SCS ENGINEERS







2015
Annual Monitoring Report
Olympic View Sanitary Landfill

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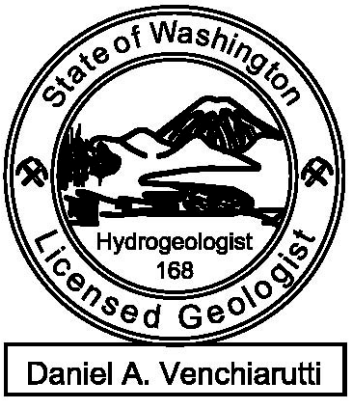

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1.0 INTRODUCTION

This report summarizes the results of the 2015 quarterly post-closure environmental monitoring conducted at the Olympic View Sanitary Landfill (OVSL), located in Bremerton, Washington. Monitoring events for the current compliance period were performed during February, May, August and November of 2015. Quarterly environmental monitoring at the OVSL includes sampling and analysis of groundwater and leachate pond leak detection liquid, and monitoring landfill gas (LFG). Leachate influent monitoring is also conducted at the OVSL on an annual basis (performed December 2015).

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. 2010) and the updated site-specific Sampling and Analysis Plan (SCS Engineers 2013). 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 (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 Public Health District (KCPHD).

SCS Engineers (SCS) and SCS Field Services (Field Services) performed quarterly environmental monitoring at the OVSL from February through December 2015. The following information describes the quarterly monitoring activities included in this report:

- Quarterly measurement of depth-to-water in groundwater monitoring wells within the monitoring well network
- Quarterly collection and analysis of groundwater samples at select monitoring wells within the monitoring network
- Quarterly collection and analysis of a leachate pond/leak detection system sample
- Collection and analysis of a leachate influent sample (during the fourth quarter monitoring event)
- Quarterly measurement of LFG concentrations at perimeter soil gas monitoring probes and building monitoring locations

This report includes:

- A site location description and background section
- A discussion of monitoring activities including a summary of sampling techniques and locations within the groundwater and landfill gas monitoring network
- Construction details for groundwater monitoring wells
- A discussion of groundwater including groundwater elevations, flow direction, and flow velocity for the reporting year
- A summary of the monitoring analytical program and presentation of the analytical results and findings for the reporting year

- A summary of the LFG monitoring results for the reporting year
- A geochemical evaluation of water quality samples collected in November 2014
- A statistical trend analysis and concentration time series plots of groundwater monitoring results
- A statistical evaluation and comparison of groundwater results to calculated prediction limits
- A comparison of groundwater monitoring results to site-specific cleanup levels and other applicable criteria
- Field documentation from the 2015 monitoring events
- The Fourth Quarter 2015 data validation report and associated analytical laboratory reports
- A summary of historical LFG monitoring measurements

Previously issued analytical laboratory data reports for the first three quarters of the 2015 will not be reissued with this report and can be found in the respective quarterly monitoring reports. Similarly, LFG migration monitoring results for the first three quarters of the 2015 reporting year are reported separately in respective quarterly monitoring reports.

In order to conserve paper resources, the complete 2015 annual report is presented on an enclosed data CD attached to the rear cover of the document. However, for the convenience of the reviewer, hard copies of select materials are included in this report.

2.0 SITE DESCRIPTION

2.1 LOCATION

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, Bremerton, Washington. A site location map is shown on Figure 1. The closed refuse fill area covers approximately 65 acres of the property. A site plan is presented on Figure 2.

2.2 BACKGROUND

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 activities included construction of a LFG monitoring system, an active LFG collection and treatment system, a leachate collection and treatment system, a storm water drainage control system, and a final landfill cover.

The final landfill cover consists of (top to bottom):

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

The active LFG 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 system controls storm water erosion and minimizes off-site migration of sediment-laden water (WMW 2008). Drainage and erosion protection improvements include vegetation, a landfill toe under-drain, down chutes, culverts, and drainage ditches.

2.3 TOPOGRAPHY AND CLIMATE

The site is located in the Southern Upland of the Kitsap Peninsula adjacent to the Union River-Gorst Creek trough. 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 situated 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.

2.4 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. A Remedial Investigation Report for completed for the OVSL (Parametrix 2007) identified the following main stratigraphic units in the vicinity of 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)
- 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 elevations ranging between approximately 140 and 260 feet above MSL (depths-to-water ranging between near-surface and approximately 80 feet below ground surface). The groundwater flow direction beneath the landfill is generally toward the west.

3.0 2015 MONITORING ACTIVITIES

3.1 GROUNDWATER

3.1.1 Groundwater Monitoring Network

Quarterly groundwater monitoring is conducted at the OVSL in accordance with the January 2001 Agreed Order, EMP as modified through subsequent technical discussions with Ecology, and the site-specific Sampling and Analysis Plan (SAP). The monitoring also meets the post-closure landfill monitoring requirements under WAC 173-351-430.

The groundwater monitoring network at the OVSL includes four categories of monitoring wells that are sampled either quarterly or semi-annually, as well as those that are only used for water level measurements. The four well categories designated at the Site include the following:

- Upgradient (background) monitoring wells are used to assess the quality of groundwater upgradient of the landfill Site.
- Performance monitoring wells are used to assess groundwater quality at the edge of the waste management unit.
- Compliance monitoring wells are used to assess groundwater quality at the MTCA Point-of-Compliance (POC).
- Downgradient monitoring wells are used to assess groundwater quality leaving the Site.

A summary of well and type are listed below. The locations of these groundwater monitoring wells are illustrated on Figure 2.

Monitoring Wells at the OVSL by Type			
Upgradient	Performance	Compliance	Downgradient
MW-13A	MW-2B1	MW-15R	MW-29A (S)
MW-13B	MW-4	MW-34A	MW-32
MW-16	MW-19C	MW-34C	MW-33A (S)
MW-35	MW-20	MW-39	MW-33C
	MW-23A	MW-42	MW-36A
	MW-24	MW-43	

S = semiannual monitoring
A indicates a shallower well completion
B indicates an intermediate well completion
C indicates a deeper well completion

Well completion depths range from approximately 9 to 230 feet below ground surface. Screen lengths vary from 5 to 20 feet, with a 10-foot average well screen length. Completion depth differences are differentiated using the following letter indicators: “A” is a shallower monitoring well completion, “B” indicates an intermediate well completion, and “C” indicates a deeper monitoring well completion. Construction details for the monitoring wells are provided on Table 1.

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. Low-flow sampling with dedicated pumps minimizes pump-introduced artifacts and eliminates cross contamination between wells. The dedicated bladder pumps are positioned with their inlets 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 2006), the *Remedial Investigation Report, OVSL, Kitsap County (*Parametrix *2007)* and the G*roundwater Monitoring Well Installation Report, OVSL* (SCS Engineers. 2009).

3.1.2 Monitoring Schedule

Groundwater monitoring was conducted on a quarterly basis in 2015, with sampling events completed in February, May, August, and November 2015. In accordance with the SAP, monitoring wells MW-29A and MW-33A were sampled on a semiannual basis during May and November 2015.

3.1.3 Parameters and Analytical Methods

The analytical program for groundwater quality monitoring during the 2015 reporting period included the following Appendix I and II parameters:

Analytical Program	Parameter
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, turbidity, and static water level
Geochemical Indicator and General Parameters	chloride, sulfate, nitrate, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese (Total suspended solids as of Sept. 2013)
Dissolved and Totals Metals*	antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc (Total Metals as of Sept. 2013)
Volatile Organic Compounds	as listed in WAC 173-351 Appendix I
Leachate Indicator Parameters	ammonia, total organic carbon (TOC), and total dissolved solids (TDS)

* Consistent with the 2013 revisions to WAC 173-351, both dissolved and total Appendix I metals data have been reported for a minimum period of eight quarters. Beginning in 2016, Appendix I metals data will only be reported as a total fraction.

Laboratory methods are derived from several industry-standard publications. Methods for Chemical Analysis of Water and Wastes (MCAWW, EPA 1983) describe methods used for nitrate, nitrite, chloride, sulfate, and ammonia analyses. *Standard Methods for the Examination of Water and Wastewater* (APHA 1999, revised 2014) describe the methods used for analysis of alkalinity (total and bicarbonate), TDS, total suspended solids (TSS), and TOC. Metals and

VOC analyses are described in EPA publication number SW-846, Test Methods for Evaluating Solid Wastes, Physical and Chemical Methods (EPA revised 2007). The method for measuring arsenic is described in Method 200.8, Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry (EPA 1994).

All laboratory analyses were completed by TestAmerica labs in Denver, Colorado and Buffalo and New York; and by Analytical Resources Incorporated in Tukwila, Washington. The laboratories are accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

3.1.4 Field Monitoring and Sampling Procedures

Field activities conducted at the Site consist of surveying well conditions, obtaining field measurements (depth-to-water, pH, specific conductivity, turbidity, temperature, and dissolved oxygen), collecting groundwater samples for laboratory analysis, and packaging and shipping the samples to the laboratories. These activities are conducted as described in the revised 2013 site-specific SAP.

As part of the routine groundwater monitoring program, static water levels were measured and recorded each quarter in monitoring wells within the groundwater monitoring network prior to initializing sampling procedures. Static water levels are collected from both monitoring wells where water quality samples are collected and additional monitoring wells used only for determining the potentiometric groundwater surface. Depth-to-water measurements (measured to the nearest 0.01 ft.) were obtained using an electronic water level indicator. Static water level measurements were recorded and documented on field sampling and measurement forms included in Appendix A (for November 2015).

Prior to sample collection, groundwater monitoring wells were purged in order to ensure representative groundwater conditions at each location. Both purging and sampling of the monitoring wells were conducted using low-flow/low-volume well sampling techniques. Once the pumping was initiated, flow rates were confirmed by volumetric discharge measurements (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 measurements for pH, temperature, specific conductivity, dissolved oxygen, and turbidity were conducted using a closed, in-line flow-through cell and a portable turbidity meter. When water quality parameters stabilized and there had been no change in the pumping water level, sample collection would begin. Field parameters were measured as described in *Standard Methods for the Examination of Water and Wastewater* (APAH 2014). Before initiating the purge process, the multiparameter field meters were calibrated in accordance with manufacturer's guidelines. Field data obtained during the well purging procedure was recorded on field sampling and measurement forms included in Appendix A (for November 2015).

Non-disposable sampling equipment that was exposed to well water (e.g., electronic water level tape) was decontaminated between wells as outlined in the SAP. Decontamination of equipment was completed before leaving each well, thereby minimizing potential cross contamination. Disposable sampling equipment and disposable personal protective equipment (PPE) were removed and disposed of after each use and prior to leaving each well.

3.2 LEACHATE

Leachate generated from three separate closed municipal waste storage cells 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 (refer to Figure 2). The force main outfall is located on the north end of the leachate lagoon. Accumulated leachate is treated by aeration. When the leachate elevation in the pond approaches the elevation of the former pond outlet, leachate is removed via pumping and hauled to nearby wastewater treatment plants.

3.2.1 Leachate Monitoring Locations

Per the EMP and SAP, leachate monitoring is performed at three locations at the facility. Influent leachate sampling station L-INF is situated near the edge of the leachate collection pond. The OBWL-TD sampling station is located 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.

3.2.2 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 2015. The OBWL-TD station did not contain adequate sample volume for sample collection, as determined during the fourth quarter 2015 monitoring event. The LP-LCD was sampled quarterly in 2015.

3.2.3 Parameters and Analytical Methods

A summary of the analyzed parameters for the leachate samples collected at the OVSL is presented in the table below. In addition to the routine Appendix I/II parameter list, the annual L-INF sample collected during the fourth quarter 2015 was also analyzed for the three-year Appendix III parameter suite.

Quarterly LP-LCD Analytical	Parameter
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, and turbidity
Geochemical Indicator Parameters	chloride, sulfate, nitrate/nitrite, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese
Leachate Indicator Parameters	ammonia, TOC, and TDS

Annual L-INF Analytical Program	Parameter
Field Measurements	temperature, specific conductivity, pH, dissolved oxygen, and turbidity
Geochemical Indicator Parameters	chloride, sulfate, nitrate/nitrite, calcium, sodium, bicarbonate, alkalinity, magnesium, potassium, iron, and manganese
Dissolved Metals	Antimony, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc
Volatile Organic Compounds	as listed in WAC 173-351 Appendix I
Leachate Indicator Parameters	ammonia, total organic carbon (TOC), and total dissolved solids (TDS)
Additional Appendix III Parameters	Semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides and herbicides

Laboratory methods are the same methods used for groundwater samples. All laboratory analyses were completed by TestAmerica labs in Denver, Colorado and Buffalo, and New York.

3.2.4 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, L-INF, consisted of an individual grab sample which was obtained directly from the leachate pond. Field personnel immersed sample bottles to collect the leachate influent sample. The LP-LCD sample was obtained 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* (APAH 2014). Field information obtained during leachate sampling was recorded on Field Information Forms included in Appendix A (for November and December 2015).

3.3 LANDFILL GAS

Landfill gas monitoring activities at the OVSL consist of obtaining field measurements of primary gas composition (methane, carbon dioxide, and oxygen) at 10 subsurface soil gas detection probes (several with multiple screened intervals) and four locations inside two onsite structures on or immediately adjacent to the landfill.

LFG monitoring is conducted to provide an assessment of the subsurface soil gas conditions at the OVSL and monitor 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. LFG monitoring procedures are detailed in the 2013 SAP.

3.3.1 Landfill Gas Monitoring Network

LFG monitoring was conducted at 10 perimeter gas probes (GP-7 through GP-16) and two onsite structures as illustrated on Figure 3. 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 three 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 by groundwater. 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 2006).

3.3.2 Monitoring Schedule

Monitoring at the gas probes and facility structures was conducted during March, May, September, and December 2015. Landfill gas monitoring results are reported in Section 4.

3.3.3 Monitored 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 groundwater levels were measured in the gas probes during the monitoring events.

3.3.4 Landfill Gas Monitoring Field Procedures and Instrumentation

Field monitoring was conducted in accordance with 2013 SAP. The LFG probes and building locations were monitored 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. LFG monitoring activities are documented in the Field and Calibration Logs included in Appendix A.

3.3.5 Field Conditions

General weather conditions were noted during and preceding each quarterly LFG 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 December 2015 are included in this report.

4.0 2015 MONITORING RESULTS

4.1 GROUNDWATER

4.1.1 Groundwater Elevation and Flow

Seven monitoring wells (MW-5, MW-11, MW-14, MW-19, MW-33B, MW-36 and MW-41A) could not be accessed, were obstructed, had low conductivity groundwater, or were dry for at least one quarter of 2015. Recorded depth-to-water levels are summarized in field documentation included in Appendix A.

Depth-to-water measurements collected through 2015 were used to calculate groundwater elevations in feet relative to MSL. The 2015 records have been compiled and are presented on Table 3. Groundwater elevation surface maps (derived from static depth-to-water measurements collected at the OVSL monitoring wells) for each quarter during the reporting period are presented in Figures 4A through 4D. A hydrograph showing the past 10 years of recorded groundwater elevations is presented on Figure 5. Groundwater elevations at the OVSL ranged from approximately 139 to 260 ft. MSL over the 2015 reporting period. Groundwater elevations remained relatively stable over the entire reporting period. The potentiometric groundwater elevation surface across the OVSL does not show significant seasonal fluctuations. These results remain consistent with data reported during previous compliance years.

The groundwater flow direction during the reporting period remained consistent with that previously reported. Locally, the groundwater flow direction is to the west/northwest. The average hydraulic gradient across the site remained fairly consistent from quarter to quarter.

Calculated 2015 Hydraulic Gradient and Flow Velocities – East Side				
	Q1	Q2	Q3	Q4
Well Pair	MW-35/MW-24			
Hydraulic Gradient (ft./ft.)	0.0334	0.0329	0.0337	0.0338
Flow Velocity (ft./day)	2.89	2.85	2.92	2.93
Calculated 2015 Hydraulic Gradient and Flow Velocities – West Side				
	Q1	Q2	Q3	Q4
Well Pair	MW-20/MW-38			
Hydraulic Gradient (ft./ft.)	0.0134	0.0138	0.0139	0.0144
Flow Velocity (ft./day)	6.90	7.07	7.15	7.40

Eastern Hydraulic Conductivity = 26 ft/day (Parametrix 2007)
Western Hydraulic Conductivity = 154 ft/day (Parametrix 2007)
Porosity = 30% (Parametrix 2007)

4.1.2 Groundwater Quality

4.1.2.1 Chemical Analysis

Water quality data for the OVSL are summarized in Tables 4A through 4E. These tables present the data results of detected analytes and measured field parameters from all four quarters of 2015. Each table presents the data for a monitoring well category (Compliance, Performance, Downgradient, and Upgradient). A table summarizing the detected analytes and field parameters for the annual L-INF and quarterly LP-LCD leachate and leak detection monitoring stations is also provided. In addition, a summary table of VOC detections in groundwater and leachate is presented on Table 5.

It should be noted that the Table 4E also documents the results of the three year Appendix III parameter analysis performed for the fourth quarter L-INF sample. As noted in the table footnotes, none of the Appendix III parameters were detected in this sample.

4.1.2.2 Data QA/QC

All analytical data from TestAmerica and ARI were subjected to a quality assurance/quality control (QA/QC) program and evaluation. The program included field and in-house components. The field portion consisted of the collection and analysis of trip blanks, field replicates, and matrix spike/matrix spike duplicates. The in-house evaluation provided a detailed review of laboratory data which included sample handling, analysis hold times, and laboratory performance analyses (duplicates, blanks, matrix spikes, matrix spike duplicates and surrogate recoveries). The 2015 data set was determined to be acceptable for the intended purposes.

Appendix B contains the data validation report and the analytical laboratory data reports for the November 2015 monitoring event.

4.1.3 Spatial Distribution and Temporal Trends

4.1.3.1 Parameter Distribution

As noted in previous site monitoring reports, the influence of past waste disposal activities on groundwater quality at the OVSL is observed in the groundwater VOC detections, general chemistry, inorganics, and field parameter results. The elevated concentrations of parameters adjacent to the landfill are typically characteristic of influence from either landfill leaching, transport from landfill gas, or increased mobilization of naturally occurring constituents as a result of the landfill's presence.

