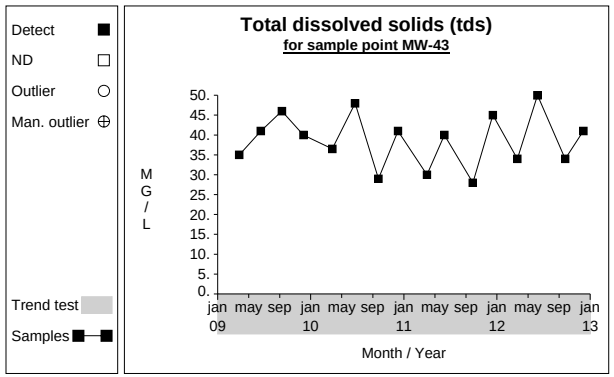
Graph 634



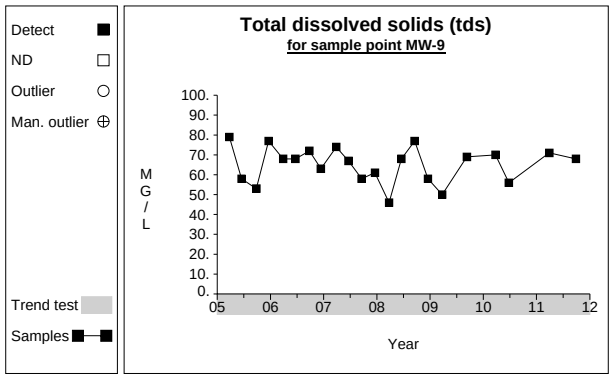
Graph 635



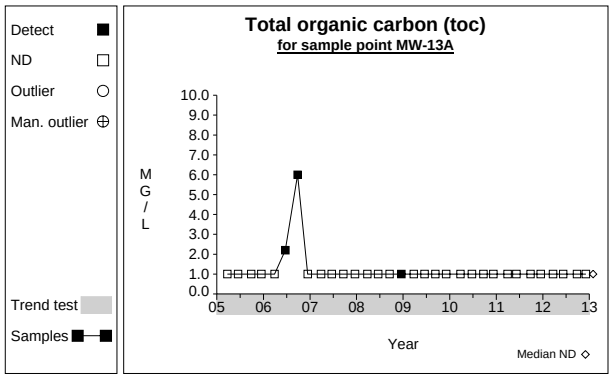
Graph 636



Graph 637

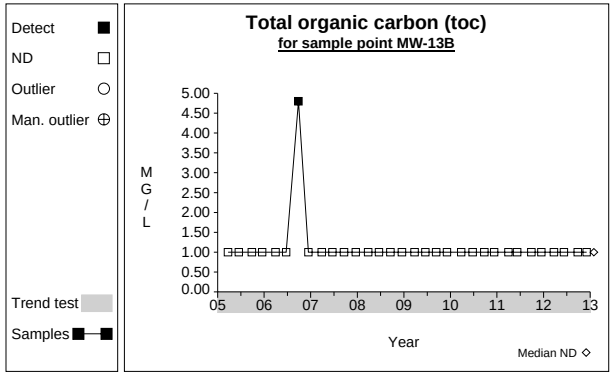


Graph 638

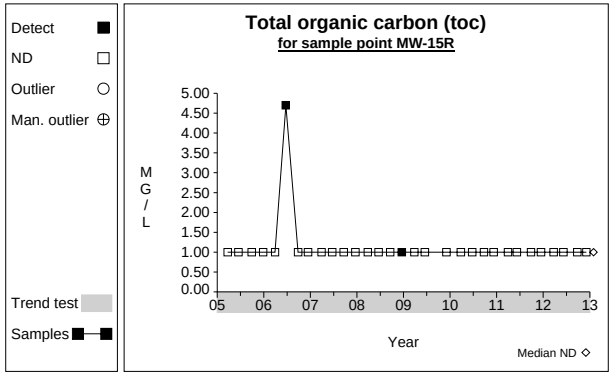


Graph 639

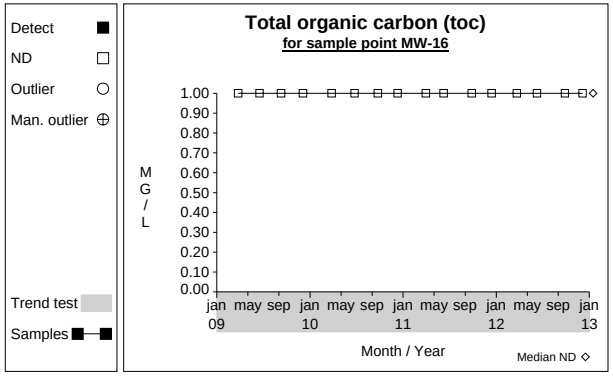
Time Series



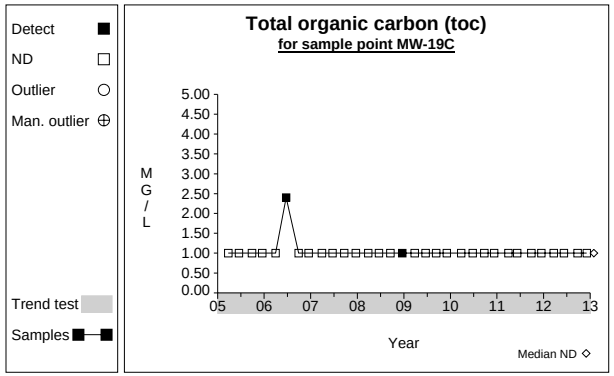
Graph 640



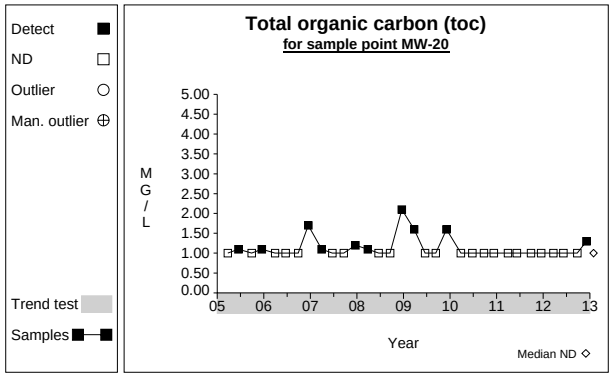
Graph 641



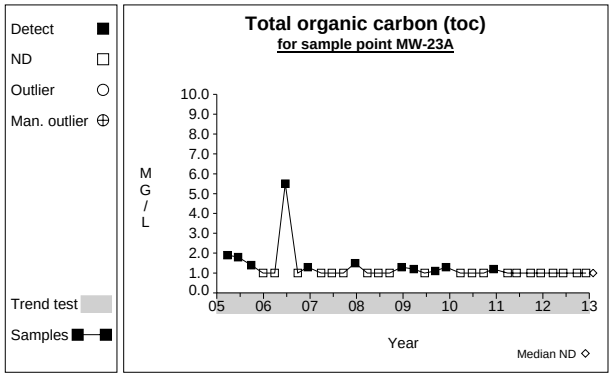
Graph 642



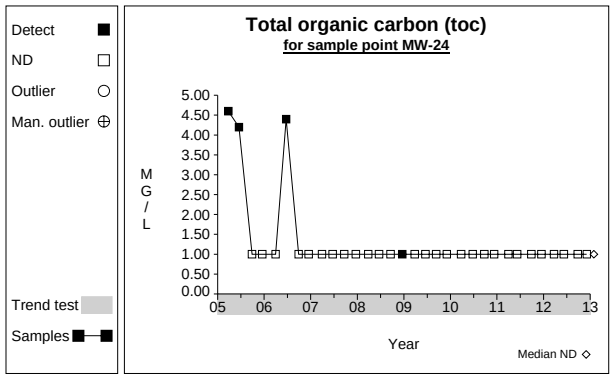
Graph 643



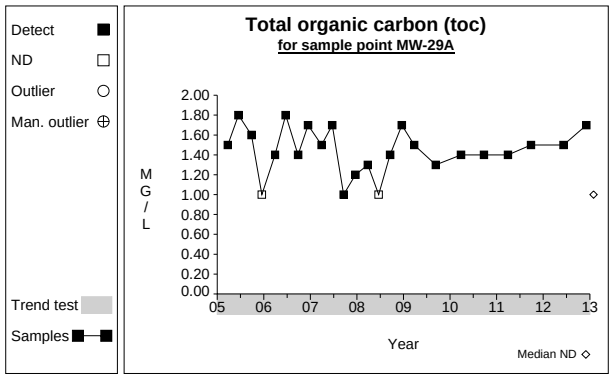
Graph 644



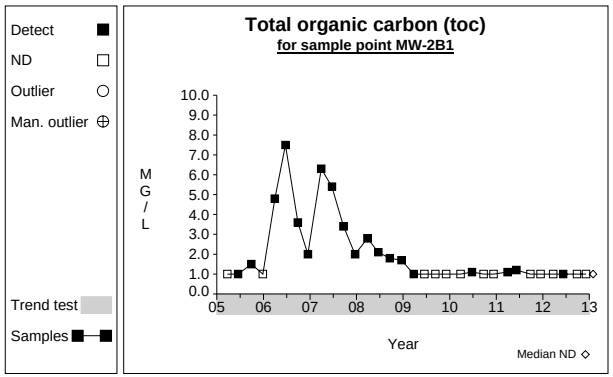
Graph 645



Graph 646

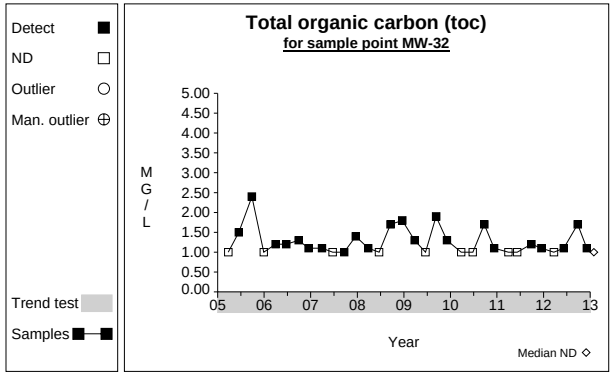


Graph 647

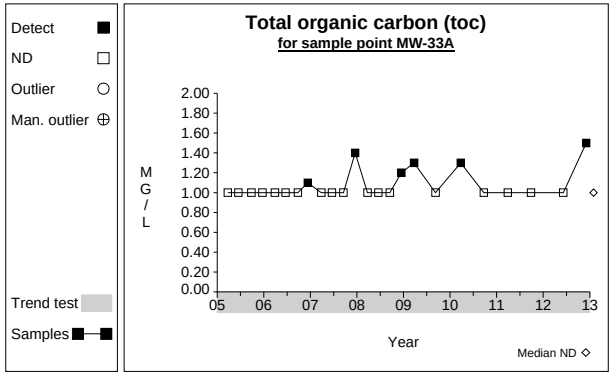


Graph 648

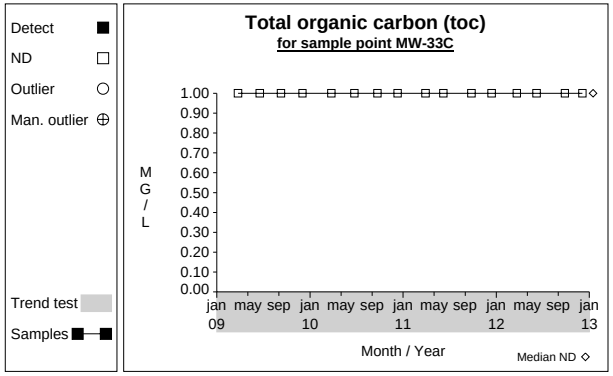
Time Series



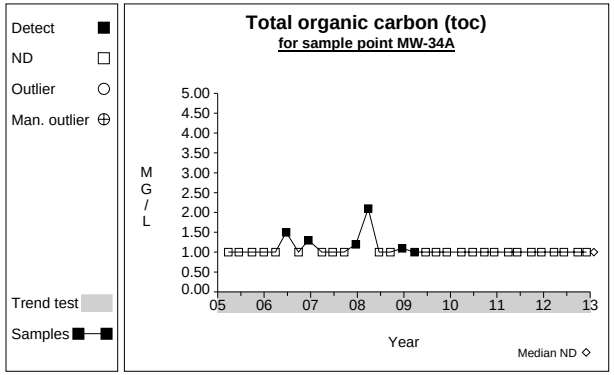
Graph 649



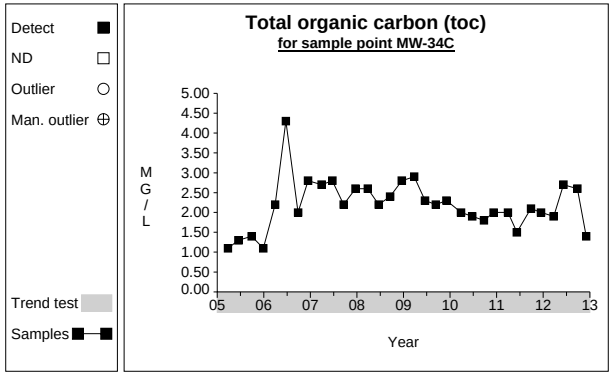
Graph 650



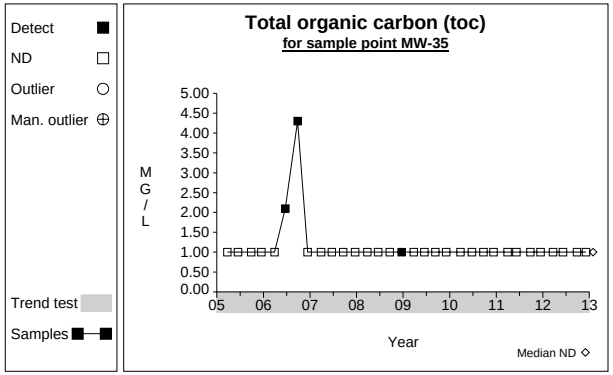
Graph 651



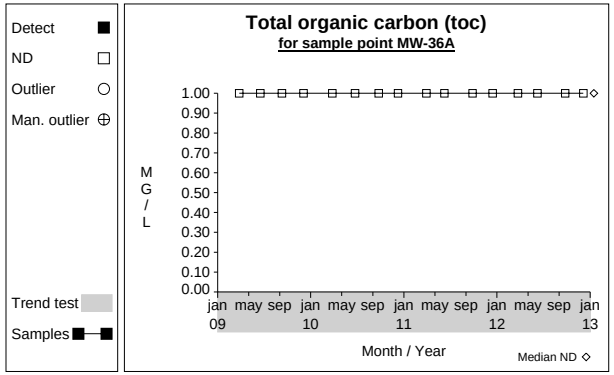
Graph 652



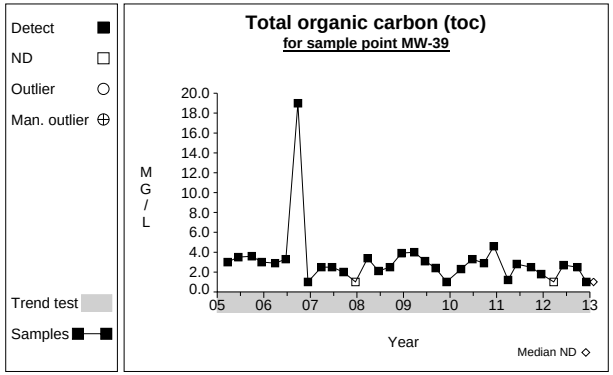
Graph 653



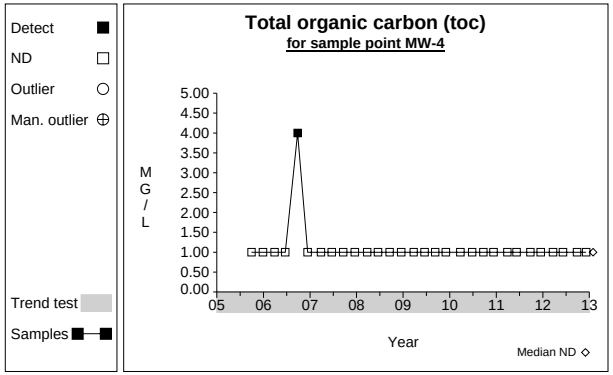
Graph 654



Graph 655

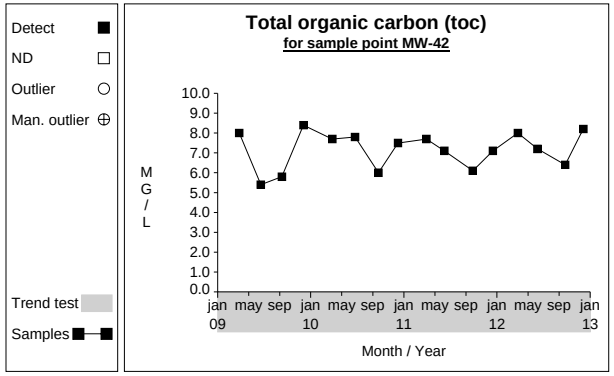


Graph 656

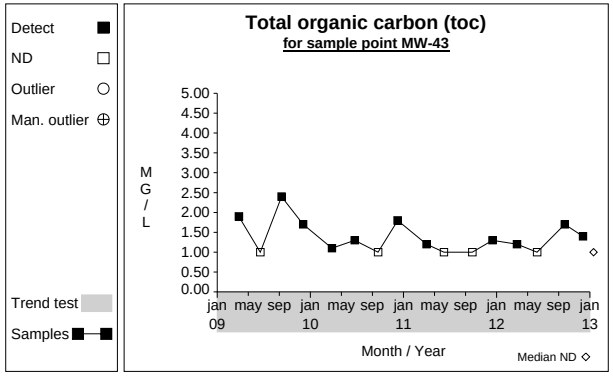


Graph 657

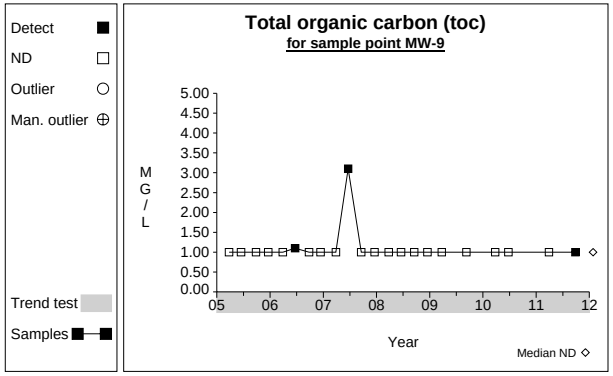
Time Series



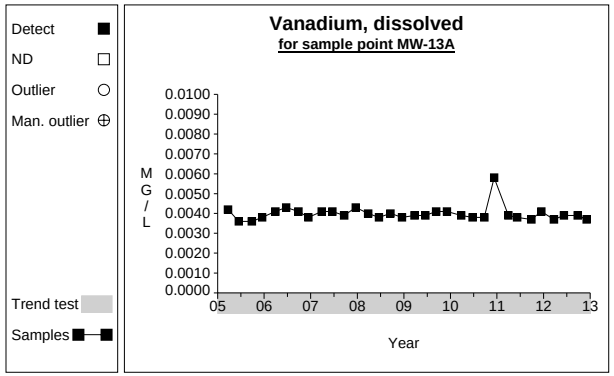
Graph 658



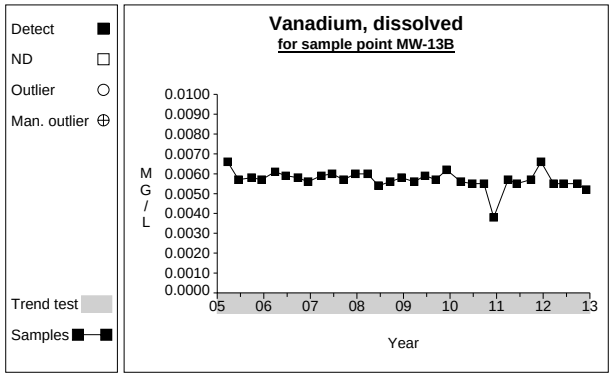
Graph 659



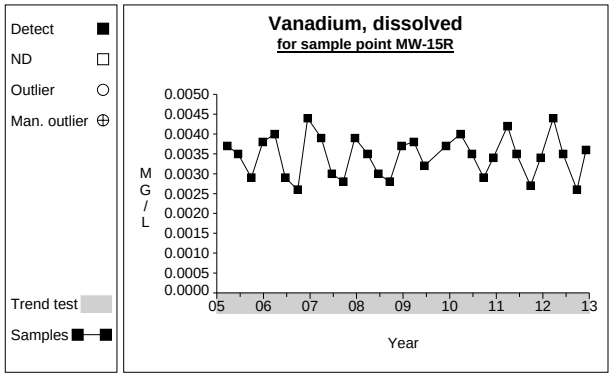
Graph 660



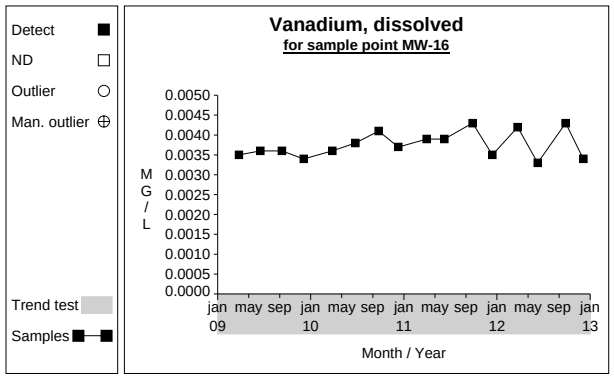
Graph 661



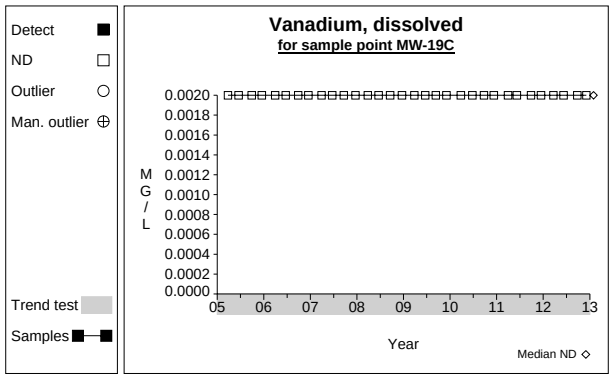
Graph 662



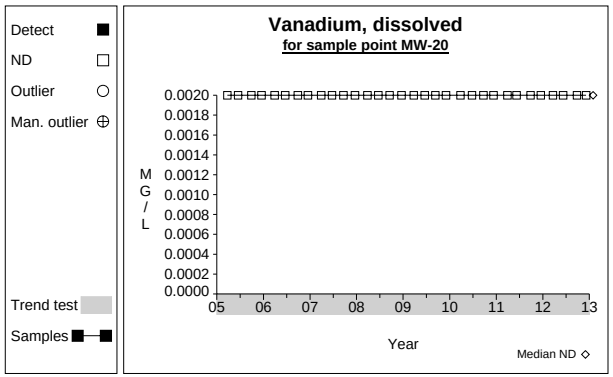
Graph 663



Graph 664

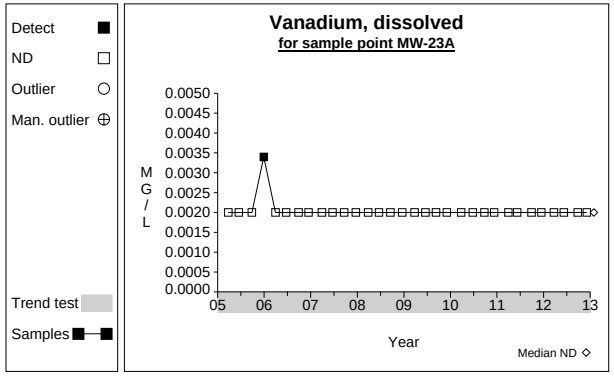


Graph 665

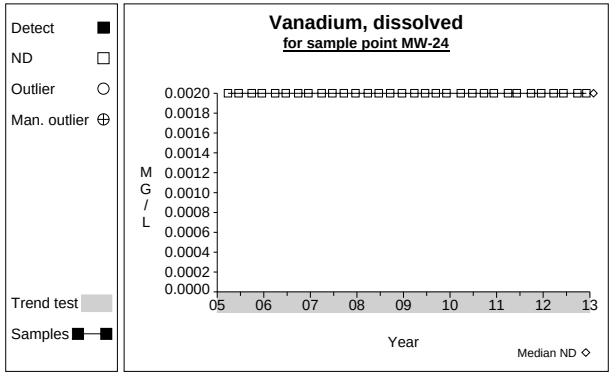


Graph 666

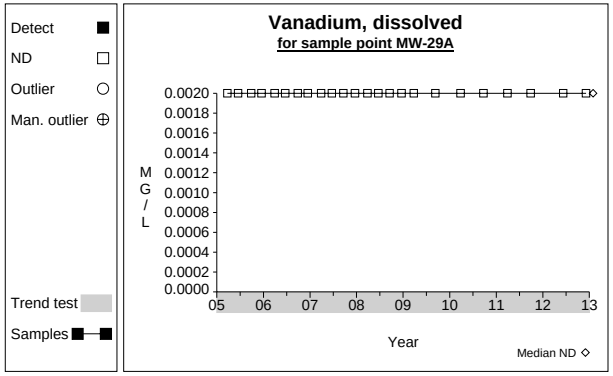
Time Series



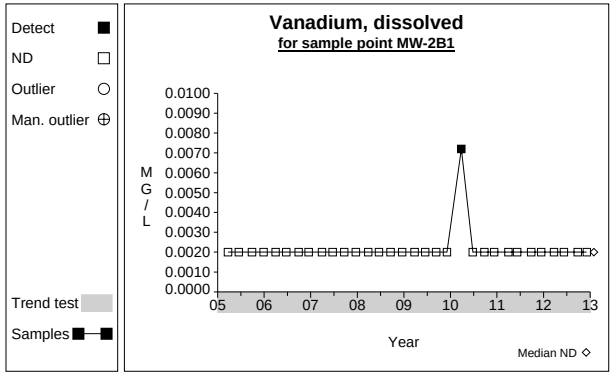
Graph 667



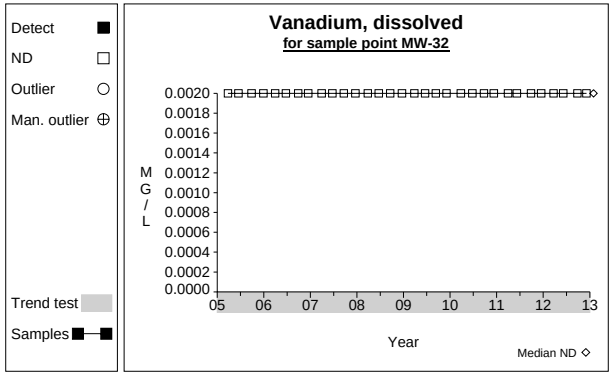
Graph 668



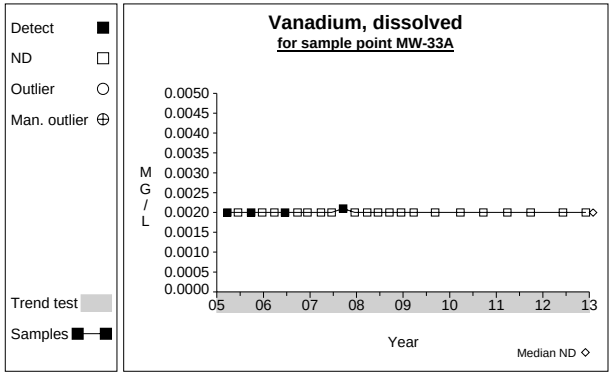
Graph 669



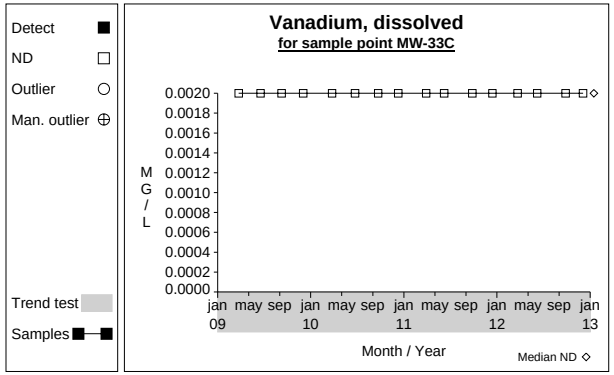
Graph 670



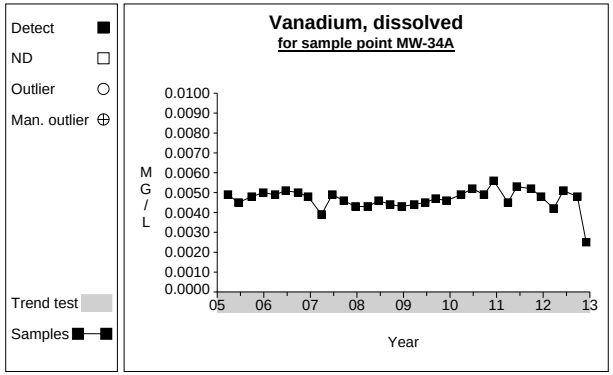
Graph 671



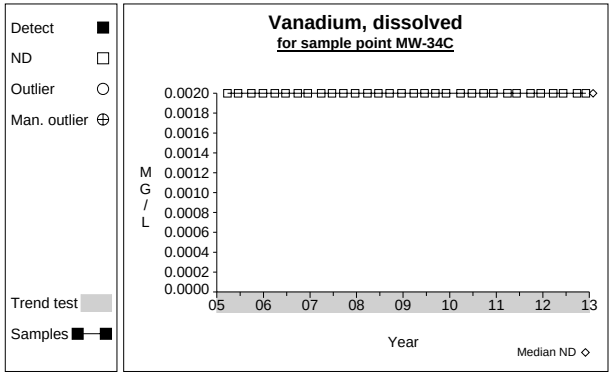
Graph 672



Graph 673

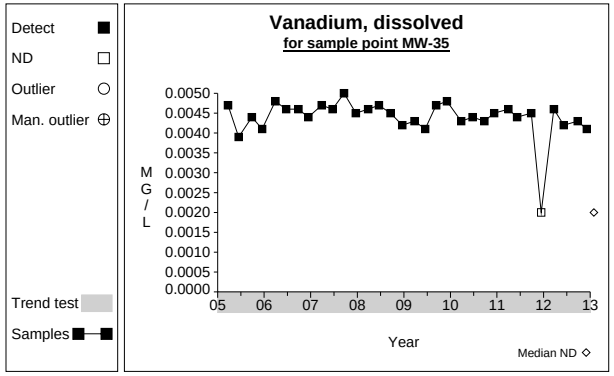


Graph 674

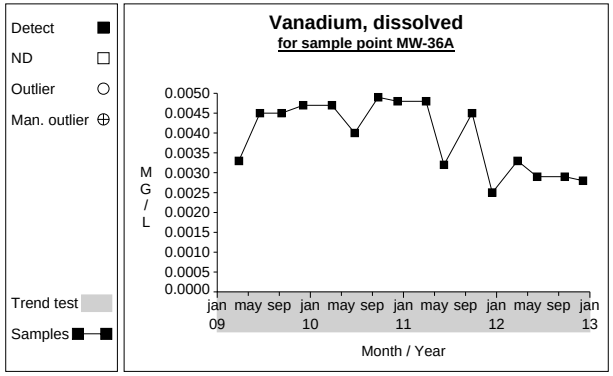


Graph 675

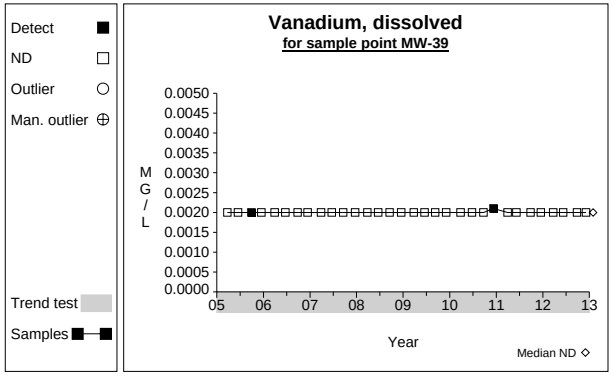
Time Series



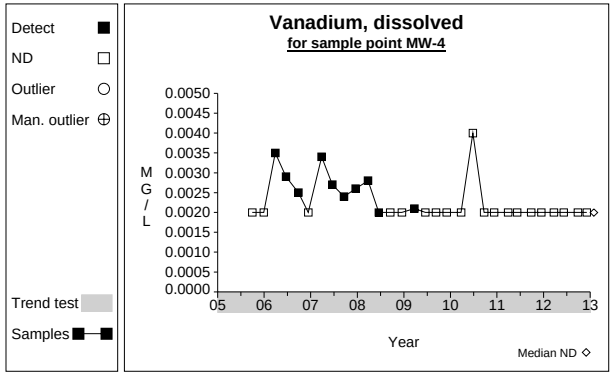
Graph 676



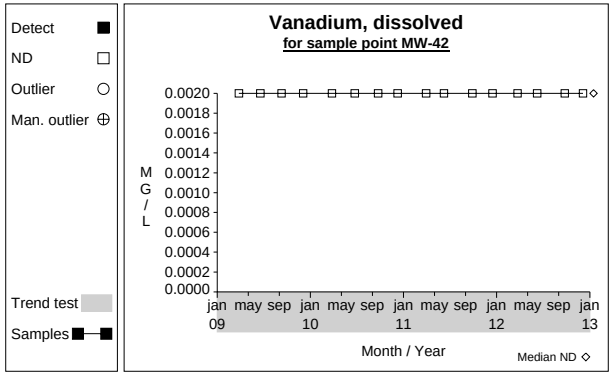
Graph 677



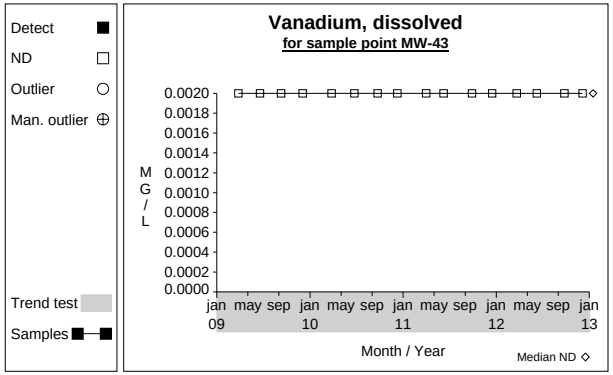
Graph 678



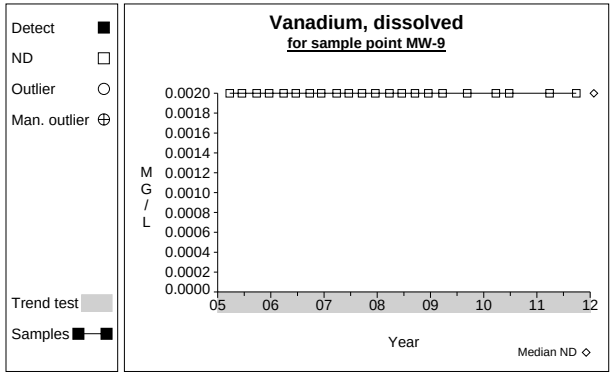
Graph 679



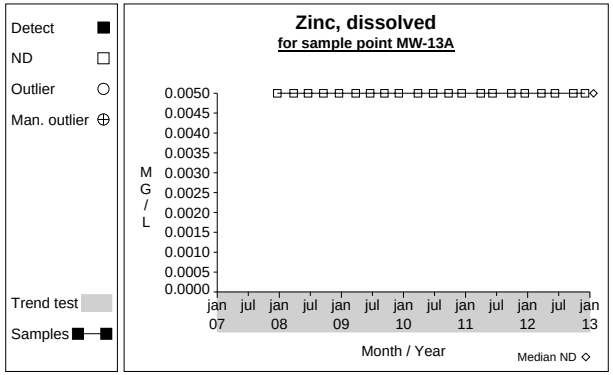
Graph 680



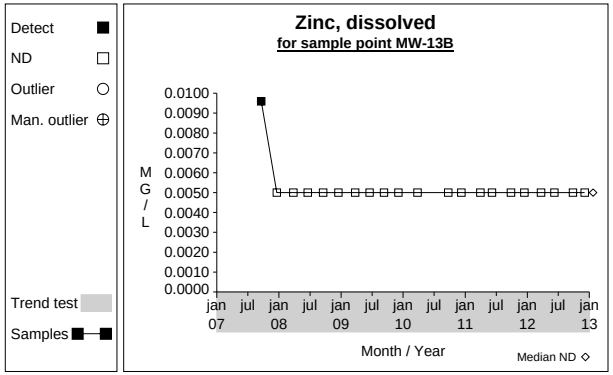
Graph 681



Graph 682

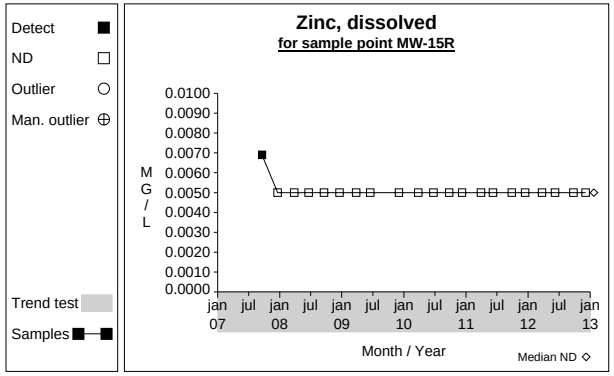


Graph 683

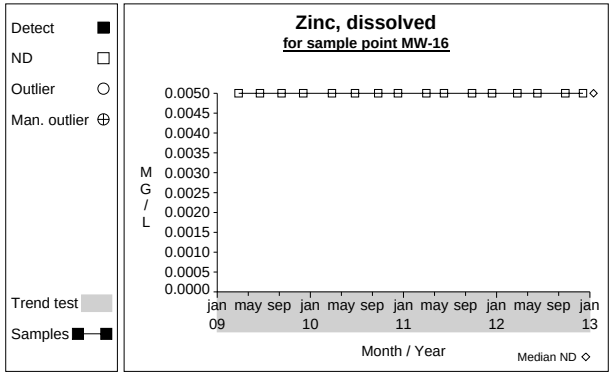


Graph 684

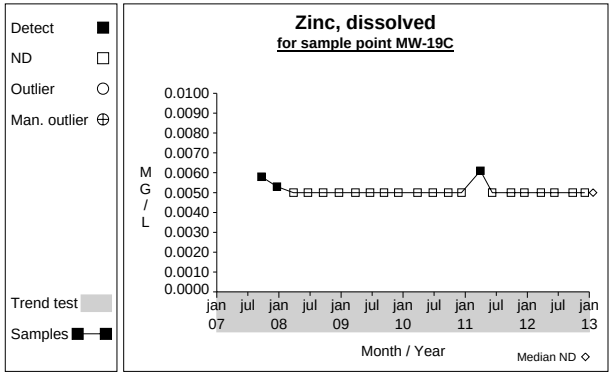
Time Series



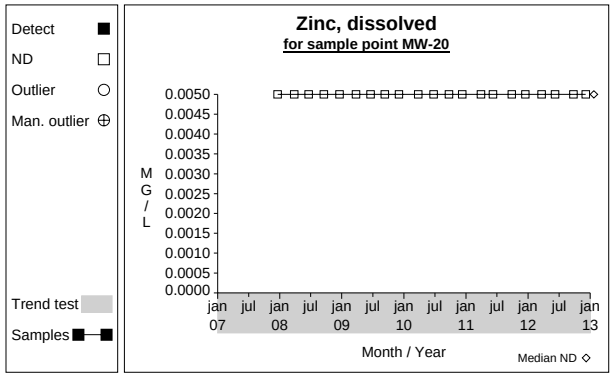
Graph 685



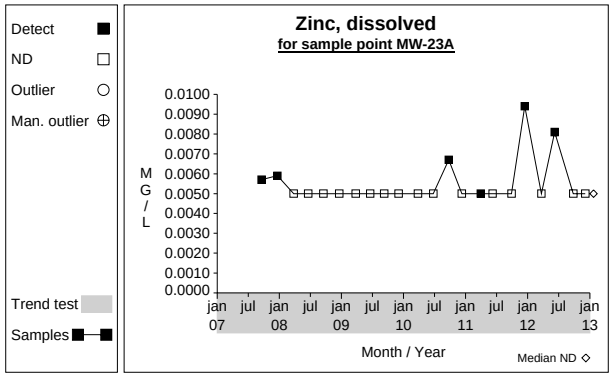
Graph 686



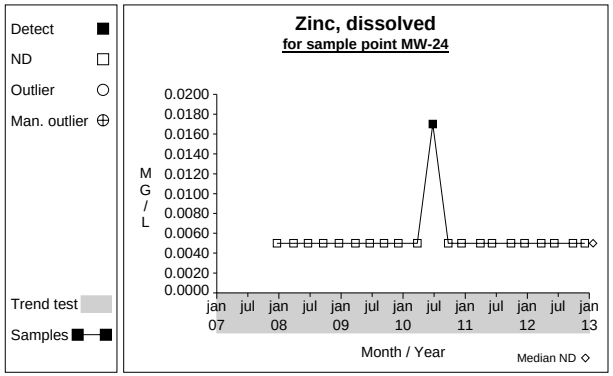
Graph 687



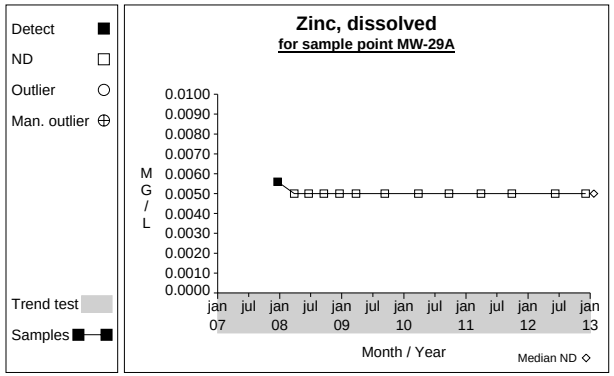
Graph 688



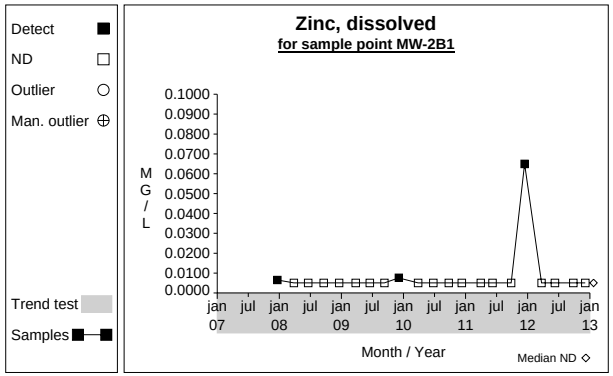
Graph 689



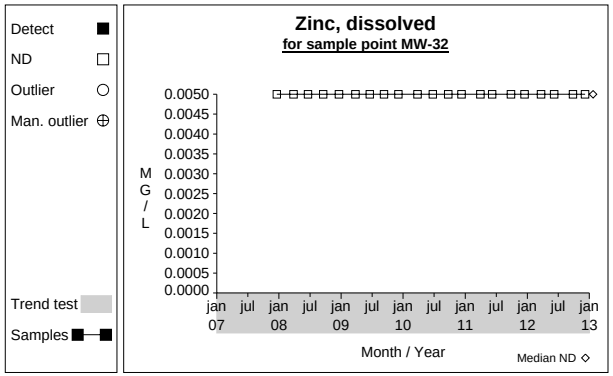
Graph 690



Graph 691

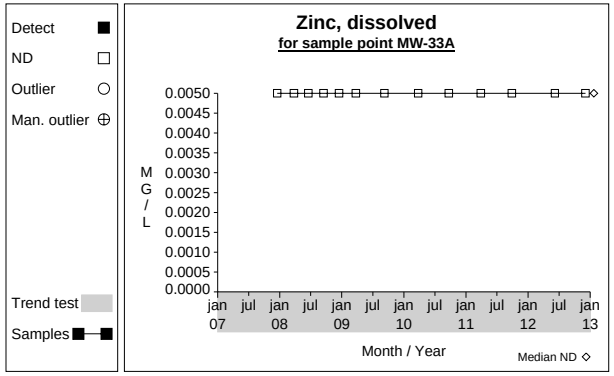


Graph 692

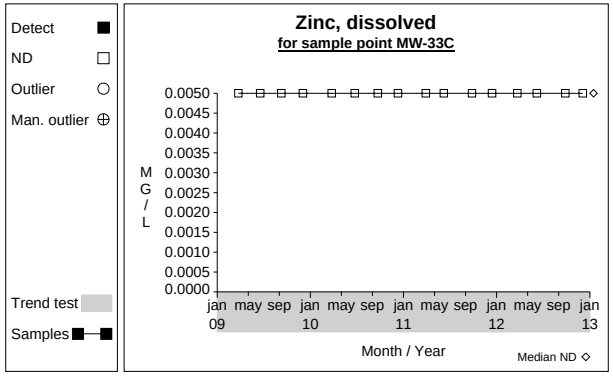


Graph 693

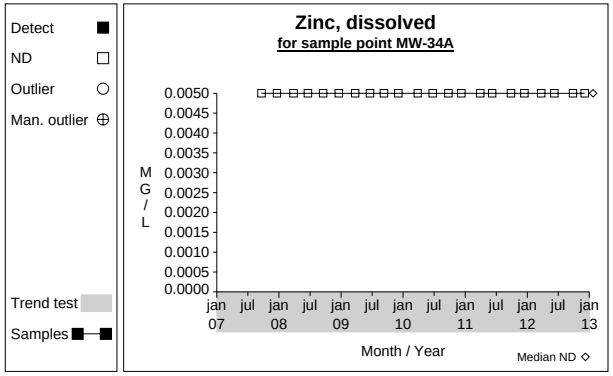
Time Series



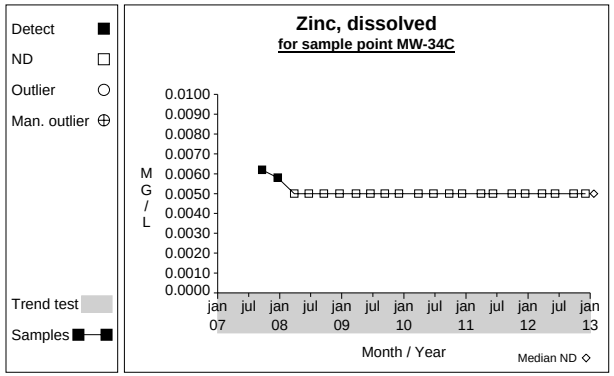
Graph 694



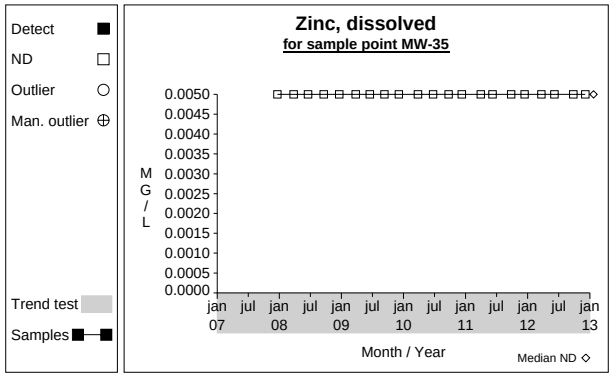
Graph 695



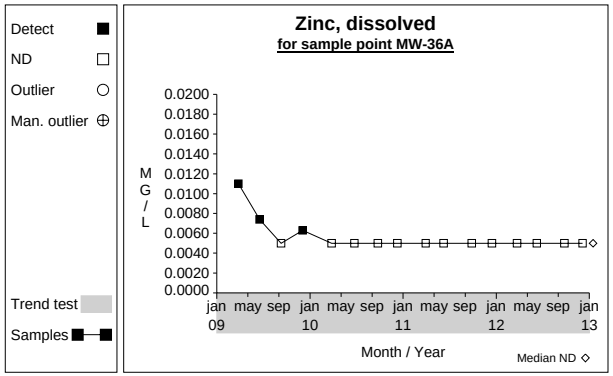
Graph 696



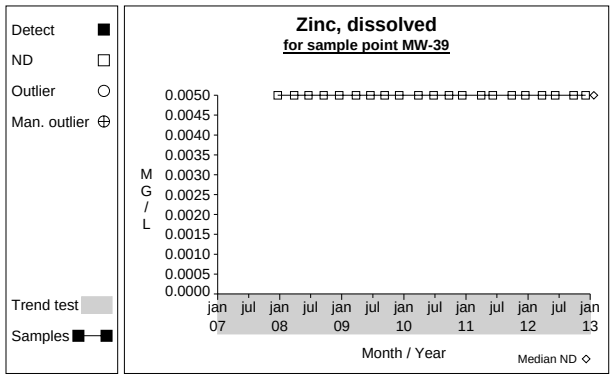
Graph 697



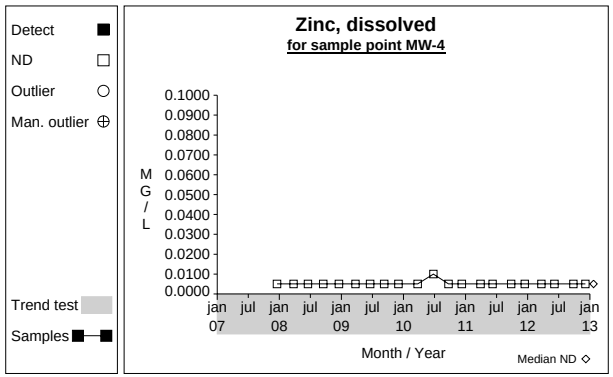
Graph 698



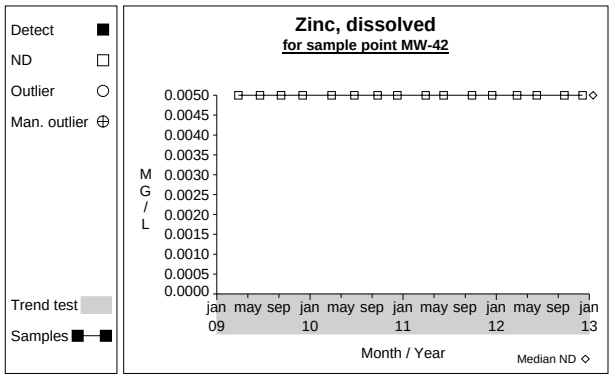
Graph 699



Graph 700

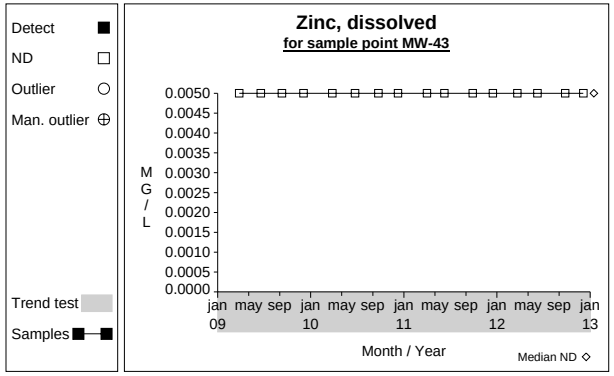


Graph 701

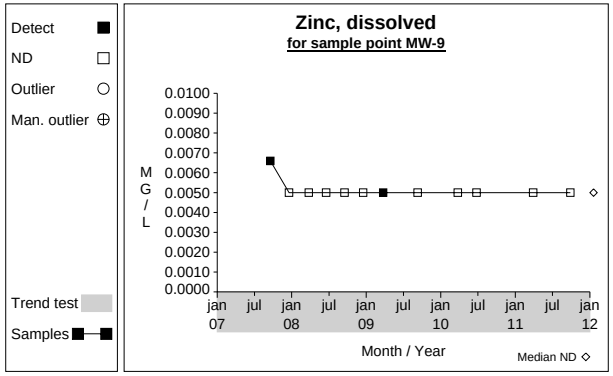


Graph 702

Time Series



Graph 703



Graph 704

APPENDIX D

LABORATORY DATA REPORTS AND DATA VALIDATION

{Appendix D is included on the attached data CD to conserve paper}

Data Validation Report

1 Introduction

This memo presents the results of data validation on the reports for lot numbers 280-36540-1, 280-36763-1, 280-36618-1, and 280-36664-1 by Test America (TA) Denver, Colorado. Reports by TA Buffalo, New York and Analytical Resources, Inc. (ARI), Tukwila, Washington (job vv52) are included in the TA Denver Report. Sample identifications and the analyses requested are provided in the following table.

Sample Location	TA Sample Identification	ARI Sample Identification	Analysis
MW-13A	280-36540-4	VV52F	**TA Denver:** Dissolved Metals (Be, Cr, Cu, Sb, Cd, Pb, Se, Ag, Tl, V, Zn, Ni, Mn, Hg, Sn): 6020; (Ba, Ca, Co, Fe, Mg, K, Na): 6010B General Chemistry (NO_3, Cl, SO_4): 353.2, 9251, 300.0A; (NH_3): 350.1; (TOC): 5310B; (Bicarbonate, Carbonate, Total Alkalinity, TDS) **ARI Tukwila** Dissolved Arsenic **TA Buffalo** Volatile Organic Compounds (VOCs, Selective Ion Monitoring): 8260B, 8260 B SIM
MW-13B	280-36540-1	VV52A	
MW-15R	280-36618-10	VV52Q	
MW-16	280-36618-7	VV52N	
MW-19C	280-36618-6	VV52M	
MW-20	280-36664-1		
MW-23A	280-36618-8	VV52O	
MW-24	280-36618-5	VV52L	
MW-29A	280-36618-12	VV52H	
MW-2B1	280-36618-9	VV52P	
MW-32	280-36664-4		
MW-33A	280-36763-3	VV52E	
MW-33C	280-36540-2	VV52B	
MW-34A	280-36540-3	VV52C	
MW-34C	280-36763-2	VV52D	
MW-35	280-36618-4	VV52K	
MW-36A	280-36618-11	VV52R	
MW-39	280-36618-3	VV52J	

MW-4	280-36664-3		
MW-42	280-36618-1	VV52G	
MW-43	280-36618-2	VV52I	

All samples were collected December 3 to 5, 2012.

2 Sample Handling and Custody Requirements

Samples were sent off site for analysis. Custody of the samples was controlled and documented on chain-of-custody forms. Unique sample identification numbers were recorded on the chain-of-custody forms along with date, time, matrix type, preservative, analyses required for each sample, and other required information. Sample custody was maintained throughout sample collection, transport, and laboratory receipt.

3 Holding Time

All analyses were performed within the recommended maximum holding time with the exception of Nitrite in 208-36763-1 due to shipping delay.

4 Method Blanks

The assessment of blank analysis results is to determine the existence and magnitude of contamination resulting from laboratory activities.

Methylene Chloride Method 8260B was detected in the Method Blank below the project established reporting limit. No further action was taken by the laboratory.

5 Laboratory Control Samples

Data for laboratory control samples (LCS) were provided in order to evaluate the accuracy and performance of the analytical method. GC and GC/MS method performance on individual samples is established by means of spiking system-monitoring compounds (surrogates) and internal standards, which are added just prior to analyses. Conformance with performance criteria ensures that instrument sensitivity and responses are stable throughout analysis.

Goals for LCS recovery were met for all methods.

6 Matrix Spike and Duplicate Analyses

The MS/MSDs on samples and batch blanks were in control for all methods in all lots.

7 Laboratory Duplicate Precision

Laboratory duplicates were in control for all lots.

8 Field Duplicates

Summary of the results from the field duplicate samples and their associated primary samples:

PARAMETER	MW-34C	Dup-1	RPD	MW-20	DUP2	RPD
Alkalinity, Bicarbonate (As CaCO3)	140	140	0%	53	54	2%
Barium, Dissolved	.011	.011	0%	0.0059	0.0054	9%
Ammonia (as N)	**ND**	**ND**	**---**	**ND**	**0.079**	---
Chloride	5.4	5.3	2%	1.1	1.0	10%
Sodium, Dissolved	16	16	0%	8.4	8.4	0%
Magnesium, Dissolved	12	12	0%	7.1	7.1	0%
Sulfate	7.2	5.5	**27%**	2.0	2.0	0%
Calcium, Dissolved	26	27	4%	14	14	0%
Alkalinity, Total (As CaCO3)	140	140	2%	53	54	2%
Total Dissolved Solids (TDS)	210	200	5%	130	130	0%

8 Relative Percent Difference (RPD)

The RPDs for all analytes between duplicate sample MW-34C and DUP1, and MW-20 and DUP2 were within ≤ 20% RPD with the exception of sulfate.

Detection Limits

Analysis provided detection limits sufficiently low to allow site data to be compared to the Primary and Secondary Maximum Contaminant Level (MCL) standards, the WAC 173-200 Groundwater Quality Criterion and the Model Toxics Control Act: Method A Cleanup Level (MTCAA).

Detection limit goals were met for all results; analysis provided detection limits sufficiently low to allow site data to be compared to the applicable groundwater criteria or maximum contaminant level (MCL) standards.

9 Data Validation and Usability

With the exception of the above noted anomalies, standard analytical protocols were followed in the analysis of the samples and all laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits. Limitations are stated and clearly identified where applicable. When detected parameters were below the associated MRL, the value is changed to the MRL and flagged "U" or as a non-detect. As a result of this review,

the data are found to be acceptable as reported by the laboratory for the intended use in this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36540-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
12/20/2012 5:17 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/20/2012

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36540-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 12/04/2012; the samples arrived properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

The lab did not receive volume for samples OBWL-TD, MW-34C and MW-33A which were listed on the chain of custody. The client was notified 12/4/12.

Holding Times

All holding times were within established control limits.

Method Blanks

All Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The percent recoveries and/or the relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Dissolved Calcium, Dissolved Potassium, Dissolved Magnesium and Dissolved Sodium during Method 6010B analysis because the sample concentration was greater than four times the spike amount.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Dissolved Chromium, Dissolved Nickel, Dissolved Silver, Dissolved Vanadium and Dissolved Zinc Method 6020. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

General Comments

The analyses for Volatile Organics by Method 8260B and Volatile Organics by Method 8260B SIM were performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

The analysis for Dissolved Arsenic Method 200.8 was performed by ARI. Their address and phone number are:
Analytical Resources, Inc.
4611 S. 134th Place
Tukwila, WA 98168-3240
206-695-6200

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36540-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36540-1	**MW-13B**					
Depth to water		60.24			ft	Field Sampling
Specific Conductivity		140			umhos/cm	Field Sampling
Dissolved Oxygen		7.57			mg/L	Field Sampling
eH		89.5			millivolts	Field Sampling
Turbidity		1.10			NTU	Field Sampling
Temperature		9.19			Degrees C	Field Sampling
pH		7.32			SU	Field Sampling
Chloride		2.1		1.0	mg/L	300.0
Sulfate		3.5		1.0	mg/L	300.0
Nitrate as N		0.42		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		82		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		82		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		93		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		17		0.040	mg/L	6010B
Magnesium, Dissolved		8.2		0.050	mg/L	6010B
Sodium, Dissolved		5.7		1.0	mg/L	6010B
Barium, Dissolved		0.0035		0.0010	mg/L	6020
Vanadium, Dissolved		0.0052		0.0020	mg/L	6020
280-36540-2	**MW-33C**					
Depth to water		0.90			ft	Field Sampling
Specific Conductivity		141			umhos/cm	Field Sampling
Dissolved Oxygen		0.28			mg/L	Field Sampling
eH		-36.4			millivolts	Field Sampling
Turbidity		0.28			NTU	Field Sampling
Temperature		8.99			Degrees C	Field Sampling
pH		7.89			SU	Field Sampling
Chloride		3.0		1.0	mg/L	300.0
Sulfate		8.0		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		66		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		66		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		92		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		17		0.040	mg/L	6010B
Magnesium, Dissolved		6.7		0.050	mg/L	6010B
Potassium, Dissolved		1.3		1.0	mg/L	6010B
Sodium, Dissolved		4.6		1.0	mg/L	6010B
Barium, Dissolved		0.0038		0.0010	mg/L	6020
Manganese, Dissolved		0.14		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36540-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36540-3	**MW-34A**					
Depth to water		38.45			ft	Field Sampling
Specific Conductivity		93			umhos/cm	Field Sampling
Dissolved Oxygen		8.18			mg/L	Field Sampling
eH		51.9			millivolts	Field Sampling
Turbidity		0.41			NTU	Field Sampling
Temperature		11.16			Degrees C	Field Sampling
pH		5.76			SU	Field Sampling
Chloride		1.9		1.0	mg/L	300.0
Nitrate as N		4.2		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		33		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		33		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		85		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		9.3		0.040	mg/L	6010B
Magnesium, Dissolved		2.6		0.050	mg/L	6010B
Sodium, Dissolved		7.5		1.0	mg/L	6010B
Barium, Dissolved		0.0044		0.0010	mg/L	6020
Chromium, Dissolved		0.0055		0.0030	mg/L	6020
Nickel, Dissolved		0.0073		0.0040	mg/L	6020
Vanadium, Dissolved		0.0025		0.0020	mg/L	6020
280-36540-4	**MW-13A**					
Depth to water		45.55			ft	Field Sampling
Specific Conductivity		107			umhos/cm	Field Sampling
Dissolved Oxygen		8.08			mg/L	Field Sampling
eH		48.2			millivolts	Field Sampling
Turbidity		0			NTU	Field Sampling
Temperature		9.24			Degrees C	Field Sampling
pH		6.95			SU	Field Sampling
Chloride		1.8		1.0	mg/L	300.0
Sulfate		2.2		1.0	mg/L	300.0
Ammonia (as N)		0.12		0.030	mg/L	350.1
Nitrate as N		0.54		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		83		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		83		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		88		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		16		0.040	mg/L	6010B
Magnesium, Dissolved		9.2		0.050	mg/L	6010B
Sodium, Dissolved		5.5		1.0	mg/L	6010B
Barium, Dissolved		0.0029		0.0010	mg/L	6020
Vanadium, Dissolved		0.0037		0.0020	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36540-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B SIM	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36540-1

Method	Analyst	Analyst ID
SW846 8260B	Hill, Leah	LH
SW846 8260B SIM	Brandt, Todd R	TRB
SW846 6010B	Harre, John K	JKH
SW846 6020	Lill, Thomas E	TEL
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
EPA 353.2	Sullivan, Roxanne	RS
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 5310B	Bandy, Darlene F	DFB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36540-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36540-1	MW-13B	Water	12/03/2012 1029	12/04/2012 0900
280-36540-2	MW-33C	Water	12/03/2012 1201	12/04/2012 0900
280-36540-3	MW-34A	Water	12/03/2012 1317	12/04/2012 0900
280-36540-4	MW-13A	Water	12/03/2012 1038	12/04/2012 0900

SAMPLE RESULTS

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1 | Date Sampled: 12/03/2012 1029
Client Matrix: Water | Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2340.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0101			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0101				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1
Client Matrix: Water

Date Sampled: 12/03/2012 1029
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2340.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0101			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0101				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1
Client Matrix: Water

Date Sampled: 12/03/2012 1029
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2340.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0101			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0101				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1 | Date Sampled: 12/03/2012 1029
Client Matrix: Water | Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2340.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0101			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0101				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2
Client Matrix: Water

Date Sampled: 12/03/2012 1201
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2341.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0125			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0125				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2
Client Matrix: Water

Date Sampled: 12/03/2012 1201
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2341.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0125			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0125				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2
Client Matrix: Water

Date Sampled: 12/03/2012 1201
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2341.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0125			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0125				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2
Client Matrix: Water

Date Sampled: 12/03/2012 1201
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2341.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0125			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0125				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3
Client Matrix: Water

Date Sampled: 12/03/2012 1317
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2342.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0149			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0149				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3
Client Matrix: Water

Date Sampled: 12/03/2012 1317
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2342.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0149			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0149				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3
Client Matrix: Water

Date Sampled: 12/03/2012 1317
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2342.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0149			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0149				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	109		71 - 126

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3
Client Matrix: Water

Date Sampled: 12/03/2012 1317
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2342.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0149			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0149				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4 | Date Sampled: 12/03/2012 1038
Client Matrix: Water | Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2343.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0213			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0213				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4
Client Matrix: Water

Date Sampled: 12/03/2012 1038
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2343.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0213			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0213				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4
Client Matrix: Water

Date Sampled: 12/03/2012 1038
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2343.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0213			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0213				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	111		71 - 126

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4
Client Matrix: Water

Date Sampled: 12/03/2012 1038
Date Received: 12/04/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2343.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0213			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0213				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1
Client Matrix: Water

Date Sampled: 12/03/2012 1029
Date Received: 12/04/2012 0900

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0178.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1722			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1722				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2
Client Matrix: Water

Date Sampled: 12/03/2012 1201
Date Received: 12/04/2012 0900

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0179.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1746			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1746				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3
Client Matrix: Water

Date Sampled: 12/03/2012 1317
Date Received: 12/04/2012 0900

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0180.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1811			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1811				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4
Client Matrix: Water

Date Sampled: 12/03/2012 1038
Date Received: 12/04/2012 0900

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0181.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1835			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1835				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1 | Date Sampled: 12/03/2012 1029
Client Matrix: Water | Date Received: 12/04/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2032			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	17		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1643			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	8.2		0.050	0.050
Sodium, Dissolved	5.7		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	083SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1916			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0035		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0052		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2 | Date Sampled: 12/03/2012 1201
Client Matrix: Water | Date Received: 12/04/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2035			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	17		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	1.3		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1646			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	6.7		0.050	0.050
Sodium, Dissolved	4.6		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	084SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1919			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0038		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.14		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3 | Date Sampled: 12/03/2012 1317
Client Matrix: Water | Date Received: 12/04/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2037			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	9.3		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1648			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	2.6		0.050	0.050
Sodium, Dissolved	7.5		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	085SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1922			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0044		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0055		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	0.0073		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0025		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36540-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4 | Date Sampled: 12/03/2012 1038
Client Matrix: Water | Date Received: 12/04/2012 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2039			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	16		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1659			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	9.2		0.050	0.050
Sodium, Dissolved	5.5		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	086SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1925			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0029		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0037		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

General Chemistry

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1 Date Sampled: 12/03/2012 1029
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2059						
Sulfate	3.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2059						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151108	Analysis Date: 12/07/2012 0956						
Nitrate as N	0.42		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-151633	Analysis Date: 12/04/2012 1619						
Alkalinity, Total (As CaCO3)	82		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151684	Analysis Date: 12/11/2012 0945						
Alkalinity, Bicarbonate (As CaCO3)	82		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151684	Analysis Date: 12/11/2012 0945						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151684	Analysis Date: 12/11/2012 0945						
Total Dissolved Solids (TDS)	93		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-150965	Analysis Date: 12/07/2012 0924						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151341	Analysis Date: 12/07/2012 2253						

General Chemistry

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2 Date Sampled: 12/03/2012 1201
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2215						
Sulfate	8.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2215						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151108	Analysis Date: 12/07/2012 1003						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-151633	Analysis Date: 12/04/2012 1619						
Alkalinity, Total (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1511						
Alkalinity, Bicarbonate (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1511						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1511						
Total Dissolved Solids (TDS)	92		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-150965	Analysis Date: 12/07/2012 0924						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151341	Analysis Date: 12/07/2012 2308						

General Chemistry

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3 Date Sampled: 12/03/2012 1317
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2230						
Sulfate	ND		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2230						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151108	Analysis Date: 12/07/2012 1209						
Nitrate as N	4.2		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-151633	Analysis Date: 12/04/2012 1619						
Alkalinity, Total (As CaCO3)	33		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1506						
Alkalinity, Bicarbonate (As CaCO3)	33		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1506						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1506						
Total Dissolved Solids (TDS)	85		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-150965	Analysis Date: 12/07/2012 0924						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151341	Analysis Date: 12/07/2012 2325						

General Chemistry

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4 Date Sampled: 12/03/2012 1038
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2246						
Sulfate	2.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-151962	Analysis Date: 12/11/2012 2246						
Ammonia (as N)	0.12		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151108	Analysis Date: 12/07/2012 1017						
Nitrate as N	0.54		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-151633	Analysis Date: 12/04/2012 1619						
Alkalinity, Total (As CaCO3)	83		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1557						
Alkalinity, Bicarbonate (As CaCO3)	83		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1557						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151272	Analysis Date: 12/08/2012 1557						
Total Dissolved Solids (TDS)	88		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-150965	Analysis Date: 12/07/2012 0924						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151341	Analysis Date: 12/07/2012 2340						

Field Service / Mobile Lab

Client Sample ID: **MW-13B**

Lab Sample ID: 280-36540-1 Date Sampled: 12/03/2012 1029
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	60.24		ft	1.0	Field Sampling	280-151335	12/03/2012 1029
Specific Conductivity	140		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1029
Dissolved Oxygen	7.57		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1029
eH	89.5		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1029
Turbidity	1.10		NTU	1.0	Field Sampling	280-151335	12/03/2012 1029
Temperature	9.19		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1029
pH	7.32		SU	1.0	Field Sampling	280-151335	12/03/2012 1029

Field Service / Mobile Lab

Client Sample ID: **MW-33C**

Lab Sample ID: 280-36540-2 Date Sampled: 12/03/2012 1201
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	0.90		ft	1.0	Field Sampling	280-151335	12/03/2012 1201
Specific Conductivity	141		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1201
Dissolved Oxygen	0.28		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1201
eH	-36.4		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1201
Turbidity	0.28		NTU	1.0	Field Sampling	280-151335	12/03/2012 1201
Temperature	8.99		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1201
pH	7.89		SU	1.0	Field Sampling	280-151335	12/03/2012 1201

Field Service / Mobile Lab

Client Sample ID: **MW-34A**

Lab Sample ID: 280-36540-3 Date Sampled: 12/03/2012 1317
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	38.45		ft	1.0	Field Sampling	280-151335	12/03/2012 1317
Specific Conductivity	93		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1317
Dissolved Oxygen	8.18		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1317
eH	51.9		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1317
Turbidity	0.41		NTU	1.0	Field Sampling	280-151335	12/03/2012 1317
Temperature	11.16		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1317
pH	5.76		SU	1.0	Field Sampling	280-151335	12/03/2012 1317

Field Service / Mobile Lab

Client Sample ID: **MW-13A**

Lab Sample ID: 280-36540-4 Date Sampled: 12/03/2012 1038
Client Matrix: Water Date Received: 12/04/2012 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	45.55		ft	1.0	Field Sampling	280-151335	12/03/2012 1038
Specific Conductivity	107		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1038
Dissolved Oxygen	8.08		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1038
eH	48.2		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1038
Turbidity	0		NTU	1.0	Field Sampling	280-151335	12/03/2012 1038
Temperature	9.24		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1038
pH	6.95		SU	1.0	Field Sampling	280-151335	12/03/2012 1038

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36540-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
Metals		
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36540-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-94990					
LCS 480-94990/2	Lab Control Sample	T	Water	8260B SIM	
MB 480-94990/4	Method Blank	T	Water	8260B SIM	
280-36540-1	MW-13B	T	Water	8260B SIM	
280-36540-2	MW-33C	T	Water	8260B SIM	
280-36540-3	MW-34A	T	Water	8260B SIM	
280-36540-4	MW-13A	T	Water	8260B SIM	
Analysis Batch:480-95079					
LCS 480-95079/4	Lab Control Sample	T	Water	8260B	
MB 480-95079/5	Method Blank	T	Water	8260B	
480-29571-D-1 MS	Matrix Spike	T	Water	8260B	
480-29571-D-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36540-1	MW-13B	T	Water	8260B	
280-36540-2	MW-33C	T	Water	8260B	
280-36540-3	MW-34A	T	Water	8260B	
280-36540-4	MW-13A	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36540-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-150417					
LCS 280-150417/2-B	Lab Control Sample	R	Water	3005A	
MB 280-150417/1-B	Method Blank	R	Water	3005A	
280-36446-C-1-D MS	Matrix Spike	D	Water	3005A	
280-36446-C-1-D MS ^5	Matrix Spike	D	Water	3005A	
280-36446-C-1-E MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36446-C-1-E MSD ^5	Matrix Spike Duplicate	D	Water	3005A	
280-36540-1	MW-13B	D	Water	3005A	
280-36540-2	MW-33C	D	Water	3005A	
280-36540-3	MW-34A	D	Water	3005A	
280-36540-4	MW-13A	D	Water	3005A	
Prep Batch: 280-150767					
LCS 280-150767/2-A	Lab Control Sample	R	Water	3005A	
MB 280-150767/1-A	Method Blank	R	Water	3005A	
280-36540-1	MW-13B	D	Water	3005A	
280-36540-2	MW-33C	D	Water	3005A	
280-36540-3	MW-34A	D	Water	3005A	
280-36540-4	MW-13A	D	Water	3005A	
280-36550-Q-1-B MS ^10	Matrix Spike	D	Water	3005A	
280-36550-Q-1-C MSD ^10	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-151305					
LCS 280-150417/2-B	Lab Control Sample	R	Water	6010B	280-150417
MB 280-150417/1-B	Method Blank	R	Water	6010B	280-150417
280-36446-C-1-D MS	Matrix Spike	D	Water	6010B	280-150417
280-36446-C-1-E MSD	Matrix Spike Duplicate	D	Water	6010B	280-150417
280-36540-1	MW-13B	D	Water	6010B	280-150417
280-36540-2	MW-33C	D	Water	6010B	280-150417
280-36540-3	MW-34A	D	Water	6010B	280-150417
280-36540-4	MW-13A	D	Water	6010B	280-150417
Analysis Batch:280-151333					
LCS 280-150767/2-A	Lab Control Sample	R	Water	6020	280-150767
MB 280-150767/1-A	Method Blank	R	Water	6020	280-150767
280-36540-1	MW-13B	D	Water	6020	280-150767
280-36540-2	MW-33C	D	Water	6020	280-150767
280-36540-3	MW-34A	D	Water	6020	280-150767
280-36540-4	MW-13A	D	Water	6020	280-150767
280-36550-Q-1-B MS ^10	Matrix Spike	D	Water	6020	280-150767
280-36550-Q-1-C MSD ^10	Matrix Spike Duplicate	D	Water	6020	280-150767

Client: Waste Management

Job Number: 280-36540-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-151500					
LCS 280-150417/2-B	Lab Control Sample	R	Water	6010B	280-150417
MB 280-150417/1-B	Method Blank	R	Water	6010B	280-150417
280-36446-C-1-D MS ^5	Matrix Spike	D	Water	6010B	280-150417
280-36446-C-1-E MSD ^5	Matrix Spike Duplicate	D	Water	6010B	280-150417
280-36540-1	MW-13B	D	Water	6010B	280-150417
280-36540-2	MW-33C	D	Water	6010B	280-150417
280-36540-3	MW-34A	D	Water	6010B	280-150417
280-36540-4	MW-13A	D	Water	6010B	280-150417

Report Basis

D = Dissolved

R = Total Recoverable

Field Service / Mobile Lab					
Analysis Batch:280-151335					
280-36540-1	MW-13B	T	Water	Field Sampling	
280-36540-2	MW-33C	T	Water	Field Sampling	
280-36540-3	MW-34A	T	Water	Field Sampling	
280-36540-4	MW-13A	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36540-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-150965					
LCS 280-150965/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-150965/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-150965/1	Method Blank	T	Water	SM 2540C	
280-36538-A-7 DU	Duplicate	T	Water	SM 2540C	
280-36540-1	MW-13B	T	Water	SM 2540C	
280-36540-2	MW-33C	T	Water	SM 2540C	
280-36540-3	MW-34A	T	Water	SM 2540C	
280-36540-4	MW-13A	T	Water	SM 2540C	
Analysis Batch:280-151108					
LCS 280-151108/19	Lab Control Sample	T	Water	350.1	
LCS 280-151108/54	Lab Control Sample	T	Water	350.1	
LCSD 280-151108/20	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-151108/55	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-151108/21	Method Blank	T	Water	350.1	
MB 280-151108/56	Method Blank	T	Water	350.1	
280-36540-1	MW-13B	T	Water	350.1	
280-36540-1MS	Matrix Spike	T	Water	350.1	
280-36540-1MSD	Matrix Spike Duplicate	T	Water	350.1	
280-36540-2	MW-33C	T	Water	350.1	
280-36540-3	MW-34A	T	Water	350.1	
280-36540-4	MW-13A	T	Water	350.1	
Analysis Batch:280-151272					
LCS 280-151272/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-151272/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-151272/6	Method Blank	T	Water	SM 2320B	
280-36540-2	MW-33C	T	Water	SM 2320B	
280-36540-3	MW-34A	T	Water	SM 2320B	
280-36540-4	MW-13A	T	Water	SM 2320B	
280-36561-A-31 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-151341					
LCS 280-151341/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-151341/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-151341/5	Method Blank	T	Water	SM 5310B	
280-36540-1	MW-13B	T	Water	SM 5310B	
280-36540-2	MW-33C	T	Water	SM 5310B	
280-36540-3	MW-34A	T	Water	SM 5310B	
280-36540-4	MW-13A	T	Water	SM 5310B	
280-36546-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-36546-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-36540-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151633					
MB 280-151633/1	Method Blank	T	Water	353.2	
280-36540-1	MW-13B	T	Water	353.2	
280-36540-2	MW-33C	T	Water	353.2	
280-36540-3	MW-34A	T	Water	353.2	
280-36540-4	MW-13A	T	Water	353.2	
Analysis Batch:280-151684					
LCS 280-151684/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-151684/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-151684/33	Method Blank	T	Water	SM 2320B	
280-36540-1	MW-13B	T	Water	SM 2320B	
280-36546-A-2 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-151962					
LCS 280-151962/5	Lab Control Sample	T	Water	300.0	
LCSD 280-151962/6	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-151962/9	Method Blank	T	Water	300.0	
280-36540-1	MW-13B	T	Water	300.0	
280-36540-1DU	Duplicate	T	Water	300.0	
280-36540-1MS	Matrix Spike	T	Water	300.0	
280-36540-1MSD	Matrix Spike Duplicate	T	Water	300.0	
280-36540-2	MW-33C	T	Water	300.0	
280-36540-3	MW-34A	T	Water	300.0	
280-36540-4	MW-13A	T	Water	300.0	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36540-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-36540-1	MW-13B	110	101	111
280-36540-2	MW-33C	109	102	110
280-36540-3	MW-34A	108	101	109
280-36540-4	MW-13A	111	103	111
MB 480-95079/5		110	104	112
LCS 480-95079/4		108	102	107
480-29571-D-1 MS		113	102	109
480-29571-D-1 MSD		113	104	108

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 480-95079

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95079/5	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2339.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0026	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 480-95079

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95079/5	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2339.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0026	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 480-95079

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95079/5	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2339.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0026	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0026				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	66 - 137
4-Bromofluorobenzene (Surr)	104	73 - 120
Toluene-d8 (Surr)	112	71 - 126

Method Blank TICs- Batch: 480-95079

Cas Number	Analyte	RT	Est. Result	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-36540-1

Lab Control Sample - Batch: 480-95079

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-95079/4	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2337.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/10/2012 2339	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/10/2012 2339				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.6	102	71 - 129	
1,1-Dichloroethene	25.0	26.3	105	58 - 121	
1,2,4-Trimethylbenzene	25.0	25.6	102	76 - 121	
1,2-Dichlorobenzene	25.0	25.1	101	80 - 124	
1,2-Dichloroethane	25.0	27.0	108	75 - 127	
Benzene	25.0	26.0	104	71 - 124	
Chlorobenzene	25.0	25.9	103	72 - 120	
cis-1,2-Dichloroethene	25.0	25.6	103	74 - 124	
Ethylbenzene	25.0	26.2	105	77 - 123	
Methyl tert-butyl ether	25.0	26.5	106	64 - 127	
m-Xylene & p-Xylene	50.0	50.8	102	76 - 122	
o-Xylene	25.0	25.2	101	76 - 122	
Tetrachloroethene	25.0	25.5	102	74 - 122	
Toluene	25.0	25.4	102	80 - 122	
trans-1,2-Dichloroethene	25.0	25.7	103	73 - 127	
Trichloroethene	25.0	25.9	104	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	107	71 - 126

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95079

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29571-D-1 MS	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0548			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0548				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29571-D-1 MSD	Analysis Batch:	480-95079	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2353.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 0611			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 0611				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	111	111	71 - 129	0	20		
1,1-Dichloroethene	120	120	58 - 121	0	16		
1,2-Dichlorobenzene	109	111	80 - 124	2	20		
1,2-Dichloroethane	118	119	75 - 127	1	20		
Benzene	115	115	71 - 124	0	13		
Chlorobenzene	114	117	72 - 120	3	25		
cis-1,2-Dichloroethene	112	114	74 - 124	1	15		
Ethylbenzene	114	116	77 - 123	1	15		
Methyl tert-butyl ether	121	117	64 - 127	3	37		
m-Xylene & p-Xylene	110	112	76 - 122	2	16		
o-Xylene	108	110	76 - 122	2	16		
Tetrachloroethene	112	114	74 - 122	1	20		
Toluene	112	113	80 - 122	1	15		
trans-1,2-Dichloroethene	114	113	73 - 127	0	20		
Trichloroethene	115	113	74 - 123	1	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113	113	66 - 137
4-Bromofluorobenzene (Surr)	102	104	73 - 120
Toluene-d8 (Surr)	109	108	71 - 126

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95079

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29571-D-1 MS	Units: ug/L	MSD Lab Sample ID:	480-29571-D-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/11/2012 0548		Analysis Date:	12/11/2012 0611	
Prep Date:	12/11/2012 0548		Prep Date:	12/11/2012 0611	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1-Dichloroethane	ND	25.0	25.0	27.8	27.8
1,1-Dichloroethene	ND	25.0	25.0	30.0	30.1
1,2-Dichlorobenzene	ND	25.0	25.0	27.2	27.7
1,2-Dichloroethane	ND	25.0	25.0	29.4	29.7
Benzene	ND	25.0	25.0	28.7	28.9
Chlorobenzene	ND	25.0	25.0	28.5	29.2
cis-1,2-Dichloroethene	ND	25.0	25.0	28.1	28.4
Ethylbenzene	ND	25.0	25.0	28.5	28.9
Methyl tert-butyl ether	ND	25.0	25.0	30.2	29.3
m-Xylene & p-Xylene	ND	50.0	50.0	54.8	56.0
o-Xylene	ND	25.0	25.0	26.9	27.5
Tetrachloroethene	ND	25.0	25.0	28.1	28.5
Toluene	ND	25.0	25.0	27.9	28.3
trans-1,2-Dichloroethene	ND	25.0	25.0	28.4	28.4
Trichloroethene	ND	25.0	25.0	28.7	28.3

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 480-94990

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 480-94990/4	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0168.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1246	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1246				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Vinyl chloride	ND		0.020	0.020

Lab Control Sample - Batch: 480-94990

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 480-94990/2	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0166.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1155	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1155				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.162	81	60 - 140	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150417/1-B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2001	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0

Method Blank - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150417/1-B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1624	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Magnesium, Dissolved	ND		0.050	0.050
Sodium, Dissolved	ND		1.0	1.0

Client: Waste Management

Job Number: 280-36540-1

Lab Control Sample - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150417/2-B	Analysis Batch:	280-151305	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2003	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	50.2	100	90 - 111	
Cobalt, Dissolved	0.500	0.505	101	89 - 111	
Iron, Dissolved	1.00	1.03	103	89 - 115	
Potassium, Dissolved	50.0	51.4	103	89 - 114	

Lab Control Sample - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150417/2-B	Analysis Batch:	280-151500	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1626	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Magnesium, Dissolved	50.0	48.1	96	90 - 113	
Sodium, Dissolved	50.0	51.6	103	90 - 115	

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36446-C-1-D MS	Analysis Batch:	280-151305	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2012			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36446-C-1-E MSD	Analysis Batch:	280-151305	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A4120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2016			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	32	100	48 - 153	12	20	4	4
Cobalt, Dissolved	85	95	82 - 119	11	20		
Iron, Dissolved	87	98	52 - 155	12	20		
Potassium, Dissolved	55	123	76 - 132	14	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36446-C-1-D MS ^5	Analysis Batch:	280-151500	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1633			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36446-C-1-E MSD ^5	Analysis Batch:	280-151500	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-150417	Lab File ID:	25A2121012.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1636			Final Weight/Volume:	50 mL
Prep Date:	12/06/2012 0800				
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Magnesium, Dissolved	14	161	62 - 146	9	20	4	4
Sodium, Dissolved	-292	491	70 - 203	7	20	4	4

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36446-C-1-D MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/07/2012 2012		
Prep Date:	12/06/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36446-C-1-E MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/07/2012 2016
Prep Date:	12/06/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Calcium, Dissolved	250	50.0	50.0	265	4	299	4
Cobalt, Dissolved	ND	0.500	0.500	0.424		0.476	
Iron, Dissolved	ND	1.00	1.00	0.868		0.981	
Potassium, Dissolved	200	50.0	50.0	232	4	266	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150417

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36446-C-1-D MS ^5	Units: mg/L	
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	12/10/2012 1633		
Prep Date:	12/06/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36446-C-1-E MSD ^5
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	12/10/2012 1636
Prep Date:	12/06/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Magnesium, Dissolved	760	50.0	50.0	765	4	839	4
Sodium, Dissolved	5300	50.0	50.0	5190	4	5590	4

Method Blank - Batch: 280-150767

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150767/1-A	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	081_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1910	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	ND		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-150767

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150767/2-A	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	082_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1913	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0404	101	85 - 115	
Barium, Dissolved	0.0400	0.0406	101	85 - 118	
Beryllium, Dissolved	0.0400	0.0396	99	80 - 125	
Cadmium, Dissolved	0.0400	0.0393	98	85 - 115	
Chromium, Dissolved	0.0400	0.0379	95	84 - 121	
Copper, Dissolved	0.0400	0.0393	98	85 - 119	
Lead, Dissolved	0.0400	0.0415	104	85 - 118	
Manganese, Dissolved	0.0400	0.0395	99	85 - 117	
Nickel, Dissolved	0.0400	0.0395	99	85 - 119	
Selenium, Dissolved	0.0400	0.0438	110	77 - 122	
Silver, Dissolved	0.0400	0.0394	98	85 - 115	
Thallium, Dissolved	0.0400	0.0431	108	85 - 118	
Vanadium, Dissolved	0.0400	0.0372	93	85 - 120	
Zinc, Dissolved	0.0400	0.0410	102	83 - 122	

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150767

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36550-Q-1-B MS ^10	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	116_MS.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2055			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36550-Q-1-C MSD	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	117_MSD.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2058			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	100	101	85 - 115	2	20		
Barium, Dissolved	102	110	85 - 118	3	20		
Beryllium, Dissolved	95	101	80 - 125	7	20		
Cadmium, Dissolved	87	92	85 - 115	5	20		
Chromium, Dissolved	119	123	84 - 121	4	20		F
Copper, Dissolved	112	113	85 - 119	1	20		
Lead, Dissolved	86	88	85 - 118	2	20		
Manganese, Dissolved	106	116	85 - 117	3	20		
Nickel, Dissolved	134	138	85 - 119	3	20	F	F
Selenium, Dissolved	112	115	77 - 122	2	20		
Silver, Dissolved	83	85	85 - 115	2	20	F	
Thallium, Dissolved	97	99	85 - 118	2	20		
Vanadium, Dissolved	120	126	85 - 120	5	20		F
Zinc, Dissolved	NC	NC	83 - 122	NC	20		

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150767

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36550-Q-1-B MS ^10	Units:	mg/L
Client Matrix:	Water		
Dilution:	10		
Analysis Date:	12/07/2012 2055		
Prep Date:	12/07/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36550-Q-1-C MSD
Client Matrix:	Water
Dilution:	10
Analysis Date:	12/07/2012 2058
Prep Date:	12/07/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Dissolved	ND	0.0400	0.0400	0.0398		0.0406	
Barium, Dissolved	0.068	0.0400	0.0400	0.109		0.112	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0379		0.0406	
Cadmium, Dissolved	0.012	0.0400	0.0400	0.0463		0.0485	
Chromium, Dissolved	ND	0.0400	0.0400	0.0474		0.0493	F
Copper, Dissolved	ND	0.0400	0.0400	0.0448		0.0453	
Lead, Dissolved	ND	0.0400	0.0400	0.0346		0.0353	
Manganese, Dissolved	0.094	0.0400	0.0400	0.137		0.141	
Nickel, Dissolved	ND	0.0400	0.0400	0.0537	F	0.0554	F
Selenium, Dissolved	0.020	0.0400	0.0400	0.0642		0.0658	
Silver, Dissolved	ND	0.0400	0.0400	0.0333	F	0.0340	
Thallium, Dissolved	ND	0.0400	0.0400	0.0387		0.0394	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0479		0.0503	F
Zinc, Dissolved	ND	0.0400	0.0400	ND		ND	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151962

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-151962/9	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1523	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-151962

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-151962/4	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1412	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	114	50 - 150	
Sulfate	1.00	ND	114	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151962

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151962/5	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1427	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151962/6	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1442	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	97	96	90 - 110	0	10		
Sulfate	93	93	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36540-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151962

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151962/5	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151962/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 1427			Analysis Date:	12/11/2012 1442
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	24.2	24.1
Sulfate	25.0	25.0	23.4	23.3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151962

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36540-1	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2145			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36540-1	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2200			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	110	110	80 - 120	1	20		
Sulfate	107	106	80 - 120	0	20		

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151962

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36540-1	Units: mg/L	MSD Lab Sample ID:	280-36540-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/11/2012 2145		Analysis Date:	12/11/2012 2200	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	2.1	25.0	25.0	29.6	29.5
Sulfate	3.5	25.0	25.0	30.1	30.1

Duplicate - Batch: 280-151962

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36540-1	Analysis Batch:	280-151962	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2044	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.1	2.08	0.2	15	
Sulfate	3.5	3.44	0.2	15	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151108

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151108/21	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0907	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Method Blank - Batch: 280-151108

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151108/56	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 1035	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Client: Waste Management

Job Number: 280-36540-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151108/19	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0903	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151108/20	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0905	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	97	98	90 - 110	2	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151108/54	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 1031	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151108/55	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 1033	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	100	101	90 - 110	1	10		

Client: Waste Management

Job Number: 280-36540-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151108/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151108/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 0903			Analysis Date:	12/07/2012 0905
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.41	2.45

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151108/54	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151108/55
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 1031			Analysis Date:	12/07/2012 1033
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.51	2.54

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36540-1	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/07/2012 0959			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36540-1	Analysis Batch:	280-151108	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\120612B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/07/2012 1001			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	96	96	90 - 110	1	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151108

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36540-1	Units:	mg/L	MSD Lab Sample ID:	280-36540-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 0959			Analysis Date:	12/07/2012 1001
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	ND	1.00	1.00	0.956	0.964

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151633

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-151633/1	Analysis Batch:	280-151633	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/04/2012 1619	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151272

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-151272/6	Analysis Batch:	280-151272	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120812a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/08/2012 1448	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151272

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151272/4	Analysis Batch:	280-151272	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120812a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/08/2012 1439	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151272/5	Analysis Batch:	280-151272	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120812a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/08/2012 1444	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	100	100	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151272

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151272/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151272/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/08/2012 1439			Analysis Date:	12/08/2012 1444
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	201	201

Client: Waste Management

Job Number: 280-36540-1

Duplicate - Batch: 280-151272

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36561-A-31 DU	Analysis Batch:	280-151272	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120812a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/08/2012 1458	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	490	490	0.1	10	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151684

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-151684/33	Analysis Batch:	280-151684	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0927	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151684

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151684/31	Analysis Batch:	280-151684	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0918	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151684/32	Analysis Batch:	280-151684	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0923	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	105	107	90 - 110	2	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151684

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151684/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151684/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0918			Analysis Date:	12/11/2012 0923
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	210	214

Client: Waste Management

Job Number: 280-36540-1

Duplicate - Batch: 280-151684

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36546-A-2 DU	Analysis Batch:	280-151684	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0936	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	110	112	0.8	10	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-150965

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-150965/1	Analysis Batch:	280-150965	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0924	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-150965

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-150965/2	Analysis Batch:	280-150965	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0924	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-150965/3	Analysis Batch:	280-150965	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2012 0924	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	96	98	86 - 110	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-150965

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-150965/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-150965/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 0924			Analysis Date:	12/07/2012 0924
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	483	492

Client: Waste Management

Job Number: 280-36540-1

Duplicate - Batch: 280-150965

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36538-A-7 DU	Analysis Batch:	280-150965	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 0924	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	1400	1450	0.8	10	

Client: Waste Management

Job Number: 280-36540-1

Method Blank - Batch: 280-151341

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-151341/5	Analysis Batch:	280-151341	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 1831	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151341

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151341/3	Analysis Batch:	280-151341	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 1800	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151341/4	Analysis Batch:	280-151341	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 1816	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	96	97	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151341

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151341/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151341/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 1800			Analysis Date:	12/07/2012 1816
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.1	24.2

Client: Waste Management

Job Number: 280-36540-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151341

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36546-B-1 MS	Analysis Batch:	280-151341	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 2222			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36546-B-1 MSD	Analysis Batch:	280-151341	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 2238			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	98	99	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151341

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36546-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36546-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 2222			Analysis Date:	12/07/2012 2238
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	9.1	25.0	25.0	33.7	33.8

Client: Waste Management Job Number: 280-36540-1

Laboratory Chronicle

Lab ID: 280-36540-1 **Client ID:** MW-13B

Sample Date/Time: 12/03/2012 10:29 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36540-D-1		480-95079		12/11/2012 01:01	1	TAL BUF	LH
A:8260B	280-36540-D-1		480-95079		12/11/2012 01:01	1	TAL BUF	LH
P:5030B	280-36540-E-1		480-94990		12/10/2012 17:22	1	TAL BUF	TRB
A:8260B SIM	280-36540-E-1		480-94990		12/10/2012 17:22	1	TAL BUF	TRB
P:3005A	280-36540-C-1-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-1-B		280-151305	280-150417	12/07/2012 20:32	1	TAL DEN	JKH
P:3005A	280-36540-C-1-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-1-B		280-151500	280-150417	12/10/2012 16:43	1	TAL DEN	JKH
P:3005A	280-36540-C-1-C		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36540-C-1-C		280-151333	280-150767	12/07/2012 19:16	1	TAL DEN	TEL
A:300.0	280-36540-A-1		280-151962		12/11/2012 20:59	1	TAL DEN	EK
A:350.1	280-36540-B-1		280-151108		12/07/2012 09:56	1	TAL DEN	BMG
A:353.2	280-36540-A-1		280-151633		12/04/2012 16:19	1	TAL DEN	RS
A:SM 2320B	280-36540-A-1		280-151684		12/11/2012 09:45	1	TAL DEN	DA
A:SM 2540C	280-36540-A-1		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	280-36540-B-1		280-151341		12/07/2012 22:53	1	TAL DEN	DFB
A:Field Sampling	280-36540-A-1		280-151335		12/03/2012 10:29	1	TAL DEN	FS

Lab ID: 280-36540-1 MS **Client ID:** MW-13B

Sample Date/Time: 12/03/2012 10:29 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36540-A-1 MS		280-151962		12/11/2012 21:45	1	TAL DEN	EK
A:350.1	280-36540-B-1 MS		280-151108		12/07/2012 09:59	1	TAL DEN	BMG

Lab ID: 280-36540-1 MSD **Client ID:** MW-13B

Sample Date/Time: 12/03/2012 10:29 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36540-A-1 MSD		280-151962		12/11/2012 22:00	1	TAL DEN	EK
A:350.1	280-36540-B-1 MSD		280-151108		12/07/2012 10:01	1	TAL DEN	BMG

Lab ID: 280-36540-1 DU **Client ID:** MW-13B

Sample Date/Time: 12/03/2012 10:29 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36540-A-1 DU		280-151962		12/11/2012 20:44	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36540-1

Laboratory Chronicle

Lab ID: 280-36540-2 **Client ID:** MW-33C

Sample Date/Time: 12/03/2012 12:01 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36540-D-2		480-95079		12/11/2012 01:25	1	TAL BUF	LH
A:8260B	280-36540-D-2		480-95079		12/11/2012 01:25	1	TAL BUF	LH
P:5030B	280-36540-E-2		480-94990		12/10/2012 17:46	1	TAL BUF	TRB
A:8260B SIM	280-36540-E-2		480-94990		12/10/2012 17:46	1	TAL BUF	TRB
P:3005A	280-36540-C-2-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-2-B		280-151305	280-150417	12/07/2012 20:35	1	TAL DEN	JKH
P:3005A	280-36540-C-2-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-2-B		280-151500	280-150417	12/10/2012 16:46	1	TAL DEN	JKH
P:3005A	280-36540-C-2-C		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36540-C-2-C		280-151333	280-150767	12/07/2012 19:19	1	TAL DEN	TEL
A:300.0	280-36540-A-2		280-151962		12/11/2012 22:15	1	TAL DEN	EK
A:350.1	280-36540-B-2		280-151108		12/07/2012 10:03	1	TAL DEN	BMG
A:353.2	280-36540-A-2		280-151633		12/04/2012 16:19	1	TAL DEN	RS
A:SM 2320B	280-36540-A-2		280-151272		12/08/2012 15:11	1	TAL DEN	DA
A:SM 2540C	280-36540-A-2		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	280-36540-B-2		280-151341		12/07/2012 23:08	1	TAL DEN	DFB
A:Field Sampling	280-36540-A-2		280-151335		12/03/2012 12:01	1	TAL DEN	FS

Lab ID: 280-36540-3 **Client ID:** MW-34A

Sample Date/Time: 12/03/2012 13:17 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36540-D-3		480-95079		12/11/2012 01:49	1	TAL BUF	LH
A:8260B	280-36540-D-3		480-95079		12/11/2012 01:49	1	TAL BUF	LH
P:5030B	280-36540-E-3		480-94990		12/10/2012 18:11	1	TAL BUF	TRB
A:8260B SIM	280-36540-E-3		480-94990		12/10/2012 18:11	1	TAL BUF	TRB
P:3005A	280-36540-C-3-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-3-B		280-151305	280-150417	12/07/2012 20:37	1	TAL DEN	JKH
P:3005A	280-36540-C-3-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-3-B		280-151500	280-150417	12/10/2012 16:48	1	TAL DEN	JKH
P:3005A	280-36540-C-3-C		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36540-C-3-C		280-151333	280-150767	12/07/2012 19:22	1	TAL DEN	TEL
A:300.0	280-36540-A-3		280-151962		12/11/2012 22:30	1	TAL DEN	EK
A:350.1	280-36540-B-3		280-151108		12/07/2012 12:09	1	TAL DEN	BMG
A:353.2	280-36540-A-3		280-151633		12/04/2012 16:19	1	TAL DEN	RS
A:SM 2320B	280-36540-A-3		280-151272		12/08/2012 15:06	1	TAL DEN	DA
A:SM 2540C	280-36540-A-3		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	280-36540-B-3		280-151341		12/07/2012 23:25	1	TAL DEN	DFB
A:Field Sampling	280-36540-A-3		280-151335		12/03/2012 13:17	1	TAL DEN	FS

Client: Waste Management Job Number: 280-36540-1

Laboratory Chronicle

Lab ID: 280-36540-4 **Client ID:** MW-13A

Sample Date/Time: 12/03/2012 10:38 Received Date/Time: 12/04/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36540-D-4		480-95079		12/11/2012 02:13	1	TAL BUF	LH
A:8260B	280-36540-D-4		480-95079		12/11/2012 02:13	1	TAL BUF	LH
P:5030B	280-36540-E-4		480-94990		12/10/2012 18:35	1	TAL BUF	TRB
A:8260B SIM	280-36540-E-4		480-94990		12/10/2012 18:35	1	TAL BUF	TRB
P:3005A	280-36540-C-4-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-4-B		280-151305	280-150417	12/07/2012 20:39	1	TAL DEN	JKH
P:3005A	280-36540-C-4-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36540-C-4-B		280-151500	280-150417	12/10/2012 16:59	1	TAL DEN	JKH
P:3005A	280-36540-C-4-C		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36540-C-4-C		280-151333	280-150767	12/07/2012 19:25	1	TAL DEN	TEL
A:300.0	280-36540-A-4		280-151962		12/11/2012 22:46	1	TAL DEN	EK
A:350.1	280-36540-B-4		280-151108		12/07/2012 10:17	1	TAL DEN	BMG
A:353.2	280-36540-A-4		280-151633		12/04/2012 16:19	1	TAL DEN	RS
A:SM 2320B	280-36540-A-4		280-151272		12/08/2012 15:57	1	TAL DEN	DA
A:SM 2540C	280-36540-A-4		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	280-36540-B-4		280-151341		12/07/2012 23:40	1	TAL DEN	DFB
A:Field Sampling	280-36540-A-4		280-151335		12/03/2012 10:38	1	TAL DEN	FS

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-95079/5		480-95079		12/11/2012 00:26	1	TAL BUF	LH
A:8260B	MB 480-95079/5		480-95079		12/11/2012 00:26	1	TAL BUF	LH
P:5030B	MB 480-94990/4		480-94990		12/10/2012 12:46	1	TAL BUF	TRB
A:8260B SIM	MB 480-94990/4		480-94990		12/10/2012 12:46	1	TAL BUF	TRB
P:3005A	MB 280-150417/1-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	MB 280-150417/1-B		280-151305	280-150417	12/07/2012 20:01	1	TAL DEN	JKH
P:3005A	MB 280-150417/1-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	MB 280-150417/1-B		280-151500	280-150417	12/10/2012 16:24	1	TAL DEN	JKH
P:3005A	MB 280-150767/1-A		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	MB 280-150767/1-A		280-151333	280-150767	12/07/2012 19:10	1	TAL DEN	TEL
A:300.0	MB 280-151962/9		280-151962		12/11/2012 15:23	1	TAL DEN	EK
A:350.1	MB 280-151108/21		280-151108		12/07/2012 09:07	1	TAL DEN	BMG
A:350.1	MB 280-151108/56		280-151108		12/07/2012 10:35	1	TAL DEN	BMG
A:353.2	MB 280-151633/1		280-151633		12/04/2012 16:19	1	TAL DEN	RS
A:SM 2320B	MB 280-151272/6		280-151272		12/08/2012 14:48	1	TAL DEN	DA
A:SM 2320B	MB 280-151684/33		280-151684		12/11/2012 09:27	1	TAL DEN	DA
A:SM 2540C	MB 280-150965/1		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	MB 280-151341/5		280-151341		12/07/2012 18:31	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36540-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-95079/4		480-95079		12/10/2012 23:39	1	TAL BUF	LH
A:8260B	LCS 480-95079/4		480-95079		12/10/2012 23:39	1	TAL BUF	LH
P:5030B	LCS 480-94990/2		480-94990		12/10/2012 11:55	1	TAL BUF	TRB
A:8260B SIM	LCS 480-94990/2		480-94990		12/10/2012 11:55	1	TAL BUF	TRB
P:3005A	LCS 280-150417/2-B		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	LCS 280-150417/2-B		280-151305	280-150417	12/07/2012 20:03	1	TAL DEN	JKH
P:3005A	LCS 280-150417/2-B		280-151500	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	LCS 280-150417/2-B		280-151500	280-150417	12/10/2012 16:26	1	TAL DEN	JKH
P:3005A	LCS 280-150767/2-A		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	LCS 280-150767/2-A		280-151333	280-150767	12/07/2012 19:13	1	TAL DEN	TEL
A:300.0	LCS 280-151962/5		280-151962		12/11/2012 14:27	1	TAL DEN	EK
A:350.1	LCS 280-151108/19		280-151108		12/07/2012 09:03	1	TAL DEN	BMG
A:350.1	LCS 280-151108/54		280-151108		12/07/2012 10:31	1	TAL DEN	BMG
A:SM 2320B	LCS 280-151272/4		280-151272		12/08/2012 14:39	1	TAL DEN	DA
A:SM 2320B	LCS 280-151684/31		280-151684		12/11/2012 09:18	1	TAL DEN	DA
A:SM 2540C	LCS 280-150965/2		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	LCS 280-151341/3		280-151341		12/07/2012 18:00	1	TAL DEN	DFB