At the OVSL, several key parameters (dissolved arsenic, dissolved iron, dissolved manganese, and vinyl chloride) are routinely monitored for their spatial distribution each quarter by plotting concentrations on the landfill base map. The spatial distributions for these four parameters for the fourth quarter November 2015 monitoring event are presented in Figures 6A through 6D and summarized in the tables below.

Dissolved Arsenic (mg/L) - November 2015 (Figure 6A)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	0.0001	0.00008	0.00014	0.0001
Locations	*MW-35*	*MW-23A*	*MW-15R*	*MW-33A*
High	0.00038	0.00322	0.00218	0.0096
Locations	*MW-16*	*MW-19C*	*MW-39*	*MW-32*

Dissolved Iron (mg/L) – November 2015 (Figure 6B)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.06	<0.06	<0.06	<0.06
Locations	*MW-13A, MW-13B, MW-35*	*MW-4, MW-20, MW-24*	*MW-15R, MW-34A*	*MW-33C, MW-36A*
High	0.19	0.81	39	4.4
Location	*MW-16*	*MW-23A*	*MW-39*	*MW-29A*

Dissolved Manganese (mg/L) – November 2015 (Figure 6C)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.001	<0.001	<0.001	<0.001
Locations	*MW-13A, MW-13B, MW-35*	*MW-20*	*MW-34A*	*MW-36A*
High	0.032	2.7	4.9	2.9
Locations	*MW-16*	*MW-2B1*	*MW-42*	*MW-32*

Vinyl Chloride (µg/L) – November 2015 (Figure 6D)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	All less than <0.02	<0.02	<0.02	<0.02
Locations		*MW-20, MW-23A, MW-2B1, MW-24*	*MW-15R, MW-34A, MW-39, MW-43*	*MW-29A, MW-33A, MW-33C, MW-36A*
High		0.09	0.12	0.44
Locations		*MW-19C*	*MW-42*	*MW-32*

Groundwater impacts are seen in each category of monitoring wells at the Site. The highest concentrations of arsenic, iron and manganese (0.00038, 0.19 and 0.32 mg/L, respectively) reported in Upgradient (background) monitoring wells were all detected in MW-16. Vinyl chloride was not detected in any of the Upgradient wells during 2015. The highest concentrations of these parameters noted in the Performance monitoring wells were observed at wells MW-19C (arsenic, 0.00322 mg/L; vinyl chloride, 0.09 µg/L), MW-23A (iron, 0.81 mg/L) and MW-2B1 (manganese, 2.7 mg/L). The highest detected concentrations of these parameters in the Compliance monitoring wells were recorded in wells MW-39 (arsenic, 0.00218 mg/L; iron, 39 mg/L) and MW-42 (manganese, 4.9 mg/L; vinyl chloride, 0.12 µg/L). The highest detected concentrations of these parameters in the Downgradient monitoring wells were

observed in well MW-32 (arsenic, 0.0096 mg/L; manganese, 2.9 mg/L; vinyl chloride, 0.44 µg/L) and MW-29A (iron, 4.4 mg/L).

4.1.3.2 Temporal Trends

Time series graphs and a statistical trend analysis were produced for all Upgradient, Performance, Compliance, and Downgradient monitoring wells using the DUMPStat software package. The data used for the statistical analyses includes data from 2005 through the present reporting year, 2015. This evaluation was conducted for parameters listed in Appendices I and II of WAC 173-351-990 which are organized into two groups: "Trend Test A" and "Trend Test B". The "Trend Test A" time series includes all organic parameters in Appendices I and II that have been detected above the practical quantification limit (PQL) during at least one sampling event in any of the wells since 2005 (currently 25 VOCs). The "Trend Test B" time series includes Appendix I and II inorganic and groundwater quality parameters (currently 32 parameters). To facilitate review of the statistically significant trends, time series 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 parameters showing significant increasing or decreasing concentration trends grouped by well type is provided on Table 6A and a more detailed summary of parameter trends in specific wells can be found in Table 6B.

The dominant data trend seen for the majority of parameters throughout the Site remains that of decreasing concentrations. This is observed primarily in Performance, Compliance, and Downgradient monitoring wells with significant decreases noted in all well groups for as many as 16 inorganic parameters and two VOCs (Tables 6A/6B). However, significant increasing trends for some inorganic parameters are also seen in all well groups, although the number of parameters increasing remains low.

Significant parameters trends calculated for the Compliance monitoring wells are summarized below.

Significant Trends in Compliance Wells (2005 - 2015)			
Increasing		Decreasing	
Parameter	Wells	Parameter	Wells
Chloride	MW-39	Alkalinity, Total	MW-15R
pH	MW-42	Arsenic, Dissolved	MW-34C
Potassium, Dissolved	MW-42	Barium, Dissolved	MW-15R, MW-34A
Temperature	MW-15R, MW-34A, MW-34C	Bicarbonate Alkalinity	MW-15R
		Calcium, Dissolved	MW-15R, MW-34A, MW-34C
		Chloride	MW-15R, MW-34A, MW-34C
		Iron, Dissolved	MW-34C
		Magnesium, Dissolved	MW-15R, MW-34A, MW-34C
		Manganese, Dissolved	MW-15R, MW-34C

		Sodium, Dissolved	MW-15R, MW-34A, MW-34C
		Specific Conductivity	MW-15R, MW-34A, MW-34C
		Total Dissolved Solids	MW-15R, MW-34C
		Vinyl Chloride	MW-34C

4.1.4 Groundwater Geochemistry

The geochemical character of the groundwater, LP-LCD, and L-INF samples was evaluated by plotting and comparing geochemical parameters using a Piper diagram for the November 2015 analytical results. Water quality samples collected during November 2015 were of similar geochemical water type with clear differences seen between the groundwater, L-INF, and LP-LCD samples. As noted during previous compliance years, the positions of sampled wells on the diagram indicate that the dominant anion in site groundwater remains bicarbonate, with cations being dominated by calcium and magnesium. The LP-LCD and L-INF samples continue to show higher sodium and potassium levels than groundwater, as well as higher chloride levels. The Piper diagram for November 2015 can be found in Appendix D. Previous Piper diagrams for the first, second, and third quarters can be found in the corresponding quarterly monitoring reports.

In addition to the Piper diagram, groundwater cation/anion balance calculations were also used to assess geochemical character. Ideally, after the major anions and cations present in a sample are determined, the sum of the positive cations (in milliequivalents per liter [meq/L]) should approximately equal the sum of the negative anions (Hem 1986). All natural waters should be electroneutral. However, differences can arise between dissolved cations and anions in groundwater as measured by an analytical laboratory due to a number of factors including: presence of colloidal fractions, systematic error in preparation and analysis of samples, malfunction of/poorly calibrated equipment, major species omitted from analysis, the presence of unusually high concentrations of cations/anions, and not all ions present in water are included in the balance calculation. Due to these potential issues, differences in the ion balance can be difficult to assess for imbalances due to groundwater impacts.

The range of the sum of ions and balance of ions observed at the Site for the November 2015 monitoring event are summarized in the table below. Positive values indicate that the sum of the cations is greater than the sum of the anions

Well Group	Upgradient	Performance	Compliance	Downgradient
Sum of Ions (meq/L)	2.78 - 3.48	1.04 - 5.96	1.36 - 8.71	1.85 - 7.88
Balance (%)	1.7 - 5.7	-0.4 - 5.9	-11.4 - 6.4	-2.5 - 3.2

As stated in WAC 173-351-430-5(a), a relative percent difference (RPD) in the charge-balance (ion balance) of greater than five to ten percent (depending on the concentrations of ions in solution) could potentially indicate impacted groundwater conditions. Ion balances observed at the Site during the November 2015 event are largely within or very close to this threshold. It's likely that results greater than the (+/-) 5 to 10% ion balance threshold are due to possible errors

associated with analytical limitations in the measurements (as previously discussed) or potential low level impact from human activities at the Site.

4.1.5 Statistical Prediction Limit Evaluation

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 groundwater quality parameters (a total of 32 parameters). These updated background prediction limit concentrations are used for comparison purposes for compliance and downgradient monitoring wells.

Prediction limits for inorganic parameters were exceeded at least once during the fourth quarter of 2015 in ten of the Downgradient and Compliance groundwater monitoring wells (MW-29A, MW-32, MW-33A, MW-33C, MW-34A, MW-34C, MW-36A, MW-39, MW-42, and MW-43). Wells MW-39 and MW-42 reported the largest number of prediction limit exceedances (each with a total of 15). A summary of the latest prediction limit exceedances for the November 2015 Compliance and Downgradient well results are presented on Table 7. Prediction limit calculations for 2015 are presented in Appendix C.

As previously noted (and as shown on Tables 6A and 6B), the following Upgradient monitoring wells exhibited statistically significant increasing or decreasing trends over the period for which background prediction limits are calculated: MW-13A (bicarbonate alkalinity), MW-13B (bicarbonate/total alkalinity), and MW-35 (bicarbonate/total alkalinity and nitrate). 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.

For bicarbonate and total alkalinity, the apparent 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 remains 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.

4.1.6 Point of Compliance and Cleanup Level Exceedances

4.1.6.1 Point of Compliance (POC)

The solid waste regulations (WAC 173-351-300[6]), specify that groundwater quality compliance must be established at a POC located on the landfill property no more than one hundred fifty meters (four hundred ninety two feet) from the waste management unit boundary. At the OVSL, the POC is established as a line of wells located within 150 meters of the landfill waste management unit boundary. As illustrated on Figure 2, the Compliance monitoring wells are colored red and lie west/northwest of the downslope boundary of the landfill.

4.1.6.2 Cleanup Level Exceedances

Site-Specific MTCA Cleanup Levels

Ten organic and inorganic parameters are regulated under the OVSL Cleanup Action Plan (CAP, Ecology 2010) and have site-specific MTCA cleanup levels. Analytical results are used to calculate an upper confidence limit (UCL) of the mean concentration for each parameter for each well for Compliance and Downgradient monitoring wells to assess compliance with their respective cleanup level.

The UCLs are calculated using a three-year moving data window (per MTCAStat guidance) for the ten site-specific chemicals of concern (COC). The UCLs are calculated using MTCAStat; calculation details are presented in Appendix C. The following in-text table and Table 8 summarize the COCs and their 2015 exceedances in the Compliance and Downgradient monitoring wells.

Chemicals of Concern	Units	Site-specific MTCA Cleanup Level	Exceedances in 2015
1,1-Dichloroethane	µg/L	50	No
1,4-Dichlorobenzene	µg/L	2	No
Ammonia	mg/L	0.19	Yes
Arsenic	mg/L	0.000462	Yes
Cis-1,2-Dichloroethene	µg/L	35	No
Ethyl ether	µg/L	50	No
Iron	mg/L	0.3	Yes
Manganese	mg/L	0.05	Yes
Trichloroethene	µg/L	1	No
Vinyl Chloride	µg/L	0.2	Yes

Blue indicates COC in 2015 exceeded site-specific MTCA Cleanup Levels

Indications of improving groundwater quality or groundwater continuing to remain stable was once again noted in 2015. As an example, the 95% UCL for vinyl chloride remained below the cleanup level in all Compliance wells and all Downgradient wells except MW-32. Much of the minor variation in concentrations observed from year to year can cause exceedances to arise or vanish between reporting periods. This is largely a result of the UCLs hovering very near cleanup levels and not a result of larges changes to the groundwater conditions.

Statistically significant trends are also noted on Table 8 in order to provide additional information regarding 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.

Exceedances of the site-specific MTCA cleanup levels were reported in four of six Compliance well locations (refer to Table 8): MW-34C (arsenic, iron, manganese); MW-39 (ammonia, arsenic, iron, and manganese); MW-42 (ammonia, arsenic, iron, manganese); and MW-43 (iron and manganese). A significant decreasing trend was reported in 2015 for manganese in MW-15R, and was reported for arsenic, iron, manganese and vinyl chloride in MW-34C. The 95%

UCLs for select VOCs were below the site-specific MTCA cleanup levels in all of the Compliance monitoring wells.

In 2015, as in 2014, exceedances of the site-specific MTCA cleanup levels were reported in all five Downgradient well locations (refer to Table 8): MW-29A (arsenic, iron, and manganese); MW-32 (arsenic, iron, manganese, and vinyl chloride); MW-33A (ammonia, iron, and manganese,); MW-33C (arsenic, iron, and manganese); and MW-36A (arsenic). Significant decreasing trends were identified in the following wells: MW-29A (ammonia) MW-32 (arsenic and iron), MW-33C (arsenic), and MW-36A (arsenic). With the sole exception of vinyl chloride in MW-32, all of the 95% UCLs for the select VOCs remained below the site-specific MTCA cleanup levels in all of the Downgradient monitoring wells.

Other Criteria Comparison (Federal MCLs, WAC 173-200, and MTCA)
In addition to the site-specific MTCA cleanup levels, groundwater at the OVSL is also compared to WAC 173-200 Groundwater Quality Protection Standards and State/Federal Primary and Secondary Maximum Contaminant Levels (MCLs). For comparison purposes, site-specific MTCA cleanup levels are also included.

The WAC 173-200 and MCL exceedances for the 2015 reporting period by parameter and well are summarized on Table 9. Criteria for the following seven analytes were exceeded:

- pH
- ammonia
- arsenic, total and dissolved
- iron, total and dissolved
- manganese, total and dissolved
- trichloroethene
- vinyl chloride

These same parameters were noted to have exceeded regulatory standards during the previous (2014) reporting period.

4.2 LEACHATE MONITORING RESULTS

4.2.1 Leachate Quality

The results of the fourth quarter 2015 leachate influent sample (L-INF) analysis are presented alongside the groundwater sampling results on Table 4E. Similar to previous years, no VOCs were detected in the L-INF sample. Samples were also obtained from the LP-LCD monitoring station and submitted for selected Appendix II parameter and total metals analysis during all four quarters of 2015 (refer to Table 4E).

4.2.2 Leachate Generation Rates

Leachate volumes generated at the OVSL have been recorded on a weekly basis by SCS Engineers Field Services since 2008. Over the course of the 2015 reporting period, approximately 801,614 gallons of leachate were reported to have been pumped into the leachate

collection pond. A total of 61.05 inches of rainfall were recorded at the site during 2015. Leachate production has continued to decline at the OVSL, from 1,106,803 gallons in 2014, and from over 2 million gallons annually in 2007, 2008, 2009 and 2012. These data continue to suggest that ongoing improvements to site maintenance and existing infrastructure have significantly reduced leachate generation rates (per inch of precipitation) at the OVSL. Annualized rainfall totals at the OVSL and the volumes of leachate produced on a quarterly and annual basis over the last eight years are presented on Figure 7**.**

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 2015 are presented on Table 10. Approximately 2,975 gallons of liquid were removed from the collection system during 2015, which is a slightly greater LP-LCD volume than was pumped during the previous reporting year (2,230 gallons in 2014).

4.3 LANDFILL GAS MONITORING RESULTS

The presence of landfill gas is discussed in terms of detected methane and/or carbon dioxide (at concentrations of both gases at levels greater than 0.3 percent by volume) and depressed oxygen (less than 20.3 percent by volume). The detection of these gases, as well as, elevated gas pressures within the perimeter probes, indicate the potential presence of landfill gas. The reported values represent measurements from stabilized conditions (after purging at least one probe volume from each sampling zone). It should also be noted that the monitoring results are discussed in terms of probe locations, not sampling zones (by depth). For example, if methane is detected in the shallow or deep monitoring zone (or both) of one gas probe, the reference is to the location. The screened interval in Middle- and Deep-monitoring zones is sometimes submerged by the shallow groundwater table. When this occurs, gas results are not representative of the screened interval, and as a result are not reported.

Perimeter LFG probes and surface structure locations were monitored for the presence of landfill gases. The December 2015 results are summarized in Table 11. LGF probe results for the 2015 compliance period are also summarized on Table 12.

4.3.1 Perimeter Gas Probe

For the fourth quarter event, 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 soil gas probes) or in any of the landfill buildings (25% of the LEL for methane in any structures). Carbon dioxide was measured at all gas probes ranging from 0.7 (GP-10D) to 6.4 percent by volume (GP-7). Depressed oxygen levels (less than 20.3 percent by volume) were reported at the majority of gas probes, ranging from 3.7 (GP-8) to 20.1 percent by volume (GP-10S). Two probes reported oxygen levels that were not depressed: GP-12S (20.7 percent by volume) and GP-12M (20.3 percent by volume). Representative relative (static) pressure readings in the perimeter gas probes ranged from -0.12 (GP-16) to 2.29 (GP-15) 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 2015 monitoring year.

Groundwater seepage during the rainy season can submerge the perforated portion of the soil gas probe casing 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 at each gas probe location. The percentage of exposed perforated casing for each gas probe is shown on Table 11.

4.3.2 Structure Monitoring

In December 2015, monitoring showed no presence of methane in either the South Slope Well House or the Scale House. Carbon dioxide was detected at between 0.1 and 0.2 percent by volume in the onsite structures. Depressed oxygen concentrations at both structures were not observed.

4.3.3 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 December 2015 are presented on Figure 8. On December 15, landfill gas monitoring was conducted during a period of generally stable barometric pressure conditions.

5.0 SUMMARY AND CONCLUSIONS

Landfill gas and leachate generation rates and groundwater quality results at the OVSL generally remain consistent with an overall improvement of environmental site conditions and the on-going stabilization of the closed landfill. Groundwater quality data from 2005 through 2015 indicate that contaminants in groundwater continue to decline with fewer exceedances in site-specific MTCA cleanup levels reported at POC monitoring wells and downgradient of the site. The 2015 reporting year saw the ongoing reduction of leachate production, which is consistent with recent trends, and the previous implementation of improved site engineering controls. The facility will continue to explore opportunities to minimize any remaining above ground contribution to leachate volumes to ensure that the trend of diminishing leachate generation is maintained.

Landfill gas production at the OVSL has continued to decline, with flow rates decreasing rapidly to several orders of magnitude below their modeled production high as the natural depletion of methane and other landfill gases continues at the site. It is anticipated that on-going monitoring efforts in 2016 will continue to show improving environmental conditions and increased landfill stability.