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-151962/6		280-151962		12/11/2012 14:42	1	TAL DEN	EK
A:350.1	LCSD 280-151108/20		280-151108		12/07/2012 09:05	1	TAL DEN	BMG
A:350.1	LCSD 280-151108/55		280-151108		12/07/2012 10:33	1	TAL DEN	BMG
A:SM 2320B	LCSD 280-151272/5		280-151272		12/08/2012 14:44	1	TAL DEN	DA
A:SM 2320B	LCSD 280-151684/32		280-151684		12/11/2012 09:23	1	TAL DEN	DA
A:SM 2540C	LCSD 280-150965/3		280-150965		12/07/2012 09:24	1	TAL DEN	SB
A:SM 5310B	LCSD 280-151341/4		280-151341		12/07/2012 18:16	1	TAL DEN	DFB

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-151962/4		280-151962		12/11/2012 14:12	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36540-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29571-D-1 MS		480-95079		12/11/2012 05:48	1	TAL BUF	LH
A:8260B	480-29571-D-1 MS		480-95079		12/11/2012 05:48	1	TAL BUF	LH
P:3005A	280-36446-C-1-D MS		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36446-C-1-D MS		280-151305	280-150417	12/07/2012 20:12	1	TAL DEN	JKH
P:3005A	280-36446-C-1-D MS ^5		280-151500	280-150417	12/06/2012 08:00	5	TAL DEN	RC
A:6010B	280-36446-C-1-D MS ^5		280-151500	280-150417	12/10/2012 16:33	5	TAL DEN	JKH
P:3005A	280-36550-Q-1-B MS ^10		280-151333	280-150767	12/07/2012 08:00	10	TAL DEN	RC
A:6020	280-36550-Q-1-B MS ^10		280-151333	280-150767	12/07/2012 20:55	10	TAL DEN	TEL
A:SM 5310B	280-36546-B-1 MS		280-151341		12/07/2012 22:22	1	TAL DEN	DFB

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29571-D-1 MSD		480-95079		12/11/2012 06:11	1	TAL BUF	LH
A:8260B	480-29571-D-1 MSD		480-95079		12/11/2012 06:11	1	TAL BUF	LH
P:3005A	280-36446-C-1-E MSD		280-151305	280-150417	12/06/2012 08:00	1	TAL DEN	RC
A:6010B	280-36446-C-1-E MSD		280-151305	280-150417	12/07/2012 20:16	1	TAL DEN	JKH
P:3005A	280-36446-C-1-E MSD ^5		280-151500	280-150417	12/06/2012 08:00	5	TAL DEN	RC
A:6010B	280-36446-C-1-E MSD ^5		280-151500	280-150417	12/10/2012 16:36	5	TAL DEN	JKH
P:3005A	280-36550-Q-1-C MSD ^10		280-151333	280-150767	12/07/2012 08:00	10	TAL DEN	RC
A:6020	280-36550-Q-1-C MSD ^10		280-151333	280-150767	12/07/2012 20:58	10	TAL DEN	TEL
A:SM 5310B	280-36546-B-1 MSD		280-151341		12/07/2012 22:38	1	TAL DEN	DFB

Lab ID: DU **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-36561-A-31 DU		280-151272		12/08/2012 14:58	1	TAL DEN	DA
A:SM 2320B	280-36546-A-2 DU		280-151684		12/11/2012 09:36	1	TAL DEN	DA
A:SM 2540C	280-36538-A-7 DU		280-150965		12/07/2012 09:24	1	TAL DEN	SB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 2.4 (W) 12/12/12 RP

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: SCS	Project Manager: Emily Smart	Date:	Chain of Custody Number: 170102
Address: 2405 140th Ave NE	Telephone Number (Area Code)/Fax Number: 425 289 5443	Lab Number:	Page _____ of _____
City: Bellevue / State: WA / Zip Code: 98005	Site Contact:	Lab Contact: Betsy Swan	
Project Name and Location (State): WA02/ASL	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 28002692			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAcl/NaOH	Na2S2O3	Analysis (Attach list if more space is needed): Cl/SO4/TDS/Alk	Metals (Diss)	TOC/NH3	VOCs - Buffalo	VOCs - STL-Buffalo	NO2/NO3	Metals (Tot)	COD	TOT Coliform	Total Cyanide	BOD	Alks/Cl/Sulfate	Special Instructions/ Conditions of Receipt
OBWL-TD	12/3	0955		X			2	1	2	6	1		1	X	X	X	X	X	X	X	X	X	X	X	X	
MW-13B		1029					1	1	1	6				X	X	X	X	X	X						X	
MW-33C		1201																								
MW-34A		1317																								
MW-34C		1442																								
MW-33A		1150																								
MW-13A		1038																								

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 12/3/12	Time: 1600	1. Received By: [signature]	Date: 12/4/12	Time: 0900
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments
Custody Seal # 730209, 730210

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill
Site No.:
Sample Point: MW13B (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 30540 - 1

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/3/12	10:16				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ..., Dedicated: (Y) or N
Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)
Purging Device: ____ (A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle)
Sampling Device: ____
Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)
X-Other: ____
Sample Tube Type: ____ (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____)

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	60.24	

Total Well Depth (from TOC) (ft) | Stick Up (from ground elevation) (ft) | Casing ID (in) | Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:16	1st							
10:20	2nd	7.08	1.40	9.24	1.42	8.02	85.2	60.24
10:23	3rd	7.05	1.40	9.18	0.89	7.43	89.5	60.24
10:26	4th	7.23	1.40	9.18	0.73	7.56	89.8	60.25
10:29		7.32	1.40	9.19	1.10	7.57	89.5	60.40
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/3/12	7.32	1.40	9.19	1.10	7.57	89.5	1029

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____
Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N
Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-3C (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 30540-2

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120312	1116				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: [Y] or [N]

Purging Device: [ ] A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: [ ]

X-Other:

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Filter Type: [ ] A-In-line Disposable, B-Pressure, C-Vacuum, X-Other:

Sample Tube Type: [ ] A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (feet msl)

Depth to Water (DTW) (from TOC): 090 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1134	1st		1st					
1139	2nd	6.90	2nd 1143	9.01	1.32	3.12	16.5	10.9
1152	3rd	7.04	3rd 1141	9.00	0.98	1.90	-14.9	10.9
1155	4th	7.15	4th 1141	9.00	0.55	0.55	-32.6	10.9
1158		7.81	1142	8.99	0.35	0.36	-28.5	10.9
1201		7.89	1141	8.99	0.28	0.28	-36.4	10.9
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120312	7.89	1141	8.99	0.28	0.28	-36.4	1201

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: Odor: Color: Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Matt Olthafer		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: ____ Sample Point: MW3M1A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted/along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36540-3

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/3/12	1305				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____ Sampling Device: ____ X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl) — Depth to Water (DTW) (from TOC): 38.45 (ft) — Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft) — Stick Up (from ground elevation): ____ (ft) — Casing ID: ____ (in) — Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1"	1305	400	6.55	Reject	Reject	1.33	7.27	518.1	38.53
2"	1308			9.18	11.10				
3"	1311		6.213	9.14	11.10	0.07	7.89	514.6	38.80
4"	1314		5.817	9.13	11.16	0.16	8.13	512.2	38.85
	1317	V	5.716	9.13	11.16	0.41	8.18	516.9	38.60
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/3/12	5.716	9.13	11.16	0.41	8.18	516.9	1317

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	Matt O'Hare	[signature]	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-113A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample coolers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36540-4

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120312	1022				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: _____

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other _____

WELL DATA

Well Elevation (at TOC) _____ (ft/msl)

Depth to Water (DTW) (from TOC) 45.55 (ft)

Groundwater Elevation (site datum, from TOC) _____ (ft/msl)

Total Well Depth (from TOC) _____ (ft)

Stick Up (from ground elevation) _____ (ft)

Casing ID _____ (in)

Casing Material _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1025	1"	6.97	1.08	9.26	0.0	8.41	51.0	45.60
1030	2"	6.98	1.07	9.25	0.0	8.21	48.5	45.55
1035	3"	6.96	1.08	9.26	0.0	8.13	48.4	
1038	4"	6.95	1.07	9.24		8.08	48.2	
Suggested range for 3 consec. readings or per Permit/State requirements		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120312	6.95	1.07	9.24	10	8.08	48.2	1038

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

FIELD COMMENTS

8

7

30

400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36540-1

Login Number: 36540

List Source: TestAmerica Denver

List Number: 1

Creator: Laspe, Laura

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	samples mw-34c and mw-33A were not recieved
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36540-1

Login Number: 36540
List Number: 1
Creator: Robison, Zachary

List Source: TestAmerica Buffalo
List Creation: 12/07/12 04:39 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36618-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
12/21/2012 8:33 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/21/2012

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36618-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 12/05/2012; the samples arrived properly preserved and on ice. The temperatures of the coolers at receipt were 4.0º C, 4.6º C and 5.4º C.

The chain of custody lists six hydrochloric acid preserved vials were sent for sample MW-16, however, the lab only received three vials for this sample. Sufficient volume remained to proceed with the requested analyses. The client was notified 12/6/12.

Holding Times

All holding times were within established control limits.

Method Blanks

All Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for Methyl tert-butyl ether Method 8260B, Dissolved Chromium, Dissolved Nickel, Dissolved Silver, Dissolved Vanadium and Dissolved Zinc Method 6020. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other MS and MSD samples were within established control limits.

General Comments

The analyses for Volatile Organics by Method 8260B and Volatile Organics by Method 8260B SIM were performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

The analysis for Dissolved Arsenic Method 200.8 was performed by ARI. Their address and phone number are:
Analytical Resources, Inc.
4611 S. 134th Place
Tukwila, WA 98168-3240
206-695-6200

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-1	**MW-42**					
Vinyl chloride		0.030		0.020	ug/L	8260B SIM
Depth to water		25.72			ft	Field Sampling
Specific Conductivity		585			umhos/cm	Field Sampling
Dissolved Oxygen		0.13			mg/L	Field Sampling
eH		-71.7			millivolts	Field Sampling
Turbidity		0.77			NTU	Field Sampling
Temperature		12.30			Degrees C	Field Sampling
pH		6.48			SU	Field Sampling
Chloride		24		1.0	mg/L	300.0
Sulfate		16		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		240		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		240		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		310		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		8.2		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		44		0.040	mg/L	6010B
Iron, Dissolved		28		0.060	mg/L	6010B
Magnesium, Dissolved		18		0.050	mg/L	6010B
Potassium, Dissolved		7.8		1.0	mg/L	6010B
Sodium, Dissolved		21		1.0	mg/L	6010B
Barium, Dissolved		0.13		0.0010	mg/L	6020
Manganese, Dissolved		5.0		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-2	**MW-43**					
Depth to water		19.64			ft	Field Sampling
Specific Conductivity		49			umhos/cm	Field Sampling
Dissolved Oxygen		2.37			mg/L	Field Sampling
eH		11.2			millivolts	Field Sampling
Turbidity		2.43			NTU	Field Sampling
Temperature		11.09			Degrees C	Field Sampling
pH		5.60			SU	Field Sampling
Chloride		1.4		1.0	mg/L	300.0
Sulfate		2.0		1.0	mg/L	300.0
Ammonia (as N)		0.070		0.030	mg/L	350.1
Nitrate as N		0.57		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		18		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		18		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		41		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		4.1		0.040	mg/L	6010B
Iron, Dissolved		0.45		0.060	mg/L	6010B
Magnesium, Dissolved		1.7		0.050	mg/L	6010B
Sodium, Dissolved		2.5		1.0	mg/L	6010B
Barium, Dissolved		0.0043		0.0010	mg/L	6020
Manganese, Dissolved		0.18		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-3	**MW-39**					
Depth to water		16.16			ft	Field Sampling
Specific Conductivity		156			umhos/cm	Field Sampling
Dissolved Oxygen		1.58			mg/L	Field Sampling
eH		-15.4			millivolts	Field Sampling
Turbidity		3.33			NTU	Field Sampling
Temperature		11.64			Degrees C	Field Sampling
pH		5.85			SU	Field Sampling
Chloride		2.0		1.0	mg/L	300.0
Sulfate		2.1		1.0	mg/L	300.0
Ammonia (as N)		0.040		0.030	mg/L	350.1
Nitrate as N		5.3		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		61		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		61		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.0		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		6.0		0.050	mg/L	6010B
Sodium, Dissolved		7.4		1.0	mg/L	6010B
Barium, Dissolved		0.010		0.0010	mg/L	6020
Manganese, Dissolved		0.0040		0.0010	mg/L	6020
280-36618-4	**MW-35**					
Depth to water		70.27			ft	Field Sampling
Specific Conductivity		148			umhos/cm	Field Sampling
Dissolved Oxygen		7.14			mg/L	Field Sampling
eH		-3.0			millivolts	Field Sampling
Turbidity		3.26			NTU	Field Sampling
Temperature		9.76			Degrees C	Field Sampling
pH		7.16			SU	Field Sampling
Chloride		1.9		1.0	mg/L	300.0
Sulfate		2.5		1.0	mg/L	300.0
Nitrate as N		0.42		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		76		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		76		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		8.6		0.050	mg/L	6010B
Sodium, Dissolved		4.5		1.0	mg/L	6010B
Barium, Dissolved		0.0029		0.0010	mg/L	6020
Vanadium, Dissolved		0.0041		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-5	**MW-24**					
Depth to water		32.30			ft	Field Sampling
Specific Conductivity		155			umhos/cm	Field Sampling
Dissolved Oxygen		0.10			mg/L	Field Sampling
eH		-56.9			millivolts	Field Sampling
Turbidity		4.06			NTU	Field Sampling
Temperature		11.99			Degrees C	Field Sampling
pH		6.45			SU	Field Sampling
Chloride		3.2		1.0	mg/L	300.0
Sulfate		4.8		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		93		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		93		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		7.9		0.050	mg/L	6010B
Sodium, Dissolved		4.5		1.0	mg/L	6010B
Barium, Dissolved		0.0032		0.0010	mg/L	6020
Manganese, Dissolved		1.4		0.0010	mg/L	6020
280-36618-6	**MW-19C**					
Trichloroethene		1.1		1.0	ug/L	8260B
Vinyl chloride		0.058		0.020	ug/L	8260B SIM
Depth to water		32.85			ft	Field Sampling
Specific Conductivity		104			umhos/cm	Field Sampling
Dissolved Oxygen		0.23			mg/L	Field Sampling
eH		78.1			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		10.28			Degrees C	Field Sampling
pH		6.65			SU	Field Sampling
Chloride		3.0		1.0	mg/L	300.0
Sulfate		4.2		1.0	mg/L	300.0
Ammonia (as N)		0.55		0.030	mg/L	350.1
Nitrate as N		0.12		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		76		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		76		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		13		0.040	mg/L	6010B
Magnesium, Dissolved		6.8		0.050	mg/L	6010B
Potassium, Dissolved		1.5		1.0	mg/L	6010B
Sodium, Dissolved		5.0		1.0	mg/L	6010B
Barium, Dissolved		0.0039		0.0010	mg/L	6020
Manganese, Dissolved		1.0		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-7	**MW-16**					
Depth to water		59.95			ft	Field Sampling
Specific Conductivity		85			umhos/cm	Field Sampling
Dissolved Oxygen		6.16			mg/L	Field Sampling
eH		136.6			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		9.14			Degrees C	Field Sampling
pH		6.22			SU	Field Sampling
Chloride		1.3		1.0	mg/L	300.0
Sulfate		3.0		1.0	mg/L	300.0
Nitrate as N		0.86		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		64		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		64		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		11		0.040	mg/L	6010B
Magnesium, Dissolved		6.6		0.050	mg/L	6010B
Sodium, Dissolved		4.7		1.0	mg/L	6010B
Barium, Dissolved		0.0037		0.0010	mg/L	6020
Chromium, Dissolved		0.0067		0.0030	mg/L	6020
Vanadium, Dissolved		0.0034		0.0020	mg/L	6020
280-36618-8	**MW-23A**					
Depth to water		11.75			ft	Field Sampling
Specific Conductivity		58			umhos/cm	Field Sampling
Dissolved Oxygen		5.77			mg/L	Field Sampling
eH		131.6			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		9.74			Degrees C	Field Sampling
pH		6.05			SU	Field Sampling
Chloride		1.2		1.0	mg/L	300.0
Sulfate		1.8		1.0	mg/L	300.0
Nitrate as N		0.50		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		42		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		42		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		61		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		8.7		0.040	mg/L	6010B
Magnesium, Dissolved		3.3		0.050	mg/L	6010B
Sodium, Dissolved		3.0		1.0	mg/L	6010B
Barium, Dissolved		0.0067		0.0010	mg/L	6020
Manganese, Dissolved		0.021		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-9	**MW-2B1**					
Depth to water		6.22			ft	Field Sampling
Specific Conductivity		97			umhos/cm	Field Sampling
Dissolved Oxygen		0.87			mg/L	Field Sampling
eH		110.9			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		12.34			Degrees C	Field Sampling
pH		6.11			SU	Field Sampling
Chloride		3.6		1.0	mg/L	300.0
Sulfate		5.3		1.0	mg/L	300.0
Ammonia (as N)		0.45		0.030	mg/L	350.1
Nitrate as N		0.29		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		61		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		61		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		89		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		13		0.040	mg/L	6010B
Iron, Dissolved		0.062		0.060	mg/L	6010B
Magnesium, Dissolved		4.7		0.050	mg/L	6010B
Potassium, Dissolved		1.5		1.0	mg/L	6010B
Sodium, Dissolved		4.7		1.0	mg/L	6010B
Barium, Dissolved		0.0059		0.0010	mg/L	6020
Manganese, Dissolved		0.37		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-10	**MW-15R**					
Depth to water		17.85			ft	Field Sampling
Specific Conductivity		134			umhos/cm	Field Sampling
Dissolved Oxygen		1.06			mg/L	Field Sampling
eH		127.6			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		9.99			Degrees C	Field Sampling
pH		6.30			SU	Field Sampling
Chloride		2.9		1.0	mg/L	300.0
Sulfate		5.6		1.0	mg/L	300.0
Nitrate as N		0.30		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		100		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		100		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		140		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		18		0.040	mg/L	6010B
Magnesium, Dissolved		11		0.050	mg/L	6010B
Sodium, Dissolved		6.3		1.0	mg/L	6010B
Barium, Dissolved		0.0059		0.0010	mg/L	6020
Manganese, Dissolved		0.0018		0.0010	mg/L	6020
Vanadium, Dissolved		0.0036		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-11	**MW-36A**					
Depth to water		29.75			ft	Field Sampling
Specific Conductivity		93			umhos/cm	Field Sampling
Dissolved Oxygen		1.65			mg/L	Field Sampling
eH		164.2			millivolts	Field Sampling
Turbidity		0.0			NTU	Field Sampling
Temperature		9.24			Degrees C	Field Sampling
pH		5.78			SU	Field Sampling
Chloride		1.5		1.0	mg/L	300.0
Sulfate		4.9		1.0	mg/L	300.0
Nitrate as N		0.86		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		64		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		64		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		10		0.040	mg/L	6010B
Magnesium, Dissolved		5.9		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		7.6		1.0	mg/L	6010B
Barium, Dissolved		0.0023		0.0010	mg/L	6020
Chromium, Dissolved		0.011		0.0030	mg/L	6020
Manganese, Dissolved		0.0011		0.0010	mg/L	6020
Selenium, Dissolved		0.0010		0.0010	mg/L	6020
Vanadium, Dissolved		0.0028		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36618-12	**MW-29A**					
Depth to water		9.68			ft	Field Sampling
Specific Conductivity		76			umhos/cm	Field Sampling
Dissolved Oxygen		0.26			mg/L	Field Sampling
eH		-21.2			millivolts	Field Sampling
Turbidity		1.08			NTU	Field Sampling
Temperature		8.46			Degrees C	Field Sampling
pH		5.89			SU	Field Sampling
Chloride		1.0		1.0	mg/L	300.0
Ammonia (as N)		0.067		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		37		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		37		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		51		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.7		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		5.9		0.040	mg/L	6010B
Iron, Dissolved		3.5		0.060	mg/L	6010B
Magnesium, Dissolved		3.1		0.050	mg/L	6010B
Sodium, Dissolved		2.6		1.0	mg/L	6010B
Barium, Dissolved		0.0081		0.0010	mg/L	6020
Manganese, Dissolved		1.1		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36618-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B SIM	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36618-1

Method	Analyst	Analyst ID
SW846 8260B	Larson, Renee	RL
SW846 8260B SIM	Brandt, Todd R	TRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 6020	Lill, Thomas E	TEL
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
EPA 353.2	Elkin, David	DE
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 5310B	Bandy, Darlene F	DFB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36618-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36618-1	MW-42	Water	12/04/2012 1119	12/05/2012 1000
280-36618-2	MW-43	Water	12/04/2012 0935	12/05/2012 1000
280-36618-3	MW-39	Water	12/04/2012 1232	12/05/2012 1000
280-36618-4	MW-35	Water	12/04/2012 1345	12/05/2012 1000
280-36618-5	MW-24	Water	12/04/2012 1522	12/05/2012 1000
280-36618-6	MW-19C	Water	12/04/2012 1500	12/05/2012 1000
280-36618-7	MW-16	Water	12/04/2012 1335	12/05/2012 1000
280-36618-8	MW-23A	Water	12/04/2012 1230	12/05/2012 1000
280-36618-9	MW-2B1	Water	12/04/2012 1058	12/05/2012 1000
280-36618-10	MW-15R	Water	12/04/2012 0958	12/05/2012 1000
280-36618-11	MW-36A	Water	12/04/2012 0858	12/05/2012 1000
280-36618-12	MW-29A	Water	12/04/2012 1020	12/05/2012 1000
280-36618-13TB	TRIP BLANK	Water	12/04/2012 0858	12/05/2012 1000

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1
Client Matrix: Water

Date Sampled: 12/04/2012 1119
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21419.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1244			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1244				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1 | Date Sampled: 12/04/2012 1119
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21419.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1244			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1244				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1
Client Matrix: Water

Date Sampled: 12/04/2012 1119
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21419.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1244			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1244				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1 | Date Sampled: 12/04/2012 1119
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21419.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1244			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1244				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21420.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1306			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1306				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21420.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1306			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1306				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21420.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1306			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1306				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21420.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1306			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1306				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3
Client Matrix: Water

Date Sampled: 12/04/2012 1232
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21421.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1328			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1328				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3
Client Matrix: Water

Date Sampled: 12/04/2012 1232
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21421.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1328			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1328				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3
Client Matrix: Water

Date Sampled: 12/04/2012 1232
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21421.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1328			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1328				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3
Client Matrix: Water

Date Sampled: 12/04/2012 1232
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21421.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1328			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1328				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4
Client Matrix: Water

Date Sampled: 12/04/2012 1345
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21422.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1350			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4
Client Matrix: Water

Date Sampled: 12/04/2012 1345
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21422.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1350			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1350				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4
Client Matrix: Water

Date Sampled: 12/04/2012 1345
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21422.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1350			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1350				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4
Client Matrix: Water

Date Sampled: 12/04/2012 1345
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21422.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1350			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1350				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5
Client Matrix: Water

Date Sampled: 12/04/2012 1522
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21423.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1411			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1411				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5
Client Matrix: Water

Date Sampled: 12/04/2012 1522
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21423.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1411			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1411				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5
Client Matrix: Water

Date Sampled: 12/04/2012 1522
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21423.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1411			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1411				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5
Client Matrix: Water

Date Sampled: 12/04/2012 1522
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21423.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1411			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1411				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6
Client Matrix: Water

Date Sampled: 12/04/2012 1500
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21424.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1433			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1433				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6
Client Matrix: Water

Date Sampled: 12/04/2012 1500
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21424.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1433			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1433				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	1.1		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6
Client Matrix: Water

Date Sampled: 12/04/2012 1500
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21424.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1433			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1433				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6 | Date Sampled: 12/04/2012 1500
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21424.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1433			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1433				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7
Client Matrix: Water

Date Sampled: 12/04/2012 1335
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21425.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1455			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1455				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7
Client Matrix: Water

Date Sampled: 12/04/2012 1335
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21425.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1455			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1455				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7
Client Matrix: Water

Date Sampled: 12/04/2012 1335
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21425.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1455			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1455				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7 | Date Sampled: 12/04/2012 1335
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21425.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1455			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1455				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8
Client Matrix: Water

Date Sampled: 12/04/2012 1230
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21426.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8
Client Matrix: Water

Date Sampled: 12/04/2012 1230
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21426.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8
Client Matrix: Water

Date Sampled: 12/04/2012 1230
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21426.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1516				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8
Client Matrix: Water

Date Sampled: 12/04/2012 1230
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21426.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1516				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9
Client Matrix: Water

Date Sampled: 12/04/2012 1058
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21427.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1538			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1538				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9
Client Matrix: Water

Date Sampled: 12/04/2012 1058
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21427.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1538			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1538				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9
Client Matrix: Water

Date Sampled: 12/04/2012 1058
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21427.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1538			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1538				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	88		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9
Client Matrix: Water

Date Sampled: 12/04/2012 1058
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21427.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1538			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1538				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10
Client Matrix: Water

Date Sampled: 12/04/2012 0958
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1600				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10
Client Matrix: Water

Date Sampled: 12/04/2012 0958
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1600				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10
Client Matrix: Water

Date Sampled: 12/04/2012 0958
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1600				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10 | Date Sampled: 12/04/2012 0958
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1600			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1600				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1622				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21429.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1622			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1622				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12
Client Matrix: Water

Date Sampled: 12/04/2012 1020
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21430.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1643			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12
Client Matrix: Water

Date Sampled: 12/04/2012 1020
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21430.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1643			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12
Client Matrix: Water

Date Sampled: 12/04/2012 1020
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21430.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1643			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1643				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12
Client Matrix: Water

Date Sampled: 12/04/2012 1020
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21430.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1643			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1643				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36618-13TB | Date Sampled: 12/04/2012 0858
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21431.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1705			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36618-13TB
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21431.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1705			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36618-13TB | Date Sampled: 12/04/2012 0858
Client Matrix: Water | Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21431.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1705			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1705				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36618-13TB
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21431.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1705			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1705				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1
Client Matrix: Water

Date Sampled: 12/04/2012 1119
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0198.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1112			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1112				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	0.030		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0199.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1136			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1136				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3
Client Matrix: Water

Date Sampled: 12/04/2012 1232
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0200.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1200			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1200				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4
Client Matrix: Water

Date Sampled: 12/04/2012 1345
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0201.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1224			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1224				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5
Client Matrix: Water

Date Sampled: 12/04/2012 1522
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0202.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1248			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1248				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6
Client Matrix: Water

Date Sampled: 12/04/2012 1500
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0203.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1312			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1312				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	0.058		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7
Client Matrix: Water

Date Sampled: 12/04/2012 1335
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0204.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1336			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1336				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8
Client Matrix: Water

Date Sampled: 12/04/2012 1230
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0205.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1359			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1359				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9
Client Matrix: Water

Date Sampled: 12/04/2012 1058
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0206.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1423			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1423				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10
Client Matrix: Water

Date Sampled: 12/04/2012 0958
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0207.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1447			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1447				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0209.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1559			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1559				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12
Client Matrix: Water

Date Sampled: 12/04/2012 1020
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0210.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1623			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1623				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36618-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36618-13TB
Client Matrix: Water

Date Sampled: 12/04/2012 0858
Date Received: 12/05/2012 1000

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0211.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1647			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1647				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1 | Date Sampled: 12/04/2012 1119
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0205			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	44		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	28		0.060	0.060
Magnesium, Dissolved	18		0.050	0.050
Potassium, Dissolved	7.8		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1956			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	21		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	087SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1928			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.13		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	5.0		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2 | Date Sampled: 12/04/2012 0935
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0207			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	4.1		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.45		0.060	0.060
Magnesium, Dissolved	1.7		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1959			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	2.5		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	088SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1931			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0043		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.18		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3 | Date Sampled: 12/04/2012 1232
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0210			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	14		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	6.0		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2001			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	7.4		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	089SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1934			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.010		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.0040		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4 | Date Sampled: 12/04/2012 1345
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0213			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	14		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	8.6		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2004			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	4.5		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	092SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1943			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0029		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0041		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5 | Date Sampled: 12/04/2012 1522
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0215			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	14		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	7.9		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2006			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	4.5		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	093SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1946			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0032		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	1.4		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6 | Date Sampled: 12/04/2012 1500
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0228			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	13		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	6.8		0.050	0.050
Potassium, Dissolved	1.5		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2019			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	5.0		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	094SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1948			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0039		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	1.0		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7 | Date Sampled: 12/04/2012 1335
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0231			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	11		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	6.6		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2021			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	4.7		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	095SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1951			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0037		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0067		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0034		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8 | Date Sampled: 12/04/2012 1230
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0233			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	8.7		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	3.3		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2024			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	3.0		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	096SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1954			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0067		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.021		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9 | Date Sampled: 12/04/2012 1058
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0236			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	13		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.062		0.060	0.060
Magnesium, Dissolved	4.7		0.050	0.050
Potassium, Dissolved	1.5		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2027			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	4.7		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	097SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1957			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0059		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.37		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10 | Date Sampled: 12/04/2012 0958
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0239			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	18		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	11		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2029			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	6.3		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	098SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2000			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0059		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.0018		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0036		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11 | Date Sampled: 12/04/2012 0858
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0241			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	10		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	5.9		0.050	0.050
Potassium, Dissolved	1.1		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2032			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	7.6		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	099SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2003			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0023		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.011		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.0011		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	0.0010		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0028		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-36618-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12 | Date Sampled: 12/04/2012 1020
Client Matrix: Water | Date Received: 12/05/2012 1000

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151313	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0244			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	5.9		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	3.5		0.060	0.060
Magnesium, Dissolved	3.1		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-151538	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2034			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Dissolved	2.6		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151333	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-150767	Lab File ID:	100SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2006			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0081		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	1.1		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

General Chemistry

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1 Date Sampled: 12/04/2012 1119
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	24		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1827						
Sulfate	16		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1827						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0856						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	240		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/12/2012 0015						
Alkalinity, Bicarbonate (As CaCO3)	240		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/12/2012 0015						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/12/2012 0015						
Total Dissolved Solids (TDS)	310		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	8.2		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151641	Analysis Date: 12/11/2012 1116						

General Chemistry

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2 Date Sampled: 12/04/2012 0935
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1843						
Sulfate	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1843						
Ammonia (as N)	0.070		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0859						
Nitrate as N	0.57		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	18		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2344						
Alkalinity, Bicarbonate (As CaCO3)	18		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2344						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2344						
Total Dissolved Solids (TDS)	41		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	1.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151641	Analysis Date: 12/11/2012 1133						

General Chemistry

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3 Date Sampled: 12/04/2012 1232
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1929						
Sulfate	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1929						
Ammonia (as N)	0.040		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0910						
Nitrate as N	5.3		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	61		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2348						
Alkalinity, Bicarbonate (As CaCO3)	61		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2348						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2348						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	1.0		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-151641	Analysis Date: 12/11/2012 1231						

General Chemistry

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4 Date Sampled: 12/04/2012 1345
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1944						
Sulfate	2.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1944						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0917						
Nitrate as N	0.42		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	76		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2327						
Alkalinity, Bicarbonate (As CaCO3)	76		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2327						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2327						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 1834						

General Chemistry

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5 Date Sampled: 12/04/2012 1522
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1959						
Sulfate	4.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 1959						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0920						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	93		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2332						
Alkalinity, Bicarbonate (As CaCO3)	93		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2332						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-151915	Analysis Date: 12/11/2012 2332						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 1854						

General Chemistry

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6 Date Sampled: 12/04/2012 1500
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2014						
Sulfate	4.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2014						
Ammonia (as N)	0.55		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0922						
Nitrate as N	0.12		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	76		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0432						
Alkalinity, Bicarbonate (As CaCO3)	76		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0432						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0432						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 1941						

General Chemistry

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7 Date Sampled: 12/04/2012 1335
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2030						
Sulfate	3.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2030						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0924						
Nitrate as N	0.86		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0445						
Alkalinity, Bicarbonate (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0445						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0445						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 1957						

General Chemistry

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8 Date Sampled: 12/04/2012 1230
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2045						
Sulfate	1.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152044	Analysis Date: 12/12/2012 2045						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0927						
Nitrate as N	0.50		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	42		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0440						
Alkalinity, Bicarbonate (As CaCO3)	42		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0440						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0440						
Total Dissolved Solids (TDS)	61		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 2016						

General Chemistry

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9 Date Sampled: 12/04/2012 1058
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.6		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152053	Analysis Date: 12/12/2012 2114						
Sulfate	5.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152053	Analysis Date: 12/12/2012 2114						
Ammonia (as N)	0.45		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0929						
Nitrate as N	0.29		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	61		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0436						
Alkalinity, Bicarbonate (As CaCO3)	61		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0436						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0436						
Total Dissolved Solids (TDS)	89		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 2033						

General Chemistry

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10 Date Sampled: 12/04/2012 0958
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152053	Analysis Date: 12/12/2012 2130						
Sulfate	5.6		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152053	Analysis Date: 12/12/2012 2130						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0931						
Nitrate as N	0.30		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0458						
Alkalinity, Bicarbonate (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0458						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0458						
Total Dissolved Solids (TDS)	140		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 2051						

General Chemistry

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11 Date Sampled: 12/04/2012 0858
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152529	Analysis Date: 12/15/2012 1027						
Sulfate	4.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152529	Analysis Date: 12/15/2012 1027						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0943						
Nitrate as N	0.86		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0453						
Alkalinity, Bicarbonate (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0453						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0453						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 2110						

General Chemistry

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12 Date Sampled: 12/04/2012 1020
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152529	Analysis Date: 12/15/2012 1158						
Sulfate	ND		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152529	Analysis Date: 12/15/2012 1158						
Ammonia (as N)	0.067		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 0945						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152618	Analysis Date: 12/17/2012 1644						
Alkalinity, Total (As CaCO3)	37		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0449						
Alkalinity, Bicarbonate (As CaCO3)	37		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0449						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152136	Analysis Date: 12/13/2012 0449						
Total Dissolved Solids (TDS)	51		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151556	Analysis Date: 12/11/2012 0936						
Total Organic Carbon - Average	1.7		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152511	Analysis Date: 12/14/2012 2158						

Field Service / Mobile Lab

Client Sample ID: **MW-42**

Lab Sample ID: 280-36618-1 Date Sampled: 12/04/2012 1119
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	25.72		ft	1.0	Field Sampling	280-151335	12/04/2012 1119
Specific Conductivity	585		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1119
Dissolved Oxygen	0.13		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1119
eH	-71.7		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1119
Turbidity	0.77		NTU	1.0	Field Sampling	280-151335	12/04/2012 1119
Temperature	12.30		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1119
pH	6.48		SU	1.0	Field Sampling	280-151335	12/04/2012 1119

Field Service / Mobile Lab

Client Sample ID: **MW-43**

Lab Sample ID: 280-36618-2
Client Matrix: Water

Date Sampled: 12/04/2012 0935
Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	19.64		ft	1.0	Field Sampling	280-151335	12/04/2012 0935
Specific Conductivity	49		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 0935
Dissolved Oxygen	2.37		mg/L	1.0	Field Sampling	280-151335	12/04/2012 0935
eH	11.2		millivolts	1.0	Field Sampling	280-151335	12/04/2012 0935
Turbidity	2.43		NTU	1.0	Field Sampling	280-151335	12/04/2012 0935
Temperature	11.09		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 0935
pH	5.60		SU	1.0	Field Sampling	280-151335	12/04/2012 0935

Field Service / Mobile Lab

Client Sample ID: **MW-39**

Lab Sample ID: 280-36618-3 Date Sampled: 12/04/2012 1232
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	16.16		ft	1.0	Field Sampling	280-151335	12/04/2012 1232
Specific Conductivity	156		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1232
Dissolved Oxygen	1.58		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1232
eH	-15.4		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1232
Turbidity	3.33		NTU	1.0	Field Sampling	280-151335	12/04/2012 1232
Temperature	11.64		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1232
pH	5.85		SU	1.0	Field Sampling	280-151335	12/04/2012 1232

Field Service / Mobile Lab

Client Sample ID: **MW-35**

Lab Sample ID: 280-36618-4 Date Sampled: 12/04/2012 1345
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	70.27		ft	1.0	Field Sampling	280-151335	12/04/2012 1345
Specific Conductivity	148		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1345
Dissolved Oxygen	7.14		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1345
eH	-3.0		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1345
Turbidity	3.26		NTU	1.0	Field Sampling	280-151335	12/04/2012 1345
Temperature	9.76		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1345
pH	7.16		SU	1.0	Field Sampling	280-151335	12/04/2012 1345

Field Service / Mobile Lab

Client Sample ID: **MW-24**

Lab Sample ID: 280-36618-5 Date Sampled: 12/04/2012 1522
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	32.30		ft	1.0	Field Sampling	280-151335	12/04/2012 1522
Specific Conductivity	155		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1522
Dissolved Oxygen	0.10		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1522
eH	-56.9		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1522
Turbidity	4.06		NTU	1.0	Field Sampling	280-151335	12/04/2012 1522
Temperature	11.99		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1522
pH	6.45		SU	1.0	Field Sampling	280-151335	12/04/2012 1522

Field Service / Mobile Lab

Client Sample ID: **MW-19C**

Lab Sample ID: 280-36618-6 Date Sampled: 12/04/2012 1500
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	32.85		ft	1.0	Field Sampling	280-151335	12/04/2012 1500
Specific Conductivity	104		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1500
Dissolved Oxygen	0.23		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1500
eH	78.1		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1500
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 1500
Temperature	10.28		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1500
pH	6.65		SU	1.0	Field Sampling	280-151335	12/04/2012 1500

Field Service / Mobile Lab

Client Sample ID: **MW-16**

Lab Sample ID: 280-36618-7 Date Sampled: 12/04/2012 1335
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	59.95		ft	1.0	Field Sampling	280-151335	12/04/2012 1335
Specific Conductivity	85		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1335
Dissolved Oxygen	6.16		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1335
eH	136.6		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1335
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 1335
Temperature	9.14		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1335
pH	6.22		SU	1.0	Field Sampling	280-151335	12/04/2012 1335

Field Service / Mobile Lab

Client Sample ID: **MW-23A**

Lab Sample ID: 280-36618-8 Date Sampled: 12/04/2012 1230
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	11.75		ft	1.0	Field Sampling	280-151335	12/04/2012 1230
Specific Conductivity	58		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1230
Dissolved Oxygen	5.77		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1230
eH	131.6		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1230
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 1230
Temperature	9.74		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1230
pH	6.05		SU	1.0	Field Sampling	280-151335	12/04/2012 1230

Field Service / Mobile Lab

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-36618-9 Date Sampled: 12/04/2012 1058
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	6.22		ft	1.0	Field Sampling	280-151335	12/04/2012 1058
Specific Conductivity	97		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1058
Dissolved Oxygen	0.87		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1058
eH	110.9		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1058
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 1058
Temperature	12.34		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1058
pH	6.11		SU	1.0	Field Sampling	280-151335	12/04/2012 1058

Field Service / Mobile Lab

Client Sample ID: **MW-15R**

Lab Sample ID: 280-36618-10 Date Sampled: 12/04/2012 0958
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	17.85		ft	1.0	Field Sampling	280-151335	12/04/2012 0958
Specific Conductivity	134		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 0958
Dissolved Oxygen	1.06		mg/L	1.0	Field Sampling	280-151335	12/04/2012 0958
eH	127.6		millivolts	1.0	Field Sampling	280-151335	12/04/2012 0958
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 0958
Temperature	9.99		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 0958
pH	6.30		SU	1.0	Field Sampling	280-151335	12/04/2012 0958

Field Service / Mobile Lab

Client Sample ID: **MW-36A**

Lab Sample ID: 280-36618-11 Date Sampled: 12/04/2012 0858
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	29.75		ft	1.0	Field Sampling	280-151335	12/04/2012 0858
Specific Conductivity	93		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 0858
Dissolved Oxygen	1.65		mg/L	1.0	Field Sampling	280-151335	12/04/2012 0858
eH	164.2		millivolts	1.0	Field Sampling	280-151335	12/04/2012 0858
Turbidity	0.0		NTU	1.0	Field Sampling	280-151335	12/04/2012 0858
Temperature	9.24		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 0858
pH	5.78		SU	1.0	Field Sampling	280-151335	12/04/2012 0858

Field Service / Mobile Lab

Client Sample ID: **MW-29A**

Lab Sample ID: 280-36618-12 Date Sampled: 12/04/2012 1020
Client Matrix: Water Date Received: 12/05/2012 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	9.68		ft	1.0	Field Sampling	280-151335	12/04/2012 1020
Specific Conductivity	76		umhos/cm	1.0	Field Sampling	280-151335	12/04/2012 1020
Dissolved Oxygen	0.26		mg/L	1.0	Field Sampling	280-151335	12/04/2012 1020
eH	-21.2		millivolts	1.0	Field Sampling	280-151335	12/04/2012 1020
Turbidity	1.08		NTU	1.0	Field Sampling	280-151335	12/04/2012 1020
Temperature	8.46		Degrees C	1.0	Field Sampling	280-151335	12/04/2012 1020
pH	5.89		SU	1.0	Field Sampling	280-151335	12/04/2012 1020

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36618-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
Metals		
	F	MS or MSD exceeds the control limits
General Chemistry		
	E	Result exceeded calibration range.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-95156					
LCS 480-95156/2	Lab Control Sample	T	Water	8260B SIM	
MB 480-95156/3	Method Blank	T	Water	8260B SIM	
280-36618-1	MW-42	T	Water	8260B SIM	
280-36618-2	MW-43	T	Water	8260B SIM	
280-36618-3	MW-39	T	Water	8260B SIM	
280-36618-4	MW-35	T	Water	8260B SIM	
280-36618-5	MW-24	T	Water	8260B SIM	
280-36618-6	MW-19C	T	Water	8260B SIM	
280-36618-7	MW-16	T	Water	8260B SIM	
280-36618-8	MW-23A	T	Water	8260B SIM	
280-36618-9	MW-2B1	T	Water	8260B SIM	
280-36618-10	MW-15R	T	Water	8260B SIM	
280-36618-11	MW-36A	T	Water	8260B SIM	
280-36618-12	MW-29A	T	Water	8260B SIM	
280-36618-13TB	TRIP BLANK	T	Water	8260B SIM	
Analysis Batch:480-95368					
LCS 480-95368/28	Lab Control Sample	T	Water	8260B	
MB 480-95368/5	Method Blank	T	Water	8260B	
480-29641-D-2 MS	Matrix Spike	T	Water	8260B	
480-29641-E-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36618-1	MW-42	T	Water	8260B	
280-36618-2	MW-43	T	Water	8260B	
280-36618-3	MW-39	T	Water	8260B	
280-36618-4	MW-35	T	Water	8260B	
280-36618-5	MW-24	T	Water	8260B	
280-36618-6	MW-19C	T	Water	8260B	
280-36618-7	MW-16	T	Water	8260B	
280-36618-8	MW-23A	T	Water	8260B	
280-36618-9	MW-2B1	T	Water	8260B	
280-36618-10	MW-15R	T	Water	8260B	
280-36618-11	MW-36A	T	Water	8260B	
280-36618-12	MW-29A	T	Water	8260B	
280-36618-13TB	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-150761					
LCS 280-150761/2-A	Lab Control Sample	R	Water	3005A	
MB 280-150761/1-A	Method Blank	R	Water	3005A	
280-36611-C-1-B MS	Matrix Spike	D	Water	3005A	
280-36611-C-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36618-1	MW-42	D	Water	3005A	
280-36618-2	MW-43	D	Water	3005A	
280-36618-3	MW-39	D	Water	3005A	
280-36618-4	MW-35	D	Water	3005A	
280-36618-5	MW-24	D	Water	3005A	
280-36618-6	MW-19C	D	Water	3005A	
280-36618-7	MW-16	D	Water	3005A	
280-36618-8	MW-23A	D	Water	3005A	
280-36618-9	MW-2B1	D	Water	3005A	
280-36618-10	MW-15R	D	Water	3005A	
280-36618-11	MW-36A	D	Water	3005A	
280-36618-12	MW-29A	D	Water	3005A	
Prep Batch: 280-150767					
LCS 280-150767/2-A	Lab Control Sample	R	Water	3005A	
MB 280-150767/1-A	Method Blank	R	Water	3005A	
280-36550-Q-1-B MS ^10	Matrix Spike	D	Water	3005A	
280-36550-Q-1-C MSD ^10	Matrix Spike Duplicate	D	Water	3005A	
280-36618-1	MW-42	D	Water	3005A	
280-36618-2	MW-43	D	Water	3005A	
280-36618-3	MW-39	D	Water	3005A	
280-36618-4	MW-35	D	Water	3005A	
280-36618-5	MW-24	D	Water	3005A	
280-36618-6	MW-19C	D	Water	3005A	
280-36618-7	MW-16	D	Water	3005A	
280-36618-8	MW-23A	D	Water	3005A	
280-36618-9	MW-2B1	D	Water	3005A	
280-36618-10	MW-15R	D	Water	3005A	
280-36618-11	MW-36A	D	Water	3005A	
280-36618-12	MW-29A	D	Water	3005A	

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-151313					
LCS 280-150761/2-A	Lab Control Sample	R	Water	6010B	280-150761
MB 280-150761/1-A	Method Blank	R	Water	6010B	280-150761
280-36611-C-1-B MS	Matrix Spike	D	Water	6010B	280-150761
280-36611-C-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-150761
280-36618-1	MW-42	D	Water	6010B	280-150761
280-36618-2	MW-43	D	Water	6010B	280-150761
280-36618-3	MW-39	D	Water	6010B	280-150761
280-36618-4	MW-35	D	Water	6010B	280-150761
280-36618-5	MW-24	D	Water	6010B	280-150761
280-36618-6	MW-19C	D	Water	6010B	280-150761
280-36618-7	MW-16	D	Water	6010B	280-150761
280-36618-8	MW-23A	D	Water	6010B	280-150761
280-36618-9	MW-2B1	D	Water	6010B	280-150761
280-36618-10	MW-15R	D	Water	6010B	280-150761
280-36618-11	MW-36A	D	Water	6010B	280-150761
280-36618-12	MW-29A	D	Water	6010B	280-150761
Analysis Batch:280-151333					
LCS 280-150767/2-A	Lab Control Sample	R	Water	6020	280-150767
MB 280-150767/1-A	Method Blank	R	Water	6020	280-150767
280-36550-Q-1-B MS ^10	Matrix Spike	D	Water	6020	280-150767
280-36550-Q-1-C MSD ^10	Matrix Spike Duplicate	D	Water	6020	280-150767
280-36618-1	MW-42	D	Water	6020	280-150767
280-36618-2	MW-43	D	Water	6020	280-150767
280-36618-3	MW-39	D	Water	6020	280-150767
280-36618-4	MW-35	D	Water	6020	280-150767
280-36618-5	MW-24	D	Water	6020	280-150767
280-36618-6	MW-19C	D	Water	6020	280-150767
280-36618-7	MW-16	D	Water	6020	280-150767
280-36618-8	MW-23A	D	Water	6020	280-150767
280-36618-9	MW-2B1	D	Water	6020	280-150767
280-36618-10	MW-15R	D	Water	6020	280-150767
280-36618-11	MW-36A	D	Water	6020	280-150767
280-36618-12	MW-29A	D	Water	6020	280-150767

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-151538					
LCS 280-150761/2-A	Lab Control Sample	R	Water	6010B	280-150761
MB 280-150761/1-A	Method Blank	R	Water	6010B	280-150761
280-36611-C-1-B MS	Matrix Spike	D	Water	6010B	280-150761
280-36611-C-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-150761
280-36618-1	MW-42	D	Water	6010B	280-150761
280-36618-2	MW-43	D	Water	6010B	280-150761
280-36618-3	MW-39	D	Water	6010B	280-150761
280-36618-4	MW-35	D	Water	6010B	280-150761
280-36618-5	MW-24	D	Water	6010B	280-150761
280-36618-6	MW-19C	D	Water	6010B	280-150761
280-36618-7	MW-16	D	Water	6010B	280-150761
280-36618-8	MW-23A	D	Water	6010B	280-150761
280-36618-9	MW-2B1	D	Water	6010B	280-150761
280-36618-10	MW-15R	D	Water	6010B	280-150761
280-36618-11	MW-36A	D	Water	6010B	280-150761
280-36618-12	MW-29A	D	Water	6010B	280-150761

Report Basis

D = Dissolved

R = Total Recoverable

Field Service / Mobile Lab					
Analysis Batch:280-151335					
280-36618-1	MW-42	T	Water	Field Sampling	
280-36618-2	MW-43	T	Water	Field Sampling	
280-36618-3	MW-39	T	Water	Field Sampling	
280-36618-4	MW-35	T	Water	Field Sampling	
280-36618-5	MW-24	T	Water	Field Sampling	
280-36618-6	MW-19C	T	Water	Field Sampling	
280-36618-7	MW-16	T	Water	Field Sampling	
280-36618-8	MW-23A	T	Water	Field Sampling	
280-36618-9	MW-2B1	T	Water	Field Sampling	
280-36618-10	MW-15R	T	Water	Field Sampling	
280-36618-11	MW-36A	T	Water	Field Sampling	
280-36618-12	MW-29A	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151556					
LCS 280-151556/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-151556/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-151556/1	Method Blank	T	Water	SM 2540C	
280-36618-1	MW-42	T	Water	SM 2540C	
280-36618-2	MW-43	T	Water	SM 2540C	
280-36618-3	MW-39	T	Water	SM 2540C	
280-36618-4	MW-35	T	Water	SM 2540C	
280-36618-5	MW-24	T	Water	SM 2540C	
280-36618-6	MW-19C	T	Water	SM 2540C	
280-36618-7	MW-16	T	Water	SM 2540C	
280-36618-8	MW-23A	T	Water	SM 2540C	
280-36618-9	MW-2B1	T	Water	SM 2540C	
280-36618-9DU	Duplicate	T	Water	SM 2540C	
280-36618-10	MW-15R	T	Water	SM 2540C	
280-36618-11	MW-36A	T	Water	SM 2540C	
280-36618-12	MW-29A	T	Water	SM 2540C	
Analysis Batch:280-151637					
LCS 280-151637/25	Lab Control Sample	T	Water	350.1	
LCSD 280-151637/26	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-151637/27	Method Blank	T	Water	350.1	
280-36618-1	MW-42	T	Water	350.1	
280-36618-2	MW-43	T	Water	350.1	
280-36618-3	MW-39	T	Water	350.1	
280-36618-3MS	Matrix Spike	T	Water	350.1	
280-36618-3MSD	Matrix Spike Duplicate	T	Water	350.1	
280-36618-4	MW-35	T	Water	350.1	
280-36618-5	MW-24	T	Water	350.1	
280-36618-6	MW-19C	T	Water	350.1	
280-36618-7	MW-16	T	Water	350.1	
280-36618-8	MW-23A	T	Water	350.1	
280-36618-9	MW-2B1	T	Water	350.1	
280-36618-10	MW-15R	T	Water	350.1	
280-36618-11	MW-36A	T	Water	350.1	
280-36618-12	MW-29A	T	Water	350.1	
Analysis Batch:280-151641					
LCS 280-151641/34	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-151641/35	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-151641/36	Method Blank	T	Water	SM 5310B	
280-36605-B-8 MS	Matrix Spike	T	Water	SM 5310B	
280-36605-B-8 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-36618-1	MW-42	T	Water	SM 5310B	
280-36618-2	MW-43	T	Water	SM 5310B	
280-36618-3	MW-39	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151915					
LCS 280-151915/31	Lab Control Sample	T	Water	SM 2320B	
LCS 280-151915/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-151915/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
LCSD 280-151915/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-151915/33	Method Blank	T	Water	SM 2320B	
MB 280-151915/6	Method Blank	T	Water	SM 2320B	
280-36618-1	MW-42	T	Water	SM 2320B	
280-36618-1DU	Duplicate	T	Water	SM 2320B	
280-36618-2	MW-43	T	Water	SM 2320B	
280-36618-3	MW-39	T	Water	SM 2320B	
280-36618-4	MW-35	T	Water	SM 2320B	
280-36618-5	MW-24	T	Water	SM 2320B	
Analysis Batch:280-152044					
LCS 280-152044/5	Lab Control Sample	T	Water	300.0	
LCSD 280-152044/6	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152044/7	Method Blank	T	Water	300.0	
280-36618-1	MW-42	T	Water	300.0	
280-36618-2	MW-43	T	Water	300.0	
280-36618-3	MW-39	T	Water	300.0	
280-36618-4	MW-35	T	Water	300.0	
280-36618-5	MW-24	T	Water	300.0	
280-36618-6	MW-19C	T	Water	300.0	
280-36618-7	MW-16	T	Water	300.0	
280-36618-8	MW-23A	T	Water	300.0	
280-36906-C-1 DU	Duplicate	T	Water	300.0	
280-36906-C-1 MS	Matrix Spike	T	Water	300.0	
280-36906-C-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-152053					
LCS 280-152053/4	Lab Control Sample	T	Water	300.0	
LCSD 280-152053/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152053/6	Method Blank	T	Water	300.0	
280-36618-9	MW-2B1	T	Water	300.0	
280-36618-10	MW-15R	T	Water	300.0	
280-36618-10DU	Duplicate	T	Water	300.0	
280-36618-10MS	Matrix Spike	T	Water	300.0	
280-36618-10MSD	Matrix Spike Duplicate	T	Water	300.0	