5.1 GROUNDWATER

5.1.1 Groundwater Quality

Elevated concentrations of certain VOCs, general chemistry parameters, inorganic analytes, and field parameters continued to be reported in the monitoring wells adjacent to the OVSL. During 2015, water quality standards were exceeded for seven analytes: pH, dissolved arsenic, dissolved iron, dissolved manganese, ammonia, trichloroethene, and vinyl chloride. These results remain generally consistent with those reported for previous years, although overall trends show the majority of analyte concentrations decreasing.

The only primary federal MCL exceedances at the OVSL for the 2015 reporting period were for arsenic in wells MW-32 (0.0105 mg/L in May) and MW-34C (0.0746 mg/L, 0.0155 mg/L and 0.0846 mg/L in May, August and November, respectively). These were all total arsenic results obtained from unfiltered groundwater samples. The primary MCL for vinyl chloride was not exceeded during the current reporting period and has not been exceeded since 2006.

MTCA corrective action monitoring during 2015 reported 95% UCL groundwater cleanup goal exceedances at nine of eleven compliance and downgradient wells at the OVSL. Compliance wells MW-15R and MW-34A did not report any exceedances. With the exception of vinyl chloride in MW-32, the only parameters that exceeded the site specific MTCA cleanup levels were ammonia, arsenic, iron, and manganese.

Similar to last year, 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 site COCs relative to their respective cleanup levels suggests continuing ongoing improvement in

overall groundwater quality during 2015. In addition, Downgradient and Compliance wells exhibited only decreasing significant trends in site-specific COCs in 2015.

Prediction limits for inorganic parameters were exceeded in ten groundwater monitoring wells. Significantly increasing concentrations trends (using Sen's Non-Parametric Test for Trend) were reported for at least one inorganic parameter at ten well locations, while significantly decreasing trends also occurred at seventeen well locations. Significantly decreasing concentration trends were reported for trichloroethene (MW-19C) and vinyl chloride in performance wells MW-19C, MW-24, and MW-34C.

The groundwater analytical data, statistical and graphical analyses, and comparison to water quality standards continue to indicate similar, but improving conditions (in 2015) to those previously documented from 2005 through 2014, with on-going evidence that natural attenuation continues to be affecting the groundwater quality at the site.

5.1.2 Evidence for Natural Attenuation

Natural attention includes a variety of physical, chemical and biological processes that act without human intervention to reduce mass, toxicity, mobility, volume, or concentration of contaminants. Examples of these processes can include biodegradation, dispersion, dilution, sorption, volatilization, chemical transformation, and contaminant destruction. At solid waste landfills, natural attenuation processes are largely controlled by and associated with changes in groundwater chemistry. Typically, for landfills, pathways for aerating subsurface soils and groundwater is impeded resulting in increasingly anaerobic and reducing conditions (or in the case of unlined landfills, there is potential for highly reduced liquids to enter the groundwater system). These conditions promote microbial communities that can degrade organic compounds resulting in the dechlorination of solvents and their daughter products.

On-going improvements in water quality continue to be observed at the OVSL as illustrated by the overall stability and/or decreasing trends observed in the calculated 95% UCLs for site COCs and through their improving comparison with their respective site-specific MTCA cleanup levels. These data continue to support the conclusion that natural attention is occurring as expected at the OVSL.

It is important to note that significant areas across and immediately downgradient of the waste cells exhibit a pronounced anaerobic and/or reducing geochemistry. This is especially the case at those well locations showing most elevated contaminant concentrations (e.g., MW-20 and MW-19C with elevated dissolved iron, vinyl chloride and other redox sensitive parameters). The presence of vinyl chloride beneath the west-central portions of the site is consistent with the ongoing reductive dechlorination of parent compounds (PCE, TCE and DCE isomers). However, further downgradient, along the far western margins of the site, groundwater geochemistry becomes increasingly less reductive and more oxidative, which in turn is increasingly supportive of the degradation of vinyl chloride. This is demonstrated by the general absence of VOCs, including vinyl chloride, in downgradient wells MW-29A, MW-33A, MW-33C and MW-36A.

The growing number of decreasing parameter trends provides additional evidence supporting the ongoing and expected natural attention at the OVSL. Given the current data and historical trends, natural attenuation at the OVSL can be anticipated to continue throughout the post-closure period and beyond.

5.2 LEACHATE

Comparisons between the 2015 groundwater and L-INF field and laboratory results continue to indicate that parameters measured and analyzed in the L-INF are elevated relative to groundwater. These parameters include specific conductivity, alkalinity, ammonia, total calcium, total magnesium, total potassium, total sodium, chloride, sulfate, total organic carbon, and barium. Vinyl chloride was not reported in the 2015 L-INF sample, and has not been since 2011.

The LP-LCD monitoring station was sampled in all four quarters of 2015. These samples continue to report elevated specific conductivity, alkalinity, ammonia, calcium, chloride, iron, manganese, sodium, sulfate, total dissolved solids and TOC compared to the groundwater results.

The volume of leachate generated per inch of precipitation (801,614 gallons relative to 61.05 inches of rain) has continued to steadily decline. This compares favorably to the previous annual total (1,106,803 gallons in 2014) and the over 2 million gallons of leachate generated annually during 2007, 2008, 2009 and 2012. Liquid volumes recorded at the LP-LCD monitoring station for the leachate pond leakage collection system indicate that approximately 2,975 gallons of liquid were returned to the pond in 2015, a similar volume to that reported in 2014. The relatively low LP-LCD volumes reported through 2015 continue to suggest that leakage through the leachate pond liner system is minimal and well controlled.

5.3 LANDFILL GAS

Methane was not detected above state regulatory standards in any of the gas monitoring probes or in any of the landfill structures during 2015. The perimeter soil gas probe monitoring results continue to demonstrate that the facility is in compliance with respect to subsurface landfill soil 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 structure gas monitoring locations during the 2015 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, structure 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 soil gas probe and structural monitoring locations. The gas collection system will continue to be monitored and optimized to enhance its performance.

6.0 REFERENCES

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TABLES

Table 1. Groundwater Well Construction Details
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well ID	Northing	Easting	Measuring Point Elevation (ft. MSL)	Well Depth (ft. bgs)	Top of Screen Elevation (ft. MSL)	Bottom of Screen Elevation (ft. MSL)	Screen Length (ft.)
Water Quality Monitoring 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-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-36A	189754.10	1156935.20	192.68	50	147	142	5
MW-39	190362.60	1158325.32	189.92	25	174	164	10
MW-42	188690.50	1156617.90	187.43	33	159	154	5
MW-43	188407.60	1156636.60	186.42	30	161	156	5
Water Level Measurement Only Wells							
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-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

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

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

Notes

✓ Indicates wells were sampled for selected parameters

* Groundwater samples were analyzed for both total and dissolved metals fractions (commencing 3Q13), except As which commenced monitoring for the 4Q13 event.

[a] Sampled semi-annually in June and December 2014.

[b] The L-INF sample was analyzed for the 3-Year Appendix III parameter list in December 2015.

OBWL-TD did not contain adequate volume to sample in 2015.

Table 3. Groundwater Elevations
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location ID	Measuring Point Elevation (ft. MSL)	Q1 February 2015		Q2 May 2015		Q3 August 2015		Q4 November 2015	
		DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Water Quality Monitoring Wells									
MW-2B1	172.94	6.69	166.25	6.93	166.01	8.24	164.70	8.20	164.74
MW-4	175.78	18.25	157.53	17.27	158.51	17.25	158.53	15.33	160.45
MW-13A	288.74	58.72	230.02	58.72	230.02	58.40	230.34	58.30	230.44
MW-13B	288.66	59.62	229.04	59.95	228.71	61.40	227.26	62.21	226.45
MW-15R	180.66	18.63	162.03	18.80	161.86	19.73	160.93	19.48	161.18
MW-16	240.01	57.51	182.50	60.48	179.53	61.00	179.01	61.98	178.03
MW-19C	196.96	33.40	163.56	34.01	162.95	35.68	161.28	35.33	161.63
MW-20	198.41	35.54	162.87	36.10	162.31	37.63	160.78	37.14	161.27
MW-23A	182.28	12.04	170.24	12.32	169.96	13.78	168.50	14.21	168.07
MW-24	208.25	31.95	176.30	32.01	176.24	34.12	174.13	34.63	173.62
MW-29A	160.21	13.03	147.18	13.95	146.26	15.79	144.42	14.29	145.92
MW-32	152.36	1.33	151.03	1.75	150.61	2.77	149.59	2.11	150.25
MW-33A	147.68	5.49	142.19	5.56	142.12	6.50	141.18	8.37	139.31
MW-33C	147.59	1.90	145.69	2.52	145.07	3.80	143.79	2.60	144.99
MW-34A	197.95	39.17	158.78	39.70	158.25	41.13	156.82	40.57	157.38
MW-34C	199.89	41.02	158.87	41.52	158.37	42.82	157.07	42.40	157.49
MW-35	302.69	71.34	231.35	72.15	230.54	72.90	229.79	73.25	229.44
MW-36A	193.15	30.63	162.52	31.15	162.00	32.28	160.87	32.03	161.12
MW-39	189.92	19.05	170.87	20.73	169.19	22.92	167.00	21.71	168.21
MW-42	187.76	27.31	160.45	28.10	159.66	29.61	158.15	28.54	159.22
MW-43	186.57	24.30	162.27	25.23	161.34	28.00	158.57	27.20	159.37
Water Level Measurement Only Wells									
MW-2A1	174.22	7.79	166.43	8.10	166.12	9.46	164.76	9.21	165.01
MW-5	164.37	2.29	162.08	2.75	161.62	4.28	160.09	NM	--
MW-9	160.34	2.10	158.24	3.20	157.14	12.83	147.51	3.13	157.21
MW-10	155.12	3.74	151.38	4.65	150.47	5.91	149.21	4.72	150.40
MW-11	155.04	4.10	150.94	NM	--	NM	--	NM	--
MW-12	233.09	49.83	183.26	48.15	184.94	51.70	181.39	51.88	181.21
MW-13	288.94	28.93	260.01	36.85	252.09	33.00	255.94	31.51	257.43
MW-14	228.22	NM	--	NM	--	NM	--	NM	--
MW-17	208.01	32.87	175.14	44.80	163.21	45.00	163.01	36.62	171.39
MW-18	258.34	48.03	210.31	63.58	194.76	66.30	192.04	67.91	190.43
MW-19A	195.74	32.13	163.61	32.82	162.92	34.45	161.29	NM	--
MW-19B	195.82	32.23	163.59	32.85	162.97	34.50	161.32	NM	--
MW-19D	196.83	32.35	164.48	32.90	163.93	34.65	162.18	NM	--
MW-21	156.03	4.97	151.06	5.81	150.22	7.13	148.90	5.91	150.12
MW-23B	182.42	12.33	170.09	12.59	169.83	14.14	168.28	14.53	167.89
MW-23C	182.41	12.40	170.01	12.74	169.67	14.38	168.03	14.84	167.57
MW-26	189.73	10.35	179.38	14.35	175.38	16.71	173.02	14.19	175.54
MW-27	200.65	21.02	179.63	34.00	166.65	34.19	166.46	25.08	175.57
MW-28	181.05	4.00	177.05	5.62	175.43	6.60	174.45	7.15	173.90
MW-29B	161.69	16.78	144.91	17.55	144.14	19.24	142.45	18.32	143.37
MW-29C	156.92	11.46	145.46	12.27	144.65	14.14	142.78	12.97	143.95
MW-30A	166.74	23.54	143.20	24.40	142.34	26.99	139.75	25.24	141.50
MW-30B	166.60	23.37	143.23	24.23	142.37	25.86	140.74	25.07	141.53
MW-31	148.28	2.21	146.07	3.18	145.10	4.92	143.36	5.03	143.25
MW-33B	147.55	1.85	145.70	NM	--	3.85	143.70	2.70	144.85
MW-34B	198.93	39.03	159.90	39.45	159.48	40.69	158.24	40.38	158.55
MW-36	189.39	30.83	158.56	NM	--	36.60	152.79	32.11	157.28
MW-37	145.93	2.06	143.87	4.88	141.05	6.36	139.57	4.03	141.90
MW-38	149.93	4.40	145.53	4.63	145.30	6.24	143.69	3.92	146.01
MW-40A	176.63	13.70	162.93	15.58	161.05	21.22	155.41	18.79	157.84
MW-40B	176.72	13.65	163.07	15.70	161.02	17.61	159.11	15.85	160.87
MW-40C	176.78	14.25	162.53	16.10	160.68	17.88	158.90	16.25	160.53
MW-41A	195.91	23.61	172.30	31.50	164.41	31.00	164.91	NM	--
MW-41B	196.24	24.01	172.23	24.80	171.44	27.10	169.14	27.88	168.36
MW-41C	196.15	25.64	170.51	26.25	169.90	28.43	167.72	28.94	167.21

Notes:

Dry = Well did not contain adequate water to measure

DTW = Depth to Water (ft)

WLE = Water level elevation

Elevations, ft. MSL

NM = Not measured due to access issues

-- = Groundater elevation not calculated

Table 4A. Detections and Field Measurements - Compliance Monitoring Wells
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-15R 2/24/2015	MW-15R 5/20/2015	MW-15R 8/26/2015	MW-15R 11/11/2015	MW-34A 2/24/2015	MW-34A 5/19/2015	MW-34A 8/24/2015	MW-34A 11/9/2015	MW-34C 2/24/2015	MW-34C 5/19/2015	MW-34C 8/24/2015	MW-34C 11/9/2015	MW-39 2/23/2015	MW-39 5/19/2015	MW-39 8/26/2015	MW-39 11/11/2015	MW-42 2/25/2015	MW-42 5/21/2015	MW-42 8/24/2015	MW-42 11/9/2015	MW-43 2/24/2015	MW-43 5/20/2015	MW-43 8/24/2015	MW-43 11/9/2015
Field Parameter																									
Dissolved Oxygen	mg/L	0.69	0.74	0.67	0.56	5.01	7.14	4.38	1.01	0.3	0.88	1.99	0.29	0.4	1.48	0.18	0.15	0.24	1.87	0.18	0.11	3.27	3.18	1.65	1.48
Oxidation Reduction Potential	mV	53.2	96	268.7	59.8	34.5	165	163.6	267.3	-53.2	83	331	47.1	41.5	69	-77.1	3	-43.1	-109	-117	-76	333	141	174	122
pH	pH	5.67	6.31	6.54	6.67	6.8 J	5.47	5.97	6.24	7.35 J	6.33	6.54	6.84	6.2	5.82	6.29	6.49	6.9 J	6.58	6.5	6.52	6.5 J	5.97	5.73	5.58
Specific Conductivity	umhos/cm	127	172	134	136	114	110	147	168	183	212	228	246	147	224	216	230	400	541	496	479	40	42	46	77
Temperature	deg C	10.03	10.5	10.4	10.22	12.02	12.6	12.61	12.15	12.69	13.1	13.6	12.96	11.41	10.8	11.55	11.71	12.01	12.58	13.87	12.59	9.24	9.71	12.6	11.72
Turbidity	NTU	3.97	1.33	2.51	1	0.54	0.83	0.3	1	39.12	434	10.34	NM	3.98	0.27	26.22	2.39	4.35	2	3.8	3.92	4	5	8.48	2.23
General Chemistry																									
Alkalinity, Bicarbonate (As CaCO3)	mg/L	84	82	69	75	66	55	64	81	120	120	100	120	78	84	85	100	230	220	180	210	14	14	15	26
Alkalinity, Total (As CaCO3)	mg/L	84	82	69	75	66	55	64	81	120	120	100	120	78	84	85	100	230	220	180	210	14	14	15	26
Ammonia (as N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.27	0.46	0.48	0.41	6.7	6.4	5.9	5.4	0.06	0.054	--	0.033
Calcium, Dissolved	mg/L	16	16	13	17	14	10	13	15	25	22	23	24	11	11	12	13	41	39	37	35	3.2	3.8	3.9	6.5
Chloride	mg/L	2.4	2.4	2.7	2.7	2.9	2.3	2.4	3.3	4.7	4.2	4.6	4.8	2.9	5.3	7.8	5.6	15	18	14	13	--	1.8	2	2.1
Iron, Dissolved	mg/L	0.49	0.082	--	--	--	--	--	--	7.8	0.41	0.67	0.44	28	34	34	39	26	25	23	21	0.51	0.52	--	0.19
Iron, Total	mg/L	0.41	--	--	--	--	--	--	--	7.5	100	22	89	27	35	36	40	26	25	23	21	0.76	0.33	0.37	0.24
Magnesium, Dissolved	mg/L	9.8	10	9.3	8.7	6.7	5.1	6.7	7.7	11	10	10	10	6.5	7.5	7.6	7.6	16	16	14	13	1.4	1.6	1.7	2.6
Manganese, Dissolved	mg/L	0.031	0.0016	0.0033	0.0022	--	--	--	0.0019	0.69	0.53	0.55	0.59	0.27	0.46	0.44	0.53	4.9	4.9	4.2	3.9	0.15	0.11	0.0062	0.12
Manganese, Total	mg/L	0.021	0.0015	0.0046	0.0029	--	0.0012	--	0.0018	0.65	12	1.1	3.5	0.27	0.46	0.47	0.49	4.8	4.7	4.2	4.2	0.13	0.1	0.0075	0.13
Nitrate (As N)	mg/L	0.19	--	--	0.18	1.1	0.93	--	1.4	--	--	--	--	0.12	--	--	--	0.1	--	--	--	0.48	0.6	--	2.2
Nitrite (As N)	mg/L	--	--	0.28	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.22	--
Potassium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	1.1	1.2	1.3	1.1	--	--	--	8	7.6	7.4	7.7	--	--	--	--
Sodium, Dissolved	mg/L	6.3	5.1	5.1	5.3	8.6	7	8.1	8.9	14	12	12	12	5.8	8.1	8.3	8.9	22	22	20	20	2.3	2.1	2.4	3.6
Sulfate	mg/L	5.6	5	4.9	4.5	4.1	3	2	2.3	5.9	5	5.9	5.9	1.2	--	--	--	12	11	10	9.6	2	1.8	1.8	1.5
Total Dissolved Solids (TDS)	mg/L	110	110	100	110	110	110	120	130	170	180	170	180	100	120	120	140	260	260	270	250	29	38	37	50
Total Organic Carbon (TOC)	mg/L	--	--	--	--	--	--	--	--	1.1	3.5	--	3.8	2.8	2.5	--	2.8	7.4	7.2	--	6.4	1	--	--	1.1
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	330	--	88	--	41	--	130	--	39	--	11	--	--	--	--
Metals		--																							
Antimony, Dissolved	mg/L	0.0013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony, Total	mg/L	0.0013	0.0012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic, Dissolved	mg/L	0.0002	0.00019	0.00014	0.0002	0.00043	0.00041	0.0004	0.0004	0.00119	0.00144	0.0014	0.0013	0.00124	0.00218	0.00172	0.0017	0.0015	0.00163	0.0016	0.0016	--	--	--	--
Arsenic, Total	mg/L	0.0002	0.00022	0.00017	0.0002	0.00042	0.00045	0.00043	0.0004	0.00119	0.0746	0.0155	0.0846	0.00133	0.00216	0.0019	0.0015	0.0015	0.00163	0.00162	0.0017	--	--	--	0.0001
Barium, Dissolved	mg/L	0.0069	0.0045	0.0039	0.004	0.0044	0.0035	0.0035	0.0046	0.034	0.0072	0.0074	0.0077	0.043	0.012	0.014	--	0.13	0.12	0.098	0.09	0.0036	0.0038	0.0029	0.0079
Barium, Total	mg/L	0.006	0.0043	0.0053	0.0043	0.0039	0.0026	0.003	0.0049	0.032	0.39	0.086	0.31	0.041	0.012	0.015	--	0.12	0.12	0.095	0.1	0.0036	0.0036	0.003	0.0073
Chromium, Dissolved	mg/L	--	--	--	--	0.0049	0.0063	0.0059	--	--	--	--	--	0.0032	--	--	--	--	--	--	--	--	--	--	--
Chromium, Total	mg/L	--	--	--	--	0.0046	0.0063	0.006	0.0035	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0047	0.0069	0.007	--	--	--	--	--	--	--	--	--
Cobalt, Total	mg/L	--	--	--	--	--	--	--	--	--	0.016	--	0.0049	0.0046	0.0067	0.0074	--	--	--	--	--	--	--	--	--
Copper, Total	mg/L	--	--	--	--	--	--	--	--	--	0.011	0.0041	0.01	--	--	--	--	--	--	--	--	--	--	--	--
Lead, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0021	--	--	--	--	--	--	--	--	--	--	--
Lead, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0018	--	--	--	--	--	--	--	--	--	--	--
Nickel, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0042	--	--	--	--	--	--	--	--	--	--	--
Nickel, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0049	--	--	--	--	--	--	--	--
Vanadium, Dissolved	mg/L	0.0049	0.0038	0.0024	0.0031	0.0043	0.0045	0.0045	0.0036	--	--	--	--	0.0075	0.002	--	--	0.0044	--	--	--	--	--	--	--
Vanadium, Total	mg/L	0.0044	0.003	0.0028	0.003	0.0041	0.0038	0.0046	0.0042	--	0.013	0.0022	0.0086	0.0077	--	0.0021	--	0.0038	--	--	--	--	--	--	--
Zinc, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0061	--	--	--	--	--	--	--	--	--	--	--
Zinc, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00067	--	--	--	--	--	--	--	--
Volatile Organic Compounds																									
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3 J	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	--	--	--	--	--	--	0.1	0.11	0.08	0.084	--	--	--	--	0.029	0.059 B	0.11	0.12	--	--	--	--