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-152136					
LCS 280-152136/31	Lab Control Sample	T	Water	SM 2320B	
LCS 280-152136/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-152136/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
LCSD 280-152136/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-152136/33	Method Blank	T	Water	SM 2320B	
MB 280-152136/6	Method Blank	T	Water	SM 2320B	
280-36618-6	MW-19C	T	Water	SM 2320B	
280-36618-7	MW-16	T	Water	SM 2320B	
280-36618-8	MW-23A	T	Water	SM 2320B	
280-36618-9	MW-2B1	T	Water	SM 2320B	
280-36618-10	MW-15R	T	Water	SM 2320B	
280-36618-11	MW-36A	T	Water	SM 2320B	
280-36618-12	MW-29A	T	Water	SM 2320B	
280-36804-A-13 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-152511					
LCS 280-152511/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152511/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152511/5	Method Blank	T	Water	SM 5310B	
280-36618-4	MW-35	T	Water	SM 5310B	
280-36618-5	MW-24	T	Water	SM 5310B	
280-36618-5MS	Matrix Spike	T	Water	SM 5310B	
280-36618-5MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-36618-6	MW-19C	T	Water	SM 5310B	
280-36618-7	MW-16	T	Water	SM 5310B	
280-36618-8	MW-23A	T	Water	SM 5310B	
280-36618-9	MW-2B1	T	Water	SM 5310B	
280-36618-10	MW-15R	T	Water	SM 5310B	
280-36618-11	MW-36A	T	Water	SM 5310B	
280-36618-12	MW-29A	T	Water	SM 5310B	
Analysis Batch:280-152529					
LCS 280-152529/11	Lab Control Sample	T	Water	300.0	
LCSD 280-152529/12	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152529/13	Method Blank	T	Water	300.0	
280-36618-11	MW-36A	T	Water	300.0	
280-36618-11DU	Duplicate	T	Water	300.0	
280-36618-11MS	Matrix Spike	T	Water	300.0	
280-36618-11MSD	Matrix Spike Duplicate	T	Water	300.0	
280-36618-12	MW-29A	T	Water	300.0	

Client: Waste Management

Job Number: 280-36618-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-152618					
MB 280-152618/1	Method Blank	T	Water	353.2	
280-36618-1	MW-42	T	Water	353.2	
280-36618-2	MW-43	T	Water	353.2	
280-36618-3	MW-39	T	Water	353.2	
280-36618-4	MW-35	T	Water	353.2	
280-36618-5	MW-24	T	Water	353.2	
280-36618-6	MW-19C	T	Water	353.2	
280-36618-7	MW-16	T	Water	353.2	
280-36618-8	MW-23A	T	Water	353.2	
280-36618-9	MW-2B1	T	Water	353.2	
280-36618-10	MW-15R	T	Water	353.2	
280-36618-11	MW-36A	T	Water	353.2	
280-36618-12	MW-29A	T	Water	353.2	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36618-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-36618-1	MW-42	103	92	100
280-36618-2	MW-43	105	90	97
280-36618-3	MW-39	107	93	101
280-36618-4	MW-35	106	90	99
280-36618-5	MW-24	104	89	97
280-36618-6	MW-19C	103	90	100
280-36618-7	MW-16	106	89	99
280-36618-8	MW-23A	106	89	98
280-36618-9	MW-2B1	102	88	98
280-36618-10	MW-15R	106	89	99
280-36618-11	MW-36A	108	89	99
280-36618-12	MW-29A	108	90	98
280-36618-13	TRIP BLANK	107	89	98
MB 480-95368/5		105	92	101
LCS 480-95368/28		106	93	99
480-29641-D-2 MS		109	92	96
480-29641-E-2 MSD		104	90	95

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 480-95368

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95368/5	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21414.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1023	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1023				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 480-95368

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95368/5	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21414.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1023	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1023				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 480-95368

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95368/5	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21414.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1023	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1023				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	66 - 137
4-Bromofluorobenzene (Surr)	92	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Method Blank TICs- Batch: 480-95368

Cas Number	Analyte	RT	Est. Result	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-36618-1

Lab Control Sample - Batch: 480-95368

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-95368/28	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21415.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1109	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1109				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	95	71 - 129	
1,1-Dichloroethene	25.0	20.0	80	58 - 121	
1,2,4-Trimethylbenzene	25.0	26.8	107	76 - 121	
1,2-Dichlorobenzene	25.0	26.3	105	80 - 124	
1,2-Dichloroethane	25.0	27.3	109	75 - 127	
Benzene	25.0	22.9	92	71 - 124	
Chlorobenzene	25.0	23.8	95	72 - 120	
cis-1,2-Dichloroethene	25.0	23.9	96	74 - 124	
Ethylbenzene	25.0	24.2	97	77 - 123	
Methyl tert-butyl ether	25.0	17.4	70	64 - 127	
m-Xylene & p-Xylene	50.0	47.7	95	76 - 122	
o-Xylene	25.0	23.6	95	76 - 122	
Tetrachloroethene	25.0	23.5	94	74 - 122	
Toluene	25.0	23.3	93	80 - 122	
trans-1,2-Dichloroethene	25.0	23.8	95	73 - 127	
Trichloroethene	25.0	25.0	100	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	66 - 137
4-Bromofluorobenzene (Surr)	93	73 - 120
Toluene-d8 (Surr)	99	71 - 126

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95368

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29641-D-2 MS	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21437.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1915			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1915				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29641-E-2 MSD	Analysis Batch:	480-95368	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21438.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1937			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1937				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	102	103	71 - 129	1	20		
1,1-Dichloroethene	86	89	58 - 121	4	16		
1,2-Dichlorobenzene	98	100	80 - 124	2	20		
1,2-Dichloroethane	114	114	75 - 127	0	20		
Benzene	96	99	71 - 124	2	13		
Chlorobenzene	98	99	72 - 120	1	25		
cis-1,2-Dichloroethene	97	101	74 - 124	3	15		
Ethylbenzene	98	100	77 - 123	2	15		
Methyl tert-butyl ether	63	61	64 - 127	2	37	F	F
m-Xylene & p-Xylene	91	91	76 - 122	1	16		
o-Xylene	90	90	76 - 122	0	16		
Tetrachloroethene	101	103	74 - 122	2	20		
Toluene	95	97	80 - 122	2	15		
trans-1,2-Dichloroethene	101	105	73 - 127	4	20		
Trichloroethene	109	112	74 - 123	2	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	104	66 - 137
4-Bromofluorobenzene (Surr)	92	90	73 - 120
Toluene-d8 (Surr)	96	95	71 - 126

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95368

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29641-D-2 MS	Units:	ug/L	MSD Lab Sample ID:	480-29641-E-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1915			Analysis Date:	12/12/2012 1937
Prep Date:	12/12/2012 1915			Prep Date:	12/12/2012 1937
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1-Dichloroethane	3.1		25.0	25.0	28.5		28.7	
1,1-Dichloroethene	ND		25.0	25.0	21.5		22.3	
1,2-Dichlorobenzene	ND		25.0	25.0	24.4		24.9	
1,2-Dichloroethane	ND		25.0	25.0	28.6		28.6	
Benzene	0.44	J	25.0	25.0	24.5		25.1	
Chlorobenzene	ND		25.0	25.0	24.6		24.7	
cis-1,2-Dichloroethene	1.9		25.0	25.0	26.1		27.0	
Ethylbenzene	ND		25.0	25.0	24.5		24.9	
Methyl tert-butyl ether	ND		25.0	25.0	15.7	F	15.3	F
m-Xylene & p-Xylene	ND		50.0	50.0	45.4		45.7	
o-Xylene	ND		25.0	25.0	22.5		22.5	
Tetrachloroethene	ND		25.0	25.0	25.2		25.8	
Toluene	ND		25.0	25.0	23.7		24.1	
trans-1,2-Dichloroethene	ND		25.0	25.0	25.4		26.3	
Trichloroethene	ND		25.0	25.0	27.4		28.0	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 480-95156

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 480-95156/3	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0197.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1045	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1045				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Vinyl chloride	ND		0.020	0.020

Lab Control Sample - Batch: 480-95156

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 480-95156/2	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0196.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1021	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1021				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.128	64	60 - 140	

Method Blank - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150761/1-A	Analysis Batch:	280-151313	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0134	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	ND		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0

Method Blank - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150761/1-A	Analysis Batch:	280-151538	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1926	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Sodium, Dissolved	ND		1.0	1.0

Lab Control Sample - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150761/2-A	Analysis Batch:	280-151313	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0137	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	48.1	96	90 - 111	
Cobalt, Dissolved	0.500	0.499	100	89 - 111	
Iron, Dissolved	1.00	0.970	97	89 - 115	
Magnesium, Dissolved	50.0	47.4	95	90 - 113	
Potassium, Dissolved	50.0	53.2	106	89 - 114	

Lab Control Sample - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150761/2-A	Analysis Batch:	280-151538	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1929	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium, Dissolved	50.0	48.7	97	90 - 115	

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36611-C-1-B MS	Analysis Batch:	280-151313	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0144			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36611-C-1-C MSD	Analysis Batch:	280-151313	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26b120712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/08/2012 0147			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	96	98	48 - 153	1	20		
Cobalt, Dissolved	99	99	82 - 119	0	20		
Iron, Dissolved	98	99	52 - 155	1	20		
Magnesium, Dissolved	94	95	62 - 146	1	20		
Potassium, Dissolved	105	106	76 - 132	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36611-C-1-B MS	Analysis Batch:	280-151538	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1936			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36611-C-1-C MSD	Analysis Batch:	280-151538	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-150761	Lab File ID:	26A121012.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 1939			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sodium, Dissolved	95	98	70 - 203	2	20		

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36611-C-1-B MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/08/2012 0144		
Prep Date:	12/07/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36611-C-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/08/2012 0147
Prep Date:	12/07/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	29	50.0	50.0	77.0	78.0
Cobalt, Dissolved	ND	0.500	0.500	0.495	0.497
Iron, Dissolved	ND	1.00	1.00	0.976	0.990
Magnesium, Dissolved	3.8	50.0	50.0	51.1	51.4
Potassium, Dissolved	1.3	50.0	50.0	53.7	54.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150761

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36611-C-1-B MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/10/2012 1936		
Prep Date:	12/07/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36611-C-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/10/2012 1939
Prep Date:	12/07/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sodium, Dissolved	26	50.0	50.0	73.3	74.9

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-150767

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-150767/1-A	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	081_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1910	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	ND		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-150767

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-150767/2-A	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	082_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1913	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0404	101	85 - 115	
Barium, Dissolved	0.0400	0.0406	101	85 - 118	
Beryllium, Dissolved	0.0400	0.0396	99	80 - 125	
Cadmium, Dissolved	0.0400	0.0393	98	85 - 115	
Chromium, Dissolved	0.0400	0.0379	95	84 - 121	
Copper, Dissolved	0.0400	0.0393	98	85 - 119	
Lead, Dissolved	0.0400	0.0415	104	85 - 118	
Manganese, Dissolved	0.0400	0.0395	99	85 - 117	
Nickel, Dissolved	0.0400	0.0395	99	85 - 119	
Selenium, Dissolved	0.0400	0.0438	110	77 - 122	
Silver, Dissolved	0.0400	0.0394	98	85 - 115	
Thallium, Dissolved	0.0400	0.0431	108	85 - 118	
Vanadium, Dissolved	0.0400	0.0372	93	85 - 120	
Zinc, Dissolved	0.0400	0.0410	102	83 - 122	

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150767

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36550-Q-1-B MS ^10	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	116_MS.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2055			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36550-Q-1-C MSD	Analysis Batch:	280-151333	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-150767	Lab File ID:	117_MSD.D
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 2058			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	100	101	85 - 115	2	20		
Barium, Dissolved	102	110	85 - 118	3	20		
Beryllium, Dissolved	95	101	80 - 125	7	20		
Cadmium, Dissolved	87	92	85 - 115	5	20		
Chromium, Dissolved	119	123	84 - 121	4	20		F
Copper, Dissolved	112	113	85 - 119	1	20		
Lead, Dissolved	86	88	85 - 118	2	20		
Manganese, Dissolved	106	116	85 - 117	3	20		
Nickel, Dissolved	134	138	85 - 119	3	20	F	F
Selenium, Dissolved	112	115	77 - 122	2	20		
Silver, Dissolved	83	85	85 - 115	2	20	F	
Thallium, Dissolved	97	99	85 - 118	2	20		
Vanadium, Dissolved	120	126	85 - 120	5	20		F
Zinc, Dissolved	NC	NC	83 - 122	NC	20		

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150767

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36550-Q-1-B MS ^10	Units:	mg/L
Client Matrix:	Water		
Dilution:	10		
Analysis Date:	12/07/2012 2055		
Prep Date:	12/07/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36550-Q-1-C MSD
Client Matrix:	Water
Dilution:	10
Analysis Date:	12/07/2012 2058
Prep Date:	12/07/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Dissolved	ND	0.0400	0.0400	0.0398		0.0406	
Barium, Dissolved	0.068	0.0400	0.0400	0.109		0.112	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0379		0.0406	
Cadmium, Dissolved	0.012	0.0400	0.0400	0.0463		0.0485	
Chromium, Dissolved	ND	0.0400	0.0400	0.0474		0.0493	F
Copper, Dissolved	ND	0.0400	0.0400	0.0448		0.0453	
Lead, Dissolved	ND	0.0400	0.0400	0.0346		0.0353	
Manganese, Dissolved	0.094	0.0400	0.0400	0.137		0.141	
Nickel, Dissolved	ND	0.0400	0.0400	0.0537	F	0.0554	F
Selenium, Dissolved	0.020	0.0400	0.0400	0.0642		0.0658	
Silver, Dissolved	ND	0.0400	0.0400	0.0333	F	0.0340	
Thallium, Dissolved	ND	0.0400	0.0400	0.0387		0.0394	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0479		0.0503	F
Zinc, Dissolved	ND	0.0400	0.0400	ND		ND	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152044

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152044/7	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1227	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152044

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152044/4	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1141	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	114	50 - 150	
Sulfate	1.00	ND	116	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152044

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152044/5	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1156	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152044/6	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1211	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	105	102	90 - 110	2	10		
Sulfate	101	99	90 - 110	2	10		

Client: Waste Management

Job Number: 280-36618-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152044

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152044/5	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152044/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1156			Analysis Date:	12/12/2012 1211
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	26.1	25.6
Sulfate	25.0	25.0	25.2	24.7

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152044

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36906-C-1 MS	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1757			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36906-C-1 MSD	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1812			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	111	108	80 - 120	1	20	E	E
Sulfate	109	106	80 - 120	2	20		

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152044

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36906-C-1 MS	Units: mg/L	MSD Lab Sample ID:	280-36906-C-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2012 1757		Analysis Date:	12/12/2012 1812	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	32	25.0	25.0	59.6	E	58.9	E
Sulfate	11	25.0	25.0	38.2		37.6	

Duplicate - Batch: 280-152044

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36906-C-1 DU	Analysis Batch:	280-152044	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212A.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1742	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	32	31.9	0.04	15	
Sulfate	11	11.0	0.4	15	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152053

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152053/6	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1458	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152053

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152053/3	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1408	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	123	50 - 150	
Sulfate	1.00	ND	105	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152053

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152053/4	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1424	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152053/5	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 1441	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	99	99	90 - 110	0	10		
Sulfate	99	99	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36618-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152053

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152053/4	Units: mg/L		LCSD Lab Sample ID:	LCSD 280-152053/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1424			Analysis Date:	12/12/2012 1441
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	24.8	24.9
Sulfate	25.0	25.0	24.7	24.8

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152053

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36618-10	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	136.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 2204			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36618-10	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	137.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 2220			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	114	114	80 - 120	1	20		
Sulfate	113	113	80 - 120	0	20		

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152053

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36618-10	Units: mg/L	MSD Lab Sample ID:	280-36618-10	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2012 2204		Analysis Date:	12/12/2012 2220	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	2.9	25.0	25.0	31.3	31.5
Sulfate	5.6	25.0	25.0	33.8	33.9

Duplicate - Batch: 280-152053

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36618-10	Analysis Batch:	280-152053	Instrument ID:	WC_IC3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	135.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 2147	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.9	2.87	0.8	15	
Sulfate	5.6	5.32	5	15	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152529

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152529/13	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1302	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152529

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152529/10	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1216	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	110	50 - 150	
Sulfate	1.00	ND	114	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152529

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152529/11	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1231	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152529/12	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1247	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	99	99	90 - 110	0	10		
Sulfate	98	98	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36618-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152529

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152529/11	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-152529/12	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/14/2012 1231		Analysis Date:	12/14/2012 1247	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	24.8	24.7
Sulfate	25.0	25.0	24.4	24.4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152529

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36618-11	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1128			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36618-11	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1143			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	103	101	80 - 120	2	20		
Sulfate	105	102	80 - 120	2	20		

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152529

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36618-11	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/15/2012 1128		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36618-11
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/15/2012 1143
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	1.5	25.0	25.0	27.1	26.7
Sulfate	4.9	25.0	25.0	31.0	30.5

Duplicate - Batch: 280-152529

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36618-11	Analysis Batch:	280-152529	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1042	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	1.5	1.46	0	15	
Sulfate	4.9	4.91	0.1	15	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-151637

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151637/27	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0849	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151637/25	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0845	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151637/26	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0847	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	99	100	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151637/25	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151637/26
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0845			Analysis Date:	12/11/2012 0847
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.49	2.49

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36618-3	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0913			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36618-3	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0915			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	101	93	90 - 110	8	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36618-3	Units:	mg/L	MSD Lab Sample ID:	280-36618-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0913			Analysis Date:	12/11/2012 0915
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	0.040	1.00	1.00	1.05	0.973

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152618

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-152618/1	Analysis Batch:	280-152618	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1644	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-151915/6	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2207	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Method Blank - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-151915/33	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 0011	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Client: Waste Management

Job Number: 280-36618-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151915/4	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2158	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151915/5	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2203	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	102	101	90 - 110	1	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151915/31	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 0002	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151915/32	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 0007	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	103	103	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36618-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151915/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151915/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 2158			Analysis Date:	12/11/2012 2203
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	204	202

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151915/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151915/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 0002			Analysis Date:	12/12/2012 0007
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	205	206

Duplicate - Batch: 280-151915

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36618-1	Analysis Batch:	280-151915	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121112a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/12/2012 0019	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	240	241	0.4	10	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152136/6	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0058	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Method Blank - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152136/33	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0319	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Client: Waste Management

Job Number: 280-36618-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152136/4	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0049	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152136/5	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0054	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	105	102	90 - 110	3	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152136/31	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0310	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152136/32	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0315	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	103	103	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36618-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152136/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152136/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 0049			Analysis Date:	12/13/2012 0054
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	209	204

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152136/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152136/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 0310			Analysis Date:	12/13/2012 0315
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	207	206

Duplicate - Batch: 280-152136

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36804-A-13 DU	Analysis Batch:	280-152136	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121212b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 0107	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	340	339	0.1	10	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-151556

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-151556/1	Analysis Batch:	280-151556	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0936	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151556

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151556/2	Analysis Batch:	280-151556	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0936	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151556/3	Analysis Batch:	280-151556	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0936	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	101	99	86 - 110	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151556

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151556/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151556/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0936			Analysis Date:	12/11/2012 0936
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	506	498

Client: Waste Management

Job Number: 280-36618-1

Duplicate - Batch: 280-151556

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36618-9	Analysis Batch:	280-151556	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 0936	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	89	90.0	1	10	

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-151641

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-151641/36	Analysis Batch:	280-151641	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0350	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151641

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151641/34	Analysis Batch:	280-151641	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0315	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151641/35	Analysis Batch:	280-151641	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0333	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	99	99	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151641

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151641/34	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151641/35
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0315			Analysis Date:	12/11/2012 0333
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.7	24.8

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151641

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36605-B-8 MS	Analysis Batch:	280-151641	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0858			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36605-B-8 MSD	Analysis Batch:	280-151641	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121012.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 0916			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	99	98	88 - 112	1	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151641

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36605-B-8 MS	Units: mg/L		MSD Lab Sample ID:	280-36605-B-8 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0858			Analysis Date:	12/11/2012 0916
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	ND	25.0	25.0	24.8	24.6

Client: Waste Management

Job Number: 280-36618-1

Method Blank - Batch: 280-152511

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152511/5	Analysis Batch:	280-152511	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1509	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152511

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152511/3	Analysis Batch:	280-152511	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1437	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152511/4	Analysis Batch:	280-152511	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1454	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	97	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152511

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152511/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152511/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 1437			Analysis Date:	12/14/2012 1454
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.3	24.3

Client: Waste Management

Job Number: 280-36618-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152511

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36618-5	Analysis Batch:	280-152511	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1909			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36618-5	Analysis Batch:	280-152511	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1925			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	101	101	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152511

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36618-5	Units:	mg/L	MSD Lab Sample ID:	280-36618-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 1909			Analysis Date:	12/14/2012 1925
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	ND	25.0	25.0	25.4	25.3

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-1 **Client ID:** MW-42

Sample Date/Time: 12/04/2012 11:19 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-1		480-95368		12/12/2012 12:44	1	TAL BUF	RL
A:8260B	280-36618-D-1		480-95368		12/12/2012 12:44	1	TAL BUF	RL
P:5030B	280-36618-E-1		480-95156		12/11/2012 11:12	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-1		480-95156		12/11/2012 11:12	1	TAL BUF	TRB
P:3005A	280-36618-C-1-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-1-A		280-151313	280-150761	12/08/2012 02:05	1	TAL DEN	HEB
P:3005A	280-36618-C-1-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-1-A		280-151538	280-150761	12/10/2012 19:56	1	TAL DEN	HEB
P:3005A	280-36618-C-1-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-1-B		280-151333	280-150767	12/07/2012 19:28	1	TAL DEN	TEL
A:300.0	280-36618-A-1		280-152044		12/12/2012 18:27	1	TAL DEN	EK
A:350.1	280-36618-B-1		280-151637		12/11/2012 08:56	1	TAL DEN	BMG
A:353.2	280-36618-A-1		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-1		280-151915		12/12/2012 00:15	1	TAL DEN	DA
A:SM 2540C	280-36618-A-1		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-1		280-151641		12/11/2012 11:16	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-1		280-151335		12/04/2012 11:19	1	TAL DEN	FS

Lab ID: 280-36618-1 DU **Client ID:** MW-42

Sample Date/Time: 12/04/2012 11:19 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-36618-A-1 DU		280-151915		12/12/2012 00:19	1	TAL DEN	DA

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-2 **Client ID:** MW-43

Sample Date/Time: 12/04/2012 09:35 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-2		480-95368		12/12/2012 13:06	1	TAL BUF	RL
A:8260B	280-36618-D-2		480-95368		12/12/2012 13:06	1	TAL BUF	RL
P:5030B	280-36618-E-2		480-95156		12/11/2012 11:36	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-2		480-95156		12/11/2012 11:36	1	TAL BUF	TRB
P:3005A	280-36618-C-2-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-2-A		280-151313	280-150761	12/08/2012 02:07	1	TAL DEN	HEB
P:3005A	280-36618-C-2-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-2-A		280-151538	280-150761	12/10/2012 19:59	1	TAL DEN	HEB
P:3005A	280-36618-C-2-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-2-B		280-151333	280-150767	12/07/2012 19:31	1	TAL DEN	TEL
A:300.0	280-36618-A-2		280-152044		12/12/2012 18:43	1	TAL DEN	EK
A:350.1	280-36618-B-2		280-151637		12/11/2012 08:59	1	TAL DEN	BMG
A:353.2	280-36618-A-2		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-2		280-151915		12/11/2012 23:44	1	TAL DEN	DA
A:SM 2540C	280-36618-A-2		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-2		280-151641		12/11/2012 11:33	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-2		280-151335		12/04/2012 09:35	1	TAL DEN	FS

Lab ID: 280-36618-3 **Client ID:** MW-39

Sample Date/Time: 12/04/2012 12:32 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-3		480-95368		12/12/2012 13:28	1	TAL BUF	RL
A:8260B	280-36618-D-3		480-95368		12/12/2012 13:28	1	TAL BUF	RL
P:5030B	280-36618-E-3		480-95156		12/11/2012 12:00	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-3		480-95156		12/11/2012 12:00	1	TAL BUF	TRB
P:3005A	280-36618-C-3-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-3-A		280-151313	280-150761	12/08/2012 02:10	1	TAL DEN	HEB
P:3005A	280-36618-C-3-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-3-A		280-151538	280-150761	12/10/2012 20:01	1	TAL DEN	HEB
P:3005A	280-36618-C-3-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-3-B		280-151333	280-150767	12/07/2012 19:34	1	TAL DEN	TEL
A:300.0	280-36618-A-3		280-152044		12/12/2012 19:29	1	TAL DEN	EK
A:350.1	280-36618-B-3		280-151637		12/11/2012 09:10	1	TAL DEN	BMG
A:353.2	280-36618-A-3		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-3		280-151915		12/11/2012 23:48	1	TAL DEN	DA
A:SM 2540C	280-36618-A-3		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-3		280-151641		12/11/2012 12:31	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-3		280-151335		12/04/2012 12:32	1	TAL DEN	FS

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-3 MS **Client ID:** MW-39

Sample Date/Time: 12/04/2012 12:32 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36618-B-3 MS		280-151637		12/11/2012 09:13	1	TAL DEN	BMG

Lab ID: 280-36618-3 MSD **Client ID:** MW-39

Sample Date/Time: 12/04/2012 12:32 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36618-B-3 MSD		280-151637		12/11/2012 09:15	1	TAL DEN	BMG

Lab ID: 280-36618-4 **Client ID:** MW-35

Sample Date/Time: 12/04/2012 13:45 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-4		480-95368		12/12/2012 13:50	1	TAL BUF	RL
A:8260B	280-36618-D-4		480-95368		12/12/2012 13:50	1	TAL BUF	RL
P:5030B	280-36618-E-4		480-95156		12/11/2012 12:24	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-4		480-95156		12/11/2012 12:24	1	TAL BUF	TRB
P:3005A	280-36618-C-4-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-4-A		280-151313	280-150761	12/08/2012 02:13	1	TAL DEN	HEB
P:3005A	280-36618-C-4-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-4-A		280-151538	280-150761	12/10/2012 20:04	1	TAL DEN	HEB
P:3005A	280-36618-C-4-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-4-B		280-151333	280-150767	12/07/2012 19:43	1	TAL DEN	TEL
A:300.0	280-36618-A-4		280-152044		12/12/2012 19:44	1	TAL DEN	EK
A:350.1	280-36618-B-4		280-151637		12/11/2012 09:17	1	TAL DEN	BMG
A:353.2	280-36618-A-4		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-4		280-151915		12/11/2012 23:27	1	TAL DEN	DA
A:SM 2540C	280-36618-A-4		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-4		280-152511		12/14/2012 18:34	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-4		280-151335		12/04/2012 13:45	1	TAL DEN	FS

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-5 **Client ID:** MW-24

Sample Date/Time: 12/04/2012 15:22 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-5		480-95368		12/12/2012 14:11	1	TAL BUF	RL
A:8260B	280-36618-D-5		480-95368		12/12/2012 14:11	1	TAL BUF	RL
P:5030B	280-36618-E-5		480-95156		12/11/2012 12:48	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-5		480-95156		12/11/2012 12:48	1	TAL BUF	TRB
P:3005A	280-36618-C-5-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-5-A		280-151313	280-150761	12/08/2012 02:15	1	TAL DEN	HEB
P:3005A	280-36618-C-5-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-5-A		280-151538	280-150761	12/10/2012 20:06	1	TAL DEN	HEB
P:3005A	280-36618-C-5-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-5-B		280-151333	280-150767	12/07/2012 19:46	1	TAL DEN	TEL
A:300.0	280-36618-A-5		280-152044		12/12/2012 19:59	1	TAL DEN	EK
A:350.1	280-36618-B-5		280-151637		12/11/2012 09:20	1	TAL DEN	BMG
A:353.2	280-36618-A-5		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-5		280-151915		12/11/2012 23:32	1	TAL DEN	DA
A:SM 2540C	280-36618-A-5		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-5		280-152511		12/14/2012 18:54	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-5		280-151335		12/04/2012 15:22	1	TAL DEN	FS

Lab ID: 280-36618-5 MS **Client ID:** MW-24

Sample Date/Time: 12/04/2012 15:22 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-36618-B-5 MS		280-152511		12/14/2012 19:09	1	TAL DEN	DFB

Lab ID: 280-36618-5 MSD **Client ID:** MW-24

Sample Date/Time: 12/04/2012 15:22 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-36618-B-5 MSD		280-152511		12/14/2012 19:25	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-6 **Client ID:** MW-19C

Sample Date/Time: 12/04/2012 15:00 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-6		480-95368		12/12/2012 14:33	1	TAL BUF	RL
A:8260B	280-36618-D-6		480-95368		12/12/2012 14:33	1	TAL BUF	RL
P:5030B	280-36618-E-6		480-95156		12/11/2012 13:12	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-6		480-95156		12/11/2012 13:12	1	TAL BUF	TRB
P:3005A	280-36618-C-6-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-6-A		280-151313	280-150761	12/08/2012 02:28	1	TAL DEN	HEB
P:3005A	280-36618-C-6-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-6-A		280-151538	280-150761	12/10/2012 20:19	1	TAL DEN	HEB
P:3005A	280-36618-C-6-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-6-B		280-151333	280-150767	12/07/2012 19:48	1	TAL DEN	TEL
A:300.0	280-36618-A-6		280-152044		12/12/2012 20:14	1	TAL DEN	EK
A:350.1	280-36618-B-6		280-151637		12/11/2012 09:22	1	TAL DEN	BMG
A:353.2	280-36618-A-6		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-6		280-152136		12/13/2012 04:32	1	TAL DEN	DA
A:SM 2540C	280-36618-A-6		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-6		280-152511		12/14/2012 19:41	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-6		280-151335		12/04/2012 15:00	1	TAL DEN	FS

Lab ID: 280-36618-7 **Client ID:** MW-16

Sample Date/Time: 12/04/2012 13:35 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-7		480-95368		12/12/2012 14:55	1	TAL BUF	RL
A:8260B	280-36618-D-7		480-95368		12/12/2012 14:55	1	TAL BUF	RL
P:5030B	280-36618-E-7		480-95156		12/11/2012 13:36	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-7		480-95156		12/11/2012 13:36	1	TAL BUF	TRB
P:3005A	280-36618-C-7-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-7-A		280-151313	280-150761	12/08/2012 02:31	1	TAL DEN	HEB
P:3005A	280-36618-C-7-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-7-A		280-151538	280-150761	12/10/2012 20:21	1	TAL DEN	HEB
P:3005A	280-36618-C-7-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-7-B		280-151333	280-150767	12/07/2012 19:51	1	TAL DEN	TEL
A:300.0	280-36618-A-7		280-152044		12/12/2012 20:30	1	TAL DEN	EK
A:350.1	280-36618-B-7		280-151637		12/11/2012 09:24	1	TAL DEN	BMG
A:353.2	280-36618-A-7		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-7		280-152136		12/13/2012 04:45	1	TAL DEN	DA
A:SM 2540C	280-36618-A-7		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-7		280-152511		12/14/2012 19:57	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-7		280-151335		12/04/2012 13:35	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-8 **Client ID:** MW-23A

Sample Date/Time: 12/04/2012 12:30 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-8		480-95368		12/12/2012 15:16	1	TAL BUF	RL
A:8260B	280-36618-D-8		480-95368		12/12/2012 15:16	1	TAL BUF	RL
P:5030B	280-36618-E-8		480-95156		12/11/2012 13:59	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-8		480-95156		12/11/2012 13:59	1	TAL BUF	TRB
P:3005A	280-36618-C-8-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-8-A		280-151313	280-150761	12/08/2012 02:33	1	TAL DEN	HEB
P:3005A	280-36618-C-8-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-8-A		280-151538	280-150761	12/10/2012 20:24	1	TAL DEN	HEB
P:3005A	280-36618-C-8-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-8-B		280-151333	280-150767	12/07/2012 19:54	1	TAL DEN	TEL
A:300.0	280-36618-A-8		280-152044		12/12/2012 20:45	1	TAL DEN	EK
A:350.1	280-36618-B-8		280-151637		12/11/2012 09:27	1	TAL DEN	BMG
A:353.2	280-36618-A-8		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-8		280-152136		12/13/2012 04:40	1	TAL DEN	DA
A:SM 2540C	280-36618-A-8		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-8		280-152511		12/14/2012 20:16	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-8		280-151335		12/04/2012 12:30	1	TAL DEN	FS

Lab ID: 280-36618-9 **Client ID:** MW-2B1

Sample Date/Time: 12/04/2012 10:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-9		480-95368		12/12/2012 15:38	1	TAL BUF	RL
A:8260B	280-36618-D-9		480-95368		12/12/2012 15:38	1	TAL BUF	RL
P:5030B	280-36618-E-9		480-95156		12/11/2012 14:23	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-9		480-95156		12/11/2012 14:23	1	TAL BUF	TRB
P:3005A	280-36618-C-9-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-9-A		280-151313	280-150761	12/08/2012 02:36	1	TAL DEN	HEB
P:3005A	280-36618-C-9-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-9-A		280-151538	280-150761	12/10/2012 20:27	1	TAL DEN	HEB
P:3005A	280-36618-C-9-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-9-B		280-151333	280-150767	12/07/2012 19:57	1	TAL DEN	TEL
A:300.0	280-36618-A-9		280-152053		12/12/2012 21:14	1	TAL DEN	EK
A:350.1	280-36618-B-9		280-151637		12/11/2012 09:29	1	TAL DEN	BMG
A:353.2	280-36618-A-9		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-9		280-152136		12/13/2012 04:36	1	TAL DEN	DA
A:SM 2540C	280-36618-A-9		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-9		280-152511		12/14/2012 20:33	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-9		280-151335		12/04/2012 10:58	1	TAL DEN	FS

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-9 DU **Client ID:** MW-2B1

Sample Date/Time: 12/04/2012 10:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-36618-A-9 DU		280-151556		12/11/2012 09:36	1	TAL DEN	SB

Lab ID: 280-36618-10 **Client ID:** MW-15R

Sample Date/Time: 12/04/2012 09:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-10		480-95368		12/12/2012 16:00	1	TAL BUF	RL
A:8260B	280-36618-D-10		480-95368		12/12/2012 16:00	1	TAL BUF	RL
P:5030B	280-36618-E-10		480-95156		12/11/2012 14:47	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-10		480-95156		12/11/2012 14:47	1	TAL BUF	TRB
P:3005A	280-36618-C-10-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-10-A		280-151313	280-150761	12/08/2012 02:39	1	TAL DEN	HEB
P:3005A	280-36618-C-10-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-10-A		280-151538	280-150761	12/10/2012 20:29	1	TAL DEN	HEB
P:3005A	280-36618-C-10-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-10-B		280-151333	280-150767	12/07/2012 20:00	1	TAL DEN	TEL
A:300.0	280-36618-A-10		280-152053		12/12/2012 21:30	1	TAL DEN	EK
A:350.1	280-36618-B-10		280-151637		12/11/2012 09:31	1	TAL DEN	BMG
A:353.2	280-36618-A-10		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-10		280-152136		12/13/2012 04:58	1	TAL DEN	DA
A:SM 2540C	280-36618-A-10		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-10		280-152511		12/14/2012 20:51	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-10		280-151335		12/04/2012 09:58	1	TAL DEN	FS

Lab ID: 280-36618-10 MS **Client ID:** MW-15R

Sample Date/Time: 12/04/2012 09:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-10 MS		280-152053		12/12/2012 22:04	1	TAL DEN	EK

Lab ID: 280-36618-10 MSD **Client ID:** MW-15R

Sample Date/Time: 12/04/2012 09:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-10 MSD		280-152053		12/12/2012 22:20	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-10 DU **Client ID:** MW-15R

Sample Date/Time: 12/04/2012 09:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-10 DU		280-152053		12/12/2012 21:47	1	TAL DEN	EK

Lab ID: 280-36618-11 **Client ID:** MW-36A

Sample Date/Time: 12/04/2012 08:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-11		480-95368		12/12/2012 16:22	1	TAL BUF	RL
A:8260B	280-36618-D-11		480-95368		12/12/2012 16:22	1	TAL BUF	RL
P:5030B	280-36618-E-11		480-95156		12/11/2012 15:59	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-11		480-95156		12/11/2012 15:59	1	TAL BUF	TRB
P:3005A	280-36618-C-11-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-11-A		280-151313	280-150761	12/08/2012 02:41	1	TAL DEN	HEB
P:3005A	280-36618-C-11-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-11-A		280-151538	280-150761	12/10/2012 20:32	1	TAL DEN	HEB
P:3005A	280-36618-C-11-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-11-B		280-151333	280-150767	12/07/2012 20:03	1	TAL DEN	TEL
A:300.0	280-36618-A-11		280-152529		12/15/2012 10:27	1	TAL DEN	EK
A:350.1	280-36618-B-11		280-151637		12/11/2012 09:43	1	TAL DEN	BMG
A:353.2	280-36618-A-11		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-11		280-152136		12/13/2012 04:53	1	TAL DEN	DA
A:SM 2540C	280-36618-A-11		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-11		280-152511		12/14/2012 21:10	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-11		280-151335		12/04/2012 08:58	1	TAL DEN	FS

Lab ID: 280-36618-11 MS **Client ID:** MW-36A

Sample Date/Time: 12/04/2012 08:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-11 MS		280-152529		12/15/2012 11:28	1	TAL DEN	EK

Lab ID: 280-36618-11 MSD **Client ID:** MW-36A

Sample Date/Time: 12/04/2012 08:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-11 MSD		280-152529		12/15/2012 11:43	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: 280-36618-11 DU **Client ID:** MW-36A

Sample Date/Time: 12/04/2012 08:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36618-A-11 DU		280-152529		12/15/2012 10:42	1	TAL DEN	EK

Lab ID: 280-36618-12 **Client ID:** MW-29A

Sample Date/Time: 12/04/2012 10:20 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-D-12		480-95368		12/12/2012 16:43	1	TAL BUF	RL
A:8260B	280-36618-D-12		480-95368		12/12/2012 16:43	1	TAL BUF	RL
P:5030B	280-36618-E-12		480-95156		12/11/2012 16:23	1	TAL BUF	TRB
A:8260B SIM	280-36618-E-12		480-95156		12/11/2012 16:23	1	TAL BUF	TRB
P:3005A	280-36618-C-12-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-12-A		280-151313	280-150761	12/08/2012 02:44	1	TAL DEN	HEB
P:3005A	280-36618-C-12-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36618-C-12-A		280-151538	280-150761	12/10/2012 20:34	1	TAL DEN	HEB
P:3005A	280-36618-C-12-B		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	280-36618-C-12-B		280-151333	280-150767	12/07/2012 20:06	1	TAL DEN	TEL
A:300.0	280-36618-A-12		280-152529		12/15/2012 11:58	1	TAL DEN	EK
A:350.1	280-36618-B-12		280-151637		12/11/2012 09:45	1	TAL DEN	BMG
A:353.2	280-36618-A-12		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	280-36618-A-12		280-152136		12/13/2012 04:49	1	TAL DEN	DA
A:SM 2540C	280-36618-A-12		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	280-36618-B-12		280-152511		12/14/2012 21:58	1	TAL DEN	DFB
A:Field Sampling	280-36618-A-12		280-151335		12/04/2012 10:20	1	TAL DEN	FS

Lab ID: 280-36618-13 **Client ID:** TRIP BLANK

Sample Date/Time: 12/04/2012 08:58 Received Date/Time: 12/05/2012 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36618-A-13		480-95368		12/12/2012 17:05	1	TAL BUF	RL
A:8260B	280-36618-A-13		480-95368		12/12/2012 17:05	1	TAL BUF	RL
P:5030B	280-36618-B-13		480-95156		12/11/2012 16:47	1	TAL BUF	TRB
A:8260B SIM	280-36618-B-13		480-95156		12/11/2012 16:47	1	TAL BUF	TRB

Client: Waste Management

Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-95368/5		480-95368		12/12/2012 10:23	1	TAL BUF	RL
A:8260B	MB 480-95368/5		480-95368		12/12/2012 10:23	1	TAL BUF	RL
P:5030B	MB 480-95156/3		480-95156		12/11/2012 10:45	1	TAL BUF	TRB
A:8260B SIM	MB 480-95156/3		480-95156		12/11/2012 10:45	1	TAL BUF	TRB
P:3005A	MB 280-150761/1-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	MB 280-150761/1-A		280-151313	280-150761	12/08/2012 01:34	1	TAL DEN	HEB
P:3005A	MB 280-150761/1-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	MB 280-150761/1-A		280-151538	280-150761	12/10/2012 19:26	1	TAL DEN	HEB
P:3005A	MB 280-150767/1-A		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	MB 280-150767/1-A		280-151333	280-150767	12/07/2012 19:10	1	TAL DEN	TEL
A:300.0	MB 280-152044/7		280-152044		12/12/2012 12:27	1	TAL DEN	EK
A:300.0	MB 280-152053/6		280-152053		12/12/2012 14:58	1	TAL DEN	EK
A:300.0	MB 280-152529/13		280-152529		12/14/2012 13:02	1	TAL DEN	EK
A:350.1	MB 280-151637/27		280-151637		12/11/2012 08:49	1	TAL DEN	BMG
A:353.2	MB 280-152618/1		280-152618		12/17/2012 16:44	1	TAL DEN	DE
A:SM 2320B	MB 280-151915/6		280-151915		12/11/2012 22:07	1	TAL DEN	DA
A:SM 2320B	MB 280-151915/33		280-151915		12/12/2012 00:11	1	TAL DEN	DA
A:SM 2320B	MB 280-152136/6		280-152136		12/13/2012 00:58	1	TAL DEN	DA
A:SM 2320B	MB 280-152136/33		280-152136		12/13/2012 03:19	1	TAL DEN	DA
A:SM 2540C	MB 280-151556/1		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	MB 280-151641/36		280-151641		12/11/2012 03:50	1	TAL DEN	DFB
A:SM 5310B	MB 280-152511/5		280-152511		12/14/2012 15:09	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-95368/28		480-95368		12/12/2012 11:09	1	TAL BUF	RL
A:8260B	LCS 480-95368/28		480-95368		12/12/2012 11:09	1	TAL BUF	RL
P:5030B	LCS 480-95156/2		480-95156		12/11/2012 10:21	1	TAL BUF	TRB
A:8260B SIM	LCS 480-95156/2		480-95156		12/11/2012 10:21	1	TAL BUF	TRB
P:3005A	LCS 280-150761/2-A		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	LCS 280-150761/2-A		280-151313	280-150761	12/08/2012 01:37	1	TAL DEN	HEB
P:3005A	LCS 280-150761/2-A		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	LCS 280-150761/2-A		280-151538	280-150761	12/10/2012 19:29	1	TAL DEN	HEB
P:3005A	LCS 280-150767/2-A		280-151333	280-150767	12/07/2012 08:00	1	TAL DEN	RC
A:6020	LCS 280-150767/2-A		280-151333	280-150767	12/07/2012 19:13	1	TAL DEN	TEL
A:300.0	LCS 280-152044/5		280-152044		12/12/2012 11:56	1	TAL DEN	EK
A:300.0	LCS 280-152053/4		280-152053		12/12/2012 14:24	1	TAL DEN	EK
A:300.0	LCS 280-152529/11		280-152529		12/14/2012 12:31	1	TAL DEN	EK
A:350.1	LCS 280-151637/25		280-151637		12/11/2012 08:45	1	TAL DEN	BMG
A:SM 2320B	LCS 280-151915/4		280-151915		12/11/2012 21:58	1	TAL DEN	DA
A:SM 2320B	LCS 280-151915/31		280-151915		12/12/2012 00:02	1	TAL DEN	DA
A:SM 2320B	LCS 280-152136/4		280-152136		12/13/2012 00:49	1	TAL DEN	DA
A:SM 2320B	LCS 280-152136/31		280-152136		12/13/2012 03:10	1	TAL DEN	DA
A:SM 2540C	LCS 280-151556/2		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	LCS 280-151641/34		280-151641		12/11/2012 03:15	1	TAL DEN	DFB
A:SM 5310B	LCS 280-152511/3		280-152511		12/14/2012 14:37	1	TAL DEN	DFB

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-152044/6		280-152044		12/12/2012 12:11	1	TAL DEN	EK
A:300.0	LCSD 280-152053/5		280-152053		12/12/2012 14:41	1	TAL DEN	EK
A:300.0	LCSD 280-152529/12		280-152529		12/14/2012 12:47	1	TAL DEN	EK
A:350.1	LCSD 280-151637/26		280-151637		12/11/2012 08:47	1	TAL DEN	BMG
A:SM 2320B	LCSD 280-151915/5		280-151915		12/11/2012 22:03	1	TAL DEN	DA
A:SM 2320B	LCSD 280-151915/32		280-151915		12/12/2012 00:07	1	TAL DEN	DA
A:SM 2320B	LCSD 280-152136/5		280-152136		12/13/2012 00:54	1	TAL DEN	DA
A:SM 2320B	LCSD 280-152136/32		280-152136		12/13/2012 03:15	1	TAL DEN	DA
A:SM 2540C	LCSD 280-151556/3		280-151556		12/11/2012 09:36	1	TAL DEN	SB
A:SM 5310B	LCSD 280-151641/35		280-151641		12/11/2012 03:33	1	TAL DEN	DFB
A:SM 5310B	LCSD 280-152511/4		280-152511		12/14/2012 14:54	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-152044/4		280-152044		12/12/2012 11:41	1	TAL DEN	EK
A:300.0	MRL 280-152053/3		280-152053		12/12/2012 14:08	1	TAL DEN	EK
A:300.0	MRL 280-152529/10		280-152529		12/14/2012 12:16	1	TAL DEN	EK

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29641-D-2 MS		480-95368		12/12/2012 19:15	1	TAL BUF	RL
A:8260B	480-29641-D-2 MS		480-95368		12/12/2012 19:15	1	TAL BUF	RL
P:3005A	280-36611-C-1-B MS		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36611-C-1-B MS		280-151313	280-150761	12/08/2012 01:44	1	TAL DEN	HEB
P:3005A	280-36611-C-1-B MS		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36611-C-1-B MS		280-151538	280-150761	12/10/2012 19:36	1	TAL DEN	HEB
P:3005A	280-36550-Q-1-B MS ^10		280-151333	280-150767	12/07/2012 08:00	10	TAL DEN	RC
A:6020	280-36550-Q-1-B MS ^10		280-151333	280-150767	12/07/2012 20:55	10	TAL DEN	TEL
A:300.0	280-36906-C-1 MS		280-152044		12/12/2012 17:57	1	TAL DEN	EK
A:SM 5310B	280-36605-B-8 MS		280-151641		12/11/2012 08:58	1	TAL DEN	DFB

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29641-E-2 MSD		480-95368		12/12/2012 19:37	1	TAL BUF	RL
A:8260B	480-29641-E-2 MSD		480-95368		12/12/2012 19:37	1	TAL BUF	RL
P:3005A	280-36611-C-1-C MSD		280-151313	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36611-C-1-C MSD		280-151313	280-150761	12/08/2012 01:47	1	TAL DEN	HEB
P:3005A	280-36611-C-1-C MSD		280-151538	280-150761	12/07/2012 08:00	1	TAL DEN	RC
A:6010B	280-36611-C-1-C MSD		280-151538	280-150761	12/10/2012 19:39	1	TAL DEN	HEB
P:3005A	280-36550-Q-1-C MSD ^10		280-151333	280-150767	12/07/2012 08:00	10	TAL DEN	RC
A:6020	280-36550-Q-1-C MSD ^10		280-151333	280-150767	12/07/2012 20:58	10	TAL DEN	TEL
A:300.0	280-36906-C-1 MSD		280-152044		12/12/2012 18:12	1	TAL DEN	EK
A:SM 5310B	280-36605-B-8 MSD		280-151641		12/11/2012 09:16	1	TAL DEN	DFB

Client: Waste Management

Job Number: 280-36618-1

Laboratory Chronicle

Lab ID: DU **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36906-C-1 DU		280-152044		12/12/2012 17:42	1	TAL DEN	EK
A:SM 2320B	280-36804-A-13 DU		280-152136		12/13/2012 01:07	1	TAL DEN	DA

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 December 2012

Betsy Sara
Test America-Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Project: OVSL, 04204027.16
ARI Job No.: VV52

Dear Betsy:

Please find enclosed the original Chain of Custody (COC) documentation and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nineteen water samples on December 6, 2012. The samples were received in good condition. The samples were analyzed for dissolved arsenic as requested.

No analytical complications were noted for these analyses.

Copies of these reports and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file VV52

MDH/mdh

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JVS2	Turn-around Requested: Standard	Date: 12/6/12	
ARI Client Company: SCS Engineers	Phone: 425-289-5443	Page: 1 of 3	
Client Contact: Emily Smart		No. of Coolers: 1	Cooler Temps: 3.3
Client Project Name: OVSL			
Client Project #: 04204027.16	Samplers: MO & WC		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low Level Arsenic	Notes/Comments
OBWL-TD	12/3/12	0955	Aqueous	1	✓	
MW-13B	12/3/12	1029	Aqueous	1	✓	
MW-33C	12/3/12	1201	Aqueous	1	✓	
MW-34A	12/3/12	1317	Aqueous	1	✓	
MW-34C	12/3/12	1442	Aqueous	1	✓	
MW-33A	12/3/12	1150	Aqueous	1	✓	
MW-13A	12/3/12	1038	Aqueous	1	✓	
MW-42	12/4/12	1119	Aqueous	1	✓	
MW-29A	12/4/12	1020	Aqueous	1	✓	
MW-43	12/4/12	0935	Aqueous	1	✓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Wayne Chang	Printed Name: Chris Atwell	Printed Name:	Printed Name:
	Company: SCS Engineers	Company: ARI	Company:	Company:
	Date & Time: 12/6/12	Date & Time: 12/6/12 1150	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: Standard	Date: 12/6/12	
ARI Client Company: SCS Engineers	Phone: 425-289-5443	Page: 2 of 3	
Client Contact: Emily Smart		No. of Coolers:	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.16	Samplers: MO & WC		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low Level Arsenic	Notes/Comments
MW-39	12/4/12	1232	Aqueous	1	✓	
MW-35	12/4/12	1345	Aqueous	1	✓	
MW-24	12/4/12	1522	Aqueous	1	✓	
MW-19C	12/4/12	1500	Aqueous	1	✓	
MW-16	12/4/12	1335	Aqueous	1	✓	
MW-23A	12/4/12	1230	Aqueous	1	✓	
MW-28I	12/4/12	1058	Aqueous	1	✓	
MW-15R	12/4/12	0958	Aqueous	1	✓	
MW-36A	12/4/12	0858	Aqueous	1	✓	
MW-20	12/5/12	0940	Aqueous	1	✓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Wayne Chang	Printed Name: Chris Atwell	Printed Name:	Printed Name:
	Company: SCS Engineers	Company: ARI	Company:	Company:
	Date & Time: 12/6/12	Date & Time: 12/6/12 1150	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: Standard	Date: 12/6/12	
ARI Client Company: SCS Engineers	Phone: 425-289-5443	Page: 3 of 3	
Client Contact: Emily Smart		No. of Coolers:	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.16	Samplers: MO & WC		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Low Level Arsenic	Notes/Comments
Dup 2	12/5/12	0940	Aqueous	1	✓	
MW-4	12/5/12	1007	Aqueous	1	✓	
MW-32	12/5/12	0920	Aqueous	1	✓	
					✓	
					✓	
					✓	
					✓	
					✓	
					✓	
					✓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Wayne Chang	Printed Name: Chris Arnell	Printed Name:	Printed Name:
	Company: SCS Engineers	Company: ARI	Company:	Company:
	Date & Time: 12/6/12	Date & Time: 12-6-12 1150	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: SCS engineers Project Name: OVSL

COC No(s): _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: VV52 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	3.3	

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 32241222 4

Cooler Accepted by: A Date: 12-6-12 Time: 1150

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TS Date: 12-7-12 Time: 1256

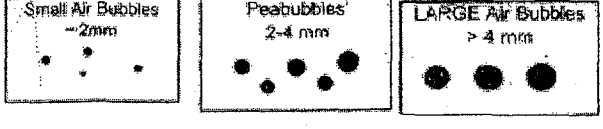
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

No these MW-20 Dup 2 MW-4 Samples were not received: MW32 OBWL-TD

By: TS Date: 12-7-12 Dup 1 Not on COC



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

PRESERVATION VERIFICATION 12/07/12
Page 1 of 2

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **VV52**

Inquiry Number: NONE
Analysis Requested: 12/06/12
Contact: Sara, Betsy
Client: Test America
Logged by: TS
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

PC: Mark
VTSR: 12/06/12

Project #: 04204027.16
Project: OVSL
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
12-24284 **VV52A**	MW-13B						DIS									Y						
12-24285 **VV52B**	MW-33C						DIS									Y						
12-24286 **VV52C**	MW-34A						DIS									Y						
12-24287 **VV52D**	MW-34C						DIS									Y						
12-24288 **VV52E**	MW-33A						DIS									Y						
12-24289 **VV52F**	MW-13A						DIS									Y						
12-24290 **VV52G**	MW-42						DIS									Y						
12-24291 **VV52H**	MW-29A						DIS									Y						
12-24292 **VV52I**	MW-43						DIS									Y						
12-24293 **VV52J**	MW-39						DIS									Y						
12-24294 **VV52K**	MW-35						DIS									Y						
12-24295 **VV52L**	MW-24						DIS									Y						
12-24296 **VV52M**	MW-19C						DIS									Y						
12-24297 **VV52N**	MW-16						DIS									Y						

Page 1 of 2

P = Pass

Checked By TS Date 12-7-12

PRESERVATION VERIFICATION 12/07/12
Page 2 of 2

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **VV52**

Client: Test America

Project #: 04204027.16
Project: OVSL

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
12-24298 **VV52O**	MW-23A						DIS									Y						
12-24299 **VV52P**	MW-2B1						DIS									Y						
12-24300 **VV52Q**	MW-15R						DIS									Y						
12-24301 **VV52R**	MW-36A						DIS									Y						
12-24302 **VV52S**	DUP-1						DIS									Y						

P= Pass

Checked By TJ Date 12-7-12

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: VV52
Client: Test America
Project Event: 04204027.16
Project Name: OVSL

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW-13B	VV52A	12-24284	Water	12/03/12 10:29	12/06/12 11:50
2.	MW-33C	VV52B	12-24285	Water	12/03/12 12:01	12/06/12 11:50
3.	MW-34A	VV52C	12-24286	Water	12/03/12 13:17	12/06/12 11:50
4.	MW-34C	VV52D	12-24287	Water	12/03/12 14:42	12/06/12 11:50
5.	MW-33A	VV52E	12-24288	Water	12/03/12 11:50	12/06/12 11:50
6.	MW-13A	VV52F	12-24289	Water	12/03/12 10:38	12/06/12 11:50
7.	MW-42	VV52G	12-24290	Water	12/04/12 11:19	12/06/12 11:50
8.	MW-29A	VV52H	12-24291	Water	12/04/12 10:20	12/06/12 11:50
9.	MW-43	VV52I	12-24292	Water	12/04/12 09:35	12/06/12 11:50
10.	MW-39	VV52J	12-24293	Water	12/04/12 12:32	12/06/12 11:50
11.	MW-35	VV52K	12-24294	Water	12/04/12 13:45	12/06/12 11:50
12.	MW-24	VV52L	12-24295	Water	12/04/12 15:22	12/06/12 11:50
13.	MW-19C	VV52M	12-24296	Water	12/04/12 15:00	12/06/12 11:50
14.	MW-16	VV52N	12-24297	Water	12/04/12 13:35	12/06/12 11:50
15.	MW-23A	VV52O	12-24298	Water	12/04/12 12:30	12/06/12 11:50
16.	MW-2B1	VV52P	12-24299	Water	12/04/12 10:58	12/06/12 11:50
17.	MW-15R	VV52Q	12-24300	Water	12/04/12 09:58	12/06/12 11:50
18.	MW-36A	VV52R	12-24301	Water	12/04/12 08:58	12/06/12 11:50
19.	DUP-1	VV52S	12-24302	Water	12/03/12 14:42	12/06/12 11:50

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

U — Indicates that the target analyte was not detected at the reported concentration

* — Duplicate RPD is not within established control limits

B — Reported value is less than the CRDL but ≥ the Reporting Limit

N — Matrix Spike recovery not within established control limits

NA — Not Applicable, analyte not spiked

H — The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L — Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U — Indicates that the target analyte was not detected at the reported concentration

* — Flagged value is not within established control limits

B — Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J — Estimated concentration when the value is less than ARI's established reporting limits

D — The spiked compound was not detected due to sample extract dilution

E — Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q — Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NR Spiked compound recovery is not reported due to chromatographic interference

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" **(Dioxin/Furan analysis only)**

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

X Analyte signal includes interference from polychlorinated diphenyl ethers. **(Dioxin/Furan analysis only)**

Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-13B
SAMPLE

Lab Sample ID: VV52A
LIMS ID: 12-24284
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00036**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00012

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-13B
DUPLICATE

Lab Sample ID: VV52A
LIMS ID: 12-24284
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.00036	0.00035	2.8%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-13B
MATRIX SPIKE

Lab Sample ID: VV52A
LIMS ID: 12-24284
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.00036	0.00545	0.005	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-33C
SAMPLE

Lab Sample ID: VV52B
LIMS ID: 12-24285
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00266**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00015

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-34A
SAMPLE

Lab Sample ID: VV52C
LIMS ID: 12-24286
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00033**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-34C
SAMPLE

Lab Sample ID: VV52D
LIMS ID: 12-24287
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.0002	**0.0042**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-33A
SAMPLE

Lab Sample ID: VV52E
LIMS ID: 12-24288
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00037**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00018

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-13A
SAMPLE

Lab Sample ID: VV52F
LIMS ID: 12-24289
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00020**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00019

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-42
SAMPLE

Lab Sample ID: VV52G
LIMS ID: 12-24290
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.0001	**0.0016**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52 : 00020

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-29A
SAMPLE

Lab Sample ID: VV52H
LIMS ID: 12-24291
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00173**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-43
SAMPLE

Lab Sample ID: VV52I
LIMS ID: 12-24292
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00005**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00022

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: MW-39**
Page 1 of 1 **SAMPLE**

Lab Sample ID: VV52J
LIMS ID: 12-24293
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00009**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-35
SAMPLE

Lab Sample ID: VV52K
LIMS ID: 12-24294
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00013**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-24
SAMPLE

Lab Sample ID: VV52L
LIMS ID: 12-24295
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00087**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-19C
SAMPLE

Lab Sample ID: VV52M
LIMS ID: 12-24296
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00279**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00026

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-16
SAMPLE

Lab Sample ID: VV52N
LIMS ID: 12-24297
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00036**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-23A
SAMPLE

Lab Sample ID: VV52O
LIMS ID: 12-24298
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00025**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-2B1
SAMPLE

Lab Sample ID: VV52P
LIMS ID: 12-24299
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00126**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-15R
SAMPLE

Lab Sample ID: VV52Q
LIMS ID: 12-24300
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.00004	**0.00026**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-36A
SAMPLE

Lab Sample ID: VV52R
LIMS ID: 12-24301
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/04/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.0001	**0.0008**	

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00031

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: DUP-1
SAMPLE

Lab Sample ID: VV52S
LIMS ID: 12-24302
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: 12/03/12
Date Received: 12/06/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	**7440-38-2**	**Arsenic**	0.0001	**0.0036**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: VV52LCS
LIMS ID: 12-24285
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.00526	0.00500	105%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

VV52:00033

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: VV52MB
LIMS ID: 12-24285
Matrix: Water
Data Release Authorized:
Reported: 12/14/12

QC Report No: VV52-Test America
Project: OVSL
04204027.16
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
200.8	12/12/12	200.8	12/13/12	7440-38-2	Arsenic	0.00004	0.00004	U

U-Analyte undetected at given RL
RL-Reporting Limit

VV52:00034

Chain of Custody Record

Sampler ID: _____

Temperature on Receipt: 4.6, 5.4, 4.0 °C

Drinking Water? Yes ☐ No ☒ (Tr 12-5-12)

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: SCS Engineers	Project Manager: Emily Smith	Date: 12/4/12	Chain of Custody Number: 156105
Address: 2405 140th Ave NE #107	Telephone Number (Area Code)/Fax Number: 425-289-5443	Lab Number:	Page 1 of 1
City: Bellevue / State: WA / Zip Code: 98005	Site Contact:	Lab Contact: Betsy Sara	
Project Name and Location (State): OUSL / WA02	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 28002692			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Alk/Cl/SO4/TDS	Metals (Diss)	TOC/NH3	NO2 & NO3	VOCs	VOCs-SIM (Low)
MW-42	12/4/12	1119		X			1	1	1	6			X	X	X	X	X	X
MW-29A		1020																
MW-43		0935																
MW-39		1232																
MW-35		1345																
MW-24		1522																
MW-19C		1500																
MW-16		1335																
MW-23A		1230																
MW-28I		1058																
MW-15R		0958																
MW-36A		0858																

Special Instructions/ Conditions of Receipt

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify):

1. Relinquished By: Matthew O'Hara	Date: 12/4/12	Time: 1600	1. Received By:	Date: 12-5-12	Time: 1000
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: Trip Blank included Custody Seals # 388036, 388037

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-42 (Sample ID)

This Waste Management Field Information Form is Required. This Form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36618-1

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	1108				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: A

Sampling Device: A

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other: _____

X-Other: _____

Sample Tube Type: _____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 25.72 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1110	450 1st	6.07 1st	1569 1st	12.25 1st	2.83 1st	11.62	-135.8	12.575
1113	2nd	6.13 2nd	1584 2nd	12.30 2nd	1.62 2nd	10.31	-161.6	12.525
1116	3rd	6.11 3rd	1585 3rd	12.26 3rd	1.03 3rd	10.20	-168.1	12.518
1119	4th	6.18 4th	1585 4th	12.30 4th	1.07 4th	10.13	-171.7	12.588
Suggested range for 3 consec. readings or more Permit/State requirement:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L ppm)	eH/ORP (mV)	Other: Time Units
120412	6.18	1585	12.30	1.07	0.13	-171.7	1119

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit).

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill
Site No.:
Sample Point: MW-13 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory)

Laboratory Use Only/Lab ID: 366018-2

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs-min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	0920				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl) — Depth to Water (DTW) (from TOC): 19.64 (ft) — Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft) — Stick Up (from ground elevation): (ft) — Casing ID: (in) — Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0926	400 1st	5.67 1st	4.19 1st	11.10 1st	10.97 1st	2.44 1st	115.5 1st	119.75 1st
0928	" 2nd	5.60 2nd	4.19 2nd	11.08 2nd	13.34 2nd	2.38 2nd	112.4 2nd	119.80 2nd
0932	" 3rd	5.62 3rd	4.19 3rd	11.08 3rd	12.96 3rd	2.36 3rd	110.7 3rd	119.85 3rd
0935	V 4th	5.60 4th	4.19 4th	11.09 4th	12.43 4th	2.37 4th	111.2 4th	120.00 4th
Suggested range for 3 consec. readings or per Permit/State requirements		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	5.60	4.19	11.09	2.43	2.37	111.2	0935

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: — Odor: — Color: — Other:

Weather Conditions (required daily, or as conditions change): — Direction/Speed: — Outlook: — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.04.12	Matt O'Hare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-13R (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360618-3

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1220				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: _____ — Sampling Device: _____ — X-Other: _____

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A — A-In-line Disposable; B-Pressure; C-Vacuum; X-Other _____

Sample Tube Type: _____ — A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC) _____ (ft/msl) — Depth to Water (DTW) (from TOC) 116.16 (ft) — Groundwater Elevation (site datum, from TOC) _____ (ft/msl)

Total Well Depth (from TOC) _____ (ft) — Stick Up (from ground elevation) _____ (ft) — Casing ID _____ (in) — Casing Material _____

Note: Total Well Depth, Stick Up, Casing id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm @ 25 °C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1223	450	1st	6.01	1st	1160	1st	17.0	4.73	1.64	120	116.16
1226	450	2nd	5.91	2nd	1156	2nd	16.4	3.99	1.48	-2.5	116.20
1229	475	3rd	5.81	3rd	1155	3rd	16.3	3.45	1.45	40.0	116.20
1232	475	4th	5.85	4th	1156	4th	16.4	3.33	1.58	-15.4	116.25
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		+/- 10%		+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	5.85	1156	16.4	3.33	1.58	-15.4	1232

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12,4,12	Matt Ortare		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample; YELLOW - Returned to Client; PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: | | | |

Sample Point: MW-35 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the Sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360618-4

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1333				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: _____ — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bailer

Sampling Device: _____

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

X-Other: _____

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft msl) — Depth to Water (DTW) (from TOC): 70.27 (ft) — Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft) — Stick Up (from ground elevation): _____ (ft) — Casing ID: _____ (in) — Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm @ 25 °C)		Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1336	450	1st	6.74	1st	1147	1st	10.11	7.65	7.35	128	70.35
1339		2nd	6.97	2nd	1147	2nd	9.85	5.32	7.20	111	70.35
1342		3rd	7.09	3rd	1148	3rd	9.82	4.11	7.14	126	70.35
1345	↓	4th	7.16	4th	1148	4th	9.76	3.26	7.14	130	70.35
Suggested range for 3 consec. readings or note Permit/State requirements			+/- 0.2		+/- 10%		+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	7.16	1148	9.76	3.26	7.14	-130	1345

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): _____ Direction/Speed: _____ Outlook: Rain Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Matt O'Hare	[signature]	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Form that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36618-5

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1458				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____ — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: ____

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: ____

X-Other: ____ — Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl) — Depth to Water (DTW) (from TOC): 32.30 (ft) — Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft) — Stick Up (from ground elevation): ____ (ft) — Casing ID: ____ (in) — Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc, are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1501	500 1st	6.52 1st	1.153	11.95	3.774	.1082	-284	32.30
1510	500 2nd	6.50 2nd	1.154	11.96	1.136	.1035	-410.2	32.20
1510	500 3rd	6.49 3rd	1.154	11.99	1.322	.1020	-416.7	32.40
1510	~~500~~ 4th	6.48 4th	1.155	11.98	.917	.0915	-510.4	32.40
1513	500	6.47	1.155	11.95	.616	.0913	-529	32.45
1516	500	6.46	1.155	11.98	.607	.0910	-545	32.45
1519	500	6.45	1.155	11.99	.690	.0911	-555	32.48
1522	500	6.45	1.155	11.99	.406	.0910	-569	32.58
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are required, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Others: Time / Units
120412	6.45	1.155	11.99	4.06	0.10	-569	1512

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12,4,12	Matt Oliver	Matt Oliver	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-11 (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36618-6

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 04 12	1440				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle, X-Other: _____

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

Sample Tube Type: _____

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 32.85 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1445	1st	5.99	1.02	10.38	0.0	1.72	172	
1450	2nd	6.56	1.03	10.33		0.35	103	
1455	3rd	6.63	1.03	10.30	0.0	0.29	89.9	32.85
1500	4th	6.65	1.04	10.28		0.23	78.1	
Suggested range for 3 consec. readings or per Permit/State requirements		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12 04 12	6.65	1.04	10.28	0.0	0.23	78.1	1500

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8"

7

40

430

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill
Site No.:
Sample Point: MW-11G (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 30618-7

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs/min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1320				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell/and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	59.95	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1320	1"	6.12	82	9.81		7.93	135.9	
1325	2"	6.16	87	9.69	0.0	6.96	139.7	60.16
1330	3"	6.20	86	9.45		6.09	137.8	
1335	4"	6.22	85	9.14		6.16	136.6	60.16
Suggested range for 3 consec. readings or note Permit/State requirements		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other ____ Units	Time
120412	6.22	85	9.14	0.0	6.16	136.6		1335

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling) for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
50
400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Cwyne Chang	Cwyne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: | | | | Sample Point: MW-23A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360618-8

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1210				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

X-Other:

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	11.75	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1215	1"	6.05	5.8	9.75	32.1	5.91	129.9	
1220	2"	6.05	5.8	9.74		5.87	129.9	
1225	3"	6.05	5.8	9.72	10.0	5.85	130.5	11.87
1230	4"	6.05	5.8	9.74		5.77	131.6	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
120412	6.05	5.8	9.74	0.0	5.77	131.6	1230

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8 MW-23B : 12.35

7 MW-23C : 12.35

15

400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill
Site No.:
Sample Point: MW-28RL (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360018-9

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	1040				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)
Purging Device: C
Sampling Device: C
A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle
Filter Type: A
A-In-line Disposable B-Pressure C-Vacuum X-Other: ____
X-Other: ____
Sample Tube Type: ____
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)
Depth to Water (DTW) (from TOC) 62.2 (ft)
Groundwater Elevation (site datum, from TOC) ____ (ft/msl)
Total Well Depth (from TOC) ____ (ft)
Stick Up (from ground elevation) ____ (ft)
Casing ID ____ (in)
Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1045	1st	6.30	110	12.28		0.71	187	
1045	2nd	6.17	102	12.27	2.29	0.43	177	
1050	3rd	6.12	98	12.30		0.74	173	6.35
1055	4th	6.12	98	12.32	.00	0.78	169	
1058		6.11	97	12.31		0.87	169	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data with sample to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	6.11	97	12.34	0.0	0.87	169	1058

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____
Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N
Specific Comments (including purge/well volume calculations if required):

8 2A = 735
7
10
730

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-11 (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 366018-10

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	0956				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (delete or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other: _____

X-Other: _____

Sample Tube Type: _____

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/mst)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	17.85	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:29	1"	6.06	8	9.96	0.0	7.45	155.4	
09:45	2"	6.25	22	10.03		6.30	140.6	17.95
09:50	3"	6.28	134	9.99	0.0	1.16	132.5	
09:55	4"	6.29	133	10.00		1.10	129.7	17.90
09:58		6.30	134	9.99		1.06	127.6	
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	630	134	9.99	0.0	1.06	127.6	0958

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
20
4000

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.04.12	Cayne Chang	Cayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-B6A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 36618-11

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120412	0835				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N — (0.45 µ) or _____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 29.75 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: _____ (in)

Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0840	1st	5.54	10.1	9.29	0.0	2.26	165.9	
0845	2nd	5.76	9.9	9.25		1.50	174.1	
0850	3rd	5.77	9.8	9.24	0.0	1.64	169.1	31.22
0855	4th	5.78	9.5	9.24		1.54	166.6	
0858		5.78	9.3	9.24		1.65	164.2	
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120412	5.78	9.3	9.24	0.0	1.65	164.2	0858

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8
7
25
300
MW36 : DTW : 29.91

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.4.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-6029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-29A (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 346618-12

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/04/12	1108				

Notes: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____ — Sampling Device: ____ — X-Other: ____

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC), ____ (ft msl) — Depth to Water (DTW) (from TOC) 19.68 (ft) — Groundwater Elevation (site datum, from TOC) ____ (ft msl)

Total Well Depth (from TOC) ____ (ft) — Stick Up (from ground elevation) ____ (ft) — Casing ID ____ (in) — Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1011	500 1"	5.75 1"	716	8.40	3.72	1.30	-10.7	19.68
1014	2"	5.82 2"	717	8.44	2.96	0.69	-11.6.3	19.73
1017	3"	5.87 3"	716	8.44	2.13	0.39	-11.8.6	19.80
1020	4"	5.89 4"	716	8.46	1.08	0.26	-12.1.2	19.85
	V							

Suggested range for 3 consec. readings or note Permit/State requirements: +/- 0.2 | +/- 10% | +/- 0.5°C | +/- 10% ≤ 5 | +/- 0.2 | | Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/04/12	5.89	716	8.46	1.08	0.26	-12.1.2	1102.0

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/4/12	M. Hollore		SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36618-1

Login Number: 36618

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36618-1

Login Number: 36618
List Number: 1
Creator: Robison, Zachary

List Source: TestAmerica Buffalo
List Creation: 12/07/12 04:45 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36664-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
12/21/2012 9:54 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/21/2012

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36664-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 12/06/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.6 C.

Holding Times

All holding times were within established control limits.

Method Blanks

All Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for 1,1-Dichloroethene, Tetrachloroethene, Trichloroethene Method 8260B, Dissolved Vanadium and Dissolved Selenium Method 6020. In addition, the RPD result was outside the RPD limit for Dissolved Selenium. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

The percent recoveries and/or the relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Dissolved Manganese during Method 6020 because the sample concentration was greater than four times the spike amount.

All other MS and MSD samples were within established control limits.

Metals

The bracketing Continuing Calibration Verification Samples (CCV) surrounding the Method Blank were above control limits for Dissolved Sodium during Method 6010B analysis. Because the data are considered to be biased high and Total Sodium was not detected in the Method Blank sample above the reporting limit, corrective action was deemed unnecessary.

The Method 6020 continuing calibration verification (CCV) for Dissolved Selenium associated with batch 151522 recovered above the upper control limit. The samples associated with this CCV were less than the reporting limit for Dissolved Selenium; therefore, the data have been reported.

The Method 6020 continuing calibration verification (CCV) for Dissolved Selenium associated with batch 151741 recovered above the upper control limit. The samples associated with this CCV were non-detect for Dissolved Selenium; therefore, the data have been reported.

General Comments

The analyses for Volatile Organics by Method 8260B and Volatile Organics by Method 8260B SIM were performed by TestAmerica

Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36664-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36664-1	**MW-20**					
Depth to water		35.05			ft	Field Sampling
Specific Conductivity		104			umhos/cm	Field Sampling
Dissolved Oxygen		8.15			mg/L	Field Sampling
eH		38.6			millivolts	Field Sampling
Turbidity		2.08			NTU	Field Sampling
Temperature		13.60			Degrees C	Field Sampling
pH		6.61			SU	Field Sampling
Chloride		1.1		1.0	mg/L	300.0
Sulfate		2.0		1.0	mg/L	300.0
Nitrate as N		8.2		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		53		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		53		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		130		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.3		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		7.1		0.050	mg/L	6010B
Potassium, Dissolved		2.0		1.0	mg/L	6010B
Sodium, Dissolved		8.4		1.0	mg/L	6010B
Barium, Dissolved		0.0059		0.0010	mg/L	6020
280-36664-2FD	**DUP2**					
Chloride		1.0		1.0	mg/L	300.0
Sulfate		2.0		1.0	mg/L	300.0
Ammonia (as N)		0.079		0.030	mg/L	350.1
Nitrate as N		8.3		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		54		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		54		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		130		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		7.1		0.050	mg/L	6010B
Potassium, Dissolved		2.0		1.0	mg/L	6010B
Sodium, Dissolved		8.4		1.0	mg/L	6010B
Barium, Dissolved		0.0054		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36664-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36664-3	**MW-4**					
Depth to water		11.36			ft	Field Sampling
Specific Conductivity		50			umhos/cm	Field Sampling
Dissolved Oxygen		4.17			mg/L	Field Sampling
eH		66.4			millivolts	Field Sampling
Turbidity		1.80			NTU	Field Sampling
Temperature		9.99			Degrees C	Field Sampling
pH		5.77			SU	Field Sampling
Chloride		3.5		1.0	mg/L	300.0
Sulfate		1.8		1.0	mg/L	300.0
Nitrate as N		0.23		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		24		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		24		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		57		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		5.5		0.040	mg/L	6010B
Magnesium, Dissolved		2.5		0.050	mg/L	6010B
Sodium, Dissolved		3.8		1.0	mg/L	6010B
Barium, Dissolved		0.0017		0.0010	mg/L	6020
Manganese, Dissolved		0.034		0.0010	mg/L	6020
280-36664-4	**MW-32**					
Trichloroethene		0.57	J	1.0	ug/L	8260B
Vinyl chloride		0.63		0.020	ug/L	8260B SIM
Depth to water		0.50			ft	Field Sampling
Specific Conductivity		242			umhos/cm	Field Sampling
Dissolved Oxygen		0.85			mg/L	Field Sampling
eH		2.6			millivolts	Field Sampling
Turbidity		2.14			NTU	Field Sampling
Temperature		12.16			Degrees C	Field Sampling
pH		6.61			SU	Field Sampling
Chloride		12		1.0	mg/L	300.0
Sulfate		16		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		120		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		120		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		200		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.1		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		22		0.040	mg/L	6010B
Iron, Dissolved		0.59		0.060	mg/L	6010B
Magnesium, Dissolved		11		0.050	mg/L	6010B
Sodium, Dissolved		13		1.0	mg/L	6010B
Barium, Dissolved		0.0052		0.0010	mg/L	6020
Manganese, Dissolved		2.2		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36664-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B SIM	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36664-1

Method	Analyst	Analyst ID
SW846 8260B	Larson, Renee	RL
SW846 8260B SIM	Brandt, Todd R	TRB
SW846 6010B	Harre, John K	JKH
SW846 6020	Trudell, Lynn-Anne	LT
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
EPA 353.2	Sullivan, Roxanne	RS
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 5310B	Bandy, Darlene F	DFB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36664-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36664-1	MW-20	Water	12/05/2012 0940	12/06/2012 0930
280-36664-2FD	DUP2	Water	12/05/2012 0940	12/06/2012 0930
280-36664-3	MW-4	Water	12/05/2012 1007	12/06/2012 0930
280-36664-4	MW-32	Water	12/05/2012 0920	12/06/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4249.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1454				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management | Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1 | Date Sampled: 12/05/2012 0940
Client Matrix: Water | Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4249.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1454				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4249.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1454				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
4-Bromofluorobenzene (Surr)	110		73 - 120
Toluene-d8 (Surr)	113		71 - 126

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4249.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1454				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4250.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1518			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1518				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4250.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1518			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1518				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD

Client Matrix: Water

Date Sampled: 12/05/2012 0940

Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4250.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1518			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1518				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
4-Bromofluorobenzene (Surr)	109		73 - 120
Toluene-d8 (Surr)	113		71 - 126

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4250.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1518			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1518				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4251.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1542			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1542				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4251.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1542			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1542				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4251.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1542			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1542				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
4-Bromofluorobenzene (Surr)	115		73 - 120
Toluene-d8 (Surr)	114		71 - 126

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4251.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1542			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1542				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4252.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4252.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	0.57	J	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4252.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1606				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
4-Bromofluorobenzene (Surr)	115		73 - 120
Toluene-d8 (Surr)	115		71 - 126

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	T4252.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1606			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1606				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0212.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1711			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1711				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0213.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1735			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1735				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0214.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1759			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1759				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0215.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1823			Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1823				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	0.63		0.020	0.020

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2153			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	14		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	7.1		0.050	0.050
Potassium, Dissolved	2.0		1.0	1.0
Sodium, Dissolved	8.4		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151522	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151007	Lab File ID:	177SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2334			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0059		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND	^	0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD
Client Matrix: Water

Date Sampled: 12/05/2012 0940
Date Received: 12/06/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2155			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	14		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	7.1		0.050	0.050
Potassium, Dissolved	2.0		1.0	1.0
Sodium, Dissolved	8.4		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151522	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151007	Lab File ID:	178SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2338			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0054		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND	^	0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3
Client Matrix: Water

Date Sampled: 12/05/2012 1007
Date Received: 12/06/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2204			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	5.5		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	2.5		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	3.8		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151522	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151007	Lab File ID:	179SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2342			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0017		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.034		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND	^	0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-36664-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4
Client Matrix: Water

Date Sampled: 12/05/2012 0920
Date Received: 12/06/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2206			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	22		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.59		0.060	0.060
Magnesium, Dissolved	11		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	13		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151522	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151007	Lab File ID:	180SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2346			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0052		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	2.2		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND	^	0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

General Chemistry

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1 Date Sampled: 12/05/2012 0940
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1430						
Sulfate	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1430						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151834	Analysis Date: 12/12/2012 0848						
Nitrate as N	8.2		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152899	Analysis Date: 12/19/2012 0818						
Alkalinity, Total (As CaCO3)	53		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2119						
Alkalinity, Bicarbonate (As CaCO3)	53		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2119						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2119						
Total Dissolved Solids (TDS)	130		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151813	Analysis Date: 12/12/2012 1210						
Total Organic Carbon - Average	1.3		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/14/2012 2159						

General Chemistry

Client Sample ID: **DUP2**

Lab Sample ID: 280-36664-2FD Date Sampled: 12/05/2012 0940
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1447						
Sulfate	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1447						
Ammonia (as N)	0.079		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151834	Analysis Date: 12/12/2012 0855						
Nitrate as N	8.3		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152899	Analysis Date: 12/19/2012 0818						
Alkalinity, Total (As CaCO3)	54		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2133						
Alkalinity, Bicarbonate (As CaCO3)	54		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2133						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2133						
Total Dissolved Solids (TDS)	130		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151813	Analysis Date: 12/12/2012 1210						
Total Organic Carbon - Average	1.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/14/2012 2255						

General Chemistry

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3 Date Sampled: 12/05/2012 1007
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1504						
Sulfate	1.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1504						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151834	Analysis Date: 12/12/2012 0907						
Nitrate as N	0.23		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152899	Analysis Date: 12/19/2012 0818						
Alkalinity, Total (As CaCO3)	24		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2137						
Alkalinity, Bicarbonate (As CaCO3)	24		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2137						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2137						
Total Dissolved Solids (TDS)	57		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151813	Analysis Date: 12/12/2012 1210						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/14/2012 2314						

General Chemistry

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4 Date Sampled: 12/05/2012 0920
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	12		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1520						
Sulfate	16		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1520						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-151834	Analysis Date: 12/12/2012 0909						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-152899	Analysis Date: 12/19/2012 0818						
Alkalinity, Total (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2142						
Alkalinity, Bicarbonate (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2142						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2142						
Total Dissolved Solids (TDS)	200		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151813	Analysis Date: 12/12/2012 1210						
Total Organic Carbon - Average	1.1		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/14/2012 2329						

Field Service / Mobile Lab

Client Sample ID: **MW-20**

Lab Sample ID: 280-36664-1 Date Sampled: 12/05/2012 0940
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	35.05		ft	1.0	Field Sampling	280-151335	12/05/2012 0940
Specific Conductivity	104		umhos/cm	1.0	Field Sampling	280-151335	12/05/2012 0940
Dissolved Oxygen	8.15		mg/L	1.0	Field Sampling	280-151335	12/05/2012 0940
eH	38.6		millivolts	1.0	Field Sampling	280-151335	12/05/2012 0940
Turbidity	2.08		NTU	1.0	Field Sampling	280-151335	12/05/2012 0940
Temperature	13.60		Degrees C	1.0	Field Sampling	280-151335	12/05/2012 0940
pH	6.61		SU	1.0	Field Sampling	280-151335	12/05/2012 0940

Field Service / Mobile Lab

Client Sample ID: **MW-4**

Lab Sample ID: 280-36664-3 Date Sampled: 12/05/2012 1007
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	11.36		ft	1.0	Field Sampling	280-151335	12/05/2012 1007
Specific Conductivity	50		umhos/cm	1.0	Field Sampling	280-151335	12/05/2012 1007
Dissolved Oxygen	4.17		mg/L	1.0	Field Sampling	280-151335	12/05/2012 1007
eH	66.4		millivolts	1.0	Field Sampling	280-151335	12/05/2012 1007
Turbidity	1.80		NTU	1.0	Field Sampling	280-151335	12/05/2012 1007
Temperature	9.99		Degrees C	1.0	Field Sampling	280-151335	12/05/2012 1007
pH	5.77		SU	1.0	Field Sampling	280-151335	12/05/2012 1007

Field Service / Mobile Lab

Client Sample ID: **MW-32**

Lab Sample ID: 280-36664-4 Date Sampled: 12/05/2012 0920
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	0.50		ft	1.0	Field Sampling	280-151335	12/05/2012 0920
Specific Conductivity	242		umhos/cm	1.0	Field Sampling	280-151335	12/05/2012 0920
Dissolved Oxygen	0.85		mg/L	1.0	Field Sampling	280-151335	12/05/2012 0920
eH	2.6		millivolts	1.0	Field Sampling	280-151335	12/05/2012 0920
Turbidity	2.14		NTU	1.0	Field Sampling	280-151335	12/05/2012 0920
Temperature	12.16		Degrees C	1.0	Field Sampling	280-151335	12/05/2012 0920
pH	6.61		SU	1.0	Field Sampling	280-151335	12/05/2012 0920

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36664-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	RPD of the MS and MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36664-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-95156					
LCS 480-95156/2	Lab Control Sample	T	Water	8260B SIM	
MB 480-95156/3	Method Blank	T	Water	8260B SIM	
280-36664-1	MW-20	T	Water	8260B SIM	
280-36664-2FD	DUP2	T	Water	8260B SIM	
280-36664-3	MW-4	T	Water	8260B SIM	
280-36664-4	MW-32	T	Water	8260B SIM	
Analysis Batch:480-95591					
LCS 480-95591/4	Lab Control Sample	T	Water	8260B	
MB 480-95591/7	Method Blank	T	Water	8260B	
480-29706-E-3 MS	Matrix Spike	T	Water	8260B	
480-29706-E-3 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36664-1	MW-20	T	Water	8260B	
280-36664-2FD	DUP2	T	Water	8260B	
280-36664-3	MW-4	T	Water	8260B	
280-36664-4	MW-32	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36664-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-151007					
LCS 280-151007/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151007/1-A	Method Blank	R	Water	3005A	
280-36596-C-1-B MS	Matrix Spike	D	Water	3005A	
280-36596-C-1-B MS ^10	Matrix Spike	D	Water	3005A	
280-36596-C-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36596-C-1-C MSD ^10	Matrix Spike Duplicate	D	Water	3005A	
280-36664-1	MW-20	D	Water	3005A	
280-36664-2FD	DUP2	D	Water	3005A	
280-36664-3	MW-4	D	Water	3005A	
280-36664-4	MW-32	D	Water	3005A	
Prep Batch: 280-151012					
LCS 280-151012/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151012/1-A	Method Blank	R	Water	3005A	
280-36664-1	MW-20	D	Water	3005A	
280-36664-2FD	DUP2	D	Water	3005A	
280-36664-2MS	Matrix Spike	D	Water	3005A	
280-36664-2MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36664-3	MW-4	D	Water	3005A	
280-36664-4	MW-32	D	Water	3005A	
Analysis Batch:280-151522					
LCS 280-151007/2-A	Lab Control Sample	R	Water	6020	280-151007
MB 280-151007/1-A	Method Blank	R	Water	6020	280-151007
280-36596-C-1-B MS	Matrix Spike	D	Water	6020	280-151007
280-36596-C-1-C MSD	Matrix Spike Duplicate	D	Water	6020	280-151007
280-36664-1	MW-20	D	Water	6020	280-151007
280-36664-2FD	DUP2	D	Water	6020	280-151007
280-36664-3	MW-4	D	Water	6020	280-151007
280-36664-4	MW-32	D	Water	6020	280-151007
Analysis Batch:280-151741					
280-36596-C-1-B MS ^10	Matrix Spike	D	Water	6020	280-151007
280-36596-C-1-C MSD ^10	Matrix Spike Duplicate	D	Water	6020	280-151007
Analysis Batch:280-151948					
LCS 280-151012/2-A	Lab Control Sample	R	Water	6010B	280-151012
MB 280-151012/1-A	Method Blank	R	Water	6010B	280-151012
280-36664-1	MW-20	D	Water	6010B	280-151012
280-36664-2FD	DUP2	D	Water	6010B	280-151012
280-36664-2MS	Matrix Spike	D	Water	6010B	280-151012
280-36664-2MSD	Matrix Spike Duplicate	D	Water	6010B	280-151012
280-36664-3	MW-4	D	Water	6010B	280-151012
280-36664-4	MW-32	D	Water	6010B	280-151012

Client: Waste Management

Job Number: 280-36664-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
D = Dissolved					
R = Total Recoverable					
Field Service / Mobile Lab					
Analysis Batch:280-151335					
280-36664-1	MW-20	T	Water	Field Sampling	
280-36664-3	MW-4	T	Water	Field Sampling	
280-36664-4	MW-32	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36664-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151813					
LCS 280-151813/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-151813/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-151813/1	Method Blank	T	Water	SM 2540C	
280-36662-A-7 DU	Duplicate	T	Water	SM 2540C	
280-36664-1	MW-20	T	Water	SM 2540C	
280-36664-2FD	DUP2	T	Water	SM 2540C	
280-36664-3	MW-4	T	Water	SM 2540C	
280-36664-4	MW-32	T	Water	SM 2540C	
280-36667-A-2 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-151834					
LCS 280-151834/19	Lab Control Sample	T	Water	350.1	
LCSD 280-151834/20	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-151834/21	Method Blank	T	Water	350.1	
280-36664-1	MW-20	T	Water	350.1	
280-36664-1MS	Matrix Spike	T	Water	350.1	
280-36664-1MSD	Matrix Spike Duplicate	T	Water	350.1	
280-36664-2FD	DUP2	T	Water	350.1	
280-36664-3	MW-4	T	Water	350.1	
280-36664-4	MW-32	T	Water	350.1	
Analysis Batch:280-152153					
LCS 280-152153/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-152153/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-152153/33	Method Blank	T	Water	SM 2320B	
280-36664-1	MW-20	T	Water	SM 2320B	
280-36664-2FD	DUP2	T	Water	SM 2320B	
280-36664-3	MW-4	T	Water	SM 2320B	
280-36664-4	MW-32	T	Water	SM 2320B	
280-36667-A-8 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-152552					
LCS 280-152552/14	Lab Control Sample	T	Water	300.0	
LCSD 280-152552/15	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152552/16	Method Blank	T	Water	300.0	
280-36664-1	MW-20	T	Water	300.0	
280-36664-2FD	DUP2	T	Water	300.0	
280-36664-3	MW-4	T	Water	300.0	
280-36664-4	MW-32	T	Water	300.0	
280-36664-4DU	Duplicate	T	Water	300.0	
280-36664-4MS	Matrix Spike	T	Water	300.0	
280-36664-4MSD	Matrix Spike Duplicate	T	Water	300.0	

Client: Waste Management

Job Number: 280-36664-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-152558					
LCS 280-152558/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152558/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152558/5	Method Blank	T	Water	SM 5310B	
280-36664-1	MW-20	T	Water	SM 5310B	
280-36664-1MS	Matrix Spike	T	Water	SM 5310B	
280-36664-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-36664-2FD	DUP2	T	Water	SM 5310B	
280-36664-3	MW-4	T	Water	SM 5310B	
280-36664-4	MW-32	T	Water	SM 5310B	
Analysis Batch:280-152899					
MB 280-152899/1	Method Blank	T	Water	353.2	
280-36664-1	MW-20	T	Water	353.2	
280-36664-2FD	DUP2	T	Water	353.2	
280-36664-3	MW-4	T	Water	353.2	
280-36664-4	MW-32	T	Water	353.2	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36664-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-36664-1	MW-20	122	110	113
280-36664-2	DUP2	122	109	113
280-36664-3	MW-4	120	115	114
280-36664-4	MW-32	118	115	115
MB 480-95591/7		119	117	120
LCS 480-95591/4		116	120	118
480-29706-E-3 MS		118	113	115
480-29706-E-3 MSD		117	119	115

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 480-95591

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95591/7	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4244.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1242	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1242				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 480-95591

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95591/7	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4244.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1242	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1242				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 480-95591

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95591/7	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4244.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1242	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1242				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119	66 - 137
4-Bromofluorobenzene (Surr)	117	73 - 120
Toluene-d8 (Surr)	120	71 - 126

Method Blank TICs- Batch: 480-95591

Cas Number	Analyte	RT	Est. Result	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-36664-1

Lab Control Sample - Batch: 480-95591

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-95591/4	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4241.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1130	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1130				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.4	102	71 - 129	
1,1-Dichloroethene	25.0	28.0	112	58 - 121	
1,2,4-Trimethylbenzene	25.0	28.1	113	76 - 121	
1,2-Dichlorobenzene	25.0	28.0	112	80 - 124	
1,2-Dichloroethane	25.0	27.5	110	75 - 127	
Benzene	25.0	24.4	98	71 - 124	
Chlorobenzene	25.0	26.6	106	72 - 120	
cis-1,2-Dichloroethene	25.0	25.1	100	74 - 124	
Ethylbenzene	25.0	26.9	108	77 - 123	
Methyl tert-butyl ether	25.0	25.6	103	64 - 127	
m-Xylene & p-Xylene	50.0	53.7	107	76 - 122	
o-Xylene	25.0	26.2	105	76 - 122	
Tetrachloroethene	25.0	29.6	119	74 - 122	
Toluene	25.0	25.8	103	80 - 122	
trans-1,2-Dichloroethene	25.0	25.6	102	73 - 127	
Trichloroethene	25.0	27.1	108	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116	66 - 137
4-Bromofluorobenzene (Surr)	120	73 - 120
Toluene-d8 (Surr)	118	71 - 126

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95591

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29706-E-3 MS	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4257.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1805			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1805				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29706-E-3 MSD	Analysis Batch:	480-95591	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T4258.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/13/2012 1829			Final Weight/Volume:	5 mL
Prep Date:	12/13/2012 1829				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	107	109	71 - 129	2	20		
1,1-Dichloroethene	121	122	58 - 121	2	16		F
1,2-Dichlorobenzene	114	122	80 - 124	6	20		
1,2-Dichloroethane	119	119	75 - 127	0	20		
Benzene	104	108	71 - 124	4	13		
Chlorobenzene	108	115	72 - 120	6	25		
cis-1,2-Dichloroethene	107	111	74 - 124	4	15		
Ethylbenzene	109	115	77 - 123	4	15		
Methyl tert-butyl ether	103	106	64 - 127	3	37		
m-Xylene & p-Xylene	111	117	76 - 122	4	16		
o-Xylene	107	109	76 - 122	1	16		
Tetrachloroethene	130	136	74 - 122	4	20	F	F
Toluene	108	112	80 - 122	4	15		
trans-1,2-Dichloroethene	110	115	73 - 127	5	20		
Trichloroethene	122	126	74 - 123	3	16		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118	117	66 - 137
4-Bromofluorobenzene (Surr)	113	119	73 - 120
Toluene-d8 (Surr)	115	115	71 - 126

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95591

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29706-E-3 MS	Units: ug/L	MSD Lab Sample ID:	480-29706-E-3 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/13/2012 1805		Analysis Date:	12/13/2012 1829	
Prep Date:	12/13/2012 1805		Prep Date:	12/13/2012 1829	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1-Dichloroethane	ND	25.0	25.0	26.7		27.2	
1,1-Dichloroethene	ND	25.0	25.0	30.1		30.6	F
1,2-Dichlorobenzene	ND	25.0	25.0	28.6		30.4	
1,2-Dichloroethane	ND	25.0	25.0	29.8		29.7	
Benzene	ND	25.0	25.0	25.9		27.0	
Chlorobenzene	ND	25.0	25.0	27.0		28.7	
cis-1,2-Dichloroethene	ND	25.0	25.0	26.8		27.8	
Ethylbenzene	9.9	25.0	25.0	37.1		38.6	
Methyl tert-butyl ether	ND	25.0	25.0	25.7		26.6	
m-Xylene & p-Xylene	23	50.0	50.0	78.8		82.1	
o-Xylene	20	25.0	25.0	47.2		47.8	
Tetrachloroethene	ND	25.0	25.0	32.4	F	33.9	F
Toluene	ND	25.0	25.0	26.9		28.0	
trans-1,2-Dichloroethene	ND	25.0	25.0	27.5		28.8	
Trichloroethene	ND	25.0	25.0	30.5		31.5	F

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 480-95156

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 480-95156/3	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0197.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1045	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1045				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Vinyl chloride	ND		0.020	0.020

Lab Control Sample - Batch: 480-95156

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 480-95156/2	Analysis Batch:	480-95156	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0196.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/11/2012 1021	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/11/2012 1021				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.128	64	60 - 140	

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-151012

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151012/1-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2134	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	ND		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	ND	^	1.0	1.0

Lab Control Sample - Batch: 280-151012

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151012/2-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2136	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	50.3	101	90 - 111	
Cobalt, Dissolved	0.500	0.511	102	89 - 111	
Iron, Dissolved	1.00	1.03	103	89 - 115	
Magnesium, Dissolved	50.0	50.9	102	90 - 113	
Potassium, Dissolved	50.0	51.7	103	89 - 114	
Sodium, Dissolved	50.0	54.8	110	90 - 115	

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151012

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36664-2	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2200			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-2	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151012	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2202			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	96	101	48 - 153	4	20		
Cobalt, Dissolved	98	101	82 - 119	3	20		
Iron, Dissolved	99	102	52 - 155	3	20		
Magnesium, Dissolved	98	101	62 - 146	3	20		
Potassium, Dissolved	99	103	76 - 132	3	20		
Sodium, Dissolved	106	109	70 - 203	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151012

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36664-2	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2012 2200		
Prep Date:	12/12/2012 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36664-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2012 2202
Prep Date:	12/12/2012 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	14	50.0	50.0	61.7	63.9
Cobalt, Dissolved	ND	0.500	0.500	0.489	0.507
Iron, Dissolved	ND	1.00	1.00	0.987	1.02
Magnesium, Dissolved	7.1	50.0	50.0	56.2	57.8
Potassium, Dissolved	2.0	50.0	50.0	51.7	53.4
Sodium, Dissolved	8.4	50.0	50.0	61.3	62.9

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-151007

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151007/1-A	Analysis Batch:	280-151522	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	174_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2322	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	ND		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND	^	0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-151007

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151007/2-A	Analysis Batch:	280-151522	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	175_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/10/2012 2326	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0390	97	85 - 115	
Barium, Dissolved	0.0400	0.0398	100	85 - 118	
Beryllium, Dissolved	0.0400	0.0405	101	80 - 125	
Cadmium, Dissolved	0.0400	0.0397	99	85 - 115	
Chromium, Dissolved	0.0400	0.0413	103	84 - 121	
Copper, Dissolved	0.0400	0.0429	107	85 - 119	
Lead, Dissolved	0.0400	0.0411	103	85 - 118	
Manganese, Dissolved	0.0400	0.0412	103	85 - 117	
Nickel, Dissolved	0.0400	0.0409	102	85 - 119	
Selenium, Dissolved	0.0400	0.0396	99	77 - 122	^
Silver, Dissolved	0.0400	0.0404	101	85 - 115	
Thallium, Dissolved	0.0400	0.0407	102	85 - 118	
Vanadium, Dissolved	0.0400	0.0405	101	85 - 120	
Zinc, Dissolved	0.0400	0.0428	107	83 - 122	

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151007

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36596-C-1-B MS	Analysis Batch:	280-151522	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	185SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/11/2012 0007			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36596-C-1-C MSD	Analysis Batch:	280-151522	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	186SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/11/2012 0011			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	96	97	85 - 115	1	20		
Barium, Dissolved	87	97	85 - 118	2	20		
Beryllium, Dissolved	92	94	80 - 125	2	20		
Cadmium, Dissolved	88	86	85 - 115	3	20		
Chromium, Dissolved	116	116	84 - 121	0	20		
Copper, Dissolved	96	95	85 - 119	2	20		
Lead, Dissolved	91	88	85 - 118	3	20		
Manganese, Dissolved	97	79	85 - 117	1	20	4	4
Nickel, Dissolved	100	99	85 - 119	2	20		
Silver, Dissolved	88	85	85 - 115	5	20		
Thallium, Dissolved	91	90	85 - 118	2	20		
Vanadium, Dissolved	127	127	85 - 120	0	20	F	F
Zinc, Dissolved	101	94	83 - 122	7	20		

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151007

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36596-C-1-B MS ^10	Analysis Batch:	280-151741	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	022SMPL.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/11/2012 1402			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36596-C-1-C MSD	Analysis Batch:	280-151741	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151007	Lab File ID:	023SMPL.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/11/2012 1406			Final Weight/Volume:	50 mL
Prep Date:	12/10/2012 0800				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Selenium, Dissolved	213	297	77 - 122	29	20	F ^	F ^

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151007

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36596-C-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/11/2012 0007		
Prep Date:	12/10/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36596-C-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/11/2012 0011
Prep Date:	12/10/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Dissolved	ND	0.0400	0.0400	0.0385		0.0387	
Barium, Dissolved	0.14	0.0400	0.0400	0.175		0.179	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0367		0.0376	
Cadmium, Dissolved	ND	0.0400	0.0400	0.0354		0.0344	
Chromium, Dissolved	ND	0.0400	0.0400	0.0465		0.0463	
Copper, Dissolved	ND	0.0400	0.0400	0.0385		0.0379	
Lead, Dissolved	ND	0.0400	0.0400	0.0362		0.0351	
Manganese, Dissolved	0.68	0.0400	0.0400	0.720	4	0.713	4
Nickel, Dissolved	ND	0.0400	0.0400	0.0401		0.0395	
Silver, Dissolved	ND	0.0400	0.0400	0.0354		0.0338	
Thallium, Dissolved	ND	0.0400	0.0400	0.0365		0.0359	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0508	F	0.0510	F
Zinc, Dissolved	ND	0.0400	0.0400	0.0403		0.0377	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151007

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36596-C-1-B MS ^10	Units:	mg/L
Client Matrix:	Water		
Dilution:	10		
Analysis Date:	12/11/2012 1402		
Prep Date:	12/10/2012 0800		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36596-C-1-C MSD
Client Matrix:	Water
Dilution:	10
Analysis Date:	12/11/2012 1406
Prep Date:	12/10/2012 0800
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Selenium, Dissolved	0.016	0.0400	0.0400	0.101	F ^	0.135	F ^

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152552/16	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0934	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152552/13	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0844	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	100	50 - 150	
Sulfate	1.00	ND	74	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0900	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152552/15	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0917	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	92	92	90 - 110	0	10		
Sulfate	94	94	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36664-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Units: mg/L		LCSD Lab Sample ID:	LCSD 280-152552/15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2012 0900			Analysis Date:	12/15/2012 0917
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	23.1	23.1
Sulfate	25.0	25.0	23.5	23.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36664-4	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	136.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1554			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-4	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	137.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1611			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	104	106	80 - 120	1	20		
Sulfate	102	105	80 - 120	2	20		

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36664-4	Units: mg/L	MSD Lab Sample ID:	280-36664-4	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/15/2012 1554		Analysis Date:	12/15/2012 1611	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	12	25.0	25.0	38.5	38.8
Sulfate	16	25.0	25.0	42.0	42.8