Notes:

$CaCO_3$ = Calcium carbonate
deg-C = Degrees Celcius
J = Conentration is estimated
µmhos/cm = Microhms per centimeter
µg/L = Micrograms per liter
mg/L = Miligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit
NM = Not Measured, see field notes
B = Anaylte detected in sample blank

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

Table 4B. Detections and Field Measurements - Performance Monitoring Wells
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-2B1 2/23/2015	MW-2B1 5/19/2015	MW-2B1 8/26/2015	MW-2B1 11/10/2015	MW-4 2/25/2015	MW-4 5/21/2015	MW-4 8/27/2015	MW-4 11/11/2015	MW-19C 2/23/2015	MW-19C 5/18/2015	MW-19C 8/25/2015	MW-19C 11/11/2015	MW-20 2/23/2015	MW-20 5/21/2015	MW-20 8/26/2015	MW-20 11/9/2015	MW-23A 2/25/2015	MW-23A 5/18/2015	MW-23A 8/25/2015	MW-23A 11/10/2015	MW-24 2/24/2015	MW-24 5/19/2015	MW-24 8/24/2015	MW-24 11/11/2015
Field Parameter																									
Dissolved Oxygen	mg/L	0.11	0.87	0.2	2.07	0.21	0.43	0.2	2.09	0.25	1.63	0.41	0.18	5.6	NM	0.59	0.93	0.26	0.21	0.54	0.17	0.22	1.42	0.18	0.13
Oxidation Reduction Potential	mV	86.3	172	72	181	39.5	253	111	65.6	60.9	-18	-21	32.3	106.5	96	94.9	113	301	83	29	26	375	168	105	115
pH	pH	5.54	6.02	6.22	5.09	7.0 J	6.05	6.43	6.25	6.92	6.93	6.65	6.62	5.79	6.65	6.56	6.56	7.01 J	5.45	6.15	5.54	6.96 J	6.36	6.24	6.11
Specific Conductivity	umhos/cm	79	200	199	88	106	136	134	84	106	122	154	134	232	362	364	287	173	171	195	213	146	127	135	145
Temperature	deg C	12.54	13.8	16.01	13.62	9.85	9.7	10.4	10.19	10.66	12.22	13.06	10.32	14.61	15.69	15.53	14.77	12.38	13	16.19	13.02	11.98	14.56	13.05	11.9
Turbidity	NTU	1.6	0.33	2.17	4.97	3	1.69	2.18	7.64	1	4	2.7	1.35	2	1	1.26	4.95	77	2.2	9.56	9.16	19	4	4.92	NM
General Chemistry																									
Alkalinity, Bicarbonate (As CaCO3)	mg/L	49	140	84	36	51	61	59	39	72	69	65	70	94	140	170	120	88	80	86	100	69	56	58	64
Alkalinity, Total (As CaCO3)	mg/L	49	140	84	36	51	61	59	39	72	69	65	70	94	140	170	120	88	80	86	100	69	56	58	64
Ammonia (as N)	mg/L	1.3	2.9	2.4	0.11	--	--	0.064		0.52	0.51	0.53	0.56	--	0.034	0.033	--	--	--	0.039	0.034	--	--	--	--
Calcium, Dissolved	mg/L	9.6	23	17	9.1	9.5	12	11	8	13	13	13	13	27	30	33	26	19	17	19	22	13	11	12	13
Chloride	mg/L	--	2.9	--	1.4	2.1	2.4	2.3	2.7	2.5	2.8	2.7	2.9	15	13	18	9.5	2.6	2.8	2.7	2.6	3	2.9	2.9	2.7
Iron, Dissolved	mg/L	0.22	0.075	0.2	--	--	--	--		0.081	0.12	0.12	0.12	--	--	--	--	0.12	0.35	0.68	0.81	--	--	--	--
Iron, Total	mg/L	0.16	0.13	0.24	0.2	--	--	--	0.42	0.098	0.23	0.12	0.11	--	--	0.063	--	0.75	0.59	1.5	1.3	0.21	0.23	0.39	0.53
Magnesium, Dissolved	mg/L	3.3	7.2	5.5	3.2	5	6.3	6.3	3.8	6.7	7	7.1	6.7	15	18	20	15	8.8	8.3	9.1	11	7.9	6.7	7.1	6.9
Manganese, Dissolved	mg/L	0.43	2.7	2.5	0.64	0.082	0.53	0.9	0.24	0.94	1	1	1.3	--	0.069	0.15	0.14	0.67	1.6	2.2	2.5	1.1	0.1	0.88	1.1
Manganese, Total	mg/L	0.42	2.7	2.5	0.7	0.21	0.59	0.96	5.4	0.92	1.1	0.99	1.1	0.0071	0.087	1.1	0.18	0.78	1.7	2.3	2.5	1.6	0.79	1.7	2.3
Nitrate (As N)	mg/L	--	0.22	--	1.3	--	--	--	0.79	--	--	--	--	8.4	5	--	3.4	--	--	--	--	0.11	0.27	--	0.14
Nitrite (As N)	mg/L	--	--	0.19	--	--	--	--	--	--	--	--	--	--	--	5.4	--	--	--	--	--	--	--	0.19	--
Potassium, Dissolved	mg/L	1.7	3.8	2.7	--	--	--	--	--	1.3	1.3	1.4	1.5	3.8	3.8	3.3	3.6	--	--	1.1	--	--	--	--	--
Sodium, Dissolved	mg/L	4.2	6.4	5.5	2.5	5.5	6.4	6	4.7	5.5	5.7	5.7	6	14	14	10	11	5.4	5.4	5.9	6.2	5.1	5.1	4.9	5.3
Sulfate	mg/L	4.5	3.8	6.8	2.4	4.1	4.6	4.7	2.5	4.1	4.5	5	4.8	9.4	11	12	8.7	4	3.9	4.6	3.9	5.4	4	4.8	4.7
Total Dissolved Solids (TDS)	mg/L	79	140	120	68	77	90	96	6.7	100	110	110	110	200	200	250	200	120	140	130	140	93	94	90	100
Total Organic Carbon (TOC)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	--	--	--	--	--	--
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--	9.2
Metals																									
Arsenic, Dissolved	mg/L	0.00066	0.00061	0.00048	0.0002	0.00035	0.00047	0.00062	0.0004	0.00322	0.00265	0.0028	0.0029	0.0002	0.00018	0.0002	0.0002	0.00008	0.00011	0.0001	--	0.00026	0.00017	0.00021	0.0002
Arsenic, Total	mg/L	0.0007	0.00065	0.0005	0.0004	0.0004	0.00055	0.00069	0.001	0.00324	0.00293	0.00291	0.0028	0.0001	0.00017	0.0002	0.0002	0.00026	0.00019	0.00045	0.0003	0.00042	0.00048	0.00052	0.0006
Barium, Dissolved	mg/L	0.0048	0.012	0.0093	0.0045	0.0021	0.0021	0.002	0.0026	0.0034	0.0035	0.0032	0.0045	0.011	0.011	0.0098	0.0063	0.0075	0.0058	0.0069	0.013	0.0024	0.0018	0.0024	0.0031
Barium, Total	mg/L	0.0042	0.011	0.011	0.0047	0.0024	0.0023	0.0016	0.021	0.0031	0.0036	0.0037	0.0036	0.011	0.012	0.02	0.0067	0.011	0.0064	0.0085	0.013	0.004	0.0037	0.0065	0.0092
Cobalt, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0037
Nickel, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0085	--	--	--	--	--	--	--	--	--
Vanadium, Total	mg/L	--	--	--	--	--	--	--	0.007	--	--	--	--	--	--	0.0025	--	--	--	0.0027	--	--	--	0.0022	0.0031
Zinc, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.014	--	--	--	--	--	--
Zinc, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0056	--	--	--	--	--	--
Volatile Organic Compounds																									
Aceton	ug/L	--	--	--	--	--	--	--	--	--	--	--	3.5	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	0.46 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	0.15 J	--	--	--	--	--	--	--	0.24 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	0.18 J	--	--	--	--	--	--	1.3	1.2	1.1	1.1	--	--	0.6	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	0.031	0.0044	0.028	0.084 B	0.21	0.021	0.029	0.028 B	0.038	0.09	--	0.026 B	0.048	--	--	--	0.015	0.011	--	--	--	0.0054

Notes:

$CaCO_3$ = Calcium carbonate
deg-C = Degrees Celcius
J = Conentration is estimated
µmhos/cm = Microhms per centimeter
µg/L = Micrograms per liter
mg/L = Miligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit
NM = Not Measured, see field notes
B = Anaylte detected in sample blank

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

Table 4C. Detections and Field Measurements - Downgradient Monitoring Wells
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-29A 5/20/2015	MW-29A 11/9/2015	MW-32 2/25/2015	MW-32 5/20/2015	MW-32 8/27/2015	MW-32 11/11/2015	MW-33A 5/20/2015	MW-33A 11/11/2015	MW-33C 2/24/2015	MW-33C 5/20/2015	MW-33C 8/27/2015	MW-33C 11/11/2015	MW-36A 2/24/2015	MW-36A 5/21/2015	MW-36A 8/26/2015	MW-36A 11/11/2015
Field Parameter																	
Dissolved Oxygen	mg/L	0.89	0.18	0.3	0.68	0.22	0.18	2.15	0.4	0.28	0.46	0.18	0.13	1.79	1.86	1.35	3.17
Oxidation Reduction Potential	mV	41	14	240	80	-44	17.6	15	29	155	110	-153	-89	75	252	271.6	61.6
pH	pH	6.34	6.16	7.36 J	6.37	6.62	6.88	7.18	6.06	8.00 J	7.28	7.58	7.5	6.92 J	5.61	6.17	6.42
Specific Conductivity	umhos/cm	87	89	254	261	382	350	124	102	152	1.52	154	158	103	140	109	109
Temperature	deg C	9.87	11.58	11.85	11.8	13.54	12.55	9.82	10.05	8.73	9.6	10.05	9.43	9.21	9.6	9.56	9.3
Turbidity	NTU	3	2.29	5	1.4	3.49	2.03	6	NM	37	1.74	4.38	NM	1.55	1.9	1.09	1
General Chemistry																	
Alkalinity, Bicarbonate (As CaCO3)	mg/L	41	44	140	--	150	160	60	48	68	66	63	66	61	60	55	62
Alkalinity, Total (As CaCO3)	mg/L	41	44	140	--	150	160	60	48	68	66	63	66	61	60	55	62
Ammonia (as N)	mg/L	0.095	0.067	--	--	--	0.039	--	0.21	--	--	--	--	--	--	--	--
Calcium, Dissolved	mg/L	7.3	6.4	23	--	36	36	14	11	17	17	16	17	10	9.6	9.1	9.4
Chloride	mg/L	1.6	2	9.6	--	16	12	2.8	2.3	3.1	3	3.2	3	1.4	1.5	1.5	1.9
Iron, Dissolved	mg/L	4.4	3.6	0.57	--	0.87	0.83	0.89	0.58	--	0.25	--	--	0.11	--	--	--
Iron, Total	mg/L	3.7	3.4	0.64	--	0.94	0.85	0.25	1.8	0.16	--	0.33	0.15	0.11	--	--	--
Magnesium, Dissolved	mg/L	4.2	3.7	12	--	20	17	6.8	4.8	7.2	7	7.1	6.5	6.7	7	6.8	6.4
Manganese, Dissolved	mg/L	1.5	1.3	1.9	--	2.8	3	0.021	0.089	0.15	0.14	0.14	0.14	0.0038	--	--	--
Manganese, Total	mg/L	1.4	1.3	2.1	--	2.9	2.9	0.019	0.094	0.16	0.13	0.25	0.19	0.0034	--	0.001	--
Nitrate (As N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	2	2.5	--	0.39
Nitrite (As N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	--
Potassium, Dissolved	mg/L	--	--	--	--	1.3	1.3	--	--	1.2	1.3	1.3	1.3	--	--	--	--
Sodium, Dissolved	mg/L	3.2	4.7	12	--	17	17	3.6	3.4	4.2	3.9	4	4.2	8	6.6	5.9	6.2
Sulfate	mg/L	1.2	1.2	12	--	20	16	3.6	2.1	8.9	7.4	8.9	8.9	2.7	1.8	2.8	2.8
Total Dissolved Solids (TDS)	mg/L	66	58	180	--	260	260	89	83	96	100	100	100	100	130	100	110
Total Organic Carbon (TOC)	mg/L	1.4	1.6	--	--	--	1.8	--	2.3	--	--	--	--	--	--	--	--
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	--	4.4	4	--	--	--	--	--	--	--	--
Metals																	
Arsenic, Dissolved	mg/L	0.00152	0.0016	0.0091	0.0091	0.00953	0.0096	0.00011	0.0001	0.00235	0.00248	0.00248	0.0024	0.00055	0.00056	0.00051	0.0005
Arsenic, Total	mg/L	0.00191	0.0017	0.0094	0.0105	0.0099	0.0094	0.0002	0.0002	0.00227	0.00263	0.00267	0.0025	0.00058	0.00058	0.00051	0.0005
Barium, Dissolved	mg/L	0.0073	0.0077	0.0041	--	0.0063	0.0071	0.0016	0.002	0.0038	0.0038	0.0035	0.0046	0.0026	0.0022	0.0015	0.0037
Barium, Total	mg/L	0.0079	0.0085	0.0054	--	0.0057	0.0074	0.0012	0.0028	0.0041	0.0035	0.0044	0.0047	0.0026	0.0026	0.0033	0.0025
Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.013	0.0089	0.0082	0.0095
Chromium, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.012	0.0089	0.0079	0.0086
Vanadium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0034	0.0023	0.0024	0.003
Vanadium, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0032	0.0031	0.0027	0.0028
Zinc, Total	mg/L	0.0065	--	--	--	--	--	--	--	0.0056	--	--	--	--	--	--	--
Volatile Organic Compounds																	
Chlorobenzene	ug/L	--	--	--	0.37 J	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	0.56 J	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	0.47 J	0.46	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	0.44	0.34 J	0.27	0.33	--	--	--	--	--	0.0079	--	--	--	--

Notes:

$CaCO_3$ = Calcium carbonate

deg-C = Degrees Celcius

J = Conentration is estimated

µmhos/cm = Microhms per centimeter

µg/L = Micrograms per liter

mg/L = Miligrams per liter

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

Table 4D. Detections and Field Measurements - Upgradient Monitoring Wells
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-13A 2/23/2015	MW-13A 5/19/2015	MW-13A 8/26/2015	MW-13A 11/10/2015	MW-13B 2/23/2015	MW-13B 5/19/2015	MW-13B 8/26/2015	MW-13B 11/10/2015	MW-16 2/23/2015	MW-16 5/20/2015	MW-16 8/26/2015	MW-16 11/11/2015	MW-35 2/25/2015	MW-35 5/19/2015	MW-35 8/26/2015	MW-35 11/10/2015
Field Parameter																	
Dissolved Oxygen	mg/L	5.92	NM	6.46	5.83	6.43	1.49	6.99	6.21	8.44	NM	6.32	5.75	6.22	8.42	6.62	5.89
Oxidation Reduction Potential	mV	491	241	194	135	466	211	173	123	95.5	296	336.1	198	372	238	154	133
pH	pH	NM	7.03	7.07	6.68	NM	7.65	7.59	7.28	6.48	6.51	6.35	6.13	7.77 J	6.72	7.25	6.92
Specific Conductivity	umhos/cm	165	164	166	169	164	165	164	169	80	101	97	136	152	135	153	156
Temperature	deg C	9.41	9.89	10.69	9.49	9.76	10.23	10.53	9.59	9.02	9.3	9.48	9.01	9.9	10.3	13.09	10.34
Turbidity	NTU	4	1	2.48	0.37	2	0	2.15	1.13	2.47	2	1.5	NM	1	0.18	4.62	0.34
General Chemistry																	
Alkalinity, Bicarbonate (As CaCO3)	mg/L	84	82	77	81	82	81	76	79	52	51	51	65	77	75	71	75
Alkalinity, Total (As CaCO3)	mg/L	84	82	77	81	82	81	76	79	52	51	51	65	77	75	71	75
Calcium, Dissolved	mg/L	15	16	15	--	17	17	16	17	9.5	10	9.8	12	15	13	13	15
Chloride	mg/L	1.8	1.9	2.1	15	2	2	2.1	2	1.2	1.4	1.1	--	1.8	1.9	1.9	1.8
Iron, Dissolved	mg/L	--	--	--	1.9	--	--	--	--	0.19	0.074	--	--	--	--	--	--
Iron, Total	mg/L	--	--	--	--	--	--	--	--	0.31	--	--	--	--	--	--	--
Magnesium, Dissolved	mg/L	9.2	9.5	9.3	9.1	8.6	8.9	8.8	8.6	5.7	5.7	5.9	6.7	9.3	8.5	9	9.3
Manganese, Dissolved	mg/L	--	--	--	--	--	--	--	--	0.032	0.0036	0.003	--	--	--	--	--
Manganese, Total	mg/L	--	--	--	--	--	--	--	--	0.062	0.0035	0.0012	0.0014	--	0.0014	--	--
Nitrate (As N)	mg/L	0.47	0.45	--	0.44	0.45	0.45	--	0.45	0.26	0.55	--	0.19	0.41	0.4	--	0.41
Nitrite (As N)	mg/L	--	--	0.41	--	--	--	0.44	--	--	--	0.38	--	--	--	0.4	--
Sodium, Dissolved	mg/L	5.2	5.5	5.3	5.4	5	5.5	5.2	5.2	4.7	4.6	4.9	5.7	5.2	4.8	5.1	5.5
Sulfate	mg/L	2.1	2.1	2.3	2.1	3.4	3.1	3.7	3.2	2.9	2.1	3.4	2.9	2.4	2.3	2.4	2.5
Total Dissolved Solids (TDS)	mg/L	99	100	97	100	110	110	98	100	80	99	93	99	93	110	99	98
Metals																	
Antimony, Dissolved	mg/L	--	--	--	--	--	--	--	--	0.0012	--	--	--	--	--	--	--
Antimony, Total	mg/L	--	--	--	--	--	--	--	--	0.0011	--	--	0.0013	--	--	--	--
Arsenic, Dissolved	mg/L	0.00022	0.00017	0.0002	0.0002	0.00035	0.0003	0.0003	0.0003	0.00038	0.00031	0.0003	0.0003	0.0001	0.0001	0.00011	0.0001
Arsenic, Total	mg/L	0.00021	0.00018	0.00019	0.0002	0.00036	0.00031	0.00031	0.0003	0.00037	0.00034	0.00032	0.0003	0.00011	0.00011	0.00011	0.0001
Barium, Dissolved	mg/L	0.0029	0.0025	0.0021	0.0033	0.0035	0.0037	0.004	0.0039	0.0036	0.0031	0.0037	0.004	0.0029	0.0028	0.0033	0.0042
Barium, Total	mg/L	0.0024	0.0023	0.0033	0.003	0.0034	0.0033	0.0039	0.0036	0.0036	0.0034	0.0038	0.0043	0.003	0.0031	0.0029	0.003
Chromium, Dissolved	mg/L	--	--	--	--	--	0.003	0.003	0.0031	0.0075	0.0067	0.0069	0.0077	--	--	--	--
Chromium, Total	mg/L	--	--	--	--	--	0.003	--	0.0033	0.009	0.007	0.0064	0.0071	--	--	--	--
Vanadium, Dissolved	mg/L	0.004	0.0044	0.003	0.0042	0.0053	0.0059	0.0051	0.0057	0.0042	0.0039	0.0038	0.0038	0.005	0.0042	0.0039	0.0043
Vanadium, Total	mg/L	0.0042	0.0034	0.0039	0.004	0.0054	0.0054	0.0056	0.0058	0.0051	0.0042	0.0032	0.0034	0.0048	0.0042	0.0041	0.0043
Volatile Organic Compounds																	
Carbon disulfide	ug/L	--	--	0.23	--	--	--	--	0.0067	--	--	--	0.025	--	--	--	0.0086

Notes:

$CaCO_3$ = Calcium carbonate
deg-C = Degrees Celcius
J = Conentration is estimated
µmhos/cm = Microhms per centimeter
µg/L = Micrograms per liter
mg/L = Miligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit
NM = Not Measured, see field notes
Parameters not listed above were not detected at any of the above listed sample locations during the reporting year

Table 4E. Detections and Field Measurements - Leachate and Leak Detection Locations
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	L-INF* 11/11/2015	LP-LCD 3/25/2015	LP-LCD 5/22/2015	LP-LCD 8/26/2015	LP-LCD 12/3/2015
Field Parameter						
Dissolved Oxygen	mg/L	2.57	7.34	10.15	NM	7.51
Oxidation Reduction Potential	mV	131	34.2	18.2	49.3	-25.8
pH	pH	7.07	7.32	7.24	7.41	7.19
Specific Conductivity	umhos/cm	3480	4037	4073	3684	3929
Temperature	deg C	12.23	10.99	16.46	19.45	10.34
Turbidity	NTU	5.15	7.39	8.81	NM	NM
General Chemistry						
Alkalinity, Bicarbonate (As CaCO3)	mg/L	460	820	790	--	830
Alkalinity, Total (As CaCO3)	mg/L	460	820	790	--	830
Ammonia (as N)	mg/L	2.1	6.1	8	7	4.5
Biochemical Oxygen Demand	mg/L	120	--	4.5	4.6	3.6
Calcium, Total	mg/L	120	59	48	51	59
Chemical Oxygen Demand	mg/L	170	--	170	--	170
Chloride	mg/L	640	670	600	650	660
Iron, Total	mg/L	--	0.49	0.56	0.34	0.46
Magnesium, Total	mg/L	57	34	29	29	38
Manganese, Total	mg/L	0.13	0.82	0.76	0.63	0.82
Nitrate/Nitrite	mg/L	49	--	--	--	--
Potassium, Total	mg/L	76	69	71	86	77
Sodium, Total	mg/L	510	830	750	810	790
Sulfate	mg/L	270	270	260	290	280
Total Dissolved Solids (TDS)	mg/L	220	2400	2400	2400	2300
Total Organic Carbon (TOC)	mg/L	61	61	62	--	61
Metals						
Antimony, Dissolved	mg/L	0.0071	NA	NA	NA	NA
Arsenic, Dissolved	mg/L	0.0073	NA	NA	NA	NA
Arsenic, Total	mg/L	0.0072	NA	NA	NA	NA
Barium, Dissolved	mg/L	0.1	NA	NA	NA	NA
Chromium, Dissolved	mg/L	0.0047	NA	NA	NA	NA
Cobalt, Dissolved	mg/L	0.0078	NA	NA	NA	NA
Copper, Dissolved	mg/L	0.014	NA	NA	NA	NA
Nickel, Dissolved	mg/L	0.075	NA	NA	NA	NA
Vanadium, Dissolved	mg/L	0.0096	NA	NA	NA	NA
Zinc, Dissolved	mg/L	0.028	NA	NA	NA	NA
Volatile Organic Compounds						
Vinyl chloride	ug/L	--	--	--	--	--

Notes:

$CaCO_3$ = Calcium carbonate

deg-C = Degrees Celcius

J = Conentration is estimated

µmhos/cm = Microhms per centimeter

µg/L = Micrograms per liter

mg/L = Miligrams per liter

NA = Not Analyed

mV = Milivolts

N = Nitrogen

NTU = Nephelometric turbidity units

SU = Standard units

-- = Parameter not detected above the project-specific reporting limit

NM = Not Measured, see field notes

Parameters not listed above were not detected at any of the above listed sample locations during the reporting year.INF sample

* Sample L-INF: none of the Appendix III parameters (SVOCs, PCBs, pesticides, herbicides, total sulfide) were detected.

Table 5. 2015 Groundwater and Leachate VOC Detections
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	Event	Well Type	Well	Result
1,4-Dichlorobenzene	µg/L	Q215	Performance	MW-2B1	0.46 J
Acetone	µg/L	Q215	Compliance	MW-42	3 J
		Q415	Performance	MW-19C	3.5
Carbon disulfide	µg/L	Q315	Upgradient	MW-13A	0.23
Chlorobenzene	µg/L	Q215	Downgradient	MW-32	0.37 J
cis-1,2-Dichloroethene	µg/L	Q215	Downgradient	MW-32	0.56 J
			Performance	MW-19C	0.24 J
			Performance	MW-2B1	0.15 J
Methylene Chloride	µg/L	Q215	Performance	MW-19C	0.32 J B
				MW-24	1.3 J B
				MW-2B1	1.1 J B
Trichloroethene	µg/L	Q115	Performance	MW-19C	1.3
		Q215	Downgradient	MW-32	0.47 J
			Performance	MW-19C	1.2
				MW-19C	1
				MW-2B1	0.18 J
		Q315	Downgradient	MW-32	0.46
			Performance	MW-19C	1.1
				MW-20	0.6
		Q415	Performance	MW-19C	1.1
Vinyl chloride	µg/L	Q115	Compliance	MW-34C	0.1
				MW-42	0.029
			Downgradient	MW-32	0.44
			Performance	MW-19C	0.029
				MW-4	0.028
		Q215	Compliance	MW-34C	0.11
				MW-42	0.059 B
			Downgradient	MW-32	0.34 J
			Performance	MW-19C	0.028 B
				MW-20	0.026 B
				MW-4	0.084 B
		Q315	Compliance	MW-34C	0.08
				MW-42	0.11
			Downgradient	MW-32	0.27
			Performance	MW-19C	0.038
				MW-20	0.048
				MW-23A	0.015
				MW-2B1	0.031
				MW-4	0.21

Table 5. 2015 Groundwater and Leachate VOC Detections
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	Event	Well Type	Well	Result
Vinyl chloride (cont.)	µg/L	Q415	Compliance	MW-34C	0.084
				MW-42	0.12
			Downgradient	MW-32	0.33
				MW-33C	0.0079
			Performance	MW-19C	0.09
				MW-23A	0.011
				MW-24	0.0054
				MW-2B1	0.0044
				MW-4	0.021

J = Indicates that concentration is estimated due to low concentration in sample
B = Indicates that compound was detected in the method blank for the given parameter

Table 6A. Summary of Significant Parameter Trends by Well Type
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Significant VOC Trends		Significant Inorganic Parameter Trends	
Increasing	**Decreasing**	**Increasing**	**Decreasing**
Upgradient Wells			
None	None	Alkalinity, Bicarbonate Alkalinity, Total Nitrate Temperature	Arsenic, Dissolved Sulfate Chromium, Dissolved Chloride
Performance Wells			
None	Trichloroethene Vinyl Choride	Nitrate pH Potassium, Dissolved Sodium, Dissolved Sulfate Temperature	Alkalinity, Bicarbonate Alkalinity, Total Arsenic, Dissolved Barium, Dissolved Calcium, Dissolved Chloride Iron, Dissolved Magnesium, Dissolved Manganese, Dissolved Sodium, Dissolved Specific Conductivity Sulfate Temperature Total Dissolved Solids
Compliance Wells			
None	Vinyl Choride	Chloride pH Potassium, Dissolved Temperature	Alkalinity, Bicarbonate Alkalinity, Total Arsenic, Dissolved Barium, Dissolved Calcium, Dissolved Chloride Iron, Dissolved Magnesium, Dissolved Manganese, Dissolved Sodium, Dissolved Specific Conductivity Total Dissolved Solids
Downgradient Wells			
None	None	Chromium, Dissolved Nitrate Temperature	Alkalinity, Bicarbonate Alkalinity, Total Ammonia Arsenic, Dissolved Barium, Dissolved Calcium, Dissolved Chloride Iron, Dissolved Magnesium, Dissolved Specific Conductivity Sulfate Total Dissolved Solids Vanadium, Dissolved

Table 6B. Summary of Trends in Groundwater (2005 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Results of Sen's Non-Parametric Test for Trend

Trend Test Period: January 2005 through September 2015

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 2) performance, 3) downgradient, and 4) upgradient site monitoring wells, at least one of 22 wells comprising the network of 1) compliance,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-24 (graph 558) MW-34C (graph 565)

Table 6B. Summary of Trends in Groundwater (2005 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameterslisted 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-16 (graph 92) MW-19C (graph 93) MW-23A (graph 95) MW-24 (graph 96) MW-32 (graph 99) MW-33C (graph 101) MW-34C (graph 103) MW-36A (graph 105) MW-4 (graph 107)
Barium, dissolved	None	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-34A (graph 124) MW-36A (graph 127)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-36A (graph 237)	MW-16 (graph 224)
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	MW-36A (graph 677)
Zinc, dissolved	None	None
Nitrate (as N)	MW-20 (graph 402) MW-35 (graph 412) MW-36A (graph 413)	None
pH	MW-23A (graph 425) MW-42 (graph 438)	None

Table 6B. Summary of Trends in Groundwater (2005 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameterslisted in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Specific Conductivity	None	MW-15R (graph 531) MW-19C (graph 533) MW-23A (graph 535) MW-24 (graph 536) MW-29A (graph 537) MW-2B1 (graph 538) MW-32 (graph 539) MW-33A (graph 540) MW-34A (graph 542) MW-34C (graph 543) MW-36A (graph 545) MW-4 (graph 547)
Temperature	MW-15R (graph 575) MW-20 (graph 578) MW-2B1 (graph 582) MW-32 (graph 583) MW-33C (graph 585) MW-34A (graph 586) MW-34C (graph 587) MW-35 (graph 588)	MW-24 (graph 580)
Calcium, dissolved	None	MW-15R (graph 179) MW-23A (graph 183) MW-24 (graph 184) MW-29A (graph 185) MW-2B1 (graph 186) MW-33A (graph 188) MW-34A (graph 190) MW-34C (graph 191) MW-36A (graph 193) MW-9 (graph 198)
Bicarbonate Alkalinity (as CaCO3)	MW-13B (graph 2) MW-35 (graph 16)	MW-15R (graph 3) MW-23A (graph 7) MW-24 (graph 8) MW-2B1 (graph 10) MW-36A (graph 17) MW-4 (graph 19)

Table 6B. Summary of Trends in Groundwater (2005 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameterslisted in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Magnesium, dissolved	None	MW-15R (graph 333) MW-23A (graph 337) MW-24 (graph 338) MW-2B1 (graph 340) MW-33A (graph 342) MW-34A (graph 344) MW-34C (graph 345)
Sulfate	MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-23A (graph 557) MW-36A (graph 567) MW-4 (graph 569)
Sodium, dissolved	MW-20 (graph 512)	MW-15R (graph 509) MW-19C (graph 511) MW-23A (graph 513)
Chloride	MW-39 (216)	MW-15R (graph 201) MW-16 (graph 202) MW-19C (graph 203) MW-23A (graph 205) MW-2B1 (graph 208) MW-33A (graph 210) MW-34A (graph 212) MW-34C (graph 213) MW-35 (graph 214) MW-36A (graph 215) MW-4 (graph 217)
Potassium, dissolved	MW-20 (graph 446) MW-42 (graph 460)	None
Total Alkalinity as CaCO3	MW-13B (graph 24) MW-35 (graph 38)	MW-15R (graph 25) MW-23A (graph 29) MW-24 (graph 30) MW-2B1 (graph 32) MW-36A (graph 39)

Table 6B. Summary of Trends in Groundwater (2005 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Lanfill, Kitsap County, Washington

Trend Test B *= all metals and groundwater quality parameterslisted in Appendix I and Appendix II of WAC (173-351-990)*		
	Significant Increasing Trends	Significant Decreasing Trends
Iron, dissolved	None	MW-19C (graph 291) MW-24 (graph 294) MW-32 (graph 297) MW-34C (graph 301) MW-9 (graph 308)
Manganese, dissolved	None	MW-15R (graph 355) MW-23A (graph 359) MW-24 (graph 360) MW-34C (graph 367)
Ammonia (as N)	None	MW-29A (graph 53)
Total Organic Carbon	None	None
Total Dissolved Solids	None	MW-15R (graph 619) MW-23A (graph 623) MW-24 (graph 624) MW-2B1 (graph 626) MW-33A (graph 628) MW-34C (graph 631)