Duplicate - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36664-4	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	135.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1537	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	12	12.4	0.02	15	
Sulfate	16	16.5	0.4	15	

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-151834

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151834/21	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0759	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151834/19	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0754	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151834/20	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0757	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	99	99	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151834/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151834/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 0754			Analysis Date:	12/12/2012 0757
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.48	2.48

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36664-1	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/12/2012 0850			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-1	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/12/2012 0853			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	103	95	90 - 110	9	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36664-1	Units:	mg/L	MSD Lab Sample ID:	280-36664-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 0850			Analysis Date:	12/12/2012 0853
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	ND	1.00	1.00	1.03	0.949

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-152899

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-152899/1	Analysis Batch:	280-152899	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/19/2012 0818	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152153/33	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 2046	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152153/31	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 2037	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152153/32	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 2042	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	103	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152153/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152153/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 2037			Analysis Date:	12/13/2012 2042
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	206	206

Client: Waste Management

Job Number: 280-36664-1

Duplicate - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36667-A-8 DU	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/13/2012 2056	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	470	476	0.5	10	

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-151813

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-151813/1	Analysis Batch:	280-151813	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151813

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151813/2	Analysis Batch:	280-151813	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151813/3	Analysis Batch:	280-151813	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	100	100	86 - 110	1	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151813

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151813/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151813/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1210			Analysis Date:	12/12/2012 1210
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	500	503

Client: Waste Management

Job Number: 280-36664-1

Duplicate - Batch: 280-151813

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36662-A-7 DU	Analysis Batch:	280-151813	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	2300	2420	4	10	

Duplicate - Batch: 280-151813

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36667-A-2 DU	Analysis Batch:	280-151813	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1210	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	400	399	0.3	10	

Client: Waste Management

Job Number: 280-36664-1

Method Blank - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152558/5	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2125	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2049	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152558/4	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2107	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152558/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2049			Analysis Date:	12/14/2012 2107
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.6	24.6

Client: Waste Management

Job Number: 280-36664-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-1	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2218			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-1	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2235			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-1	Units:	mg/L	MSD Lab Sample ID:	280-36664-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2218			Analysis Date:	12/14/2012 2235
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	1.3	25.0	25.0	25.8	25.7

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: 280-36664-1 **Client ID: MW-20**

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36664-J-1		480-95591		12/13/2012 14:54	1	TAL BUF	RL
A:8260B	280-36664-J-1		480-95591		12/13/2012 14:54	1	TAL BUF	RL
P:5030B	280-36664-E-1		480-95156		12/11/2012 17:11	1	TAL BUF	TRB
A:8260B SIM	280-36664-E-1		480-95156		12/11/2012 17:11	1	TAL BUF	TRB
P:3005A	280-36664-C-1-B		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-1-B		280-151948	280-151012	12/12/2012 21:53	1	TAL DEN	JKH
P:3005A	280-36664-C-1-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36664-C-1-A		280-151522	280-151007	12/10/2012 23:34	1	TAL DEN	LT
A:300.0	280-36664-A-1		280-152552		12/15/2012 14:30	1	TAL DEN	EK
A:350.1	280-36664-B-1		280-151834		12/12/2012 08:48	1	TAL DEN	BMG
A:353.2	280-36664-A-1		280-152899		12/19/2012 08:18	1	TAL DEN	RS
A:SM 2320B	280-36664-A-1		280-152153		12/13/2012 21:19	1	TAL DEN	DA
A:SM 2540C	280-36664-A-1		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	280-36664-B-1		280-152558		12/14/2012 21:59	1	TAL DEN	DFB
A:Field Sampling	280-36664-A-1		280-151335		12/05/2012 09:40	1	TAL DEN	FS

Lab ID: 280-36664-1 MS **Client ID: MW-20**

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36664-B-1 MS		280-151834		12/12/2012 08:50	1	TAL DEN	BMG
A:SM 5310B	280-36664-B-1 MS		280-152558		12/14/2012 22:18	1	TAL DEN	DFB

Lab ID: 280-36664-1 MSD **Client ID: MW-20**

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36664-B-1 MSD		280-151834		12/12/2012 08:53	1	TAL DEN	BMG
A:SM 5310B	280-36664-B-1 MSD		280-152558		12/14/2012 22:35	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: 280-36664-2 **Client ID:** DUP2

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36664-J-2		480-95591		12/13/2012 15:18	1	TAL BUF	RL
A:8260B	280-36664-J-2		480-95591		12/13/2012 15:18	1	TAL BUF	RL
P:5030B	280-36664-E-2		480-95156		12/11/2012 17:35	1	TAL BUF	TRB
A:8260B SIM	280-36664-E-2		480-95156		12/11/2012 17:35	1	TAL BUF	TRB
P:3005A	280-36664-C-2-B		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-2-B		280-151948	280-151012	12/12/2012 21:55	1	TAL DEN	JKH
P:3005A	280-36664-C-2-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36664-C-2-A		280-151522	280-151007	12/10/2012 23:38	1	TAL DEN	LT
A:300.0	280-36664-A-2		280-152552		12/15/2012 14:47	1	TAL DEN	EK
A:350.1	280-36664-B-2		280-151834		12/12/2012 08:55	1	TAL DEN	BMG
A:353.2	280-36664-A-2		280-152899		12/19/2012 08:18	1	TAL DEN	RS
A:SM 2320B	280-36664-A-2		280-152153		12/13/2012 21:33	1	TAL DEN	DA
A:SM 2540C	280-36664-A-2		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	280-36664-B-2		280-152558		12/14/2012 22:55	1	TAL DEN	DFB

Lab ID: 280-36664-2 MS **Client ID:** DUP2

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36664-C-2-C MS		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-2-C MS		280-151948	280-151012	12/12/2012 22:00	1	TAL DEN	JKH

Lab ID: 280-36664-2 MSD **Client ID:** DUP2

Sample Date/Time: 12/05/2012 09:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36664-C-2-D MSD		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-2-D MSD		280-151948	280-151012	12/12/2012 22:02	1	TAL DEN	JKH

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: 280-36664-3 **Client ID:** MW-4

Sample Date/Time: 12/05/2012 10:07 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36664-J-3		480-95591		12/13/2012 15:42	1	TAL BUF	RL
A:8260B	280-36664-J-3		480-95591		12/13/2012 15:42	1	TAL BUF	RL
P:5030B	280-36664-E-3		480-95156		12/11/2012 17:59	1	TAL BUF	TRB
A:8260B SIM	280-36664-E-3		480-95156		12/11/2012 17:59	1	TAL BUF	TRB
P:3005A	280-36664-C-3-B		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-3-B		280-151948	280-151012	12/12/2012 22:04	1	TAL DEN	JKH
P:3005A	280-36664-C-3-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36664-C-3-A		280-151522	280-151007	12/10/2012 23:42	1	TAL DEN	LT
A:300.0	280-36664-A-3		280-152552		12/15/2012 15:04	1	TAL DEN	EK
A:350.1	280-36664-B-3		280-151834		12/12/2012 09:07	1	TAL DEN	BMG
A:353.2	280-36664-A-3		280-152899		12/19/2012 08:18	1	TAL DEN	RS
A:SM 2320B	280-36664-A-3		280-152153		12/13/2012 21:37	1	TAL DEN	DA
A:SM 2540C	280-36664-A-3		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	280-36664-B-3		280-152558		12/14/2012 23:14	1	TAL DEN	DFB
A:Field Sampling	280-36664-A-3		280-151335		12/05/2012 10:07	1	TAL DEN	FS

Lab ID: 280-36664-4 **Client ID:** MW-32

Sample Date/Time: 12/05/2012 09:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36664-J-4		480-95591		12/13/2012 16:06	1	TAL BUF	RL
A:8260B	280-36664-J-4		480-95591		12/13/2012 16:06	1	TAL BUF	RL
P:5030B	280-36664-E-4		480-95156		12/11/2012 18:23	1	TAL BUF	TRB
A:8260B SIM	280-36664-E-4		480-95156		12/11/2012 18:23	1	TAL BUF	TRB
P:3005A	280-36664-C-4-B		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36664-C-4-B		280-151948	280-151012	12/12/2012 22:06	1	TAL DEN	JKH
P:3005A	280-36664-C-4-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36664-C-4-A		280-151522	280-151007	12/10/2012 23:46	1	TAL DEN	LT
A:300.0	280-36664-A-4		280-152552		12/15/2012 15:20	1	TAL DEN	EK
A:350.1	280-36664-B-4		280-151834		12/12/2012 09:09	1	TAL DEN	BMG
A:353.2	280-36664-A-4		280-152899		12/19/2012 08:18	1	TAL DEN	RS
A:SM 2320B	280-36664-A-4		280-152153		12/13/2012 21:42	1	TAL DEN	DA
A:SM 2540C	280-36664-A-4		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	280-36664-B-4		280-152558		12/14/2012 23:29	1	TAL DEN	DFB
A:Field Sampling	280-36664-A-4		280-151335		12/05/2012 09:20	1	TAL DEN	FS

Lab ID: 280-36664-4 MS **Client ID:** MW-32

Sample Date/Time: 12/05/2012 09:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36664-A-4 MS		280-152552		12/15/2012 15:54	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: 280-36664-4 MSD **Client ID:** MW-32

Sample Date/Time: 12/05/2012 09:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36664-A-4 MSD		280-152552		12/15/2012 16:11	1	TAL DEN	EK

Lab ID: 280-36664-4 DU **Client ID:** MW-32

Sample Date/Time: 12/05/2012 09:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36664-A-4 DU		280-152552		12/15/2012 15:37	1	TAL DEN	EK

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-95591/7		480-95591		12/13/2012 12:42	1	TAL BUF	RL
A:8260B	MB 480-95591/7		480-95591		12/13/2012 12:42	1	TAL BUF	RL
P:5030B	MB 480-95156/3		480-95156		12/11/2012 10:45	1	TAL BUF	TRB
A:8260B SIM	MB 480-95156/3		480-95156		12/11/2012 10:45	1	TAL BUF	TRB
P:3005A	MB 280-151012/1-A		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151012/1-A		280-151948	280-151012	12/12/2012 21:34	1	TAL DEN	JKH
P:3005A	MB 280-151007/1-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	MB 280-151007/1-A		280-151522	280-151007	12/10/2012 23:22	1	TAL DEN	LT
A:300.0	MB 280-152552/16		280-152552		12/15/2012 09:34	1	TAL DEN	EK
A:350.1	MB 280-151834/21		280-151834		12/12/2012 07:59	1	TAL DEN	BMG
A:353.2	MB 280-152899/1		280-152899		12/19/2012 08:18	1	TAL DEN	RS
A:SM 2320B	MB 280-152153/33		280-152153		12/13/2012 20:46	1	TAL DEN	DA
A:SM 2540C	MB 280-151813/1		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	MB 280-152558/5		280-152558		12/14/2012 21:25	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-95591/4		480-95591		12/13/2012 11:30	1	TAL BUF	RL
A:8260B	LCS 480-95591/4		480-95591		12/13/2012 11:30	1	TAL BUF	RL
P:5030B	LCS 480-95156/2		480-95156		12/11/2012 10:21	1	TAL BUF	TRB
A:8260B SIM	LCS 480-95156/2		480-95156		12/11/2012 10:21	1	TAL BUF	TRB
P:3005A	LCS 280-151012/2-A		280-151948	280-151012	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151012/2-A		280-151948	280-151012	12/12/2012 21:36	1	TAL DEN	JKH
P:3005A	LCS 280-151007/2-A		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	LCS 280-151007/2-A		280-151522	280-151007	12/10/2012 23:26	1	TAL DEN	LT
A:300.0	LCS 280-152552/14		280-152552		12/15/2012 09:00	1	TAL DEN	EK
A:350.1	LCS 280-151834/19		280-151834		12/12/2012 07:54	1	TAL DEN	BMG
A:SM 2320B	LCS 280-152153/31		280-152153		12/13/2012 20:37	1	TAL DEN	DA
A:SM 2540C	LCS 280-151813/2		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	LCS 280-152558/3		280-152558		12/14/2012 20:49	1	TAL DEN	DFB

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-152552/15		280-152552		12/15/2012 09:17	1	TAL DEN	EK
A:350.1	LCSD 280-151834/20		280-151834		12/12/2012 07:57	1	TAL DEN	BMG
A:SM 2320B	LCSD 280-152153/32		280-152153		12/13/2012 20:42	1	TAL DEN	DA
A:SM 2540C	LCSD 280-151813/3		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 5310B	LCSD 280-152558/4		280-152558		12/14/2012 21:07	1	TAL DEN	DFB

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-152552/13		280-152552		12/15/2012 08:44	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36664-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29706-E-3 MS		480-95591		12/13/2012 18:05	1	TAL BUF	RL
A:8260B	480-29706-E-3 MS		480-95591		12/13/2012 18:05	1	TAL BUF	RL
P:3005A	280-36596-C-1-B MS		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36596-C-1-B MS		280-151522	280-151007	12/11/2012 00:07	1	TAL DEN	LT
P:3005A	280-36596-C-1-B MS ^10		280-151741	280-151007	12/10/2012 08:00	10	TAL DEN	JA
A:6020	280-36596-C-1-B MS ^10		280-151741	280-151007	12/11/2012 14:02	10	TAL DEN	LT

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29706-E-3 MSD		480-95591		12/13/2012 18:29	1	TAL BUF	RL
A:8260B	480-29706-E-3 MSD		480-95591		12/13/2012 18:29	1	TAL BUF	RL
P:3005A	280-36596-C-1-C MSD		280-151522	280-151007	12/10/2012 08:00	1	TAL DEN	JA
A:6020	280-36596-C-1-C MSD		280-151522	280-151007	12/11/2012 00:11	1	TAL DEN	LT
P:3005A	280-36596-C-1-C MSD ^10		280-151741	280-151007	12/10/2012 08:00	10	TAL DEN	JA
A:6020	280-36596-C-1-C MSD ^10		280-151741	280-151007	12/11/2012 14:06	10	TAL DEN	LT

Lab ID: DU **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-36667-A-8 DU		280-152153		12/13/2012 20:56	1	TAL DEN	DA
A:SM 2540C	280-36662-A-7 DU		280-151813		12/12/2012 12:10	1	TAL DEN	SB
A:SM 2540C	280-36667-A-2 DU		280-151813		12/12/2012 12:10	1	TAL DEN	SB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.6 (R) 3.6 (C) 4/6

Drinking Water? Yes ☐ No ☐

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
SCS Engineers	Chris Sawert		170103
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
2405 140th Ave NE #107	425-289-5443		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Bellevue / WA / 98005		Betty Sara	
Project Name and Location (State)	**Carrier/Waybill Number**		
WA02/0032			
Contract/Purchase Order/Quote No.			
28002692			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): Cl/SO4/TDS/Alk	Methane (Diss)	TDC (GW)	VOCs (GW)	VOCs (SW)	1,4-D (GW)	Alkalinity (SW)	Special Instructions/ Conditions of Receipt
MW-20	12/5/12	0940		X			1	1	1	6			X	X	X	X	X	X	X	
DUP 2	12/5/12	0940																		
MW-4	12/5/12	1007																		
MW-32	12/5/12	0920																		

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Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		12/5/12	1630		12-6-12	930
2.						
3.						

Comments: Custody Seal # 1439721

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: | | | | |

Sample Point: MW 20 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360604-1

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/05/12	0931				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: _____ — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: _____

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

X-Other: _____ — Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl) — Depth to Water (DTW) (from TOC): 35.05 (ft) — Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): _____ (ft) — Stick Up (from ground elevation): _____ (ft) — Casing ID: _____ (in) — Casing Material: _____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0934	500 1st	6.47 1st	1.94 1st	13.51	5.21	8.16	188.8	35.10
0937	500 2nd	6.61 2nd	1.01 2nd	13.54	3.68	8.17	155.5	35.10
0940	500 3rd	6.61 3rd	1.04 3rd	13.60	2.08	8.15	138.6	35.10
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
12/05/12	6.61	1.04	13.60	2.08	8.15	138.6	0940

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
/ /			SCS Engineers
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-14 (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 3606043

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120512	0915				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 11.36 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by SiteSpecific. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:58	1st	6.08	6.8	9.518	2.01	4.98	33.2	11.44
10:01	2nd	5.89	4.9	9.94	1.91	4.23	47.2	
10:04	3rd	5.85	4.9	9.99	3.03	4.22	52.4	11.46
10:07	4th	5.77	5.0	9.99	1.80	4.17	66.4	11.45
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by SiteSpecific. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120512	5.77	5.0	9.99	1.80	4.17	66.4	1007

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by SiteSpecificSite.

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

8
7
20
380

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.5.12	Gayne Chang	Gayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: [redacted] Sample Point: MW-32 (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample coolers (i.e. with the cooler that is returned to the laboratory)

Laboratory Use Only/Lab ID: 366664-4

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12 05 12	0902				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: (Y) or N (0.45 µ) or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (msl)

Depth to Water (DTW) (from TOC): 10.5 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:05	1st	5.99	2.61	11.88	3.96	4.35	110.5	10.5
09:10	2nd	6.55	2.41	12.09		1.18	26.4	10.5
09:15	3rd	6.59	2.42	12.10	2.14	0.95	111.8	10.5
09:20	4th	6.61	2.42	12.16		0.85	126	10.5
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12 05 12	6.61	2.42	12.16	2.14	0.85	246	0920

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): ____ Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8

7

15

400

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/5/12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8020WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36664-1

Login Number: 36664

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36664-1

Login Number: 36664
List Number: 1
Creator: Robison, Zachary

List Source: TestAmerica Buffalo
List Creation: 12/07/12 04:34 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36664-2

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
1/8/2013 10:03 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
01/08/2013

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36664-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 12/06/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.6 C.

General Comments

The analysis for Dissolved Arsenic Method 200.8 was performed by ARI. Their address and phone number are:
Analytical Resources, Inc.
4611 S. 134th Place
Tukwila, WA 98168-3240
206-695-6200

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36664-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
General Sub Contract Method	SC0056	Subcontract	

Lab References:

SC0056 = Analytical Resources, Inc

Method References:

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36664-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36664-1	MW-20	Water	12/05/2012 0940	12/06/2012 0930
280-36664-2FD	DUP2	Water	12/05/2012 0940	12/06/2012 0930
280-36664-3	MW-4	Water	12/05/2012 1007	12/06/2012 0930
280-36664-4	MW-32	Water	12/05/2012 0920	12/06/2012 0930

SAMPLE RESULTS

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

QUALITY CONTROL RESULTS

Analytical Resources, Incorporated
Analytical Chemists and Consultants

4 January 2013

Betsy Sara
Test America-Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Project: OVSL
ARI Job Nos.: VY04

Dear Betsy:

Please find enclosed the original Chain of Custody (COC) documentation and the final results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted four water samples on December 29, 2012. The samples were received in good condition. All samples were analyzed for dissolved arsenic as requested.

No analytical complications were noted for these analyses.

Copies of these reports and all associated raw data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.
Bob Gregotis
-For-
Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: files VY04

MDH/bc

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

V404

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Sara, Betsy A	Carrier Tracking No(s)	COC No: 280-165860 1
Client Contact: Shipping/Receiving	Phone	E-Mail: betsy sara@testamericainc com		Page: Page 1 of 1
Company: Analytical Resources, Inc				Job #: 280-36664-2
Address: 4611 South 134th Place, Suite 100, ,	Due Date Requested: 1/10/2013			
City: Tukwila	TAT Requested (days):			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #			
Email	WO #			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ Dissolved As (ARI)	Total Number of containers	Special Instructions/Note:
		Preservation Code:							
MW-20 (280-36664-1)	12/5/12	09 40 Pacific		Water			X	1	
DUP2 (280-36664-2)	12/5/12	09:40 Pacific		Water			X	1	
MW-4 (280-36664-3)	12/5/12	10 07 Pacific		Water			X	1	
MW-32 (280-36664-4)	12/5/12	09:20 Pacific		Water			X	1	

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Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12/7/12 1600		V, CA	12/8/12 11:50	DRR
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
					Dm	
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		0.6° C

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: TestAmerica
Project Name: WA02/Olympic View Sanitary LF
COC No(s): _____ NA
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: VY04
Tracking No: 549036936906 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
Were custody papers included with the cooler? YES NO
Were custody papers properly filled out (ink, signed, etc) YES NO
Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry) 0.6
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 90077952

Cooler Accepted by: VS (AV) Date: 12/29/12 Time: 1150

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
Were all bottles sealed in individual plastic bags? YES NO
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI NA _____
Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

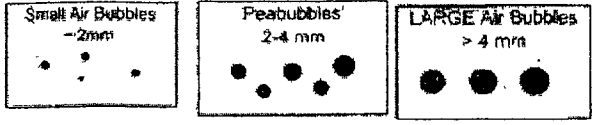
Samples Logged by: JM - 12/31/12 Date: 12/31/12 Time: 0850

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
MW-20 (280-36664-1)	MW-20		
~~MW~~ Dup2 (280-36664-2)	Dup 2		
MW-4 (280-36664-3)	MW-4		
MW-32 (280-36664-4)	MW-32		

Additional Notes, Discrepancies, & Resolutions:

By: JM Date: 12/31/12



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

PRESERVATION VERIFICATION 12/31/12
Page 1 of 1

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **VY04**

Inquiry Number: NONE
Analysis Requested: 12/31/12
Contact: Sara, Betsy
Client: Test America
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

PC: Mark
VTSR: 12/29/12

Project #: 28002692
Project: WA02/Olympic View Sanitary LF
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
12-25584 **VY04A**	MW-20						DIS pass									Y						
12-25585 **VY04B**	DUP2						DIS pass									Y						
12-25586 **VY04C**	MW-4						DIS pass									Y						
12-25587 **VY04D**	MW-32						DIS pass									Y						

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VY04 - 060604

Checked By JM Date 12/31/12

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: VY04
Client: Test America
Project Event: 28002692
Project Name: WA02/Olympic View Sanitary LF

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW-20	VY04A	12-25584	Water	12/05/12 09:40	12/29/12 11:50
2.	DUP2	VY04B	12-25585	Water	12/05/12 09:40	12/29/12 11:50
3.	MW-4	VY04C	12-25586	Water	12/05/12 10:07	12/29/12 11:50
4.	MW-32	VY04D	12-25587	Water	12/05/12 09:20	12/29/12 11:50

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: VY04MB
LIMS ID: 12-25585
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF 28002692
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/02/13	200.8	01/03/13	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-20
SAMPLE

Lab Sample ID: VY04A
LIMS ID: 12-25584
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/02/13	200.8	01/03/13	**7440-38-2**	**Arsenic**	0.2	**0.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

VY04 : 00007

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: DUP2
SAMPLE

Lab Sample ID: VY04B
LIMS ID: 12-25585
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/02/13	200.8	01/03/13	**7440-38-2**	**Arsenic**	0.2	**0.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

VY04 00008

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-4
SAMPLE

Lab Sample ID: VY04C
LIMS ID: 12-25586
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/02/13	200.8	01/03/13	**7440-38-2**	**Arsenic**	0.2	**1.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

VY04 : 00009

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-32
SAMPLE

Lab Sample ID: VY04D
LIMS ID: 12-25587
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	01/02/13	200.8	01/03/13	**7440-38-2**	**Arsenic**	0.2	**11.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-20
MATRIX SPIKE

Lab Sample ID: VY04A
LIMS ID: 12-25584
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.3	27.4	25.0	108%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-20
DUPLICATE

Lab Sample ID: VY04A
LIMS ID: 12-25584
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF
28002692
Date Sampled: 12/05/12
Date Received: 12/29/12

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.3	0.2	40.0%	+/- 0.2	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: VY04LCS
LIMS ID: 12-25585
Matrix: Water
Data Release Authorized:
Reported: 01/04/13

QC Report No: VY04-Test America
Project: WA02/Olympic View Sanitary LF 28002692
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	26.6	25.0	106%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

VY04 : 00613

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36664-2

Login Number: 36664

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36763-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
12/24/2012 11:28 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/24/2012

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36763-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 12/07/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.8 C.

Due to a shipping delay, samples DUP1, MW-34C and MW-33A arrived separate from the other samples listed on the chain of custody. The client was notified 12/7/12.

The lab received volume for sample DUP1 which was not listed on the chain of custody. This sample was logged per the volume received. The client was notified 12/7/12.

Holding Times

The Nitrate result was derived from a calculation and the analysis date/time reflects when the calculation was performed. Nitrate+Nitrite and Nitrite results were required for the calculation. Nitrate+Nitrite analysis has a 28-day holding time. Nitrite analysis has a 48-hour holding time, and due to a FedEx delay, the associated Nitrite analysis was performed outside of the 48-hour holding time.

All other holding times were within established control limits.

Method Blanks

Methylene Chloride Method 8260B was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The percent recoveries and/or the relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Dissolved Manganese Method 6020 because the sample concentration was greater than four times the spike amount.

All other MS and MSD samples were within established control limits.

General Comments

The analyses for Volatile Organics by Method 8260B and Volatile Organics by Method 8260B SIM were performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36763-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36763-1FD	**DUP1**					
Vinyl chloride		0.11		0.020	ug/L	8260B SIM
Chloride		5.3		1.0	mg/L	300.0
Sulfate		5.5		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		140		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		140		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		200		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		27		0.040	mg/L	6010B
Iron, Dissolved		0.77		0.060	mg/L	6010B
Magnesium, Dissolved		12		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		16		1.0	mg/L	6010B
Barium, Dissolved		0.011		0.0010	mg/L	6020
Manganese, Dissolved		0.64		0.0010	mg/L	6020
280-36763-2	**MW-34C**					
Vinyl chloride		0.11		0.020	ug/L	8260B SIM
Depth to water		40.20			ft	Field Sampling
Specific Conductivity		246			umhos/cm	Field Sampling
Dissolved Oxygen		0.58			mg/L	Field Sampling
eH		-6.0			millivolts	Field Sampling
Turbidity		35.4			NTU	Field Sampling
Temperature		12.57			Degrees C	Field Sampling
pH		6.62			SU	Field Sampling
Chloride		5.4		1.0	mg/L	300.0
Sulfate		7.2		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		140		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		140		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		210		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		26		0.040	mg/L	6010B
Iron, Dissolved		0.77		0.060	mg/L	6010B
Magnesium, Dissolved		12		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		16		1.0	mg/L	6010B
Barium, Dissolved		0.011		0.0010	mg/L	6020
Manganese, Dissolved		0.64		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36763-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36763-3	**MW-33A**					
Depth to water		3.50			ft	Field Sampling
Specific Conductivity		84			umhos/cm	Field Sampling
Dissolved Oxygen		0.49			mg/L	Field Sampling
eH		-51.9			millivolts	Field Sampling
Turbidity		9.5			NTU	Field Sampling
Temperature		9.24			Degrees C	Field Sampling
pH		6.46			SU	Field Sampling
Chloride		2.0		1.0	mg/L	300.0
Sulfate		2.0		1.0	mg/L	300.0
Ammonia (as N)		0.25		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		45		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		45		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		70		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.5		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		9.4		0.040	mg/L	6010B
Iron, Dissolved		2.1		0.060	mg/L	6010B
Magnesium, Dissolved		4.4		0.050	mg/L	6010B
Sodium, Dissolved		3.1		1.0	mg/L	6010B
Barium, Dissolved		0.0021		0.0010	mg/L	6020
Manganese, Dissolved		0.081		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36763-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B SIM	
Purge and Trap	TAL BUF		SW846 5030B

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36763-1

Method	Analyst	Analyst ID
SW846 8260B	Larson, Renee	RL
SW846 8260B SIM	Brandt, Todd R	TRB
SW846 6010B	Harre, John K	JKH
SW846 6020	Trudell, Lynn-Anne	LT
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
EPA 353.2	Sullivan, Roxanne	RS
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 5310B	Bandy, Darlene F	DFB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36763-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36763-1FD	DUP1	Water	12/03/2012 1442	12/07/2012 0930
280-36763-2	MW-34C	Water	12/03/2012 1442	12/07/2012 0930
280-36763-3	MW-33A	Water	12/03/2012 1150	12/07/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21357.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1259			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1259				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21357.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1259			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1259				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD

Client Matrix: Water

Date Sampled: 12/03/2012 1442

Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21357.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1259			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1259				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	103		71 - 126

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21357.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1259			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1259				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management | Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2 | Date Sampled: 12/03/2012 1442
Client Matrix: Water | Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21358.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1321			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management | Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2 | Date Sampled: 12/03/2012 1442
Client Matrix: Water | Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21358.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1321			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1321				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21358.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1321			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1321				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21358.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1321			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1321				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3
Client Matrix: Water

Date Sampled: 12/03/2012 1150
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21359.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1343			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1343				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3
Client Matrix: Water

Date Sampled: 12/03/2012 1150
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21359.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1343			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1343				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3
Client Matrix: Water

Date Sampled: 12/03/2012 1150
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21359.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1343			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1343				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3
Client Matrix: Water

Date Sampled: 12/03/2012 1150
Date Received: 12/07/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S21359.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1343			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1343				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD

Client Matrix: Water

Date Sampled: 12/03/2012 1442

Date Received: 12/07/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0174.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1511			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1511				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	0.11		0.020	0.020

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0175.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1611			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1611				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	0.11		0.020	0.020

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3
Client Matrix: Water

Date Sampled: 12/03/2012 1150
Date Received: 12/07/2012 0930

8260B SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B SIM	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	J0176.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1634			Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1634				

Analyte	Result (ug/L)	Qualifier	RL	RL
Vinyl chloride	ND		0.020	0.020

Client: Waste Management

Job Number: 280-36763-1

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD
Client Matrix: Water

Date Sampled: 12/03/2012 1442
Date Received: 12/07/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2243			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	27		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.77		0.060	0.060
Magnesium, Dissolved	12		0.050	0.050
Potassium, Dissolved	1.1		1.0	1.0
Sodium, Dissolved	16		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151968	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	236SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0307			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.011		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.64		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-152193	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	030SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1305			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Dissolved	ND		0.0010	0.0010

Client: Waste Management | Job Number: 280-36763-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2 | Date Sampled: 12/03/2012 1442
Client Matrix: Water | Date Received: 12/07/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2245			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	26		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.77		0.060	0.060
Magnesium, Dissolved	12		0.050	0.050
Potassium, Dissolved	1.1		1.0	1.0
Sodium, Dissolved	16		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151968	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	237SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0311			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.011		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.64		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-152193	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	031SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1310			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Dissolved	ND		0.0010	0.0010

Client: Waste Management | Job Number: 280-36763-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3 | Date Sampled: 12/03/2012 1150
Client Matrix: Water | Date Received: 12/07/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2247			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	9.4		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	2.1		0.060	0.060
Magnesium, Dissolved	4.4		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	3.1		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151968	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	238SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0315			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0021		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.081		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-152193	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	032SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1314			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Dissolved	ND		0.0010	0.0010

General Chemistry

Client Sample ID: **DUP1**

Lab Sample ID: 280-36763-1FD Date Sampled: 12/03/2012 1442
Client Matrix: Water Date Received: 12/07/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	5.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1301						
Sulfate	5.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1301						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-152068	Analysis Date: 12/13/2012 0945						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-153122	Analysis Date: 12/07/2012 0809						
Alkalinity, Total (As CaCO3)	140		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1420						
Alkalinity, Bicarbonate (As CaCO3)	140		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1420						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1420						
Total Dissolved Solids (TDS)	200		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151300	Analysis Date: 12/10/2012 0846						
Total Organic Carbon - Average	1.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/15/2012 1300						

General Chemistry

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2 Date Sampled: 12/03/2012 1442
Client Matrix: Water Date Received: 12/07/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	5.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1408						
Sulfate	7.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1408						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-152068	Analysis Date: 12/13/2012 0948						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-153122	Analysis Date: 12/07/2012 0809						
Alkalinity, Total (As CaCO3)	140		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1424						
Alkalinity, Bicarbonate (As CaCO3)	140		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1424						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1424						
Total Dissolved Solids (TDS)	210		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151300	Analysis Date: 12/10/2012 0846						
Total Organic Carbon - Average	1.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/15/2012 1316						

General Chemistry

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3 Date Sampled: 12/03/2012 1150
Client Matrix: Water Date Received: 12/07/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1425						
Sulfate	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-152759	Analysis Date: 12/17/2012 1425						
Ammonia (as N)	0.25		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-152068	Analysis Date: 12/13/2012 0959						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-153122	Analysis Date: 12/07/2012 0809						
Alkalinity, Total (As CaCO3)	45		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1428						
Alkalinity, Bicarbonate (As CaCO3)	45		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1428						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152341	Analysis Date: 12/14/2012 1428						
Total Dissolved Solids (TDS)	70		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151300	Analysis Date: 12/10/2012 0846						
Total Organic Carbon - Average	1.5		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152811	Analysis Date: 12/17/2012 2324						

Field Service / Mobile Lab

Client Sample ID: **MW-34C**

Lab Sample ID: 280-36763-2 Date Sampled: 12/03/2012 1442
Client Matrix: Water Date Received: 12/07/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	40.20		ft	1.0	Field Sampling	280-151335	12/03/2012 1442
Specific Conductivity	246		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1442
Dissolved Oxygen	0.58		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1442
eH	-6.0		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1442
Turbidity	35.4		NTU	1.0	Field Sampling	280-151335	12/03/2012 1442
Temperature	12.57		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1442
pH	6.62		SU	1.0	Field Sampling	280-151335	12/03/2012 1442

Field Service / Mobile Lab

Client Sample ID: **MW-33A**

Lab Sample ID: 280-36763-3 Date Sampled: 12/03/2012 1150
Client Matrix: Water Date Received: 12/07/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Depth to water	3.50		ft	1.0	Field Sampling	280-151335	12/03/2012 1150
Specific Conductivity	84		umhos/cm	1.0	Field Sampling	280-151335	12/03/2012 1150
Dissolved Oxygen	0.49		mg/L	1.0	Field Sampling	280-151335	12/03/2012 1150
eH	-51.9		millivolts	1.0	Field Sampling	280-151335	12/03/2012 1150
Turbidity	9.5		NTU	1.0	Field Sampling	280-151335	12/03/2012 1150
Temperature	9.24		Degrees C	1.0	Field Sampling	280-151335	12/03/2012 1150
pH	6.46		SU	1.0	Field Sampling	280-151335	12/03/2012 1150

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36763-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36763-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-94990					
LCS 480-94990/2	Lab Control Sample	T	Water	8260B SIM	
MB 480-94990/4	Method Blank	T	Water	8260B SIM	
280-36763-1FD	DUP1	T	Water	8260B SIM	
280-36763-2	MW-34C	T	Water	8260B SIM	
280-36763-3	MW-33A	T	Water	8260B SIM	
Analysis Batch:480-95158					
LCS 480-95158/4	Lab Control Sample	T	Water	8260B	
MB 480-95158/5	Method Blank	T	Water	8260B	
480-29666-A-4 MS	Matrix Spike	T	Water	8260B	
480-29666-A-4 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36763-1FD	DUP1	T	Water	8260B	
280-36763-2	MW-34C	T	Water	8260B	
280-36763-3	MW-33A	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36763-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-151230					
LCS 280-151230/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151230/1-A	Method Blank	R	Water	3005A	
280-36659-F-1-B MS	Matrix Spike	D	Water	3005A	
280-36659-F-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36763-1FD	DUP1	D	Water	3005A	
280-36763-2	MW-34C	D	Water	3005A	
280-36763-3	MW-33A	D	Water	3005A	
Prep Batch: 280-151233					
LCS 280-151233/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151233/1-A	Method Blank	R	Water	3005A	
280-36659-F-1-E MS	Matrix Spike	D	Water	3005A	
280-36659-F-1-F MSD	Matrix Spike Duplicate	D	Water	3005A	
280-36763-1FD	DUP1	D	Water	3005A	
280-36763-2	MW-34C	D	Water	3005A	
280-36763-3	MW-33A	D	Water	3005A	
Analysis Batch:280-151948					
LCS 280-151230/2-A	Lab Control Sample	R	Water	6010B	280-151230
MB 280-151230/1-A	Method Blank	R	Water	6010B	280-151230
280-36659-F-1-B MS	Matrix Spike	D	Water	6010B	280-151230
280-36659-F-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-151230
280-36763-1FD	DUP1	D	Water	6010B	280-151230
280-36763-2	MW-34C	D	Water	6010B	280-151230
280-36763-3	MW-33A	D	Water	6010B	280-151230
Analysis Batch:280-151968					
LCS 280-151233/2-A	Lab Control Sample	R	Water	6020	280-151233
MB 280-151233/1-A	Method Blank	R	Water	6020	280-151233
280-36659-F-1-E MS	Matrix Spike	D	Water	6020	280-151233
280-36659-F-1-F MSD	Matrix Spike Duplicate	D	Water	6020	280-151233
280-36763-1FD	DUP1	D	Water	6020	280-151233
280-36763-2	MW-34C	D	Water	6020	280-151233
280-36763-3	MW-33A	D	Water	6020	280-151233
Analysis Batch:280-152193					
280-36659-F-1-E MS	Matrix Spike	D	Water	6020	280-151233
280-36659-F-1-F MSD	Matrix Spike Duplicate	D	Water	6020	280-151233
280-36763-1FD	DUP1	D	Water	6020	280-151233
280-36763-2	MW-34C	D	Water	6020	280-151233
280-36763-3	MW-33A	D	Water	6020	280-151233

Client: Waste Management

Job Number: 280-36763-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
D = Dissolved					
R = Total Recoverable					
Field Service / Mobile Lab					
Analysis Batch:280-151335					
280-36763-2	MW-34C	T	Water	Field Sampling	
280-36763-3	MW-33A	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36763-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151300					
LCS 280-151300/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-151300/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-151300/1	Method Blank	T	Water	SM 2540C	
280-36716-A-1 DU	Duplicate	T	Water	SM 2540C	
280-36763-1FD	DUP1	T	Water	SM 2540C	
280-36763-2	MW-34C	T	Water	SM 2540C	
280-36763-3	MW-33A	T	Water	SM 2540C	
Analysis Batch:280-152068					
LCS 280-152068/55	Lab Control Sample	T	Water	350.1	
LCSD 280-152068/56	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-152068/57	Method Blank	T	Water	350.1	
280-36763-1FD	DUP1	T	Water	350.1	
280-36763-2	MW-34C	T	Water	350.1	
280-36763-3	MW-33A	T	Water	350.1	
280-36763-3MS	Matrix Spike	T	Water	350.1	
280-36763-3MSD	Matrix Spike Duplicate	T	Water	350.1	
Analysis Batch:280-152341					
LCS 280-152341/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-152341/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-152341/6	Method Blank	T	Water	SM 2320B	
280-36561-A-12 DU	Duplicate	T	Water	SM 2320B	
280-36763-1FD	DUP1	T	Water	SM 2320B	
280-36763-2	MW-34C	T	Water	SM 2320B	
280-36763-3	MW-33A	T	Water	SM 2320B	
Analysis Batch:280-152558					
LCS 280-152558/34	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152558/35	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152558/36	Method Blank	T	Water	SM 5310B	
280-36745-C-1 MS	Matrix Spike	T	Water	SM 5310B	
280-36745-C-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-36763-1FD	DUP1	T	Water	SM 5310B	
280-36763-2	MW-34C	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-36763-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-152759					
LCS 280-152759/4	Lab Control Sample	T	Water	300.0	
LCSD 280-152759/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152759/6	Method Blank	T	Water	300.0	
280-36763-1FD	DUP1	T	Water	300.0	
280-36763-1DU	Duplicate	T	Water	300.0	
280-36763-1MS	Matrix Spike	T	Water	300.0	
280-36763-1MSD	Matrix Spike Duplicate	T	Water	300.0	
280-36763-2	MW-34C	T	Water	300.0	
280-36763-3	MW-33A	T	Water	300.0	
Analysis Batch:280-152811					
LCS 280-152811/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152811/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152811/5	Method Blank	T	Water	SM 5310B	
280-36763-3	MW-33A	T	Water	SM 5310B	
280-36915-I-1 MS	Matrix Spike	T	Water	SM 5310B	
280-36915-I-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-153122					
MB 280-153122/1	Method Blank	T	Water	353.2	
280-36763-1FD	DUP1	T	Water	353.2	
280-36763-2	MW-34C	T	Water	353.2	
280-36763-3	MW-33A	T	Water	353.2	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36763-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-36763-1	DUP1	98	94	103
280-36763-2	MW-34C	96	95	101
280-36763-3	MW-33A	95	90	97
MB 480-95158/5		100	90	99
LCS 480-95158/4		103	93	99
480-29666-A-4 MS		100	93	100
480-29666-A-4 MSD		101	92	99

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 480-95158

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95158/5	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1101	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1101				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 480-95158

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95158/5	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1101	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1101				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	0.970	J	0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 480-95158

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95158/5	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21352.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1101	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1101				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	90	73 - 120
Toluene-d8 (Surr)	99	71 - 126

Method Blank TICs- Batch: 480-95158

Cas Number	Analyte	RT	Est. Result	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-36763-1

Lab Control Sample - Batch: 480-95158

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-95158/4	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21351.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1039	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1039				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.0	92	71 - 129	
1,1-Dichloroethene	25.0	22.8	91	58 - 121	
1,2,4-Trimethylbenzene	25.0	26.0	104	76 - 121	
1,2-Dichlorobenzene	25.0	25.3	101	80 - 124	
1,2-Dichloroethane	25.0	25.3	101	75 - 127	
Benzene	25.0	22.5	90	71 - 124	
Chlorobenzene	25.0	23.0	92	72 - 120	
cis-1,2-Dichloroethene	25.0	23.7	95	74 - 124	
Ethylbenzene	25.0	23.4	93	77 - 123	
Methyl tert-butyl ether	25.0	17.5	70	64 - 127	
m-Xylene & p-Xylene	50.0	46.6	93	76 - 122	
o-Xylene	25.0	23.2	93	76 - 122	
Tetrachloroethene	25.0	22.8	91	74 - 122	
Toluene	25.0	22.7	91	80 - 122	
trans-1,2-Dichloroethene	25.0	22.6	90	73 - 127	
Trichloroethene	25.0	23.6	94	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	66 - 137
4-Bromofluorobenzene (Surr)	93	73 - 120
Toluene-d8 (Surr)	99	71 - 126

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95158

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29666-A-4 MS	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21372.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1825			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1825				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29666-A-4 MSD	Analysis Batch:	480-95158	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S21373.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1847			Final Weight/Volume:	5 mL
Prep Date:	12/11/2012 1847				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,2,4-Trimethylbenzene	107	106	76 - 121	1	20		
Benzene	94	92	71 - 124	2	13		
Ethylbenzene	98	95	77 - 123	3	15		
Methyl tert-butyl ether	65	64	64 - 127	1	37		
m-Xylene & p-Xylene	98	96	76 - 122	2	16		
o-Xylene	96	96	76 - 122	1	16		
Toluene	95	94	80 - 122	2	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	101	66 - 137
4-Bromofluorobenzene (Surr)	93	92	73 - 120
Toluene-d8 (Surr)	100	99	71 - 126

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95158

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29666-A-4 MS	Units: ug/L	MSD Lab Sample ID:	480-29666-A-4 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	5.0		Dilution:	5.0	
Analysis Date:	12/11/2012 1825		Analysis Date:	12/11/2012 1847	
Prep Date:	12/11/2012 1825		Prep Date:	12/11/2012 1847	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,2,4-Trimethylbenzene	ND	125	125	134	132
Benzene	ND	125	125	118	115
Ethylbenzene	ND	125	125	122	119
Methyl tert-butyl ether	ND	125	125	81.1	80.3
m-Xylene & p-Xylene	ND	250	250	244	240
o-Xylene	ND	125	125	121	120
Toluene	ND	125	125	119	117

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 480-94990

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	MB 480-94990/4	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0168.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1246	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1246				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Vinyl chloride	ND		0.020	0.020

Lab Control Sample - Batch: 480-94990

Method: 8260B SIM
Preparation: 5030B

Lab Sample ID:	LCS 480-94990/2	Analysis Batch:	480-94990	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J0166.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/10/2012 1155	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/10/2012 1155				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.162	81	60 - 140	

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151230/1-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2218	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	ND		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	ND		1.0	1.0

Lab Control Sample - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151230/2-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2220	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	49.5	99	90 - 111	
Cobalt, Dissolved	0.500	0.500	100	89 - 111	
Iron, Dissolved	1.00	1.02	102	89 - 115	
Magnesium, Dissolved	50.0	50.3	101	90 - 113	
Potassium, Dissolved	50.0	50.8	102	89 - 114	
Sodium, Dissolved	50.0	53.7	107	90 - 115	

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-B MS	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2227			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-F-1-C MSD	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2229			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	94	93	48 - 153	0	20		
Cobalt, Dissolved	97	97	82 - 119	0	20		
Iron, Dissolved	95	95	52 - 155	0	20		
Magnesium, Dissolved	95	95	62 - 146	0	20		
Potassium, Dissolved	98	98	76 - 132	0	20		
Sodium, Dissolved	98	94	70 - 203	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2012 2227		
Prep Date:	12/12/2012 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36659-F-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2012 2229
Prep Date:	12/12/2012 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	42	50.0	50.0	88.7	88.6
Cobalt, Dissolved	ND	0.500	0.500	0.484	0.486
Iron, Dissolved	0.22	1.00	1.00	1.17	1.18
Magnesium, Dissolved	16	50.0	50.0	64.0	63.9
Potassium, Dissolved	23	50.0	50.0	72.4	72.5
Sodium, Dissolved	140	50.0	50.0	184	182

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-151233

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151233/1-A	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	214_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0134	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	ND		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	ND		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-151233

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151233/2-A	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	215_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0138	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0371	93	85 - 115	
Barium, Dissolved	0.0400	0.0402	100	85 - 118	
Beryllium, Dissolved	0.0400	0.0405	101	80 - 125	
Cadmium, Dissolved	0.0400	0.0403	101	85 - 115	
Chromium, Dissolved	0.0400	0.0399	100	84 - 121	
Copper, Dissolved	0.0400	0.0405	101	85 - 119	
Lead, Dissolved	0.0400	0.0410	102	85 - 118	
Manganese, Dissolved	0.0400	0.0408	102	85 - 117	
Nickel, Dissolved	0.0400	0.0405	101	85 - 119	
Selenium, Dissolved	0.0400	0.0382	96	77 - 122	
Silver, Dissolved	0.0400	0.0404	101	85 - 115	
Thallium, Dissolved	0.0400	0.0399	100	85 - 118	
Vanadium, Dissolved	0.0400	0.0401	100	85 - 120	
Zinc, Dissolved	0.0400	0.0437	109	83 - 122	

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-E MS	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	218SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0151			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-F-1-F MSD	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	219SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0155			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	100	101	85 - 115	1	20		
Barium, Dissolved	111	104	85 - 118	3	20		
Beryllium, Dissolved	104	98	80 - 125	6	20		
Cadmium, Dissolved	100	97	85 - 115	3	20		
Chromium, Dissolved	104	104	84 - 121	0	20		
Copper, Dissolved	102	101	85 - 119	1	20		
Lead, Dissolved	102	100	85 - 118	1	20		
Manganese, Dissolved	112	83	85 - 117	2	20	4	4
Nickel, Dissolved	98	99	85 - 119	1	20		
Selenium, Dissolved	100	92	77 - 122	7	20		
Silver, Dissolved	99	98	85 - 115	1	20		
Vanadium, Dissolved	99	100	85 - 120	1	20		
Zinc, Dissolved	102	93	83 - 122	3	20		

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-E MS	Analysis Batch:	280-152193	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	035SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1326			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-F-1-F MSD	Analysis Batch:	280-152193	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	036SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1330			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Thallium, Dissolved	102	98	85 - 118	4	20		

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-E MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/13/2012 0151		
Prep Date:	12/12/2012 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36659-F-1-F MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/13/2012 0155
Prep Date:	12/12/2012 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony, Dissolved	0.0041	0.0400	0.0400	0.0441	0.0445
Barium, Dissolved	0.050	0.0400	0.0400	0.0947	0.0917
Beryllium, Dissolved	ND	0.0400	0.0400	0.0417	0.0394
Cadmium, Dissolved	0.00020	0.0400	0.0400	0.0400	0.0388
Chromium, Dissolved	ND	0.0400	0.0400	0.0416	0.0416
Copper, Dissolved	0.0038	0.0400	0.0400	0.0445	0.0441
Lead, Dissolved	ND	0.0400	0.0400	0.0406	0.0401
Manganese, Dissolved	0.47	0.0400	0.0400	0.516 4	0.504 4
Nickel, Dissolved	0.017	0.0400	0.0400	0.0559	0.0565
Selenium, Dissolved	ND	0.0400	0.0400	0.0398	0.0370
Silver, Dissolved	ND	0.0400	0.0400	0.0395	0.0393
Vanadium, Dissolved	0.0033	0.0400	0.0400	0.0430	0.0433
Zinc, Dissolved	0.083	0.0400	0.0400	0.124	0.121

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-F-1-E MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/13/2012 1326		
Prep Date:	12/12/2012 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36659-F-1-F MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/13/2012 1330
Prep Date:	12/12/2012 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Thallium, Dissolved	ND	0.0400	0.0400	0.0408	0.0393

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-152759

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152759/6	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1244	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152759

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152759/3	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1154	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	104	50 - 150	
Sulfate	1.00	ND	82	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152759

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152759/4	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1211	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152759/5	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1228	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	97	97	90 - 110	0	10		
Sulfate	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36763-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152759

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152759/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-152759/5	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/17/2012 1211		Analysis Date:	12/17/2012 1228	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	24.4	24.3
Sulfate	25.0	25.0	24.9	24.9

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152759

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36763-1	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	118.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1335			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36763-1	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	119.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1352			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	101	104	80 - 120	2	20		
Sulfate	103	105	80 - 120	2	20		

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152759

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36763-1	Units: mg/L	MSD Lab Sample ID:	280-36763-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/17/2012 1335		Analysis Date:	12/17/2012 1352	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	5.3	25.0	25.0	30.6	31.2
Sulfate	5.5	25.0	25.0	31.2	31.7

Duplicate - Batch: 280-152759

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36763-1	Analysis Batch:	280-152759	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	117.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 1318	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	5.3	5.31	0.1	15	
Sulfate	5.5	5.35	2	15	

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-152068

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-152068/57	Analysis Batch:	280-152068	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121312.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/13/2012 0943	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152068

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152068/55	Analysis Batch:	280-152068	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121312.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/13/2012 0938	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152068/56	Analysis Batch:	280-152068	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121312.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/13/2012 0941	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	108	108	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152068

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152068/55	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152068/56
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 0938			Analysis Date:	12/13/2012 0941
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.70	2.70

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152068

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36763-3	Analysis Batch:	280-152068	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121312.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/13/2012 1002			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36763-3	Analysis Batch:	280-152068	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121312.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/13/2012 1004			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	105	109	90 - 110	3	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152068

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36763-3	Units:	mg/L	MSD Lab Sample ID:	280-36763-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 1002			Analysis Date:	12/13/2012 1004
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	0.25	1.00	1.00	1.30	1.34

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-153122

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-153122/1	Analysis Batch:	280-153122	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/07/2012 0809	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate as N	ND		0.050	0.050

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-152341

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152341/6	Analysis Batch:	280-152341	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1258	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152341

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152341/4	Analysis Batch:	280-152341	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1250	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152341/5	Analysis Batch:	280-152341	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1254	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	103	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152341

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152341/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152341/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 1250			Analysis Date:	12/14/2012 1254
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	206	206

Client: Waste Management

Job Number: 280-36763-1

Duplicate - Batch: 280-152341

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36561-A-12 DU	Analysis Batch:	280-152341	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 1308	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	390	401	2	10	

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-151300

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-151300/1	Analysis Batch:	280-151300	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 0846	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151300

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151300/2	Analysis Batch:	280-151300	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 0846	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151300/3	Analysis Batch:	280-151300	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 0846	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	99	86 - 110	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151300

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151300/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151300/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2012 0846			Analysis Date:	12/10/2012 0846
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	497	497