Table 7. Fourth Quarter 2015 Prediction Limit Exceedances
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Compliance	MW-34A	11/9/2015	Arsenic, Dissolved	UG/L	0.4	0.38
			Sodium, Dissolved	MG/L	8.9	6.2
	MW-34C	11/9/2015	Alkalinity, Bicarbonate (as CACO3)	MG/L	120	96
			Alkalinity, Total (as CACO3)	MG/L	120	96
			Arsenic, Dissolved	UG/L	1.3	0.38
			Barium, Dissolved	MG/L	0.0077	0.0052
			Calcium, Dissolved	MG/L	24	17.1
			Chloride	MG/L	4.8	4.4
			Iron, Dissolved	MG/L	0.44	0.097
			Manganese, Dissolved	MG/L	0.59	0.014
			Potassium, Dissolved	MG/L	1.3	1.2
			Sodium, Dissolved	MG/L	12	6.2
			Specific conductivity	mS/cm	0.246	0.18
			Total Dissolved Solids (TDS)	MG/L	180	175
	MW-39	11/11/2015	Alkalinity, Bicarbonate (as CACO3)	MG/L	100	96
			Alkalinity, Total (as CACO3)	MG/L	100	96
			Ammonia (as N)	MG/L	0.41	0.34
			Arsenic, Dissolved	UG/L	1.7	0.38
			Barium, Dissolved	MG/L	0.025	0.0052
			Chloride	MG/L	5.6	4.4
			Cobalt, Dissolved	MG/L	0.0079	0.003
			Copper, Dissolved	MG/L	0.0099	0.0094
			Iron, Dissolved	MG/L	39	0.097
			Lead, Dissolved	MG/L	0.0014	0.001
			Manganese, Dissolved	MG/L	0.53	0.014
			Nickel, Dissolved	MG/L	0.0053	0.004
			Sodium, Dissolved	MG/L	8.9	6.2
			Specific conductivity	mS/cm	0.23	0.18
			Zinc, Dissolved	MG/L	0.013	0.0096
	MW-42	11/9/2015	Alkalinity, Bicarbonate (as CACO3)	MG/L	210	96
			Alkalinity, Total (as CACO3)	MG/L	210	96
			Ammonia (as N)	MG/L	5.4	0.34
			Arsenic, Dissolved	UG/L	1.6	0.38
			Barium, Dissolved	MG/L	0.09	0.0052
			Calcium, Dissolved	MG/L	35	17.1
			Chloride	MG/L	13	4.4
			Iron, Dissolved	MG/L	21	0.097
			Magnesium, Dissolved	MG/L	13	10.93
			Manganese, Dissolved	MG/L	3.9	0.014
			Potassium, Dissolved	MG/L	7.7	1.2
			Sodium, Dissolved	MG/L	20	6.2
			Specific conductivity	mS/cm	0.479	0.18
			Total Dissolved Solids (TDS)	MG/L	250	175
			Total organic carbon (toc)	MG/L	7.2	6
	MW-43	11/9/2015	Barium, Dissolved	MG/L	0.0079	0.0052
			Iron, Dissolved	MG/L	0.19	0.097
			Manganese, Dissolved	MG/L	0.12	0.014
			Nitrate (as N)	MG/L	2.2	1.8
			pH	pH Units	5.58	5.90 - 8.23

Table 7. Fourth Quarter 2015 Prediction Limit Exceedances
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Downgradient	MW-29A	11/9/2015	Arsenic, Dissolved	UG/L	1.6	0.38
			Barium, Dissolved	MG/L	0.0077	0.0052
			Iron, Dissolved	MG/L	3.6	0.097
			Manganese, Dissolved	MG/L	1.3	0.014
	MW-32	11/11/2015	Alkalinity, Bicarbonate (as CACO3)	MG/L	160	96
			Alkalinity, Total (as CACO3)	MG/L	160	96
			Arsenic, Dissolved	UG/L	9.6	0.38
			Barium, Dissolved	MG/L	0.0071	0.0052
			Calcium, Dissolved	MG/L	36	17.1
			Chloride	MG/L	12	4.4
			Iron, Dissolved	MG/L	0.83	0.097
			Magnesium, Dissolved	MG/L	17	10.93
			Manganese, Dissolved	MG/L	3	0.014
			Potassium, Dissolved	MG/L	1.3	1.2
			Sodium, Dissolved	MG/L	17	6.2
			Specific conductivity	mS/cm	0.35	0.18
			Sulfate	MG/L	16	9.9
			Total Dissolved Solids (TDS)	MG/L	260	175
	MW-33A	11/11/2015	Iron, Dissolved	MG/L	0.58	0.097
			Manganese, Dissolved	MG/L	0.089	0.014
	MW-33C	11/11/2015	Arsenic, Dissolved	UG/L	2.4	0.38
			Manganese, Dissolved	MG/L	0.14	0.014
			Potassium, Dissolved	MG/L	1.3	1.2
	MW-36A	11/11/2015	Arsenic, Dissolved	MG/L	0.5	0.38

Notes:
Contents prepared by GeoChem Applications
deg C = degrees Celcius
CaCO3 = calcium carbonate
N = nitrogen
µg/L = micrograms per liter
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter

Table 8. 2015 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat
Data Input (general): 3-year "moving window", updated annually
Data Input (specific): January 1, 2012 through December 31, 2015
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 Type	Monitoring Well	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]
Compliance	MW-15R	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	8%	0.036	0.036	mg/L	A	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	0.23	0.2067	ug/L	LN	0.5	ug/L	No	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	11[7]	9%	0.082	0.082	mg/L	A	0.3	mg/L	No	No
		Manganese, dissolved	12	92%	0.031	0.009	mg/L	Z	0.1	mg/L	No	**Yes (↓)**
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	8%	0.029	0.029	ug/L	A	0.2	ug/L	No	No
	MW-34A	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	0%	0.03 (ND)	0.03	mg/L	B	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	0.5	0.452	ug/L	Z	0.5	ug/L	No	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.3	mg/L	No	No
		Manganese, dissolved	12	8%	0.0019	0.0019	mg/L	A	0.1	mg/L	No	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	17%	0.03	0.03	ug/L	A	0.2	ug/L	No	No
	MW-34C	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	8%	0.03	0.03	mg/L	A	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	1.44	1.3299	ug/L	LN	0.5	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	9[8]	100%	0.88	0.75208	mg/L	LN	0.3	mg/L	**Yes**	**Yes (↓)**
		Manganese, dissolved	12	100%	1.3	0.821	mg/L	Z	0.1	mg/L	**Yes**	**Yes (↓)**
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	100%	0.16	0.14151728	ug/L	LN	0.2	ug/L	No	**Yes (↓)**

Table 8. 2015 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	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]
Compliance	MW-39	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	100%	0.48	0.404	mg/L	Z	0.2	mg/L	**Yes**	No
		Arsenic, dissolved	12	100%	2.18	1.817	ug/L	Z	0.5	ug/L	**Yes**	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	100%	41	36.812	mg/L	Z	0.3	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.53	0.481	mg/L	Z	0.1	mg/L	**Yes**	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.2	ug/L	No	No
	MW-42	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	11[9]	100%	8.4	6.8815487	mg/L	LN	0.2	mg/L	**Yes**	No
		Arsenic, dissolved	12	100%	1.7	1.608	ug/L	Z	0.5	ug/L	**Yes**	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	100%	28	26.16409906	mg/L	LN	0.3	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	5.3	4.9387442	mg/L	N	0.1	mg/L	**Yes**	No
		Trichloroethene	12	8%	0.48	0.48	ug/L	A	1.0	ug/L	No	No
		Vinyl Chloride	12	92%	0.16	0.14555407	ug/L	LN	0.2	ug/L	No	No
	MW-43	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	67%	0.12	0.12	mg/L	A***	0.2	mg/L	No	No
		Arsenic, dissolved	12	17%	0.05	0.05	ug/L	A	0.5	ug/L	No	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	83%	0.87	0.541006751	mg/L	N	0.3	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.26	0.18257417	mg/L	N	0.1	mg/L	**Yes**	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	8%	0.036	0.036	ug/L	A	0.2	ug/L	No	No

Table 8. 2015 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	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]
Downgradient	MW-29A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	6	100%	0.095	0.091593	mg/L	LN	0.2	mg/L	No	**Yes (↓)**
		Arsenic, dissolved	6	100%	1.6	1.536	ug/L	Z	0.5	ug/L	**Yes**	No
		cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	6	100%	4.4	4.2675	mg/L	LN	0.3	mg/L	**Yes**	No
		Manganese, dissolved	6	100%	1.5	1.406	mg/L	N	0.1	mg/L	**Yes**	No
		Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.2	ug/L	No	No
	MW-32	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	11	27%	0.04	0.04	mg/L	A	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	10	9.345	ug/L	Z	0.5	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	8%	0.81 (ND)	0.81	ug/L	A*	35.0	ug/L	No	No
		Ethyl ether	11	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	100%	0.87	0.745738	mg/L	LN	0.3	mg/L	**Yes**	**Yes (↓)**
		Manganese, dissolved	12	100%	3	2.45607	mg/L	LN	0.1	mg/L	**Yes**	No
		Trichloroethene	12	83%	0.68	0.68	ug/L	A***	1.0	ug/L	No	No
		Vinyl Chloride	12	100%	0.57	0.46362	ug/L	LN	0.2	ug/L	**Yes**	No
	MW-33A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	6	67%	0.21	0.21	mg/L	A	0.2	mg/L	**Yes**	No
		Arsenic, dissolved	6	100%	0.2	0.174204	ug/L	LN	0.5	ug/L	No	No
		cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	6	100%	5.1	5.1	mg/L	A**	0.3	mg/L	**Yes**	No
		Manganese, dissolved	6	100%	0.11	0.11	mg/L	A**	0.1	mg/L	**Yes**	No
		Trichloroethene	6	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.2	ug/L	No	No

Table 8. 2015 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	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]
Downgradient	MW-33C	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	0%	0.03 (ND)	0.03	mg/L	B	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	2.48	2.383571	ug/L	LN	0.5	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	25%	0.38	0.38	mg/L	A	0.3	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.2	0.153	mg/L	Z	0.1	mg/L	**Yes**	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	0%	0.02 (ND)	0.02	ug/L	B	0.2	ug/L	No	No
	MW-36A	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50.0	ug/L	No	No
		1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
		Ammonia as N	12	0%	0.03 (ND)	0.03	mg/L	B	0.2	mg/L	No	No
		Arsenic, dissolved	12	100%	0.79	0.6392133	ug/L	LN	0.5	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35.0	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50.0	ug/L	No	No
		Iron, dissolved	12	25%	0.13	0.13	mg/L	A	0.3	mg/L	No	No
		Manganese, dissolved	12	33%	0.0063	0.0063	mg/L	A	0.1	mg/L	No	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	8%	0.063	0.063	ug/L	A	0.2	ug/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 2015; arrows indicated increasing (**▲**) or decreasing (**▼**) trends.

[7] For MW-15R, outlier of 0.49 mg/L from 2-24-15 sampling event was removed prior to UCL calculation

[8] For MW-34C, outliers of 25 mg/L on 3-4-14, 59 mg/L on 9-23-14, and 7.8 mg/L on 2-24-15 were removed prior to UCL calculation

[9] For MW-42, outlier of 59 mg/L from 9-3-13 was removed prior to UCL calculation

A = Detection frequency of data set too low and/or N too few 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.

A*** = MTCAStat suggests use of the Z-score method but then cites inability to calculate due to presence of censored values; 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.

Table 8. 2015 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Monitoring Well Type	Monitoring Well	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]

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 9. Groundwater Quality Criteria and Site-Specific Cleanup Level Exceedances
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Comparison Criteria			Field Parameters	General Chemistry	Metals						VOCs	
			pH (SU)	Ammonia (mg N/L)	Arsenic, Dissolved (mg/L)	Arsenic, Total (mg/L)	Iron, Dissolved (mg/L)	Iron, Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)	TCE (µg/L)	Vinyl Chloride (µg/L)
WAC 173-200			6.5< >8.5	--	0.00005	0.00005	0.3	0.3	0.05	0.05	3	0.02
Primary Federal MCL			--	--	0.01	0.01	--	--	--	--	5	2
Secondary Federal MCL			6.5< >8.5	--	--	--	0.3	0.3	0.05	0.05	--	--
Site-specific MTCA Cleanup Levels			--	0.19	0.00046	0.00046	--	--	--	--	1	0.2
Well, Location, and Sample Ev												
Upgradient Monitoring Locations	MW-13A	Q1 2015	--	--	0.00022	0.00021	--	--	--	--	--	--
		Q2 2015	--	--	0.00017	0.00018	--	--	--	--	--	--
		Q3 2015	--	--	0.0002	0.00019	0.927	0.951	--	--	--	--
		Q4 2015	--	--	0.0002	0.0002	--	--	--	--	--	--
	MW-13B	Q1 2015	--	--	0.00035	0.00036	--	--	--	--	--	--
		Q2 2015	--	--	0.0003	0.00031	--	--	--	--	--	--
		Q3 2015	--	--	0.0003	0.00031	--	--	--	--	--	--
		Q4 2015	--	--	0.0003	0.0003	--	--	--	--	--	--
	MW-16	Q1 2015	6.48	--	0.00038	0.00037	--	0.31	--	0.062	--	--
		Q2 2015	--	--	0.00031	0.00034	--	--	--	--	--	--
		Q3 2015	6.35	1.12	0.0003	0.00032	--	--	--	--	--	--
		Q4 2015	6.13	--	0.0003	0.0003	--	--	--	--	--	--
	MW-35	Q1 2015	--	--	0.0001	0.00011	--	--	--	--	--	--
		Q2 2015	--	--	0.0001	0.00011	--	--	--	--	--	--
		Q3 2015	--	--	0.00011	0.00011	--	--	--	--	--	--
		Q4 2015	--	--	0.0001	0.0001	--	--	--	--	--	--
Performance Monitoring Locations	MW-2B1	Q1 2015	5.54	1.30	0.00066	0.0007	--	--	0.43	0.42	--	--
		Q2 2015	6.02	2.90	0.00061	0.00065	--	--	2.7	2.7	--	--
		Q3 2015	6.22	2.40	0.00048	0.0005	--	--	2.5	2.5	--	0.031
		Q4 2015	5.09	--	0.0002	0.0004	--	--	--	--	--	--
	MW-4	Q1 2015	--	--	0.00035	0.0004	--	--	0.082	0.21	--	0.028
		Q2 2015	6.05	--	0.00047	0.00055	--	--	0.53	0.59	--	--
		Q3 2015	6.43	--	0.00062	0.00069	--	--	0.9	0.96	--	0.21
		Q4 2015	6.25	--	0.0004	0.001	--	--	--	--	--	--
	MW-19C	Q1 2015	--	0.52	0.00322	0.00324	--	--	0.94	0.92	1.3	0.029
		Q2 2015	--	0.51	0.00265	0.00293	--	--	1	1.1	--	--
		Q3 2015	--	0.53	0.0028	0.00291	--	--	1	0.99	1.1	0.038
		Q4 2015	--	0.56	0.0029	0.0028	--	--	--	--	1.1	--
	MW-20	Q1 2015	5.79	--	0.0002	0.0001	--	--	--	--	--	--
		Q2 2015	--	--	0.00018	0.00017	--	--	0.069	0.087	--	--
		Q3 2015	--	--	0.0002	0.0002	--	--	0.15	1.1	--	0.048
		Q4 2015	--	1.10	0.0002	0.0002	--	--	--	--	--	--
	MW-23A	Q1 2015	--	--	0.00008	0.00026	--	0.75	0.67	0.78	--	--
		Q2 2015	5.45	--	0.00011	0.00019	0.35	0.59	1.6	1.7	--	--
		Q3 2015	6.15	--	0.0001	0.00045	0.68	1.5	2.2	2.3	--	--
		Q4 2015	5.54	--	--	0.0003	--	--	--	--	--	--
	MW-24	Q1 2015	--	--	0.00026	0.00042	--	--	1.1	1.6	--	--
		Q2 2015	6.36	--	0.00017	0.00048	--	--	0.1	0.79	--	--
		Q3 2015	6.24	--	0.00021	0.00052	--	0.39	0.88	1.7	--	--
		Q4 2015	6.11	--	0.0002	0.0006	--	--	--	--	--	--
Compliance Monitoring Locations	MW-15R	Q1 2015	5.67	--	0.0002	0.0002	0.49	0.41	--	--	--	--
		Q2 2015	6.31	--	0.00019	0.00022	--	--	--	--	--	--
		Q3 2015	--	--	0.00014	0.00017	--	--	--	--	--	--
		Q4 2015	--	--	0.0002	0.0002	--	--	--	--	--	--
	MW-34A	Q1 2015	--	--	0.00043	0.00042	--	--	--	--	--	--
		Q2 2015	5.47	--	0.00041	0.00045	--	--	--	--	--	--
		Q3 2015	5.97	1.05	0.0004	0.00043	--	--	--	--	--	--
		Q4 2015	6.24	--	0.0004	0.0004	--	--	--	--	--	--
	MW-34C	Q1 2015	--	--	0.00119	0.00119	7.8	7.5	0.69	0.65	--	0.1
		Q2 2015	6.33	--	0.00144	0.0746	0.41	100	0.53	12	--	0.11
		Q3 2015	--	--	0.0014	0.0155	0.67	22	0.55	1.1	--	0.08
		Q4 2015	--	--	0.0013	0.0846	--	--	--	--	--	--
	MW-39	Q1 2015	6.20	0.27	0.00124	0.00133	28	27	0.27	0.27	--	--
		Q2 2015	5.82	0.46	0.00218	0.00216	34	35	0.46	0.46	--	--
		Q3 2015	6.29	0.48	0.00172	0.0019	34	36	0.44	0.47	--	--
		Q4 2015	6.49	0.41	0.0017	0.0015	--	--	--	--	--	--
	MW-42	Q1 2015	--	6.70	0.0015	0.0015	26	26	4.9	4.8	--	0.029
		Q2 2015	--	6.40	0.00163	0.00163	25	25	4.9	4.7	--	--
		Q3 2015	--	5.90	0.0016	0.00162	23	23	4.2	4.2	--	0.11
		Q4 2015	--	5.40	0.0016	0.0017	--	--	--	--	--	--
	MW-43	Q1 2015	--	--	--	--	0.51	0.76	0.15	0.13	--	--
		Q2 2015	5.97	--	--	--	0.52	0.33	0.11	0.1	--	--
		Q3 2015	5.73	--	--	--	--	0.37	--	--	--	--
		Q4 2015	5.58	--	--	0.0001	--	--	--	--	--	--
Down Gradient Monitoring Locations	MW-32	Q1 2015	--	--	0.0091	0.0094	0.57	0.64	1.9	2.1	--	0.44
		Q2 2015	6.37	--	0.0091	0.0105	0.55	0.7	2	2.1	--	--
		Q3 2015	--	--	0.00953	0.0099	0.87	0.94	2.8	2.9	--	0.27
		Q4 2015	--	--	0.0096	0.0094	--	--	--	--	--	--
	MW-33C	Q1 2015	--	--	0.00235	0.00227	--	--	0.15	0.16	--	--
		Q2 2015	--	--	0.00248	0.00263	--	--	0.14	0.13	--	--
		Q3 2015	--	--	0.00248	0.00267	--	0.33	0.14	0.25	--	--
		Q4 2015	--	--	0.0024	0.0025	--	--	--	--	--	--
	MW-36A	Q1 2015	--	--	0.00055	0.00058	--	--	--	--	--	--
		Q2 2015	5.61	--	0.00056	0.00058	--	--	--	--	--	--
		Q3 2015	6.17	--	0.00051	0.00051	--	--	--	--	--	--
		Q4 2015	6.42	--	0.0005	0.0005	--	--	--	--	--	--
	MW-29A	Q2 2015	6.34	--	0.00152	0.00191	4.4	3.7	1.5	1.4	--	--
		Q4 2015	6.16	--	0.0016	0.0017	--	--	--	--	--	--
	MW-33A	Q2 2015	--	--	0.00011	0.0002	0.89	--	--	--	--	--
		Q4 2015	6.06	0.21	0.0001	0.0002	--	--	--	--	--	--