Client: Waste Management

Job Number: 280-36763-1

Duplicate - Batch: 280-151300

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36716-A-1 DU	Analysis Batch:	280-151300	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/10/2012 0846	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	6900	6950	0.1	10	

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152558/36	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0637	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/34	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0600	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152558/35	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0618	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	100	99	88 - 112	1	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/34	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152558/35
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2012 0600			Analysis Date:	12/15/2012 0618
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	25.0	24.8

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36745-C-1 MS	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1108			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36745-C-1 MSD	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1204			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	101	101	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36745-C-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36745-C-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2012 1108			Analysis Date:	12/15/2012 1204
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	16	25.0	25.0	41.6	41.7

Client: Waste Management

Job Number: 280-36763-1

Method Blank - Batch: 280-152811

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152811/5	Analysis Batch:	280-152811	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2118	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152811

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152811/3	Analysis Batch:	280-152811	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2045	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152811/4	Analysis Batch:	280-152811	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2101	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	96	97	88 - 112	1	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152811

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152811/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152811/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/17/2012 2045			Analysis Date:	12/17/2012 2101
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.1	24.3

Client: Waste Management

Job Number: 280-36763-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152811

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36915-I-1 MS	Analysis Batch:	280-152811	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2148			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36915-I-1 MSD	Analysis Batch:	280-152811	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/17/2012 2204			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	96	95	88 - 112	1	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152811

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36915-I-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36915-I-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/17/2012 2148			Analysis Date:	12/17/2012 2204
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	12	25.0	25.0	36.2	36.0

Client: Waste Management Job Number: 280-36763-1

Laboratory Chronicle

Lab ID: 280-36763-1 **Client ID:** DUP1

Sample Date/Time: 12/03/2012 14:42 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36763-D-1		480-95158		12/11/2012 12:59	1	TAL BUF	RL
A:8260B	280-36763-D-1		480-95158		12/11/2012 12:59	1	TAL BUF	RL
P:5030B	280-36763-E-1		480-94990		12/10/2012 15:11	1	TAL BUF	TRB
A:8260B SIM	280-36763-E-1		480-94990		12/10/2012 15:11	1	TAL BUF	TRB
P:3005A	280-36763-C-1-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36763-C-1-A		280-151948	280-151230	12/12/2012 22:43	1	TAL DEN	JKH
P:3005A	280-36763-C-1-B		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-1-B		280-151968	280-151233	12/13/2012 03:07	1	TAL DEN	LT
P:3005A	280-36763-C-1-B		280-152193	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-1-B		280-152193	280-151233	12/13/2012 13:05	1	TAL DEN	LT
A:300.0	280-36763-A-1		280-152759		12/17/2012 13:01	1	TAL DEN	EK
A:350.1	280-36763-B-1		280-152068		12/13/2012 09:45	1	TAL DEN	BMG
A:353.2	280-36763-A-1		280-153122		12/07/2012 08:09	1	TAL DEN	RS
A:SM 2320B	280-36763-A-1		280-152341		12/14/2012 14:20	1	TAL DEN	DA
A:SM 2540C	280-36763-A-1		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	280-36763-B-1		280-152558		12/15/2012 13:00	1	TAL DEN	DFB

Lab ID: 280-36763-1 MS **Client ID:** DUP1

Sample Date/Time: 12/03/2012 14:42 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36763-A-1 MS		280-152759		12/17/2012 13:35	1	TAL DEN	EK

Lab ID: 280-36763-1 MSD **Client ID:** DUP1

Sample Date/Time: 12/03/2012 14:42 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36763-A-1 MSD		280-152759		12/17/2012 13:52	1	TAL DEN	EK

Lab ID: 280-36763-1 DU **Client ID:** DUP1

Sample Date/Time: 12/03/2012 14:42 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36763-A-1 DU		280-152759		12/17/2012 13:18	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36763-1

Laboratory Chronicle

Lab ID: 280-36763-2 **Client ID:** MW-34C

Sample Date/Time: 12/03/2012 14:42 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36763-D-2		480-95158		12/11/2012 13:21	1	TAL BUF	RL
A:8260B	280-36763-D-2		480-95158		12/11/2012 13:21	1	TAL BUF	RL
P:5030B	280-36763-E-2		480-94990		12/10/2012 16:11	1	TAL BUF	TRB
A:8260B SIM	280-36763-E-2		480-94990		12/10/2012 16:11	1	TAL BUF	TRB
P:3005A	280-36763-C-2-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36763-C-2-A		280-151948	280-151230	12/12/2012 22:45	1	TAL DEN	JKH
P:3005A	280-36763-C-2-B		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-2-B		280-151968	280-151233	12/13/2012 03:11	1	TAL DEN	LT
P:3005A	280-36763-C-2-B		280-152193	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-2-B		280-152193	280-151233	12/13/2012 13:10	1	TAL DEN	LT
A:300.0	280-36763-A-2		280-152759		12/17/2012 14:08	1	TAL DEN	EK
A:350.1	280-36763-B-2		280-152068		12/13/2012 09:48	1	TAL DEN	BMG
A:353.2	280-36763-A-2		280-153122		12/07/2012 08:09	1	TAL DEN	RS
A:SM 2320B	280-36763-A-2		280-152341		12/14/2012 14:24	1	TAL DEN	DA
A:SM 2540C	280-36763-A-2		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	280-36763-B-2		280-152558		12/15/2012 13:16	1	TAL DEN	DFB
A:Field Sampling	280-36763-A-2		280-151335		12/03/2012 14:42	1	TAL DEN	FS

Lab ID: 280-36763-3 **Client ID:** MW-33A

Sample Date/Time: 12/03/2012 11:50 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36763-D-3		480-95158		12/11/2012 13:43	1	TAL BUF	RL
A:8260B	280-36763-D-3		480-95158		12/11/2012 13:43	1	TAL BUF	RL
P:5030B	280-36763-E-3		480-94990		12/10/2012 16:34	1	TAL BUF	TRB
A:8260B SIM	280-36763-E-3		480-94990		12/10/2012 16:34	1	TAL BUF	TRB
P:3005A	280-36763-C-3-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36763-C-3-A		280-151948	280-151230	12/12/2012 22:47	1	TAL DEN	JKH
P:3005A	280-36763-C-3-B		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-3-B		280-151968	280-151233	12/13/2012 03:15	1	TAL DEN	LT
P:3005A	280-36763-C-3-B		280-152193	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36763-C-3-B		280-152193	280-151233	12/13/2012 13:14	1	TAL DEN	LT
A:300.0	280-36763-A-3		280-152759		12/17/2012 14:25	1	TAL DEN	EK
A:350.1	280-36763-B-3		280-152068		12/13/2012 09:59	1	TAL DEN	BMG
A:353.2	280-36763-A-3		280-153122		12/07/2012 08:09	1	TAL DEN	RS
A:SM 2320B	280-36763-A-3		280-152341		12/14/2012 14:28	1	TAL DEN	DA
A:SM 2540C	280-36763-A-3		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	280-36763-B-3		280-152811		12/17/2012 23:24	1	TAL DEN	DFB
A:Field Sampling	280-36763-A-3		280-151335		12/03/2012 11:50	1	TAL DEN	FS

Client: Waste Management Job Number: 280-36763-1

Laboratory Chronicle

Lab ID: 280-36763-3 MS **Client ID:** MW-33A

Sample Date/Time: 12/03/2012 11:50 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36763-B-3 MS		280-152068		12/13/2012 10:02	1	TAL DEN	BMG

Lab ID: 280-36763-3 MSD **Client ID:** MW-33A

Sample Date/Time: 12/03/2012 11:50 Received Date/Time: 12/07/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-36763-B-3 MSD		280-152068		12/13/2012 10:04	1	TAL DEN	BMG

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-95158/5		480-95158		12/11/2012 11:01	1	TAL BUF	RL
A:8260B	MB 480-95158/5		480-95158		12/11/2012 11:01	1	TAL BUF	RL
P:5030B	MB 480-94990/4		480-94990		12/10/2012 12:46	1	TAL BUF	TRB
A:8260B SIM	MB 480-94990/4		480-94990		12/10/2012 12:46	1	TAL BUF	TRB
P:3005A	MB 280-151230/1-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151230/1-A		280-151948	280-151230	12/12/2012 22:18	1	TAL DEN	JKH
P:3005A	MB 280-151233/1-A		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	MB 280-151233/1-A		280-151968	280-151233	12/13/2012 01:34	1	TAL DEN	LT
A:300.0	MB 280-152759/6		280-152759		12/17/2012 12:44	1	TAL DEN	EK
A:350.1	MB 280-152068/57		280-152068		12/13/2012 09:43	1	TAL DEN	BMG
A:353.2	MB 280-153122/1		280-153122		12/07/2012 08:09	1	TAL DEN	RS
A:SM 2320B	MB 280-152341/6		280-152341		12/14/2012 12:58	1	TAL DEN	DA
A:SM 2540C	MB 280-151300/1		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	MB 280-152558/36		280-152558		12/15/2012 06:37	1	TAL DEN	DFB
A:SM 5310B	MB 280-152811/5		280-152811		12/17/2012 21:18	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36763-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-95158/4		480-95158		12/11/2012 10:39	1	TAL BUF	RL
A:8260B	LCS 480-95158/4		480-95158		12/11/2012 10:39	1	TAL BUF	RL
P:5030B	LCS 480-94990/2		480-94990		12/10/2012 11:55	1	TAL BUF	TRB
A:8260B SIM	LCS 480-94990/2		480-94990		12/10/2012 11:55	1	TAL BUF	TRB
P:3005A	LCS 280-151230/2-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151230/2-A		280-151948	280-151230	12/12/2012 22:20	1	TAL DEN	JKH
P:3005A	LCS 280-151233/2-A		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	LCS 280-151233/2-A		280-151968	280-151233	12/13/2012 01:38	1	TAL DEN	LT
A:300.0	LCS 280-152759/4		280-152759		12/17/2012 12:11	1	TAL DEN	EK
A:350.1	LCS 280-152068/55		280-152068		12/13/2012 09:38	1	TAL DEN	BMG
A:SM 2320B	LCS 280-152341/4		280-152341		12/14/2012 12:50	1	TAL DEN	DA
A:SM 2540C	LCS 280-151300/2		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	LCS 280-152558/34		280-152558		12/15/2012 06:00	1	TAL DEN	DFB
A:SM 5310B	LCS 280-152811/3		280-152811		12/17/2012 20:45	1	TAL DEN	DFB

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-152759/5		280-152759		12/17/2012 12:28	1	TAL DEN	EK
A:350.1	LCSD 280-152068/56		280-152068		12/13/2012 09:41	1	TAL DEN	BMG
A:SM 2320B	LCSD 280-152341/5		280-152341		12/14/2012 12:54	1	TAL DEN	DA
A:SM 2540C	LCSD 280-151300/3		280-151300		12/10/2012 08:46	1	TAL DEN	SB
A:SM 5310B	LCSD 280-152558/35		280-152558		12/15/2012 06:18	1	TAL DEN	DFB
A:SM 5310B	LCSD 280-152811/4		280-152811		12/17/2012 21:01	1	TAL DEN	DFB

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-152759/3		280-152759		12/17/2012 11:54	1	TAL DEN	EK

Client: Waste Management Job Number: 280-36763-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29666-A-4 MS		480-95158		12/11/2012 18:25	5	TAL BUF	RL
A:8260B	480-29666-A-4 MS		480-95158		12/11/2012 18:25	5	TAL BUF	RL
P:3005A	280-36659-F-1-B MS		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-F-1-B MS		280-151948	280-151230	12/12/2012 22:27	1	TAL DEN	JKH
P:3005A	280-36659-F-1-E MS		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-E MS		280-151968	280-151233	12/13/2012 01:51	1	TAL DEN	LT
P:3005A	280-36659-F-1-E MS		280-152193	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-E MS		280-152193	280-151233	12/13/2012 13:26	1	TAL DEN	LT
A:SM 5310B	280-36745-C-1 MS		280-152558		12/15/2012 11:08	1	TAL DEN	DFB
A:SM 5310B	280-36915-I-1 MS		280-152811		12/17/2012 21:48	1	TAL DEN	DFB

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29666-A-4 MSD		480-95158		12/11/2012 18:47	5	TAL BUF	RL
A:8260B	480-29666-A-4 MSD		480-95158		12/11/2012 18:47	5	TAL BUF	RL
P:3005A	280-36659-F-1-C MSD		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-F-1-C MSD		280-151948	280-151230	12/12/2012 22:29	1	TAL DEN	JKH
P:3005A	280-36659-F-1-F MSD		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-F MSD		280-151968	280-151233	12/13/2012 01:55	1	TAL DEN	LT
P:3005A	280-36659-F-1-F MSD		280-152193	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-F MSD		280-152193	280-151233	12/13/2012 13:30	1	TAL DEN	LT
A:SM 5310B	280-36745-C-1 MSD		280-152558		12/15/2012 12:04	1	TAL DEN	DFB
A:SM 5310B	280-36915-I-1 MSD		280-152811		12/17/2012 22:04	1	TAL DEN	DFB

Lab ID: DU **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-36561-A-12 DU		280-152341		12/14/2012 13:08	1	TAL DEN	DA
A:SM 2540C	280-36716-A-1 DU		280-151300		12/10/2012 08:46	1	TAL DEN	SB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 2.4 (W) 12/7/12 LP

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: SCS	Project Manager: Emily Smart	Date	Chain of Custody Number: 170102
Address: 2405 140th Ave NE	Telephone Number (Area Code)/Fax Number: 425 289 5443	Lab Number	Page _____ of _____
City: Bellevue / State: WA / Zip Code: 98005	Site Contact	Lab Contact: Betsy Shaw	
Project Name and Location (State): WA02 / WSL	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 28002692			

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	NaOH/ ZnAc
~~DUP-1~~ 12/7/12 per ES	12/3	0955		X			2	1	2	6	1		1
MW-13B		1029					1	1	1	6			
MW-33C		1201											
MW-34A		1317											
MW-34C		1442											
MW-33A		1150											
MW-13A		1038											

Analysis (Attach list if more space is needed)

CLP Suite (TDS/Alk)	Metals (Diss)	Total NH3	VOCs - Buffalo	VOCs - STL-Buffalo	NO2/NO3	Methane (Hot)	COD	Total Coliform	Total Cyanide	BOD	Alk s/A Composite
X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X						X

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By: [signature]	12/3/12	1600
2. Relinquished By		
3. Relinquished By		

	Date	Time
1. Received By: [signature]	12/7/12	0930
2. Received By		
3. Received By		

Comments
Custody Seal # 730209, 730210

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-34C (Sample ID)

This Waste Management Field Information Form is Required. This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360763-2

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
120312	1310				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle, X-Other:

Filter Device: Y or N, 0.45 µ or ____ µ (circle or fill in)

Filter Type: A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other:

Sample Tube Type:

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 40.20 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1213	1st	6.27	2.41	11.80	>1000.0	2.13	316	40.21
1320	2nd	6.53	2.41	11.91	600.0	1.39	243	
1325	3rd	6.60	2.44	12.03	650.0	1.28	145	40.17
1330	4th	6.62	2.43	12.60	650.0	1.27	91.0	
1335		6.62	2.44	12.06	3.70	1.34	5.1	40.12
1355		6.62	2.40	12.08	4.50	1.32	0.16	
1410		6.62	2.44	12.08	8.50	1.06	5.9	40.12
1420		6.59	2.44	12.13	>1000.	1.25	6.6	
1430		6.62	2.44	12.57	2.20	0.62	-0.8	40.12
1436		6.60	2.47	12.57	1.33	0.57	-4.6	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
120312	6.62	2.46	12.57	3.54	0.58	-6.0	1442

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: ____ Color: ____ Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: Rain (down pour) Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

8 8 1439; 6.62; 243; 12.56; 33; 0.54; -6.6 40.12

7 7 1442; 6.62; 246; 12.57; 35.4; 0.58; -6.0

50 65

400 600

@ 1420

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12.3.12	Wayne Chang	Wayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill
Site No.:
Sample Point: MW-3B|A (Sample ID)

This Waste Management Field Information Form IS Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 360763-3

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/03/12	11:50				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: (Y) or N — 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other: _____

X-Other: _____

Sample Tube Type: _____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	13.50	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:50	1st	7.53	10	9.73	1.2	6.30	91.3	13.51
11:53	2nd	7.46	16	9.38	1.10	5.67	87.8	13.55
11:56	3rd	6.51	69	9.20		0.63	-3.35	13.35
11:59	4th	6.48	73	9.24		0.51	-42.5	13.40
12:02		6.44	80	1.23	9.2	0.48	-51.2	13.45
12:05		6.45	84	9.25	1.00	0.54	-51.8	13.51
12:08		6.46	84	9.24	9.15	0.49	-51.9	
Suggested range for 3 consec. readings or per Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

Stabilization Data Fields are Optional (i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time Units
12/03/12	6.46	84	9.24	9.15	0.49	-51.9	1208

Final Field Readings are required (i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

3
7
10
500

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/3/12	Dayne Chang	Dayne Chang	SCS Engineers

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36763-1

Login Number: 36763

List Source: TestAmerica Denver

List Number: 1

Creator: Laspe, Laura

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	NO COC IN COOLER WITH OTHER SAMPLES RECEIVED EARLIER IN THE WEEK
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	EXTRA SAMPLE RECEIVED
Samples are received within Holding Time.	False	MAJOR ANIONS OUT OF HOLDING TIME, COOLER TOOK IT'S TIME GETTING HERE
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36763-1

Login Number: 36763
List Number: 1
Creator: Janish, Carl

List Source: TestAmerica Buffalo
List Creation: 12/10/12 10:47 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36659-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
3/4/2013 9:00 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
03/04/2013
Revision: 1

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36659-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The sample was received on 12/06/2012; the sample arrived properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

One of two 500mL sulfuric acid preserved ambers for sample L-INF was broken in transit, however sufficient volume remained to proceed with the requested analyses. The client was notified 12/6/12.

Holding Times

All holding times were within established control limits.

Method Blanks

Total Calcium Method 6010B was detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Total Calcium is below TestAmerica Denver's standard reporting limit and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below TestAmerica Denver's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

The Method 5210B LCS exhibited a recovery below the lower control limit at 77% (control limits 85%-115%). Because the 48-hour holding time expired, reanalysis was not performed.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for m-Xylene & p-Xylene, Toluene Method 8260B and Total Cyanide Method 9012A. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

The percent recoveries and/or the relative percent difference of the MS/MSD performed on sample L-INF were not calculated for Dissolved Manganese during Method 6020 analysis because the sample concentration was greater than four times the spike amount.

Because the client requested reporting limit for Nitrite is higher than the spiked concentration of the MS/MSD, the recoveries are reporting out as ND with 0% recoveries. The MS/MSD for Nitrite was performed on the sample MW-20 (36664-1).

All other MS and MSD samples were within established control limits.

Metals

The Method 6020 instrument blank for analytical batch151968 contained Total Thallium greater than one-half the reporting limit (RL). The data have been qualified and reported. The samples reported are less than the reporting limit.

The Method 6020 instrument blank for analytical batch 152193 contained Total Thallium greater than one-half the reporting limit (RL). The data have been qualified and reported. The sample results are either less than the reporting limit or greater than ten times the blank result.

The Method 6020 instrument blank for analytical batch 152193 contained Total Thallium greater than one-half the reporting limit (RL). The data have been qualified and reported. The sample results are either less than the reporting limit or greater than ten times the blank result.

General Chemistry

Only a "less than" result for Biochemical Oxygen Demand (BOD) could be calculated from the least dilute preparation for the sample L-INF. The dilutions were prepared based on historical data.

General Comments

The analysis for Volatile Organics by Method 8260B was performed by TestAmerica Buffalo. Their address and phone number are:
TestAmerica Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228
716-691-2600

The Total Coliform analysis was performed at Colorado Analytical Laboratories, Inc. Their address and phone number are:
Colorado Analytical Laboratories, Inc.
240 South Main Street
Brighton, CO 80601
Phone: 303-659-2313

Report Revision

This submission was revised to add several Total Metals per the client's request.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36659-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36659-1	**L-INF**					
1,2,4-Trimethylbenzene		0.79	J	1.0	ug/L	8260B
1,4-Dichlorobenzene		0.87	J	1.0	ug/L	8260B
4-Methyl-2-pentanone (MIBK)		4.2	J	5.0	ug/L	8260B
Acetone		7.5	J	10	ug/L	8260B
Ethylbenzene		0.81	J	1.0	ug/L	8260B
m-Xylene & p-Xylene		2.1		2.0	ug/L	8260B
o-Xylene		1.2		1.0	ug/L	8260B
Butyl alcohol, tert-		140		20	ug/L	8260B
Tetrahydrofuran		71		5.0	ug/L	8260B
Toluene		1.1		1.0	ug/L	8260B
Chloride		110		5.0	mg/L	300.0
Sulfate		87		5.0	mg/L	300.0
Ammonia (as N)		31		1.5	mg/L	350.1
Nitrate/Nitrite		3.0		0.050	mg/L	353.2
Chemical Oxygen Demand (COD)		56		10	mg/L	410.4
Alkalinity, Total (As CaCO3)		150		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		150		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		340		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		17		1.0	mg/L	SM 5310B
Biochemical Oxygen Demand		>3.67	*	10	mg/L	SM5210B
Dissolved						
Calcium, Dissolved		42		0.040	mg/L	6010B
Iron, Dissolved		0.22		0.060	mg/L	6010B
Magnesium, Dissolved		16		0.050	mg/L	6010B
Potassium, Dissolved		23		1.5	mg/L	6010B
Sodium, Dissolved		140		1.0	mg/L	6010B
Manganese, Dissolved		0.47		0.0010	mg/L	6020
Zinc, Dissolved		0.083		0.0050	mg/L	6020
Total Recoverable						
Calcium, Total		26	B	0.040	mg/L	6010B
Iron, Total		0.38		0.060	mg/L	6010B
Magnesium, Total		10		0.050	mg/L	6010B
Potassium, Total		17		1.5	mg/L	6010B
Sodium, Total		86		1.0	mg/L	6010B
Antimony, Total		0.0028		0.0010	mg/L	6020
Arsenic, Total		0.0047		0.0010	mg/L	6020
Barium, Total		0.037		0.0010	mg/L	6020
Cadmium, Total		0.00022		0.00020	mg/L	6020
Copper, Total		0.0057		0.0020	mg/L	6020
Manganese, Total		0.33		0.0010	mg/L	6020
Nickel, Total		0.010		0.0040	mg/L	6020
Vanadium, Total		0.0032		0.0020	mg/L	6020
Zinc, Total		0.063		0.0050	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36659-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
COD	TAL DEN	MCAWW 410.4	
Cyanide, Total and/or Amenable	TAL DEN	SW846 9012A	
Cyanide, Total and/or Amenable, Distillation	TAL DEN		SW846 9012A
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Nitrogen, Nitrite	TAL DEN	SM SM 4500 NO2 B	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
BOD, 5 Day	TAL DEN	SM SM5210B	
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
General Sub Contract Method	CAL	Subcontract	

Lab References:

CAL = Colorado Analytical Lakewood/Brighton

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36659-1

Method	Analyst	Analyst ID
SW846 8260B	Larson, Renee	RL
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
SW846 6020	Trudell, Lynn-Anne	LT
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
MCAWW 353.2	Scott, Samantha J	SJS
MCAWW 410.4	Bandy, Darlene F	DFB
SW846 9012A	Kilker, Lorelei M	LMK
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 4500 NO2 B	Graham, Shane	SG
SM SM 5310B	Bandy, Darlene F	DFB
SM SM5210B	Krinsky, Aaron	AK

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36659-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36659-1	L-INF	Water	12/05/2012 1520	12/06/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1
Client Matrix: Water

Date Sampled: 12/05/2012 1520
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1334			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1334				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	0.79	J	0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	0.87	J	0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	4.2	J	2.1	5.0
Acetone	7.5	J	3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1
Client Matrix: Water

Date Sampled: 12/05/2012 1520
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1334			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1334				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	0.81	J	0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	2.1		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	1.2		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	140		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	71		1.3	5.0
Toluene	1.1		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Client: Waste Management

Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1
Client Matrix: Water

Date Sampled: 12/05/2012 1520
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1334			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1334				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	110		71 - 126

Client: Waste Management

Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1
Client Matrix: Water

Date Sampled: 12/05/2012 1520
Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	N2428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1334			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1334				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management | Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1 | Date Sampled: 12/05/2012 1520
Client Matrix: Water | Date Received: 12/06/2012 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-152000	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2049			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Total	26	B	0.040	0.040
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.38		0.060	0.060
Magnesium, Total	10		0.050	0.050
Potassium, Total	17		1.5	1.5

Analysis Method:	6010B	Analysis Batch:	280-152197	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1134			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Total	86		1.0	1.0

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-151948	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2222			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	42		0.040	0.040
Iron, Dissolved	0.22		0.060	0.060
Magnesium, Dissolved	16		0.050	0.050
Potassium, Dissolved	23		1.5	1.5
Sodium, Dissolved	140		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-151968	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151226	Lab File ID:	155SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2129			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	0.0028		0.0010	0.0010
Arsenic, Total	0.0047		0.0010	0.0010
Barium, Total	0.037		0.0010	0.0010

Client: Waste Management

Job Number: 280-36659-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1
Client Matrix: Water

Date Sampled: 12/05/2012 1520
Date Received: 12/06/2012 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	0.00022		0.00020	0.00020
Chromium, Total	ND		0.0030	0.0030
Copper, Total	0.0057		0.0020	0.0020
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.33		0.0010	0.0010
Nickel, Total	0.010		0.0040	0.0040
Selenium, Total	ND		0.0010	0.0010
Silver, Total	ND		0.0020	0.0020
Vanadium, Total	0.0032		0.0020	0.0020
Zinc, Total	0.063		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-152193	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151226	Lab File ID:	045SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1409			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Thallium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-151968	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-151233	Lab File ID:	216SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0142			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Manganese, Dissolved	0.47		0.0010	0.0010
Zinc, Dissolved	0.083		0.0050	0.0050

General Chemistry

Client Sample ID: **L-INF**

Lab Sample ID: 280-36659-1 Date Sampled: 12/05/2012 1520
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	110		mg/L	5.0	5.0	5.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1356						
Sulfate	87		mg/L	5.0	5.0	5.0	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1356						
Ammonia (as N)	31		mg/L	1.5	1.5	50	350.1
Analysis Batch: 280-151834	Analysis Date: 12/12/2012 0923						
Nitrate/Nitrite	3.0		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-151453	Analysis Date: 12/10/2012 1406						
Chemical Oxygen Demand (COD)	56		mg/L	10	10	1.0	410.4
Analysis Batch: 280-152723	Analysis Date: 12/18/2012 0949						
Cyanide, Total	ND		mg/L	0.010	0.010	1.0	9012A
Analysis Batch: 280-151179	Analysis Date: 12/07/2012 1630						
Prep Batch: 280-151069	Prep Date: 12/07/2012 1206						
Alkalinity, Total (As CaCO3)	150		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2115						
Alkalinity, Bicarbonate (As CaCO3)	150		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2115						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152153	Analysis Date: 12/13/2012 2115						
Total Dissolved Solids (TDS)	340		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-151808	Analysis Date: 12/12/2012 1149						
Nitrite as N	ND		mg/L	0.25	0.25	5.0	SM 4500 NO2 B
Analysis Batch: 280-150869	Analysis Date: 12/06/2012 1550						
Total Organic Carbon - Average	17		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/14/2012 2142						
Biochemical Oxygen Demand	>3.67	*	mg/L	10	10	5.0	SM5210B
Analysis Batch: 280-150840	Analysis Date: 12/06/2012 1355						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36659-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	*	RPD of the LCS and LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-95389					
LCS 480-95389/4	Lab Control Sample	T	Water	8260B	
MB 480-95389/5	Method Blank	T	Water	8260B	
480-29597-F-9 MS	Matrix Spike	T	Water	8260B	
480-29597-F-9 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36659-1	L-INF	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-151223					
LCS 280-151223/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151223/1-A	Method Blank	R	Water	3005A	
280-36659-1	L-INF	R	Water	3005A	
280-36659-1MS	Matrix Spike	R	Water	3005A	
280-36659-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-151226					
LCS 280-151226/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151226/1-A	Method Blank	R	Water	3005A	
280-36659-1	L-INF	R	Water	3005A	
280-36736-I-1-B MS	Matrix Spike	R	Water	3005A	
280-36736-I-1-C MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-151230					
LCS 280-151230/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151230/1-A	Method Blank	R	Water	3005A	
280-36659-1	L-INF	D	Water	3005A	
280-36659-1MS	Matrix Spike	D	Water	3005A	
280-36659-1MSD	Matrix Spike Duplicate	D	Water	3005A	
Prep Batch: 280-151233					
280-36659-1	L-INF	D	Water	3005A	
280-36659-1MS	Matrix Spike	D	Water	3005A	
280-36659-1MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-151948					
LCS 280-151230/2-A	Lab Control Sample	R	Water	6010B	280-151230
MB 280-151230/1-A	Method Blank	R	Water	6010B	280-151230
280-36659-1	L-INF	D	Water	6010B	280-151230
280-36659-1MS	Matrix Spike	D	Water	6010B	280-151230
280-36659-1MSD	Matrix Spike Duplicate	D	Water	6010B	280-151230
Analysis Batch:280-151968					
LCS 280-151226/2-A	Lab Control Sample	R	Water	6020	280-151226
MB 280-151226/1-A	Method Blank	R	Water	6020	280-151226
280-36659-1	L-INF	R	Water	6020	280-151226
280-36659-1	L-INF	D	Water	6020	280-151233
280-36659-1MS	Matrix Spike	D	Water	6020	280-151233
280-36659-1MSD	Matrix Spike Duplicate	D	Water	6020	280-151233
280-36736-I-1-B MS	Matrix Spike	R	Water	6020	280-151226
280-36736-I-1-C MSD	Matrix Spike Duplicate	R	Water	6020	280-151226

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-152000					
LCS 280-151223/2-A	Lab Control Sample	R	Water	6010B	280-151223
MB 280-151223/1-A	Method Blank	R	Water	6010B	280-151223
280-36659-1	L-INF	R	Water	6010B	280-151223
280-36659-1MS	Matrix Spike	R	Water	6010B	280-151223
280-36659-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-151223
Analysis Batch:280-152193					
280-36659-1	L-INF	R	Water	6020	280-151226
280-36736-I-1-B MS	Matrix Spike	R	Water	6020	280-151226
280-36736-I-1-C MSD	Matrix Spike Duplicate	R	Water	6020	280-151226
Analysis Batch:280-152197					
LCS 280-151223/2-A	Lab Control Sample	R	Water	6010B	280-151223
MB 280-151223/1-A	Method Blank	R	Water	6010B	280-151223
280-36659-1	L-INF	R	Water	6010B	280-151223
280-36659-1MS	Matrix Spike	R	Water	6010B	280-151223
280-36659-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-151223

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-150840					
LCS 280-150840/4	Lab Control Sample	T	Water	SM5210B	
LCSD 280-150840/5	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-150840/6	Method Blank	T	Water	SM5210B	
280-36659-1	L-INF	T	Water	SM5210B	
280-36659-1DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-150869					
LCS 280-150869/3	Lab Control Sample	T	Water	SM 4500 NO2 B	
LCSD 280-150869/4	Lab Control Sample Duplicate	T	Water	SM 4500 NO2 B	
MB 280-150869/5	Method Blank	T	Water	SM 4500 NO2 B	
280-36659-1	L-INF	T	Water	SM 4500 NO2 B	
280-36664-A-1 MS	Matrix Spike	T	Water	SM 4500 NO2 B	
280-36664-A-1 MSD	Matrix Spike Duplicate	T	Water	SM 4500 NO2 B	
Prep Batch: 280-151069					
HLCS 280-151069/1-A	High Level Control Sample	T	Water	9012A	
LCS 280-151069/3-A	Lab Control Sample	T	Water	9012A	
LCSD 280-151069/4-A	Lab Control Sample Duplicate	T	Water	9012A	
LLCS 280-151069/2-A	Low Level Control Sample	T	Water	9012A	
MB 280-151069/5-A	Method Blank	T	Water	9012A	
280-36612-E-4-B MS	Matrix Spike	T	Water	9012A	
280-36612-E-4-C MSD	Matrix Spike Duplicate	T	Water	9012A	
280-36659-1	L-INF	T	Water	9012A	
Analysis Batch:280-151179					
HLCS 280-151069/1-A	High Level Control Sample	T	Water	9012A	280-151069
LCS 280-151069/3-A	Lab Control Sample	T	Water	9012A	280-151069
LCSD 280-151069/4-A	Lab Control Sample Duplicate	T	Water	9012A	280-151069
LLCS 280-151069/2-A	Low Level Control Sample	T	Water	9012A	280-151069
MB 280-151069/5-A	Method Blank	T	Water	9012A	280-151069
280-36612-E-4-B MS	Matrix Spike	T	Water	9012A	280-151069
280-36612-E-4-C MSD	Matrix Spike Duplicate	T	Water	9012A	280-151069
280-36659-1	L-INF	T	Water	9012A	280-151069
Analysis Batch:280-151453					
LCS 280-151453/21	Lab Control Sample	T	Water	353.2	
LCS 280-151453/68	Lab Control Sample	T	Water	353.2	
LCSD 280-151453/22	Lab Control Sample Duplicate	T	Water	353.2	
LCSD 280-151453/69	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-151453/20	Method Blank	T	Water	353.2	
MB 280-151453/67	Method Blank	T	Water	353.2	
280-36659-1	L-INF	T	Water	353.2	
280-36781-A-5 MS	Matrix Spike	T	Water	353.2	
280-36781-A-5 MSD	Matrix Spike Duplicate	T	Water	353.2	

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151808					
LCS 280-151808/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-151808/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-151808/1	Method Blank	T	Water	SM 2540C	
280-36659-1	L-INF	T	Water	SM 2540C	
280-36660-A-9 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-151834					
LCS 280-151834/19	Lab Control Sample	T	Water	350.1	
LCSD 280-151834/20	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-151834/21	Method Blank	T	Water	350.1	
280-36659-1	L-INF	T	Water	350.1	
280-36664-B-1 MS	Matrix Spike	T	Water	350.1	
280-36664-B-1 MSD	Matrix Spike Duplicate	T	Water	350.1	
Analysis Batch:280-152153					
LCS 280-152153/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-152153/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-152153/33	Method Blank	T	Water	SM 2320B	
280-36659-1	L-INF	T	Water	SM 2320B	
280-36667-A-8 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-152552					
LCS 280-152552/14	Lab Control Sample	T	Water	300.0	
LCSD 280-152552/15	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152552/16	Method Blank	T	Water	300.0	
280-36659-1	L-INF	T	Water	300.0	
280-36766-C-2 DU	Duplicate	T	Water	300.0	
280-36766-C-2 MS	Matrix Spike	T	Water	300.0	
280-36766-C-2 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-152558					
LCS 280-152558/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152558/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152558/5	Method Blank	T	Water	SM 5310B	
280-36659-1	L-INF	T	Water	SM 5310B	
280-36664-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-36664-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-152723					
LCS 280-152723/3	Lab Control Sample	T	Water	410.4	
LCSD 280-152723/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-152723/5	Method Blank	T	Water	410.4	
280-36659-1	L-INF	T	Water	410.4	
280-36798-B-2 MS	Matrix Spike	T	Water	410.4	
280-36798-B-2 MSD	Matrix Spike Duplicate	T	Water	410.4	

Client: Waste Management

Job Number: 280-36659-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36659-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-36659-1	L-INF	105	104	110
MB 480-95389/5		107	102	110
LCS 480-95389/4		110	102	110
480-29597-F-9 MS		104	102	107
480-29597-F-9 MSD		105	102	112

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 480-95389

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95389/5	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2424.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1141	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1141				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.35	1.0
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,1-Dichloropropene	ND		0.72	1.0
1,2,3-Trichlorobenzene	ND		0.41	1.0
1,2,3-Trichloropropane	ND		0.89	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2,4-Trimethylbenzene	ND		0.75	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane (EDB)	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloroethene, Total	ND		0.70	2.0
1,2-Dichloropropane	ND		0.72	1.0
1,3,5-Trichlorobenzene	ND		0.23	1.0
1,3,5-Trimethylbenzene	ND		0.77	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,3-Dichloropropane	ND		0.75	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
1,4-Dioxane	ND		9.3	40
2,2-Dichloropropane	ND		0.40	1.0
2-Butanone (MEK)	ND		1.3	10
2-Chloroethyl vinyl ether	ND		0.96	5.0
o-Chlorotoluene	ND		0.86	1.0
2-Hexanone	ND		1.2	5.0
p-Chlorotoluene	ND		0.84	1.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		26	40
Acrolein	ND		18	20
Acrylonitrile	ND		0.83	5.0
Benzene	ND		0.41	1.0
Bromobenzene	ND		0.80	1.0
Bromochloromethane	ND		0.87	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Chlorodifluoromethane	ND		0.26	1.0

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 480-95389

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95389/5	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2424.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1141	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1141				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dibromochloromethane	ND		0.32	1.0
Dibromomethane	ND		0.41	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Dichlorofluoromethane	ND		0.34	1.0
Ethyl acetate	ND		0.66	1.0
Ethyl ether	ND		0.72	1.0
Ethyl tert-butyl ether	ND		0.29	1.0
Ethylbenzene	ND		0.74	1.0
Hexachlorobutadiene	ND		0.28	1.0
Hexane	ND		0.40	10
Iodomethane	ND		0.30	1.0
Isobutanol	ND		20	40
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
Naphthalene	ND		0.43	1.0
Butyl alcohol, n-	ND		8.9	40
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Xylene	ND		0.76	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
Butyl alcohol, tert-	ND		14	20
Tert-amyl methyl ether	ND		0.27	1.0
tert-Butylbenzene	ND		0.81	1.0
Tetrachloroethene	ND		0.36	1.0
Tetrahydrofuran	ND		1.3	5.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
trans-1,4-Dichloro-2-butene	ND		2.1	5.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 480-95389

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 480-95389/5	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2424.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1141	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1141				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl acetate	ND		0.85	5.0
Vinyl chloride	ND		0.90	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	110	71 - 126

Method Blank TICs- Batch: 480-95389

Cas Number	Analyte	RT	Est. Result	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-36659-1

Lab Control Sample - Batch: 480-95389

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 480-95389/4	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2423.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 1117	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 1117				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.1	96	71 - 129	
1,1-Dichloroethene	25.0	24.2	97	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.5	98	76 - 121	
1,2-Dichlorobenzene	25.0	24.3	97	80 - 124	
1,2-Dichloroethane	25.0	25.5	102	75 - 127	
Benzene	25.0	24.8	99	71 - 124	
Chlorobenzene	25.0	25.2	101	72 - 120	
cis-1,2-Dichloroethene	25.0	24.6	99	74 - 124	
Ethylbenzene	25.0	25.2	101	77 - 123	
Methyl tert-butyl ether	25.0	28.3	113	64 - 127	
m-Xylene & p-Xylene	50.0	49.2	98	76 - 122	
o-Xylene	25.0	24.3	97	76 - 122	
Tetrachloroethene	25.0	24.6	98	74 - 122	
Toluene	25.0	24.4	98	80 - 122	
trans-1,2-Dichloroethene	25.0	24.4	98	73 - 127	
Trichloroethene	25.0	24.6	98	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	110	71 - 126

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95389

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29597-F-9 MS	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2445.D
Dilution:	125	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 2015			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 2015				
Leach Date:	N/A				

MSD Lab Sample ID:	480-29597-F-9 MSD	Analysis Batch:	480-95389	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2446.D
Dilution:	125	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/12/2012 2039			Final Weight/Volume:	5 mL
Prep Date:	12/12/2012 2039				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,2,4-Trimethylbenzene	96	95	76 - 121	1	20		
Benzene	106	102	71 - 124	3	13		
Ethylbenzene	94	89	77 - 123	3	15		
Methyl tert-butyl ether	101	101	64 - 127	0	37		
m-Xylene & p-Xylene	79	72	76 - 122	3	16		F
o-Xylene	88	80	76 - 122	3	16		
Toluene	49	43	80 - 122	2	15	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	105	66 - 137
4-Bromofluorobenzene (Surr)	102	102	73 - 120
Toluene-d8 (Surr)	107	112	71 - 126

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-95389

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	480-29597-F-9 MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	125		
Analysis Date:	12/12/2012 2015		
Prep Date:	12/12/2012 2015		
Leach Date:	N/A		

MSD Lab Sample ID:	480-29597-F-9 MSD
Client Matrix:	Water
Dilution:	125
Analysis Date:	12/12/2012 2039
Prep Date:	12/12/2012 2039
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,2,4-Trimethylbenzene	1600		3130	3130	4570		4510	
Benzene	93	J	3130	3130	3400		3290	
Ethylbenzene	2100		3130	3130	5040		4880	
Methyl tert-butyl ether	ND		3130	3130	3170		3160	
m-Xylene & p-Xylene	9400		6250	6250	14300		13900	F
o-Xylene	4400		3130	3130	7140		6910	
Toluene	11000		3130	3130	12200	F	12000	F

Method Blank - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151223/1-A	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2044	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Total	0.0662		0.040	0.040
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060
Magnesium, Total	ND		0.050	0.050
Potassium, Total	ND		1.5	1.5

Method Blank - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151223/1-A	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1129	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Sodium, Total	ND		1.0	1.0

Client: Waste Management

Job Number: 280-36659-1

Lab Control Sample - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151223/2-A	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2047	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Total	50.0	47.8	96	90 - 111	
Cobalt, Total	0.500	0.499	100	89 - 111	
Iron, Total	1.00	0.937	94	89 - 115	
Magnesium, Total	50.0	49.4	99	90 - 113	
Potassium, Total	50.0	54.7	109	89 - 114	

Lab Control Sample - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151223/2-A	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1132	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium, Total	50.0	51.3	103	90 - 115	

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-1	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2055			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-1	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2057			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Total	91	93	48 - 153	2	20		
Cobalt, Total	98	99	82 - 119	1	20		
Iron, Total	90	93	52 - 155	3	20		
Magnesium, Total	95	96	62 - 146	1	20		
Potassium, Total	105	110	76 - 132	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-1	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1139			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-1	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1141			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sodium, Total	91	90	70 - 203	1	20		

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-1	Units: mg/L		MSD Lab Sample ID:	280-36659-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 2055			Analysis Date:	12/12/2012 2057
Prep Date:	12/12/2012 0830			Prep Date:	12/12/2012 0830
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Total	26	50.0	50.0	71.3	72.5
Cobalt, Total	ND	0.500	0.500	0.490	0.497
Iron, Total	0.38	1.00	1.00	1.28	1.31
Magnesium, Total	10	50.0	50.0	57.7	58.4
Potassium, Total	17	50.0	50.0	69.9	72.0

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-1	Units: mg/L		MSD Lab Sample ID:	280-36659-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 1139			Analysis Date:	12/13/2012 1141
Prep Date:	12/12/2012 0830			Prep Date:	12/12/2012 0830
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sodium, Total	86	50.0	50.0	132	131

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151230/1-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2218	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	ND		0.050	0.050
Potassium, Dissolved	ND		1.5	1.5
Sodium, Dissolved	ND		1.0	1.0

Lab Control Sample - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151230/2-A	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2220	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	49.5	99	90 - 111	
Iron, Dissolved	1.00	1.02	102	89 - 115	
Magnesium, Dissolved	50.0	50.3	101	90 - 113	
Potassium, Dissolved	50.0	50.8	102	89 - 114	
Sodium, Dissolved	50.0	53.7	107	90 - 115	

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-1	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2227			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-1	Analysis Batch:	280-151948	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-151230	Lab File ID:	25A4121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2229			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	94	93	48 - 153	0	20		
Iron, Dissolved	95	95	52 - 155	0	20		
Magnesium, Dissolved	95	95	62 - 146	0	20		
Potassium, Dissolved	98	98	76 - 132	0	20		
Sodium, Dissolved	98	94	70 - 203	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151230

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-1	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2012 2227		
Prep Date:	12/12/2012 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36659-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2012 2229
Prep Date:	12/12/2012 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	42	50.0	50.0	88.7	88.6
Iron, Dissolved	0.22	1.00	1.00	1.17	1.18
Magnesium, Dissolved	16	50.0	50.0	64.0	63.9
Potassium, Dissolved	23	50.0	50.0	72.4	72.5
Sodium, Dissolved	140	50.0	50.0	184	182

Method Blank - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151226/1-A	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	148_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2059	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Total	ND		0.0010	0.0010
Arsenic, Total	ND		0.0010	0.0010
Barium, Total	ND		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	ND		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020
Lead, Total	ND		0.0010	0.0010
Manganese, Total	ND		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
Selenium, Total	ND		0.0010	0.0010
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	ND		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151226/2-A	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	149_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2104	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0373	93	85 - 115	
Arsenic, Total	0.0400	0.0395	99	85 - 117	
Barium, Total	0.0400	0.0386	96	85 - 118	
Beryllium, Total	0.0400	0.0392	98	80 - 125	
Cadmium, Total	0.0400	0.0401	100	85 - 115	
Chromium, Total	0.0400	0.0403	101	84 - 121	
Copper, Total	0.0400	0.0407	102	85 - 119	
Lead, Total	0.0400	0.0404	101	85 - 118	
Manganese, Total	0.0400	0.0399	100	85 - 117	
Nickel, Total	0.0400	0.0400	100	85 - 119	
Selenium, Total	0.0400	0.0373	93	77 - 122	
Silver, Total	0.0400	0.0405	101	85 - 115	
Thallium, Total	0.0400	0.0395	99	85 - 118	
Vanadium, Total	0.0400	0.0392	98	85 - 120	
Zinc, Total	0.0400	0.0436	109	83 - 122	

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36736-I-1-B MS	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	152SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2116			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36736-I-1-C MSD	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	153SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2120			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	101	100	85 - 115	1	20		
Arsenic, Total	101	100	85 - 117	1	20		
Barium, Total	97	100	85 - 118	1	20		
Beryllium, Total	104	104	80 - 125	0	20		
Cadmium, Total	99	101	85 - 115	2	20		
Chromium, Total	101	103	84 - 121	2	20		
Copper, Total	98	98	85 - 119	0	20		
Lead, Total	102	103	85 - 118	1	20		
Manganese, Total	106	103	85 - 117	0	20	4	4
Nickel, Total	101	102	85 - 119	1	20		
Selenium, Total	95	96	77 - 122	1	20		
Silver, Total	99	99	85 - 115	0	20		
Vanadium, Total	105	105	85 - 120	0	20		
Zinc, Total	109	107	83 - 122	2	20		

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36736-I-1-B MS	Analysis Batch:	280-152193	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	042SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1355			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36736-I-1-C MSD	Analysis Batch:	280-152193	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151226	Lab File ID:	043SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1400			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Thallium, Total	99	99	85 - 118	0	20	^	^

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36736-I-1-B MS	Units: mg/L	MSD Lab Sample ID:	280-36736-I-1-C MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2012 2116		Analysis Date:	12/12/2012 2120	
Prep Date:	12/12/2012 0830		Prep Date:	12/12/2012 0830	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Total	0.0029	0.0400	0.0400	0.0435		0.0429	
Arsenic, Total	0.0012	0.0400	0.0400	0.0417		0.0414	
Barium, Total	0.11	0.0400	0.0400	0.147		0.149	
Beryllium, Total	ND	0.0400	0.0400	0.0415		0.0415	
Cadmium, Total	ND	0.0400	0.0400	0.0397		0.0404	
Chromium, Total	ND	0.0400	0.0400	0.0405		0.0412	
Copper, Total	ND	0.0400	0.0400	0.0390		0.0391	
Lead, Total	ND	0.0400	0.0400	0.0406		0.0411	
Manganese, Total	0.35	0.0400	0.0400	0.393	4	0.391	4
Nickel, Total	ND	0.0400	0.0400	0.0404		0.0408	
Selenium, Total	ND	0.0400	0.0400	0.0382		0.0385	
Silver, Total	ND	0.0400	0.0400	0.0394		0.0395	
Vanadium, Total	ND	0.0400	0.0400	0.0421		0.0422	
Zinc, Total	ND	0.0400	0.0400	0.0437		0.0430	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151226

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36736-I-1-B MS	Units: mg/L	MSD Lab Sample ID:	280-36736-I-1-C MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/13/2012 1355		Analysis Date:	12/13/2012 1400	
Prep Date:	12/12/2012 0830		Prep Date:	12/12/2012 0830	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Thallium, Total	ND	0.0400	0.0400	0.0397	^	0.0397	^

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-1	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	218SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0151			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-1	Analysis Batch:	280-151968	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-151233	Lab File ID:	219SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 0155			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese, Dissolved	112	83	85 - 117	2	20	4	4
Zinc, Dissolved	102	93	83 - 122	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151233

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-36659-1	Units:	mg/L	MSD Lab Sample ID:	280-36659-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 0151			Analysis Date:	12/13/2012 0155
Prep Date:	12/12/2012 0830			Prep Date:	12/12/2012 0830
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Manganese, Dissolved	0.47	0.0400	0.0400	0.516	4	0.504	4
Zinc, Dissolved	0.083	0.0400	0.0400	0.124		0.121	

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152552/16	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 0934	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152552/13	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 0844	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	100	50 - 150	
Sulfate	1.00	ND	74	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 0900	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152552/15	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 0917	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	92	92	90 - 110	0	10		
Sulfate	94	94	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36659-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-152552/15	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/15/2012 0900		Analysis Date:	12/15/2012 0917	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	23.1	23.1
Sulfate	25.0	25.0	23.5	23.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36766-C-2 MS	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	119.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 1108			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36766-C-2 MSD	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 1125			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	100	102	80 - 120	1	20	E	E
Sulfate	98	101	80 - 120	1	20	E	E

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36766-C-2 MS	Units: mg/L	MSD Lab Sample ID:	280-36766-C-2 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/15/2012 1108		Analysis Date:	12/15/2012 1125	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	32	25.0	25.0	56.8	E	57.3	E
Sulfate	33	25.0	25.0	57.6	E	58.2	E

Duplicate - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36766-C-2 DU	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	118.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2012 1052	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	32	31.4	1	15	
Sulfate	33	33.2	0.6	15	

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-151834

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151834/21	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0759	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151834/19	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0754	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151834/20	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 0757	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia (as N)	99	99	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151834/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151834/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 0754			Analysis Date:	12/12/2012 0757
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia (as N)	2.50	2.50	2.48	2.48

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/12/2012 0850			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-B-1 MSD	Analysis Batch:	280-151834	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121212.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/12/2012 0853			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	103	95	90 - 110	9	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151834

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36664-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 0850			Analysis Date:	12/12/2012 0853
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	ND	1.00	1.00	1.03	0.949

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-151453

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-151453/20	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/10/2012 1231	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate/Nitrite	ND		0.050	0.050

Method Blank - Batch: 280-151453

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-151453/67	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/10/2012 1342	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate/Nitrite	ND		0.050	0.050

Method Reporting Limit Check - Batch: 280-151453

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-151453/18	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 1228	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate/Nitrite	0.100	0.129	129	50 - 150	

Client: Waste Management

Job Number: 280-36659-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151453/21	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 1233	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151453/22	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 1234	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate/Nitrite	100	98	90 - 110	2	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151453/68	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 1343	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151453/69	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/10/2012 1345	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate/Nitrite	99	99	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36659-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151453/21	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151453/22
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2012 1233			Analysis Date:	12/10/2012 1234
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate/Nitrite	5.00	5.00	4.98	4.89

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151453/68	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151453/69
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2012 1343			Analysis Date:	12/10/2012 1345
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate/Nitrite	5.00	5.00	4.97	4.96

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-36781-A-5 MS	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/10/2012 1258			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36781-A-5 MSD	Analysis Batch:	280-151453	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\1210NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/10/2012 1300			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate/Nitrite	98	99	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151453

Method: 353.2
Preparation: N/A

MS Lab Sample ID:	280-36781-A-5 MS	Units:	mg/L	MSD Lab Sample ID:	280-36781-A-5 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2012 1258			Analysis Date:	12/10/2012 1300
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate/Nitrite	2.5	4.00	4.00	6.42	6.42