Notes:

SU = standard units
mg N/L = miligrams of Nitrogen per liter
mg/L = milligrams per liter
µg/L = micrograms per liter

0.00141 = exceeds Site-specific MTCA Cleanup Levels
0.035 = exceeds WAC 173-200 Groundwater Quality Criteria
6.44 = exceeds Federal MCL and WAC 173-200 Groundater Quality Criteria
0.0014 = exceeds Federal MCLs, Site-specific MTCA Cleanup Levels, and WAC 173-200 Criteria

TCE = Trichloroethene

Table 10. Cumulative 2015 Leak Detection System Volumes
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Date	Total Volume (Gals)	Comments
1/6/2015	0	No measurement til sample
1/13/2015	0	No measurement til sample
1/20/2015	125	Pumped Dry
1/27/2015	0	No measurement til sample
2/3/2015	0	No measurement til sample
2/10/2015	95	Pumped Dry
2/16/2015	0	No measurement til sample
2/23/2015	0	No measurement til sample
3/4/2015	0	No measurement til sample
3/9/2015	0	No measurement til sample
3/16/2015	0	No measurement til sample
3/23/2015	0	No measurement til sample
4/1/2015	210	Pumped Dry, Sample Collected 3/25/2015
4/6/2015	0	No measurement til sample
4/13/2015	0	No measurement til sample
4/20/2015	0	No measurement til sample
4/27/2015	0	No measurement til sample
5/4/2015	235	Pumped Dry
5/11/2015	0	No measurement til sample
5/18/2015	0	No measurement til sample
5/28/2015	0	Sample Collected, 5/22/2015
6/1/2015	310	Pumped Dry
6/8/2015	0	No measurement til sample
6/15/2015	0	No measurement til sample
6/22/2015	0	No measurement til sample
6/30/2015	370	Pumped Dry
7/13/2015	0	No measurement til sample
7/20/2015	0	No measurement til sample
7/27/2015	0	No measurement til sample
7/31/2015	275	Pumped Dry
8/3/2015	0	No measurement til sample
8/11/2015	0	No measurement til sample
8/18/2015	0	No measurement til sample
8/25/2015	0	Sample Collected, 8/26/2015
8/31/2015	295	Pumped Dry
9/8/2015	0	No measurement til sample
9/15/2015	0	No measurement til sample
9/22/2015	0	No measurement til sample
9/30/2015	270	Pumped Dry
10/6/2015	0	No measurement til sample
10/13/2015	0	No measurement til sample
10/19/2015	0	No measurement til sample
11/2/2015	305	Pumped Dry
11/9/2015	0	No measurement til sample
11/16/2015	0	No measurement til sample
11/23/2015	0	No measurement til sample
12/3/2015	265	Pumped Dry, Sample Collected 12/3/2015
12/7/2015	0	No measurement til sample
12/14/2015	0	No measurement til sample
12/21/2015	0	No measurement til sample
12/31/2015	220	Pumped Dry
TOTAL	**2,975**	**Volume for period between 1/1/2015 through 12/31/2015.**

"No measurement made" indicates that volume present was not pumped so adequate volume would be available for sampling.

Table 11. Fourth Quarter 2015 Landfill Gas Measurement Results
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County Washington

Waste Management Incorporated

Location Reference Designation	Date	Time	Instrument Readings: Pressure (in H_2O)	Instrument Readings: CH_4 (% vol.)	Instrument Readings: CO_2 (% vol.)	Instrument Readings: O_2 (% vol.)	Comments: CH_4 Spike *Note 1* (% vol.)	Comments: CO_2 Spike *Note 1* (% vol.)	Comments: Depth to Water TOP (ft)	Comments: Exposed Portion of Perforations *Notes 2 & 3* (ft)	Comments: Exposed Portion of Perforations *Notes 2 & 3* (%)	Comments: Other
Subsurface Landfill Gas Detection Wells (Gas Probes):												
GP-7	12/15/15	7:30	0.51	0.00	6.40	5.90			14.8	4.2	85%	
GP-8	12/15/15	7:35	0.00	0.00	2.30	3.70			17.5	4.7	94%	
GP-9S	12/15/15	7:39	0.04	0.00	1.90	18.60			0.0	0.0		*Note 4*
GP-9D	12/15/15	7:44	0.05	0.00	1.60	19.70			29.8	3.5	70%	
GP-10S	12/15/15	8:30	-0.08	0.00	0.90	20.10			0.0	0.0		*Note 4*
GP-10D	12/15/15	8:33	0.00	0.00	0.70	19.30			28.7	4.6	92%	
GP-11S	12/15/15	8:41	-0.04	0.00	2.60	18.30			0.0	0.0		*Note 4*
GP-11D	12/15/15	8:45	0.06	0.00	2.00	17.50			27.5	2.2	44%	
GP-12S	12/15/15	8:49	-0.01	0.00	1.20	20.70			0.0	0.0		*Note 4*
GP-12M	12/15/15	8:55	-0.01	0.00	1.00	20.30			0.0	0.0		*Note 4*
GP-12D	12/15/15	9:01	0.13	0.00	1.00	18.80			45.3	0.0	0%	
GP-13S	12/15/15	9:05	-0.03	0.00	3.90	16.60			0.0	0.0		*Note 4*
GP-13M	12/15/15	9:11	-0.02	0.00	3.50	17.30			0.0	0.0		*Note 4*
GP-13D	12/15/15	9:19	0.03	0.00	1.60	19.00			49.3	4.1	41%	
GP-14	12/15/15	9:24	-0.06	0.00	5.90	5.00			15.5	5.1	100%	
GP-15	12/15/15	9:30	2.29	0.00	3.50	5.70			14.7	4.3	85%	
GP-16	12/15/15	9:41	-0.12	0.00	3.80	16.10			14.2	4.0	80%	
Onsite Building Interiors:												
SH-SS	12/15/15	9:33	-0.10	0.00	0.20	20.80						
SH-NS	12/15/15	9:34	-0.09	0.00	0.10	20.80						
SH-IN	12/15/15	9:35	-0.10	0.00	0.10	20.80						
SS-WH	12/15/15	8:37	-0.03	0.00	0.10	20.90						

Weather Conditions

Monitoring Date:	12/15/15	Sky Cover:	Cloudy
Monitored By:	Brad Beach	Wind/Rain/Snow:	None
Instrument:	GEM 2NAV	Temperature (°F):	34
Calibration Date:	12/15/15	Preceding 24-hr Barometric Trend:	Rising

Notes:

1. Measurement for spike concentrations of CH4 and CO2 are recorded if observed during sampling.
2. Exposed perforations = perforated pipe section not submerged by water.
3. Readings not reported: Screened interval completely submerged.
4. Depth to water measurement not taken this quarter.

CH_4 = Methane
CO_2 = Carbon Dioxide
O_2 = Oxygen
GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
TOP = From Top of Pipe

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

Depressed O_2 < 20.3% vol.
Detected CO_2 > 0.3 % vol.
Detected CH_4 > 0.3 % vol.

Table 12. Landfill Gas Monitoring Results - 2015
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

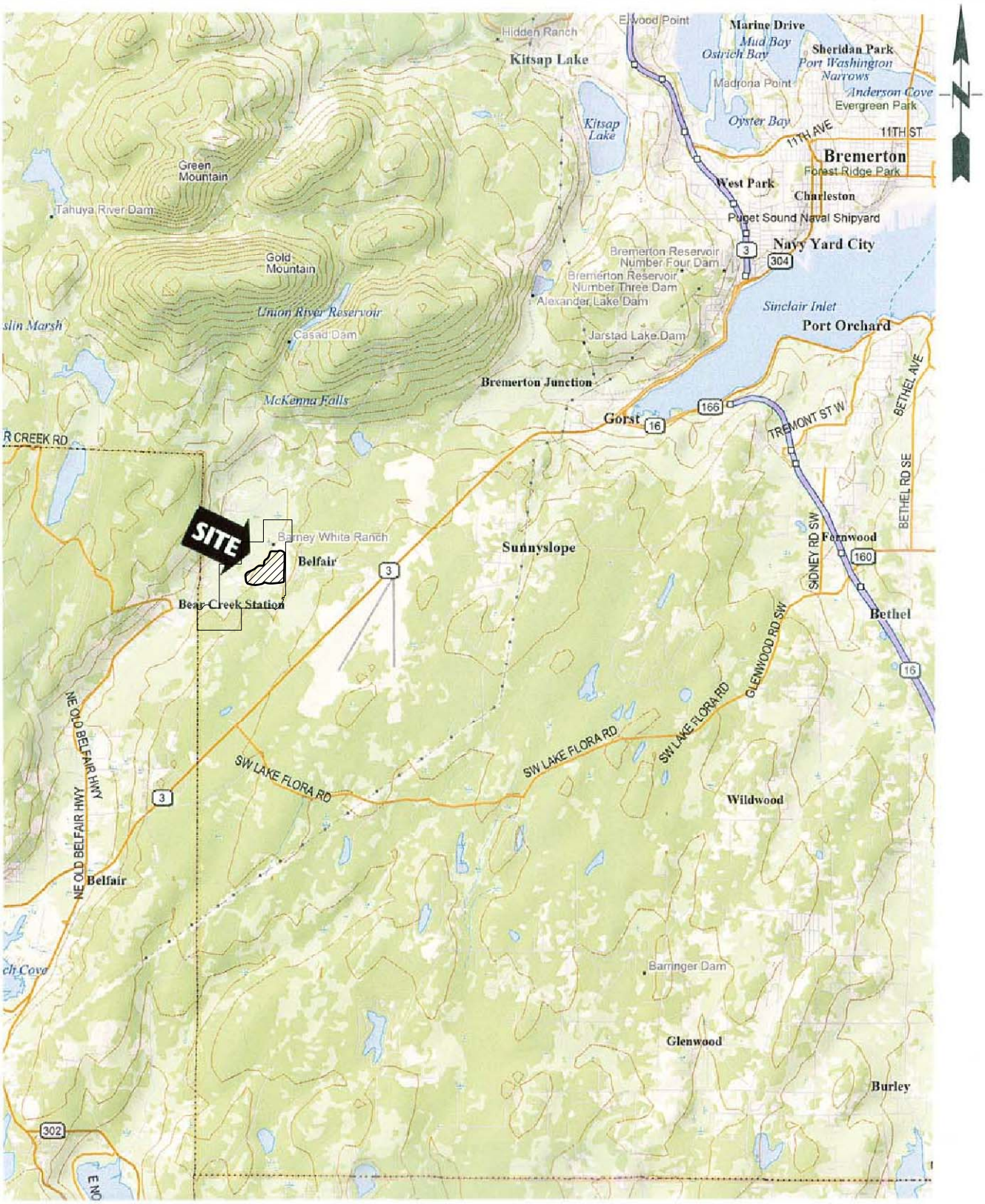
Location	Date	Pressure (in. H_2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-7	3/30/2015	0.04	0.0	6.2	4.5
	5/7/2015	-0.07	0.0	7.9	4.1
	9/29/2015	0.04	0.0	10.8	7.0
	12/15/2015	0.51	0.0	6.4	5.9
GP-8	3/30/2015	0.03	0.0	2.0	9.4
	5/7/2015	-0.05	0.0	3.6	7.0
	9/29/2015	-0.01	0.0	6.2	7.8
	12/15/2015	0.00	0.0	2.3	3.7
GP-9S	3/30/2015	0.07	0.0	2.4	18.6
	5/7/2015	-0.03	0.0	2.6	19.0
	9/29/2015	0.01	0.0	1.6	19.8
	12/15/2015	0.04	0.0	1.9	18.6
GP-9D	3/30/2015	0.07	0.0	1.7	19.0
	5/7/2015	-0.03	0.0	1.7	19.4
	9/29/2015	0.01	0.0	1.5	19.6
	12/15/2015	0.05	0.0	1.6	19.7
GP-10S	3/30/2015	0.11	0.0	0.9	20.3
	5/7/2015	-0.03	0.0	0.9	20.2
	9/29/2015	0.03	0.0	0.6	20.4
	12/15/2015	-0.08	0.0	0.9	20.1
GP-10D	3/30/2015	0.12	0.0	0.8	18.9
	5/7/2015	-0.07	0.0	0.8	18.9
	9/29/2015	0.00	0.0	0.7	19.6
	12/15/2015	0.00	0.0	0.7	19.3
GP-11S	3/30/2015	0.11	0.0	3.3	17.7
	5/7/2015	-0.04	0.0	3.6	17.6
	9/29/2015	0.02	0.0	2.0	19.2
	12/15/2015	-0.04	0.0	2.6	18.3
GP-11D	3/30/2015	—	—	—	—
	5/7/2015	—	—	—	—
	9/29/2015	0.01	0.0	2.6	18.5
	12/15/2015	0.06	0.0	2.0	17.5
GP-12S	3/30/2015	0.15	0.0	1.3	19.3
	5/7/2015	-0.09	0.0	1.1	18.9
	9/29/2015	0.02	0.0	0.9	19.9
	12/15/2015	-0.01	0.0	1.2	20.7
GP-12M	3/30/2015	0.15	0.0	1.4	18.3
	5/7/2015	-0.08	0.0	2.4	18.3
	9/29/2015	0.00	0.0	1.0	19.6
	12/15/2015	-0.01	0.0	1.0	20.3
GP-12D	3/30/2015	—	—	—	—
	5/7/2015	—	—	—	—
	9/29/2015	0.00	0.0	1.3	16.2
	12/15/2015	0.13	0.0	1.0	18.8

Table 12. Landfill Gas Monitoring Results - 2015
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location	Date	Pressure (in. H_2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-13S	3/30/2015	0.18	0.0	0.8	19.7
	5/7/2015	0.01	0.0	3.4	16.9
	9/29/2015	-0.08	0.0	2.9	17.4
	12/15/2015	-0.03	0.0	3.9	16.6
GP-13M	3/30/2015	0.20	0.0	3.3	17.1
	5/7/2015	-0.03	0.0	3.3	16.6
	9/29/2015	-0.20	0.0	1.9	18.4
	12/15/2015	-0.02	0.0	3.5	17.3
GP-13D	3/30/2015	0.17	0.0	3.4	17.7
	5/7/2015	-0.01	0.0	0.0	20.7
	9/29/2015	-0.19	0.0	0.2	20.4
	12/15/2015	0.03	0.0	1.6	19.0
GP-14	3/30/2015	0.18	0.0	5.7	5.0
	5/7/2015	0.07	0.0	6.1	5.5
	9/29/2015	-0.02	0.0	8.7	7.4
	12/15/2015	-0.06	0.0	5.9	5.0
GP-15	3/30/2015	0.19	0.2	6.5	0.1
	5/7/2015	-0.06	0.0	5.0	5.5
	9/29/2015	-0.04	0.0	9.4	5.0
	12/15/2015	2.29	0.0	3.5	5.7
GP-16	3/30/2015	0.13	0.0	3.8	16.3
	5/7/2015	0.06	0.0	4.5	16.0
	9/29/2015	-0.01	0.0	4.0	16.6
	12/15/2015	-0.12	0.0	3.8	16.1

Notes:
— Readings not reported: screened interval submerged

FIGURES



1" = 1.58 mi

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(425) 746-4600 FAX: (425) 746-6747

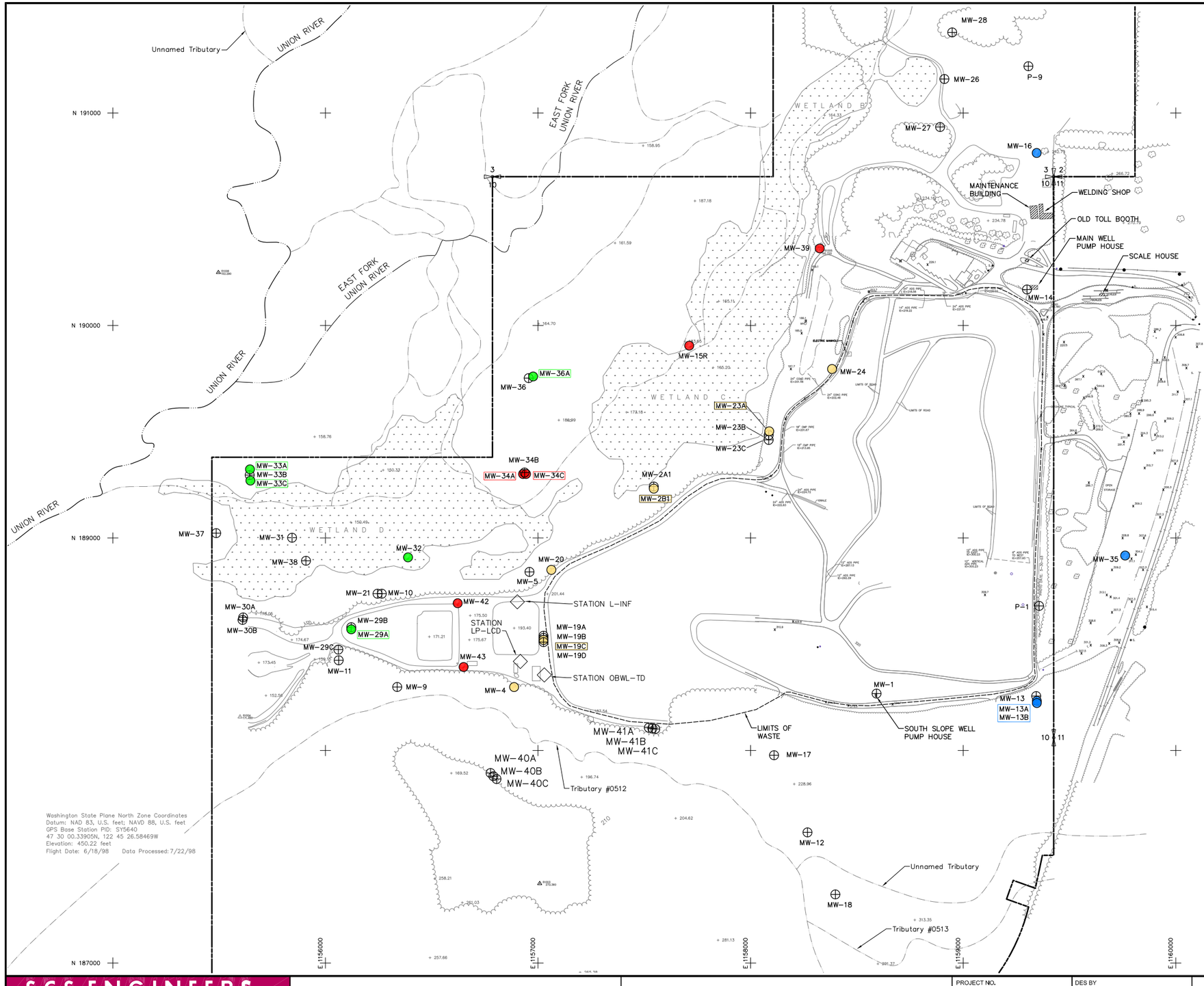
PROJECT NO.	DES BY
04204027.19	L.L.
SCALE	CHK BY
1:100,000	D.V.
CAD FILE	APP BY
FIGURE 1	G.H.