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-152723

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-152723/5	Analysis Batch:	280-152723	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	12/18/2012 0949	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chemical Oxygen Demand (COD)	ND		10	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152723

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152723/3	Analysis Batch:	280-152723	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/18/2012 0949	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152723/4	Analysis Batch:	280-152723	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/18/2012 0949	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand (COD)	97	94	90 - 110	2	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152723

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152723/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152723/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2012 0949			Analysis Date:	12/18/2012 0949
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand (COD)	100	100	96.7	94.5

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152723

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-36798-B-2 MS	Analysis Batch:	280-152723	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/18/2012 0949			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36798-B-2 MSD	Analysis Batch:	280-152723	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/18/2012 0949			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand (COD)	107	100	90 - 110	6	11		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152723

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-36798-B-2 MS	Units:	mg/L	MSD Lab Sample ID:	280-36798-B-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2012 0949			Analysis Date:	12/18/2012 0949
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand (COD)	ND	50.0	50.0	53.3	50.0

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-151069

Method: 9012A
Preparation: 9012A

Lab Sample ID:	MB 280-151069/5-A	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1548	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Cyanide, Total	ND		0.010	0.010

High Level Control Sample - Batch: 280-151069

Method: 9012A
Preparation: 9012A

Lab Sample ID:	HLCS 280-151069/1-A	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1542	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.400	0.400	100	90 - 110	

Low Level Control Sample - Batch: 280-151069

Method: 9012A
Preparation: 9012A

Lab Sample ID:	LLCS 280-151069/2-A	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1544	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.100	0.0991	99	90 - 110	

Client: Waste Management

Job Number: 280-36659-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151069

Method: 9012A
Preparation: 9012A

LCS Lab Sample ID:	LCS 280-151069/3-A	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1545	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151069/4-A	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1547	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Total	98	102	90 - 110	3	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151069

Method: 9012A
Preparation: 9012A

LCS Lab Sample ID:	LCS 280-151069/3-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151069/4-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2012 1545			Analysis Date:	12/07/2012 1547
Prep Date:	12/07/2012 1206			Prep Date:	12/07/2012 1206
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Cyanide, Total	0.100	0.100	0.0984	0.102

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151069

Method: 9012A
Preparation: 9012A

MS Lab Sample ID:	280-36612-E-4-B MS	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1626			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36612-E-4-C MSD	Analysis Batch:	280-151179	Instrument ID:	WC_Alp 1
Client Matrix:	Water	Prep Batch:	280-151069	Lab File ID:	C:\FLOW_4\CN120712
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2012 1627			Final Weight/Volume:	50 mL
Prep Date:	12/07/2012 1206				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	78	78	90 - 110	0	20	F	F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151069

Method: 9012A
Preparation: 9012A

MS Lab Sample ID:	280-36612-E-4-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/07/2012 1626		
Prep Date:	12/07/2012 1206		
Leach Date:	N/A		

MSD Lab Sample ID:	280-36612-E-4-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/07/2012 1627
Prep Date:	12/07/2012 1206
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	ND	0.100	0.100	0.0776 F	0.0776 F

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152153/33	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 2046	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity, Total (As CaCO3)	ND		5.0	5.0
Alkalinity, Bicarbonate (As CaCO3)	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152153/31	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 2037	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152153/32	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 2042	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	103	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152153/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152153/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2012 2037			Analysis Date:	12/13/2012 2042
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	206	206

Client: Waste Management

Job Number: 280-36659-1

Duplicate - Batch: 280-152153

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36667-A-8 DU	Analysis Batch:	280-152153	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/13/2012 2056	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total (As CaCO3)	470	476	0.5	10	

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-151808

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-151808/1	Analysis Batch:	280-151808	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1149	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151808

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151808/2	Analysis Batch:	280-151808	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1149	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151808/3	Analysis Batch:	280-151808	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1149	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	99	86 - 110	1	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151808

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151808/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151808/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1149			Analysis Date:	12/12/2012 1149
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	497	494

Client: Waste Management

Job Number: 280-36659-1

Duplicate - Batch: 280-151808

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36660-A-9 DU	Analysis Batch:	280-151808	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1149	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	530	531	0.2	10	

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-150869

Method: SM 4500 NO2 B
Preparation: N/A

Lab Sample ID:	MB 280-150869/5	Analysis Batch:	280-150869	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/06/2012 1548	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrite as N	ND		0.050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-150869

Method: SM 4500 NO2 B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-150869/3	Analysis Batch:	280-150869	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/06/2012 1548	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-150869/4	Analysis Batch:	280-150869	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/06/2012 1548	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrite as N	93	93	84 - 113	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-150869

Method: SM 4500 NO2 B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-150869/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-150869/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/06/2012 1548			Analysis Date:	12/06/2012 1548
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrite as N	0.0500	0.0500	ND	ND

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150869

Method: SM 4500 NO2 B
Preparation: N/A

MS Lab Sample ID:	280-36664-A-1 MS	Analysis Batch:	280-150869	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/06/2012 1548			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-A-1 MSD	Analysis Batch:	280-150869	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/06/2012 1548			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrite as N	0	0	57 - 115	NC	13	F	F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-150869

Method: SM 4500 NO2 B
Preparation: N/A

MS Lab Sample ID:	280-36664-A-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36664-A-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/06/2012 1548			Analysis Date:	12/06/2012 1548
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Nitrite as N	ND	0.0500	0.0500	ND	F	ND	F

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152558/5	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 2125	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 2049	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152558/4	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 2107	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152558/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2049			Analysis Date:	12/14/2012 2107
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.6	24.6

Client: Waste Management

Job Number: 280-36659-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 2218			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-B-1 MSD	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/14/2012 2235			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36664-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2218			Analysis Date:	12/14/2012 2235
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	1.3	25.0	25.0	25.8	25.7

Client: Waste Management

Job Number: 280-36659-1

Method Blank - Batch: 280-150840

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-150840/6	Analysis Batch:	280-150840	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/06/2012 1355	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Biochemical Oxygen Demand	ND		2.0	2.0

Lab Control Sample - Batch: 280-150840

Method: SM5210B
Preparation: N/A

Lab Sample ID:	LCS 280-150840/4	Analysis Batch:	280-150840	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/06/2012 1355	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	153	77	85 - 115	*

Duplicate - Batch: 280-150840

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-36659-1	Analysis Batch:	280-150840	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/06/2012 1355	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Biochemical Oxygen Demand	>3.67	ND	NC	20	*

Client: Waste Management Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: 280-36659-1 **Client ID:** L-INF

Sample Date/Time: 12/05/2012 15:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36659-G-1		480-95389		12/12/2012 13:34	1	TAL BUF	RL
A:8260B	280-36659-G-1		480-95389		12/12/2012 13:34	1	TAL BUF	RL
P:3005A	280-36659-E-1-E		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-E		280-152000	280-151223	12/12/2012 20:49	1	TAL DEN	HEB
P:3005A	280-36659-F-1-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-F-1-A		280-151948	280-151230	12/12/2012 22:22	1	TAL DEN	JKH
P:3005A	280-36659-E-1-E		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-E		280-152197	280-151223	12/13/2012 11:34	1	TAL DEN	HEB
P:3005A	280-36659-E-1-H		280-151968	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-E-1-H		280-151968	280-151226	12/12/2012 21:29	1	TAL DEN	LT
P:3005A	280-36659-F-1-D		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-D		280-151968	280-151233	12/13/2012 01:42	1	TAL DEN	LT
P:3005A	280-36659-E-1-H		280-152193	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-E-1-H		280-152193	280-151226	12/13/2012 14:09	1	TAL DEN	LT
A:300.0	280-36659-A-1		280-152552		12/15/2012 13:56	5	TAL DEN	EK
A:350.1	280-36659-C-1		280-151834		12/12/2012 09:23	50	TAL DEN	BMG
A:353.2	280-36659-B-1		280-151453		12/10/2012 14:06	1	TAL DEN	SJS
A:410.4	280-36659-C-1		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	280-36659-D-1-A		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	280-36659-D-1-A		280-151179	280-151069	12/07/2012 16:30	1	TAL DEN	LMK
A:SM 2320B	280-36659-A-1		280-152153		12/13/2012 21:15	1	TAL DEN	DA
A:SM 2540C	280-36659-B-1		280-151808		12/12/2012 11:49	1	TAL DEN	SB
A:SM 4500 NO2 B	280-36659-B-1		280-150869		12/06/2012 15:50	5	TAL DEN	SG
A:SM 5310B	280-36659-C-1		280-152558		12/14/2012 21:42	1	TAL DEN	DFB
A:SM5210B	280-36659-A-1		280-150840		12/06/2012 13:55	5	TAL DEN	AK

Lab ID: 280-36659-1 MS **Client ID:** L-INF

Sample Date/Time: 12/05/2012 15:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36659-E-1-F MS		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-F MS		280-152000	280-151223	12/12/2012 20:55	1	TAL DEN	HEB
P:3005A	280-36659-F-1-B MS		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-F-1-B MS		280-151948	280-151230	12/12/2012 22:27	1	TAL DEN	JKH
P:3005A	280-36659-E-1-F MS		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-F MS		280-152197	280-151223	12/13/2012 11:39	1	TAL DEN	HEB
P:3005A	280-36659-F-1-E MS		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-E MS		280-151968	280-151233	12/13/2012 01:51	1	TAL DEN	LT

Client: Waste Management Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: **280-36659-1 MSD** **Client ID:** **L-INF**

Sample Date/Time: 12/05/2012 15:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36659-E-1-G MSD		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-G MSD		280-152000	280-151223	12/12/2012 20:57	1	TAL DEN	HEB
P:3005A	280-36659-F-1-C MSD		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-F-1-C MSD		280-151948	280-151230	12/12/2012 22:29	1	TAL DEN	JKH
P:3005A	280-36659-E-1-G MSD		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-G MSD		280-152197	280-151223	12/13/2012 11:41	1	TAL DEN	HEB
P:3005A	280-36659-F-1-F MSD		280-151968	280-151233	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36659-F-1-F MSD		280-151968	280-151233	12/13/2012 01:55	1	TAL DEN	LT

Lab ID: **280-36659-1 DU** **Client ID:** **L-INF**

Sample Date/Time: 12/05/2012 15:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM5210B	280-36659-A-1 DU		280-150840		12/06/2012 13:55	5	TAL DEN	AK

Client: Waste Management

Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-95389/5		480-95389		12/12/2012 11:41	1	TAL BUF	RL
A:8260B	MB 480-95389/5		480-95389		12/12/2012 11:41	1	TAL BUF	RL
P:3005A	MB 280-151223/1-A		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151223/1-A		280-152000	280-151223	12/12/2012 20:44	1	TAL DEN	HEB
P:3005A	MB 280-151230/1-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151230/1-A		280-151948	280-151230	12/12/2012 22:18	1	TAL DEN	JKH
P:3005A	MB 280-151223/1-A		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151223/1-A		280-152197	280-151223	12/13/2012 11:29	1	TAL DEN	HEB
P:3005A	MB 280-151226/1-A		280-151968	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	MB 280-151226/1-A		280-151968	280-151226	12/12/2012 20:59	1	TAL DEN	LT
A:300.0	MB 280-152552/16		280-152552		12/15/2012 09:34	1	TAL DEN	EK
A:350.1	MB 280-151834/21		280-151834		12/12/2012 07:59	1	TAL DEN	BMG
A:353.2	MB 280-151453/20		280-151453		12/10/2012 12:31	1	TAL DEN	SJS
A:353.2	MB 280-151453/67		280-151453		12/10/2012 13:42	1	TAL DEN	SJS
A:410.4	MB 280-152723/5		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	MB 280-151069/5-A		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	MB 280-151069/5-A		280-151179	280-151069	12/07/2012 15:48	1	TAL DEN	LMK
A:SM 2320B	MB 280-152153/33		280-152153		12/13/2012 20:46	1	TAL DEN	DA
A:SM 2540C	MB 280-151808/1		280-151808		12/12/2012 11:49	1	TAL DEN	SB
A:SM 4500 NO2 B	MB 280-150869/5		280-150869		12/06/2012 15:48	1	TAL DEN	SG
A:SM 5310B	MB 280-152558/5		280-152558		12/14/2012 21:25	1	TAL DEN	DFB
A:SM5210B	MB 280-150840/6		280-150840		12/06/2012 13:55	1	TAL DEN	AK

Client: Waste Management Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-95389/4		480-95389		12/12/2012 11:17	1	TAL BUF	RL
A:8260B	LCS 480-95389/4		480-95389		12/12/2012 11:17	1	TAL BUF	RL
P:3005A	LCS 280-151223/2-A		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151223/2-A		280-152000	280-151223	12/12/2012 20:47	1	TAL DEN	HEB
P:3005A	LCS 280-151230/2-A		280-151948	280-151230	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151230/2-A		280-151948	280-151230	12/12/2012 22:20	1	TAL DEN	JKH
P:3005A	LCS 280-151223/2-A		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151223/2-A		280-152197	280-151223	12/13/2012 11:32	1	TAL DEN	HEB
P:3005A	LCS 280-151226/2-A		280-151968	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	LCS 280-151226/2-A		280-151968	280-151226	12/12/2012 21:04	1	TAL DEN	LT
A:300.0	LCS 280-152552/14		280-152552		12/15/2012 09:00	1	TAL DEN	EK
A:350.1	LCS 280-151834/19		280-151834		12/12/2012 07:54	1	TAL DEN	BMG
A:353.2	LCS 280-151453/21		280-151453		12/10/2012 12:33	1	TAL DEN	SJS
A:353.2	LCS 280-151453/68		280-151453		12/10/2012 13:43	1	TAL DEN	SJS
A:410.4	LCS 280-152723/3		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	LCS 280-151069/3-A		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	LCS 280-151069/3-A		280-151179	280-151069	12/07/2012 15:45	1	TAL DEN	LMK
A:SM 2320B	LCS 280-152153/31		280-152153		12/13/2012 20:37	1	TAL DEN	DA
A:SM 2540C	LCS 280-151808/2		280-151808		12/12/2012 11:49	1	TAL DEN	SB
A:SM 4500 NO2 B	LCS 280-150869/3		280-150869		12/06/2012 15:48	1	TAL DEN	SG
A:SM 5310B	LCS 280-152558/3		280-152558		12/14/2012 20:49	1	TAL DEN	DFB
A:SM5210B	LCS 280-150840/4		280-150840		12/06/2012 13:55	1	TAL DEN	AK

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-152552/15		280-152552		12/15/2012 09:17	1	TAL DEN	EK
A:350.1	LCSD 280-151834/20		280-151834		12/12/2012 07:57	1	TAL DEN	BMG
A:353.2	LCSD 280-151453/22		280-151453		12/10/2012 12:34	1	TAL DEN	SJS
A:353.2	LCSD 280-151453/69		280-151453		12/10/2012 13:45	1	TAL DEN	SJS
A:410.4	LCSD 280-152723/4		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	LCSD 280-151069/4-A		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	LCSD 280-151069/4-A		280-151179	280-151069	12/07/2012 15:47	1	TAL DEN	LMK
A:SM 2320B	LCSD 280-152153/32		280-152153		12/13/2012 20:42	1	TAL DEN	DA
A:SM 2540C	LCSD 280-151808/3		280-151808		12/12/2012 11:49	1	TAL DEN	SB
A:SM 4500 NO2 B	LCSD 280-150869/4		280-150869		12/06/2012 15:48	1	TAL DEN	SG
A:SM 5310B	LCSD 280-152558/4		280-152558		12/14/2012 21:07	1	TAL DEN	DFB
A:SM5210B	LCSD 280-150840/5		280-150840		12/06/2012 13:55	1	TAL DEN	AK

Client: Waste Management Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: LLCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012A	LLCS 280-151069/2-A		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	LLCS 280-151069/2-A		280-151179	280-151069	12/07/2012 15:44	1	TAL DEN	LMK

Lab ID: HLCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:9012A	HLCS 280-151069/1-A		280-151179	280-151069	12/07/2012 12:06	2	TAL DEN	LMK
A:9012A	HLCS 280-151069/1-A		280-151179	280-151069	12/07/2012 15:42	2	TAL DEN	LMK

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-152552/13		280-152552		12/15/2012 08:44	1	TAL DEN	EK
A:353.2	MRL 280-151453/18		280-151453		12/10/2012 12:28	1	TAL DEN	SJS

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29597-F-9 MS		480-95389		12/12/2012 20:15	125	TAL BUF	RL
A:8260B	480-29597-F-9 MS		480-95389		12/12/2012 20:15	125	TAL BUF	RL
P:3005A	280-36736-I-1-B MS		280-151968	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36736-I-1-B MS		280-151968	280-151226	12/12/2012 21:16	1	TAL DEN	LT
P:3005A	280-36736-I-1-B MS		280-152193	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36736-I-1-B MS		280-152193	280-151226	12/13/2012 13:55	1	TAL DEN	LT
A:300.0	280-36766-C-2 MS		280-152552		12/15/2012 11:08	1	TAL DEN	EK
A:350.1	280-36664-B-1 MS		280-151834		12/12/2012 08:50	1	TAL DEN	BMG
A:353.2	280-36781-A-5 MS		280-151453		12/10/2012 12:58	1	TAL DEN	SJS
A:410.4	280-36798-B-2 MS		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	280-36612-E-4-B MS		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	280-36612-E-4-B MS		280-151179	280-151069	12/07/2012 16:26	1	TAL DEN	LMK
A:SM 4500 NO2 B	280-36664-A-1 MS		280-150869		12/06/2012 15:48	1	TAL DEN	SG
A:SM 5310B	280-36664-B-1 MS		280-152558		12/14/2012 22:18	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36659-1

Laboratory Chronicle

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-29597-F-9 MSD		480-95389		12/12/2012 20:39	125	TAL BUF	RL
A:8260B	480-29597-F-9 MSD		480-95389		12/12/2012 20:39	125	TAL BUF	RL
P:3005A	280-36736-I-1-C MSD		280-151968	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36736-I-1-C MSD		280-151968	280-151226	12/12/2012 21:20	1	TAL DEN	LT
P:3005A	280-36736-I-1-C MSD		280-152193	280-151226	12/12/2012 08:30	1	TAL DEN	RC
A:6020	280-36736-I-1-C MSD		280-152193	280-151226	12/13/2012 14:00	1	TAL DEN	LT
A:300.0	280-36766-C-2 MSD		280-152552		12/15/2012 11:25	1	TAL DEN	EK
A:350.1	280-36664-B-1 MSD		280-151834		12/12/2012 08:53	1	TAL DEN	BMG
A:353.2	280-36781-A-5 MSD		280-151453		12/10/2012 13:00	1	TAL DEN	SJS
A:410.4	280-36798-B-2 MSD		280-152723		12/18/2012 09:49	1	TAL DEN	DFB
P:9012A	280-36612-E-4-C MSD		280-151179	280-151069	12/07/2012 12:06	1	TAL DEN	LMK
A:9012A	280-36612-E-4-C MSD		280-151179	280-151069	12/07/2012 16:27	1	TAL DEN	LMK
A:SM 4500 NO2 B	280-36664-A-1 MSD		280-150869		12/06/2012 15:48	1	TAL DEN	SG
A:SM 5310B	280-36664-B-1 MSD		280-152558		12/14/2012 22:35	1	TAL DEN	DFB

Lab ID: DU **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36766-C-2 DU		280-152552		12/15/2012 10:52	1	TAL DEN	EK
A:SM 2320B	280-36667-A-8 DU		280-152153		12/13/2012 20:56	1	TAL DEN	DA
A:SM 2540C	280-36660-A-9 DU		280-151808		12/12/2012 11:49	1	TAL DEN	SB

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

Colorado Analytical
LABORATORIES, INC.

Analytical Results

TASK NO: 121207016

Report To: Betsy Sara
Company: Test America
4955 Yarrow St
Arvada CO 80002

Bill To: Betsy Sara
Company: Test America
4955 Yarrow St
Arvada CO 80002

Task No.: 121207016
Client PO:
Client Project: WA02 Olympic View Sanitary LF
28002692

Date Received: 12/7/12
Date Reported: 12/11/12
Matrix: Wastewater

Customer Sample ID L-INF (280-36659-1)
Sample Date/Time: 12/5/12 3:20 PM
Lab Number: 121207016-01

Test	Result	Method	LQL	Date Analyzed	Analyzed By
Total Coliform	**4590 mpn/100ml**	SM 9221-B	1	12/8/12	VDB

Abbreviations/ References:

LQL = Lower Quantification Limit
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed
SM = "Standard Methods for the Examination of Water and Wastewater"; APHA; 19th Edition; 1995
EPA = "Methods of Chemical Analysis of Water and Wastes"; USEPA; EPA-600/4-79-020 Rev 3/83

DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 2-4 INI SC 12/6

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: SCS Engineers	Project Manager: Emily Smart	Date: 12/5/12	Chain of Custody Number: 156106
Address: 2405 140th Ave NE	Telephone Number (Area Code)/Fax Number: 425 289 5483	Lab Number	Page 1 of 1
City: Bellevue / State: WA / Zip Code: 98005	Site Contact	Lab Contact: Betty Sewa	
Project Name and Location (State): OVSL (WA)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Sodium Thiosulfate	Analysis: ALK	TDS	Cl and SO4	NO2+NO3	COD & BOD	Ammonia NH3	Total Metals	Diss. Metals	Total Calcium	VOC	SVOC	Total Cyanide	Special Instructions/ Conditions of Receipt
L INF	12/5/12	1520		X			2	2	2	3	1		1	X	X	X	X	X	X	X	X	X	X	X	X	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By	Date 12/5/12	Time 1530	1. Received By Tom Underwood	Date 12-6-12	Time 930
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments CS# 730201

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36659-1

Login Number: 36659

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. Sufficient sample in containers for sample analysis
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36659-1

Login Number: 36659
List Number: 1
Creator: Robison, Zachary

List Source: TestAmerica Buffalo
List Creation: 12/07/12 04:30 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36725-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
2400 West Union Avenue
Englewood, CO 80110

Attention: Mr. Steve Richtel

Approved for release.
Betsy A Sara
Project Manager II
12/21/2012 10:15 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/21/2012

cc: Mr. Sam Adlington
Mr. Charles Luckie
Ms. Emily Smart
Mr. Dan Venchiarutti

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-36725-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The sample was received on 12/06/2012; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.8 C.

Holding Times

All holding times were within established control limits.

Method Blanks

Total Calcium Method 6010B was detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Total Calcium is below TestAmerica Denver's standard reporting limit and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below TestAmerica Denver's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

All MS and MSD samples were within established control limits.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-36725-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36725-1	**LP-LCD**					
Specific Conductivity		3110			umhos/cm	Field Sampling
Dissolved Oxygen		6.41			mg/L	Field Sampling
eH		-33.8			millivolts	Field Sampling
Temperature		11.18			Degrees C	Field Sampling
pH		7.11			SU	Field Sampling
Chloride		890		20	mg/L	300.0
Sulfate		230		20	mg/L	300.0
Ammonia (as N)		17		0.30	mg/L	350.1
Alkalinity		1200		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		1200		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		3200		20	mg/L	SM 2540C
Total Organic Carbon - Average		96		2.5	mg/L	SM 5310B
Total Recoverable						
Calcium, Total		62	B	0.040	mg/L	6010B
Iron, Total		1.0		0.060	mg/L	6010B
Magnesium, Total		38		0.050	mg/L	6010B
Manganese, Total		1.5		0.050	mg/L	6010B
Potassium, Total		78		1.0	mg/L	6010B
Sodium, Total		960		10	mg/L	6010B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-36725-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-36725-1

Method	Analyst	Analyst ID
SW846 6010B	Bowen, Heidi E	HEB
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Gilbert, Bryan M	BMG
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Blythe, Scott	SB
SM SM 5310B	Bandy, Darlene F	DFB

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-36725-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36725-1	LP-LCD	Water	12/05/2012 1115	12/06/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-36725-1

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-36725-1
Client Matrix: Water

Date Sampled: 12/05/2012 1115
Date Received: 12/06/2012 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-152000	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2059			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Total	62	B	0.040	0.040
Iron, Total	1.0		0.060	0.060
Magnesium, Total	38		0.050	0.050
Manganese, Total	1.5		0.050	0.050
Potassium, Total	78		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-152197	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1144			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Sodium, Total	960		10	10

General Chemistry

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-36725-1 Date Sampled: 12/05/2012 1115
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	890		mg/L	20	20	20	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1752						
Sulfate	230		mg/L	20	20	20	300.0
Analysis Batch: 280-152552	Analysis Date: 12/15/2012 1752						
Ammonia (as N)	17		mg/L	0.30	0.30	10	350.1
Analysis Batch: 280-151637	Analysis Date: 12/11/2012 1107						
Alkalinity	1200		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152250	Analysis Date: 12/14/2012 0538						
Bicarbonate Alkalinity as CaCO3	1200		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152250	Analysis Date: 12/14/2012 0538						
Alkalinity, Carbonate (As CaCO3)	ND		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-152250	Analysis Date: 12/14/2012 0538						
Total Dissolved Solids (TDS)	3200		mg/L	20	20	1.0	SM 2540C
Analysis Batch: 280-151829	Analysis Date: 12/12/2012 1242						
Total Organic Carbon - Average	96		mg/L	2.5	2.5	2.5	SM 5310B
Analysis Batch: 280-152558	Analysis Date: 12/15/2012 0140						

Field Service / Mobile Lab

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-36725-1 Date Sampled: 12/05/2012 1115
Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Specific Conductivity	3110		umhos/cm	1.0	Field Sampling	280-151335	12/05/2012 1115
Dissolved Oxygen	6.41		mg/L	1.0	Field Sampling	280-151335	12/05/2012 1115
eH	-33.8		millivolts	1.0	Field Sampling	280-151335	12/05/2012 1115
Temperature	11.18		Degrees C	1.0	Field Sampling	280-151335	12/05/2012 1115
pH	7.11		SU	1.0	Field Sampling	280-151335	12/05/2012 1115

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-36725-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-36725-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-151223					
LCS 280-151223/2-A	Lab Control Sample	R	Water	3005A	
MB 280-151223/1-A	Method Blank	R	Water	3005A	
280-36659-E-1-F MS	Matrix Spike	R	Water	3005A	
280-36659-E-1-G MSD	Matrix Spike Duplicate	R	Water	3005A	
280-36725-1	LP-LCD	R	Water	3005A	
Analysis Batch:280-152000					
LCS 280-151223/2-A	Lab Control Sample	R	Water	6010B	280-151223
MB 280-151223/1-A	Method Blank	R	Water	6010B	280-151223
280-36659-E-1-F MS	Matrix Spike	R	Water	6010B	280-151223
280-36659-E-1-G MSD	Matrix Spike Duplicate	R	Water	6010B	280-151223
280-36725-1	LP-LCD	R	Water	6010B	280-151223
Analysis Batch:280-152197					
LCS 280-151223/2-A	Lab Control Sample	R	Water	6010B	280-151223
MB 280-151223/1-A	Method Blank	R	Water	6010B	280-151223
280-36659-E-1-F MS	Matrix Spike	R	Water	6010B	280-151223
280-36659-E-1-G MSD	Matrix Spike Duplicate	R	Water	6010B	280-151223
280-36725-1	LP-LCD	R	Water	6010B	280-151223

Report Basis

R = Total Recoverable

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-151335					
280-36725-1	LP-LCD	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-36725-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-151637					
LCS 280-151637/65	Lab Control Sample	T	Water	350.1	
LCSD 280-151637/26	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-151637/66	Method Blank	T	Water	350.1	
280-36660-B-1 MS	Matrix Spike	T	Water	350.1	
280-36660-B-1 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-36725-1	LP-LCD	T	Water	350.1	
Analysis Batch:280-151829					
LCS 280-151829/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-151829/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-151829/1	Method Blank	T	Water	SM 2540C	
280-36689-A-1 DU	Duplicate	T	Water	SM 2540C	
280-36725-1	LP-LCD	T	Water	SM 2540C	
Analysis Batch:280-152250					
LCS 280-152250/61	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-152250/62	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-152250/63	Method Blank	T	Water	SM 2320B	
280-36551-B-11 DU	Duplicate	T	Water	SM 2320B	
280-36725-1	LP-LCD	T	Water	SM 2320B	
Analysis Batch:280-152552					
LCS 280-152552/14	Lab Control Sample	T	Water	300.0	
LCSD 280-152552/15	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-152552/16	Method Blank	T	Water	300.0	
280-36664-A-4 DU	Duplicate	T	Water	300.0	
280-36664-A-4 MS	Matrix Spike	T	Water	300.0	
280-36664-A-4 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-36725-1	LP-LCD	T	Water	300.0	
Analysis Batch:280-152558					
LCS 280-152558/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-152558/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-152558/5	Method Blank	T	Water	SM 5310B	
280-36664-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-36664-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-36725-1	LP-LCD	T	Water	SM 5310B	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151223/1-A	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2044	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Total	0.0662		0.040	0.040
Iron, Total	ND		0.060	0.060
Magnesium, Total	ND		0.050	0.050
Manganese, Total	ND		0.050	0.050
Potassium, Total	ND		1.0	1.0

Method Blank - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-151223/1-A	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1129	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Sodium, Total	ND		1.0	1.0

Client: Waste Management

Job Number: 280-36725-1

Lab Control Sample - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151223/2-A	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2047	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Total	50.0	47.8	96	90 - 111	
Iron, Total	1.00	0.937	94	89 - 115	
Magnesium, Total	50.0	49.4	99	90 - 113	
Manganese, Total	0.500	0.502	100	90 - 110	
Potassium, Total	50.0	54.7	109	89 - 114	

Lab Control Sample - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-151223/2-A	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1132	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium, Total	50.0	51.3	103	90 - 115	

Client: Waste Management

Job Number: 280-36725-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-E-1-F MS	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2055			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-E-1-G MSD	Analysis Batch:	280-152000	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26C121212.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 2057			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Total	91	93	48 - 153	2	20		
Iron, Total	90	93	52 - 155	3	20		
Magnesium, Total	95	96	62 - 146	1	20		
Manganese, Total	95	98	79 - 121	2	20		
Potassium, Total	105	110	76 - 132	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-E-1-F MS	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1139			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36659-E-1-G MSD	Analysis Batch:	280-152197	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-151223	Lab File ID:	26A121312.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2012 1141			Final Weight/Volume:	50 mL
Prep Date:	12/12/2012 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sodium, Total	91	90	70 - 203	1	20		

Client: Waste Management

Job Number: 280-36725-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-E-1-F MS	Units: mg/L	MSD Lab Sample ID:	280-36659-E-1-G MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2012 2055		Analysis Date:	12/12/2012 2057	
Prep Date:	12/12/2012 0830		Prep Date:	12/12/2012 0830	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Total	26	50.0	50.0	71.3	72.5
Iron, Total	0.38	1.00	1.00	1.28	1.31
Magnesium, Total	10	50.0	50.0	57.7	58.4
Manganese, Total	0.34	0.500	0.500	0.814	0.827
Potassium, Total	17	50.0	50.0	69.9	72.0

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151223

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-36659-E-1-F MS	Units: mg/L	MSD Lab Sample ID:	280-36659-E-1-G MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/13/2012 1139		Analysis Date:	12/13/2012 1141	
Prep Date:	12/12/2012 0830		Prep Date:	12/12/2012 0830	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sodium, Total	86	50.0	50.0	132	131

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-152552/16	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0934	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Chloride	ND		1.0	1.0
Sulfate	ND		1.0	1.0

Method Reporting Limit Check - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-152552/13	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0844	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	ND	100	50 - 150	
Sulfate	1.00	ND	74	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0900	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152552/15	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 0917	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	92	92	90 - 110	0	10		
Sulfate	94	94	90 - 110	0	10		

Client: Waste Management

Job Number: 280-36725-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152552/14	Units: mg/L		LCSD Lab Sample ID:	LCSD 280-152552/15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2012 0900			Analysis Date:	12/15/2012 0917
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	23.1	23.1
Sulfate	25.0	25.0	23.5	23.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36664-A-4 MS	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	136.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1554			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-A-4 MSD	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	137.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1611			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	104	106	80 - 120	1	20		
Sulfate	102	105	80 - 120	2	20		

Client: Waste Management

Job Number: 280-36725-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152552

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36664-A-4 MS	Units: mg/L	MSD Lab Sample ID:	280-36664-A-4 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/15/2012 1554		Analysis Date:	12/15/2012 1611	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	12	25.0	25.0	38.5	38.8
Sulfate	16	25.0	25.0	42.0	42.8

Duplicate - Batch: 280-152552

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36664-A-4 DU	Analysis Batch:	280-152552	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	135.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/15/2012 1537	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	12	12.4	0.02	15	
Sulfate	16	16.5	0.4	15	

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-151637

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-151637/66	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 1025	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample - Batch: 280-151637

Method: 350.1
Preparation: N/A

Lab Sample ID:	LCS 280-151637/65	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2012 1023	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	2.50	2.58	103	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36660-B-1 MS	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1030			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36660-B-1 MSD	Analysis Batch:	280-151637	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121112.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1032			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	102	101	90 - 110	1	10		

Client: Waste Management

Job Number: 280-36725-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151637

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-36660-B-1 MS	Units: mg/L	MSD Lab Sample ID:	280-36660-B-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/11/2012 1030		Analysis Date:	12/11/2012 1032	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	ND	1.00	1.00	1.02	1.01

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-152250

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-152250/63	Analysis Batch:	280-152250	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 0507	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Alkalinity	ND		5.0	5.0
Bicarbonate Alkalinity as CaCO3	ND		5.0	5.0
Alkalinity, Carbonate (As CaCO3)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152250

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152250/61	Analysis Batch:	280-152250	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 0458	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152250/62	Analysis Batch:	280-152250	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 0503	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity	103	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152250

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152250/61	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152250/62
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 0458			Analysis Date:	12/14/2012 0503
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity	200	200	207	206

Client: Waste Management

Job Number: 280-36725-1

Duplicate - Batch: 280-152250

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-36551-B-11 DU	Analysis Batch:	280-152250	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121312a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 0517	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	190	185	0.3	10	

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-151829

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-151829/1	Analysis Batch:	280-151829	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1242	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151829

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151829/2	Analysis Batch:	280-151829	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1242	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151829/3	Analysis Batch:	280-151829	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2012 1242	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	101	99	86 - 110	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151829

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151829/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151829/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2012 1242			Analysis Date:	12/12/2012 1242
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	506	495

Client: Waste Management

Job Number: 280-36725-1

Duplicate - Batch: 280-151829

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-36689-A-1 DU	Analysis Batch:	280-151829	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2012 1242	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids (TDS)	1500	1440	1	10	

Client: Waste Management

Job Number: 280-36725-1

Method Blank - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-152558/5	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2125	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon - Average	ND		1.0	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2049	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-152558/4	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2107	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-152558/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-152558/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2049			Analysis Date:	12/14/2012 2107
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.6	24.6

Client: Waste Management

Job Number: 280-36725-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2218			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36664-B-1 MSD	Analysis Batch:	280-152558	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/14/2012 2235			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	98	98	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-152558

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-36664-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-36664-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/14/2012 2218			Analysis Date:	12/14/2012 2235
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	1.3	25.0	25.0	25.8	25.7

Client: Waste Management Job Number: 280-36725-1

Laboratory Chronicle

Lab ID: 280-36725-1 **Client ID:** LP-LCD

Sample Date/Time: 12/05/2012 11:15 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36725-D-1-A		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36725-D-1-A		280-152000	280-151223	12/12/2012 20:59	1	TAL DEN	HEB
P:3005A	280-36725-D-1-A ^10		280-152197	280-151223	12/12/2012 08:30	10	TAL DEN	RC
A:6010B	280-36725-D-1-A ^10		280-152197	280-151223	12/13/2012 11:44	10	TAL DEN	HEB
A:300.0	280-36725-A-1		280-152552		12/15/2012 17:52	20	TAL DEN	EK
A:350.1	280-36725-B-1		280-151637		12/11/2012 11:07	10	TAL DEN	BMG
A:SM 2320B	280-36725-A-1		280-152250		12/14/2012 05:38	1	TAL DEN	DA
A:SM 2540C	280-36725-A-1		280-151829		12/12/2012 12:42	1	TAL DEN	SB
A:SM 5310B	280-36725-B-1		280-152558		12/15/2012 01:40	2.5	TAL DEN	DFB
A:Field Sampling	280-36725-A-1		280-151335		12/05/2012 11:15	1	TAL DEN	FS

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	MB 280-151223/1-A		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151223/1-A		280-152000	280-151223	12/12/2012 20:44	1	TAL DEN	HEB
P:3005A	MB 280-151223/1-A		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	MB 280-151223/1-A		280-152197	280-151223	12/13/2012 11:29	1	TAL DEN	HEB
A:300.0	MB 280-152552/16		280-152552		12/15/2012 09:34	1	TAL DEN	EK
A:350.1	MB 280-151637/66		280-151637		12/11/2012 10:25	1	TAL DEN	BMG
A:SM 2320B	MB 280-152250/63		280-152250		12/14/2012 05:07	1	TAL DEN	DA
A:SM 2540C	MB 280-151829/1		280-151829		12/12/2012 12:42	1	TAL DEN	SB
A:SM 5310B	MB 280-152558/5		280-152558		12/14/2012 21:25	1	TAL DEN	DFB

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	LCS 280-151223/2-A		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151223/2-A		280-152000	280-151223	12/12/2012 20:47	1	TAL DEN	HEB
P:3005A	LCS 280-151223/2-A		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	LCS 280-151223/2-A		280-152197	280-151223	12/13/2012 11:32	1	TAL DEN	HEB
A:300.0	LCS 280-152552/14		280-152552		12/15/2012 09:00	1	TAL DEN	EK
A:350.1	LCS 280-151637/65		280-151637		12/11/2012 10:23	1	TAL DEN	BMG
A:SM 2320B	LCS 280-152250/61		280-152250		12/14/2012 04:58	1	TAL DEN	DA
A:SM 2540C	LCS 280-151829/2		280-151829		12/12/2012 12:42	1	TAL DEN	SB
A:SM 5310B	LCS 280-152558/3		280-152558		12/14/2012 20:49	1	TAL DEN	DFB

Client: Waste Management Job Number: 280-36725-1

Laboratory Chronicle

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-152552/15		280-152552		12/15/2012 09:17	1	TAL DEN	EK
A:350.1	LCSD 280-151637/26		280-151637		12/11/2012 08:47	1	TAL DEN	BMG
A:SM 2320B	LCSD 280-152250/62		280-152250		12/14/2012 05:03	1	TAL DEN	DA
A:SM 2540C	LCSD 280-151829/3		280-151829		12/12/2012 12:42	1	TAL DEN	SB
A:SM 5310B	LCSD 280-152558/4		280-152558		12/14/2012 21:07	1	TAL DEN	DFB

Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-152552/13		280-152552		12/15/2012 08:44	1	TAL DEN	EK

Lab ID: MS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36659-E-1-F MS		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-F MS		280-152000	280-151223	12/12/2012 20:55	1	TAL DEN	HEB
P:3005A	280-36659-E-1-F MS		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-F MS		280-152197	280-151223	12/13/2012 11:39	1	TAL DEN	HEB
A:300.0	280-36664-A-4 MS		280-152552		12/15/2012 15:54	1	TAL DEN	EK
A:350.1	280-36660-B-1 MS		280-151637		12/11/2012 10:30	1	TAL DEN	BMG
A:SM 5310B	280-36664-B-1 MS		280-152558		12/14/2012 22:18	1	TAL DEN	DFB

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-36659-E-1-G MSD		280-152000	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-G MSD		280-152000	280-151223	12/12/2012 20:57	1	TAL DEN	HEB
P:3005A	280-36659-E-1-G MSD		280-152197	280-151223	12/12/2012 08:30	1	TAL DEN	RC
A:6010B	280-36659-E-1-G MSD		280-152197	280-151223	12/13/2012 11:41	1	TAL DEN	HEB
A:300.0	280-36664-A-4 MSD		280-152552		12/15/2012 16:11	1	TAL DEN	EK
A:350.1	280-36660-B-1 MSD		280-151637		12/11/2012 10:32	1	TAL DEN	BMG
A:SM 5310B	280-36664-B-1 MSD		280-152558		12/14/2012 22:35	1	TAL DEN	DFB

Client: Waste Management

Job Number: 280-36725-1

Laboratory Chronicle

Lab ID: DU **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36664-A-4 DU		280-152552		12/15/2012 15:37	1	TAL DEN	EK
A:SM 2320B	280-36551-B-11 DU		280-152250		12/14/2012 05:17	1	TAL DEN	DA
A:SM 2540C	280-36689-A-1 DU		280-151829		12/12/2012 12:42	1	TAL DEN	SB

Lab References:

TAL DEN = TestAmerica Denver

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 2-8 (a) 5/6

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
SCS Engineers	Ruth Smith		156107
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** _____ **of** _____
2405 140th Ave NE #107			
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Bellevue / WA / 98005			
Project Name and Location (State)	**Carrier/Waybill Number**		
WA02104SL			
Contract/Purchase Order/Quote No.			
2400269Z			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAcl/NaOH	X Methals (Total)	X Alk, TSS	X NH3, TOC	Special Instructions/ Conditions of Receipt
LP-LCD	12/5/12	1115		X			1	2	1				X	X	X	

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/5/12	1430	1. Received By	12/6/12	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
Site No.: [ ]
Sample Point: Bottom PLCP (Sample ID)

This Waste Management Field Information Form is Required.
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 30725-1

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/05/12	1115				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: [ ]
Sampling Device: [ ]
X-Other: Grab Sample

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or [ ] µ (circle or fill in)
Filter Type: [ ]
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: [ ]
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): [ ] (ft/msl)
Depth to Water (DTW) (from TOC): [ ] (ft)
Groundwater Elevation (site datum, from TOC): [ ] (ft/msl)
Total Well Depth (from TOC): [ ] (ft)
Stick Up (from ground elevation): [ ] (ft)
Casing ID: [ ] (in)
Casing Material: [ ]

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1115	1st	7.11	3110	11.18		6.89	-338	
	2nd					6.41		
	3rd							
	4th							
Suggested range for 3 consec. readings or state Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
12/05/12	7.11	3110	11.18		6.91	-338	1115

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): _____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
12/5/12	Matthew O'Hare		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-36725-1

Login Number: 36725

List Source: TestAmerica Denver

List Number: 1

Creator: Laspe, Laura

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX E

HISTORICAL LANDFILL GAS MONITORING RESULTS

Historical Results of Methane (CH4) Measurements

Location	Mar-07	Sep-07	Jun-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	May-12	Aug-12	Nov-12
OV-GP-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
OV-GP-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP-9S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP-9D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	0.0	0.0	0.0	0.0
OV-GP10S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP10D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	0.0	0.0	0.0	0.0
OV-GP11S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP11D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	0.0	—	—	0.0
OV-GP12S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP12M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP12D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	0.0	—	—	0.0
OV-GP13S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP13M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP13D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	0.0	0.0	0.0	0.0
OV-GP14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OV-GP15	6.2	9.3	7.6	5.7	9.4	4.9	5.8	1.4	0.9	0.0	1.0	1.7	0.2	0.0	0.0	0.0	0.0	1.0	0.3	1.5	2.9	0.2	0.0	0.1
OV-GP16	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CH4>0.3% vol.
— Screened interval submerged

Historical Results of Carbon Dioxide (CO2) Measurements

Location	Mar-07	Sep-07	Jun-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	May-12	Aug-12	Nov-12
OV-GP-07	4.7	11.7	8.1	7.7	4.9	8.5	10.3	9.2	7.7	7.6	11.3	6.9	5.1	8.0	11.0	8.3	1.5	6.6	9.7	1.5	4.2	6.0	9.6	8.3
OV-GP-08	0.8	7.1	4.3	1.2	2.6	4.6	6.2	7.0	2.8	4.9	6.8	6.1	2.1	0.2	4.1	2.4	0.5	3.0	4.7	5.5	1.7	3.1	4.6	2.8
OV-GP-9S	2.5	2.4	3.2	2.2	2.3	2.9	3.0	0.7	2.1	3.2	2.7	2.3	2.5	3.5	2.1	2.3	2.1	3.0	1.7	3.2	2.3	2.6	2.5	1.9
OV-GP-9D	2.0	1.6	1.7	1.8	1.6	1.6	1.9	0.7	1.4	1.9	2.0	1.7	1.7	1.6	1.5	1.7	—	—	—	—	1.7	1.7	1.4	1.6
OV-GP10S	0.7	1.0	0.9	0.9	0.6	0.8	1.0	2.9	0.6	0.6	0.9	0.1	0.2	0.9	0.9	3.2	0.7	0.7	0.7	1.3	0.7	0.8	0.8	0.9
OV-GP10D	0.7	0.7	0.7	0.8	0.7	0.7	0.8	1.7	0.6	0.6	0.9	0.4	0.7	0.7	1.0	2.8	—	—	—	—	0.7	0.6	0.6	0.7
OV-GP11S	1.8	2.7	2.7	2.3	2.0	2.5	2.8	2.0	1.6	2.2	2.6	1.8	1.9	2.5	2.0	2.4	1.4	2.1	1.8	1.3	1.7	2.1	2.8	2.2
OV-GP11D	1.5	1.7	1.5	1.9	1.7	1.8	2.1	1.6	1.4	1.6	2.0	0.2	1.7	1.6	0.4	2.1	—	—	—	—	2.4	—	2.8	2.9
OV-GP12S	2.2	2.7	2.7	5.3	1.0	1.8	3.1	2.3	1.5	2.3	2.4	1.5	1.5	2.3	1.9	2.2	2.4	2.3	0.7	1.4	1.9	2.2	1.8	1.3
OV-GP12M	2.1	3.1	2.5	5.3	0.8	2.0	2.6	2.3	1.4	2.3	2.7	1.8	1.3	2.2	1.3	1.8	1.7	0.9	0.7	1.0	1.9	1.1	1.5	1.2
OV-GP12D	1.1	2.2	0.6	2.2	1.1	1.0	2.3	1.8	1.3	1.5	2.2	0.2	1.4	0.7	0.7	1.0	—	—	—	—	0.1	—	—	1.2
OV-GP13S	2.7	4.4	3.6	2.9	2.3	3.4	4.2	2.9	2.1	2.9	3.4	1.5	1.2	2.7	1.1	3.9	3	3.4	2.9	2.0	3.0	2.6	3.5	2.9
OV-GP13M	7.5	5.9	6.6	5.7	4.7	4.4	4.7	4.2	4.0	3.8	3.8	3.3	3.2	3.0	3.2	3.5	3.1	3.0	1.8	2.0	3.2	1.7	2.1	2.1
OV-GP13D	8.2	6.0	6.6	4.2	5.0	4.3	3.9	12.4	3.6	12.4	13.9	3.3	15.6	14.9	20.7	19.5	—	—	—	—	2.8	1.1	1.6	3.0
OV-GP14	0.1	11.0	8.1	8.2	6.6	7.5	9.8	9.9	8.0	8.2	11.7	10.0	6.0	7.3	10.2	3.4	0.3	6.4	8.9	5.1	—	5.7	7.9	7.5
OV-GP15	8.8	18.1	12.5	8.5	8.9	12.4	14.3	2.9	2.4	2.4	5.1	2.8	1.9	0.2	0.8	1.3	0.3	3.9	8.8	5.2	6.2	3.4	1.7	3.5
OV-GP16	19.1	1.5	1.8	1.5	1.2	2.3	1.9	1.8	1.1	2.0	1.9	7.1	7.0	9.3	7.4	6.7	3.8	6.2	2.4	4.6	4.4	5.1	6.1	4.8

OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CO2>0.3% vol.
— Screened interval submerged

Historical Results of Oxygen (O2) Measurements

Location	Mar-07	Sep-07	Jun-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Mar-09	Jun-09	Sep-09	Dec-09	Mar-10	Jun-10	Sep-10	Dec-10	Mar-11	Jun-11	Sep-11	Dec-11	Mar-12	May-12	Aug-12	Nov-12
OV-GP-07	4.6	6.2	4.8	3.9	4.0	6.0	6.8	1.4	2.9	2.4	7.5	2.5	3.0	3.5	6.6	1.8	20.1	3.6	8.9	20.0	3.5	4.2	5.0	4.8
OV-GP-08	6.8	5.7	7.2	5.7	13.6	10.8	8.0	1.0	7.5	3.4	6.4	6.0	8.5	20.1	9.7	2.4	20.7	6.5	10.8	5.7	5.4	5.8	6.7	4.5
OV-GP-9S	17.7	19.7	18.4	17.7	19.3	18.5	18.9	20.2	18.8	17.0	19.8	16.6	18.4	16.6	18.5	16.3	18.3	17.9	19.9	17.6	18.6	17.7	18.5	18.0
OV-GP-9D	18.1	19.3	18.8	18.9	19.5	19.3	19.3	19.6	18.9	18.3	19.8	18.8	19.3	18.0	19.0	17.8	—	—	—	—	19.0	18.7	18.4	19.5
OV-GP10S	19.9	20.0	20.1	20.3	20.2	20.1	20.5	17.6	20.4	20.1	21.1	21.3	21.6	19.3	20.5	11.1	20.5	20.2	20.6	19.8	20.1	19.8	19.3	20.2
OV-GP10D	18.4	19.5	18.9	19.0	18.7	19.3	19.7	19.1	18.9	18.9	20.2	21.6	19.3	18.3	20.6	10.1	—	—	—	—	18.6	19.3	18.6	19.7
OV-GP11S	17.7	19.2	18.1	18.8	18.8	18.9	19.1	18.9	18.8	18.3	20.1	19.3	18.0	17.3	19.1	16.5	16.5	18.7	20.0	18.9	19.1	18.1	17.9	18.9
OV-GP11D	16.7	19.6	18.8	18.5	18.2	19.2	19.4	19.1	19.3	19.0	19.6	21.7	18.9	18.1	20.5	16.4	—	—	—	—	15.4	—	12.5	14.0
OV-GP12S	17.1	16.4	17.7	15.0	20.0	17.5	17.1	16.5	19.0	16.3	15.9	17.9	20.9	16.8	19.0	16.1	16.7	19.4	20.4	19.6	18.0	19.2	18.3	18.9
OV-GP12M	17.1	13.9	17.7	15.0	20.0	17.5	17.1	16.5	19.0	16.3	15.9	17.9	20.9	16.8	19.0	16.1	17.4	19.8	19.9	19.3	17.7	19.3	18.0	18.9
OV-GP12D	17.0	12.2	18.4	15.3	18.4	18.1	14.4	15.2	16.7	17.0	14.3	20.1	18.0	18.4	19.4	18.8	—	—	—	—	21.4	—	—	16.8
OV-GP13S	12.7	14.5	15.3	14.7	15.4	16.3	15.8	16.4	16.3	15.3	17.3	17.9	17.0	15.8	17.5	14.7	16.6	17.2	18.3	17.7	18.2	18.0	16.9	17.9
OV-GP13M	2.5	7.8	6.6	6.0	8.8	11.3	11.7	13.1	13.4	12.6	14.3	15.2	12.7	13.4	15.3	14.5	15	14.9	18.8	18.4	17.6	19.1	17.5	18.9
OV-GP13D	2.1	6.5	5.5	10.6	8.5	10.5	13.0	12.4	13.7	12.4	13.9	15.7	15.6	14.9	20.7	19.5	—	—	—	—	18.3	19.8	18.4	18.1
OV-GP14	20.9	4.3	3.7	2.2	5.5	4.3	5.0	1.6	2.7	3.0	3.0	1.8	2.8	4.5	8.2	18.6	20.6	4.8	7.6	6.7	—	5.5	4.3	5.2
OV-GP15	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	6.2	3.3	5.3	10.0	19.6	20.3	19.4	20.4	6.5	4.4	12.4	0.0	13.0	19.1	7.2
OV-GP16	18.8	19.7	20.0	19.6	20.3	19.1	19.5	18.8	19.5	18.9	19.3	10.4	10.4	9.2	12.6	11.2	15.3	14.8	18.8	15.2	15.6	15.0	15.3	13.8

OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Depressed O2<20.3% vol.
— Screened interval submerged