SITE LOCATION MAP

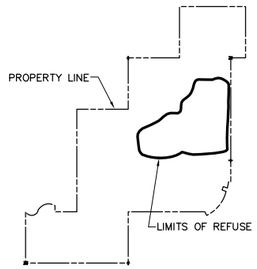
OLYMPIC VIEW SANITARY LANDFILL
KITSAP COUNTY, WASHINGTON

DATE
MARCH 2016

FIGURE
1



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-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
L-INF	LEACHATE INFLUENT MONITORING STATION
	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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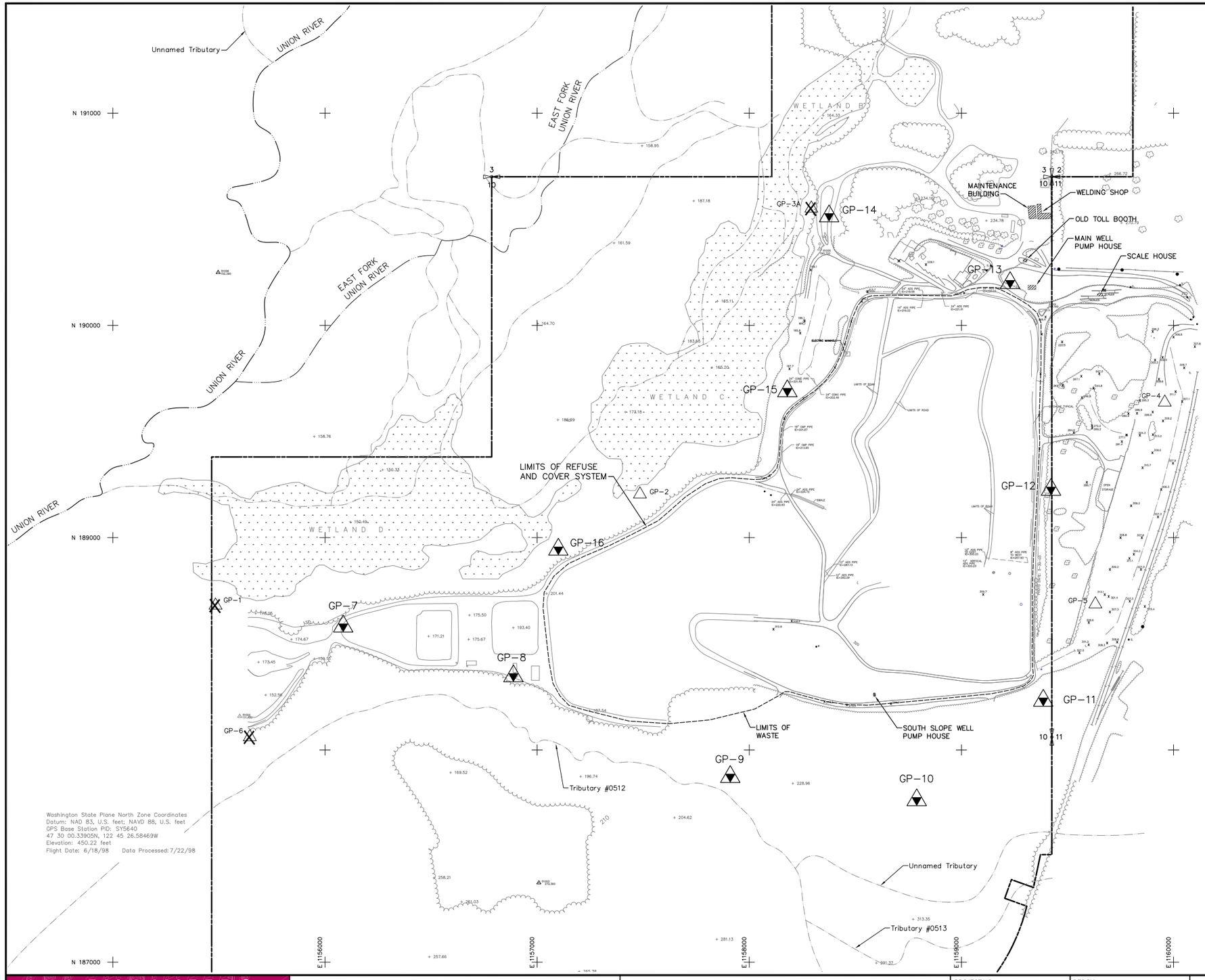
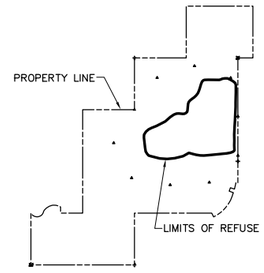
PROJECT NO. 04204027.19	DES BY L.L.	GROUNDWATER MONITORING WELL NETWORK AND LEACHATE MONITORING LOCATIONS	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 2
CAD FILE FIGURE 2	APP BY G.H.		





KEY MAP

LEGEND

GP-1	ABANDONED GAS PROBE
GP-2	EXISTING GAS PROBE (NOT PART OF MONITORING PROGRAM)
GP-7	LANDFILL GAS MONITORING 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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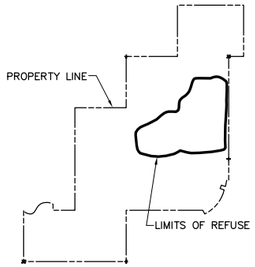
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.19	DES BY T.M.	SUBSURFACE LANDFILL GAS MONITORING PROBES AND BUILDING MONITORING LOCATIONS OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.		FIGURE 3
CAD FILE FIGURE 3	APP BY G.H.		

Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- 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	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 231.35	MONITORING WELL — WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

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

200 0 200 400
SCALE IN FEET

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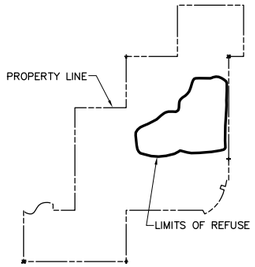
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.19	DES BY M.O.	GROUNDWATER ELEVATION MAP FIRST QUARTER FEBRUARY 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4A
CAD FILE FIGURE 4A	APP BY D.V.		

Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- 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	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 230.54	MONITORING WELL / WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

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

200 0 200 400
SCALE IN FEET

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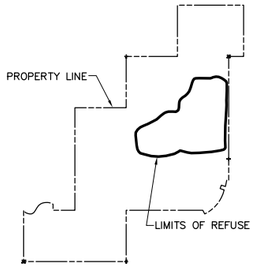
PROJECT NO. 04204027.19	DES BY S.G.	GROUNDWATER ELEVATION MAP SECOND QUARTER MAY 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4B
CAD FILE FIGURE 4B	APP BY D.V.		

Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- 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	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 229.79	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

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

200 0 200 400
SCALE IN FEET

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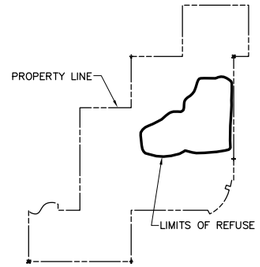
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.19	DES BY S.G.	GROUNDWATER ELEVATION MAP THIRD QUARTER AUGUST 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4C
CAD FILE FIGURE 4C	APP BY G.H.		

Note:

Water level contours were generated using depth to water and reference elevation data from wells screened between 89 and 200 ft-msl. The water level elevations for the following locations have not been used for contouring.

- 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	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-35 / 229.44	MONITORING WELL WATER LEVEL ELEVATION, FT-MSL
180	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET-MSL CONTOUR INTERVAL = 5 FT
	GROUNDWATER FLOW DIRECTION
*	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

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

200 0 200 400
SCALE IN FEET

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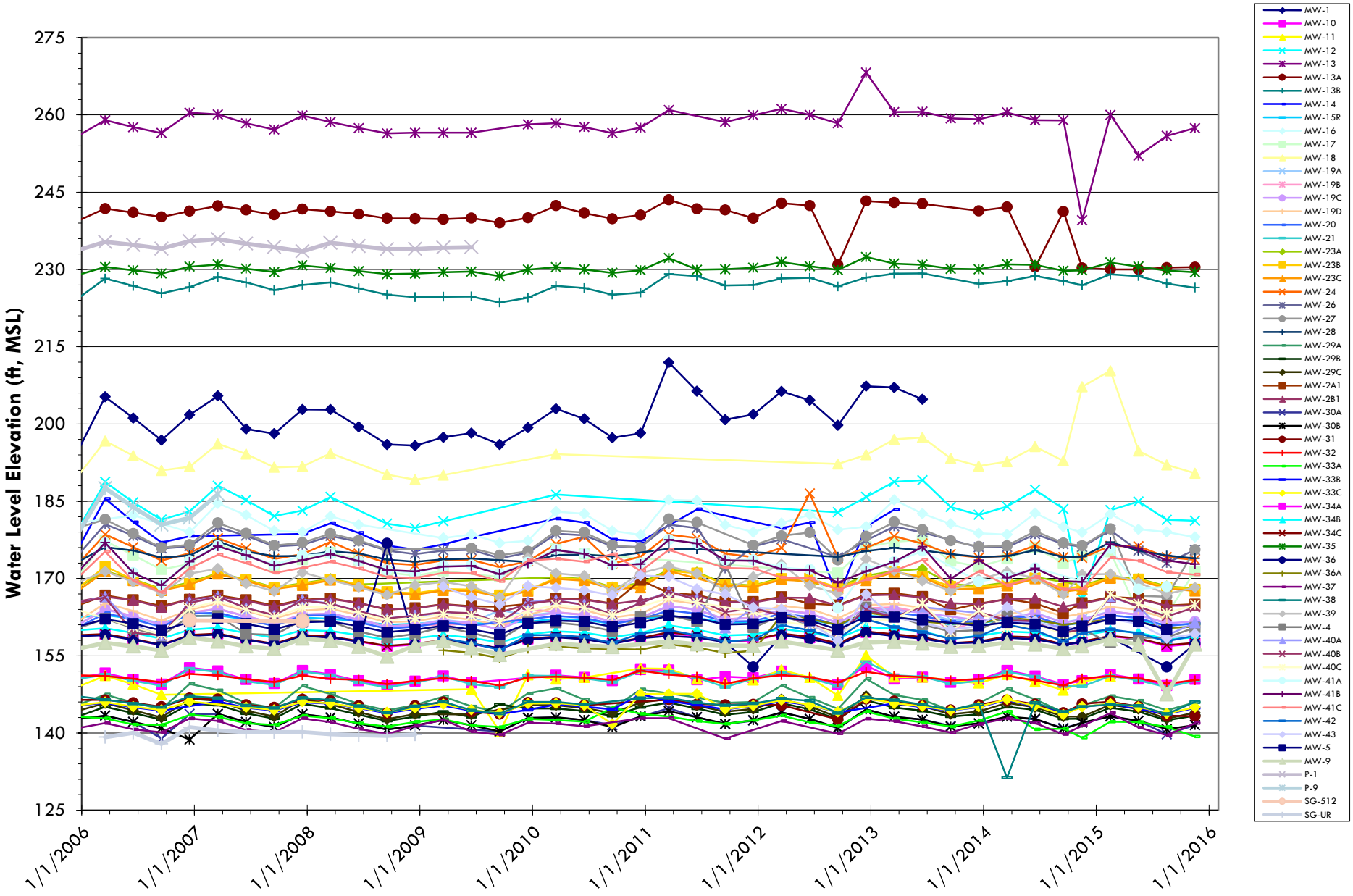
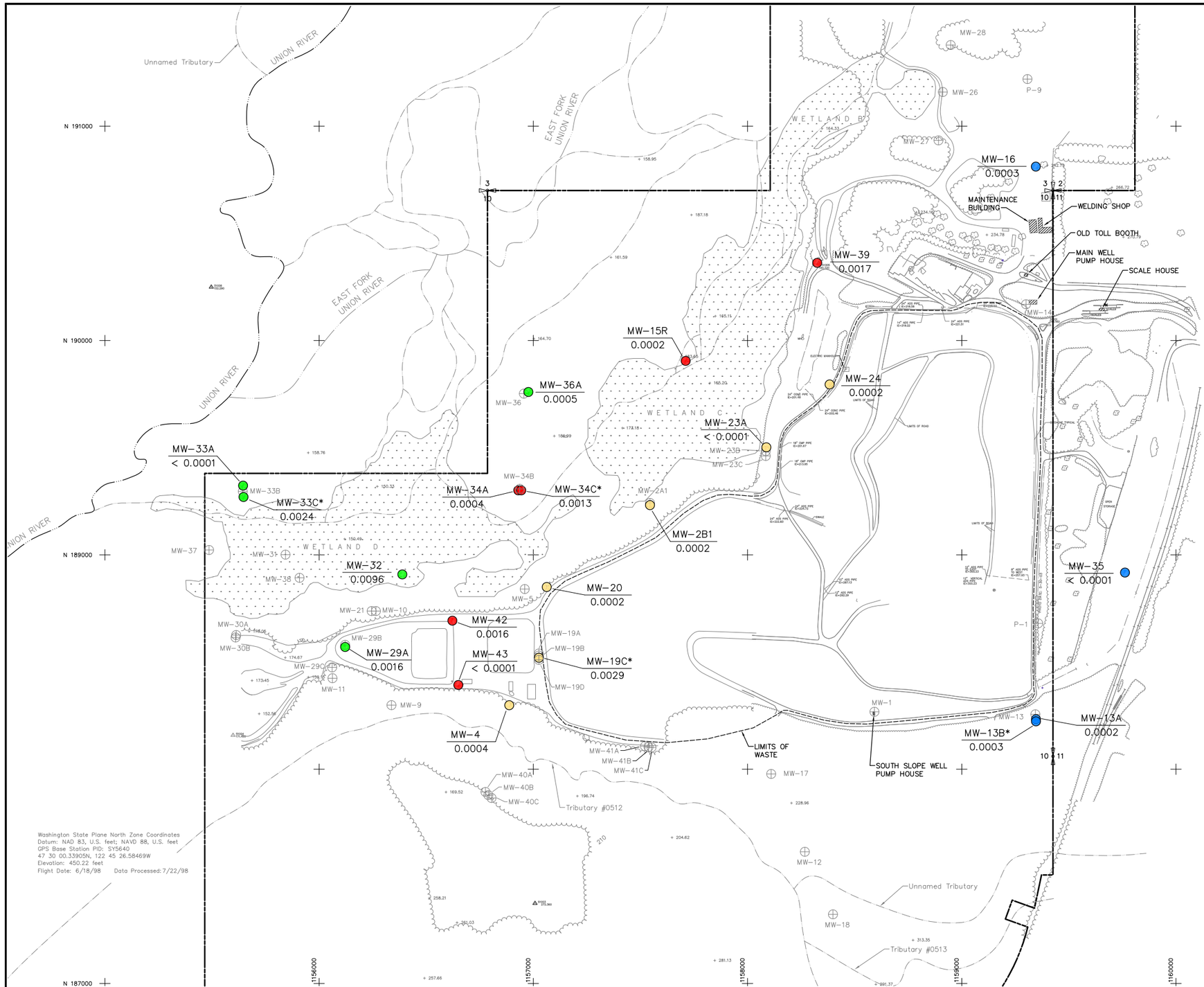
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.19	DES BY S.G.	GROUNDWATER ELEVATION MAP FOURTH QUARTER NOVEMBER 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4D
CAD FILE FIGURE 4D	APP BY G.H.		

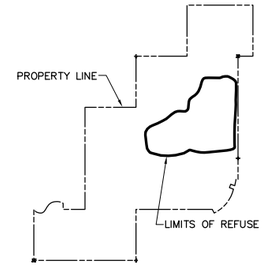
Figure 5. Historical Groundwater Elevations
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington



NOTES : 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

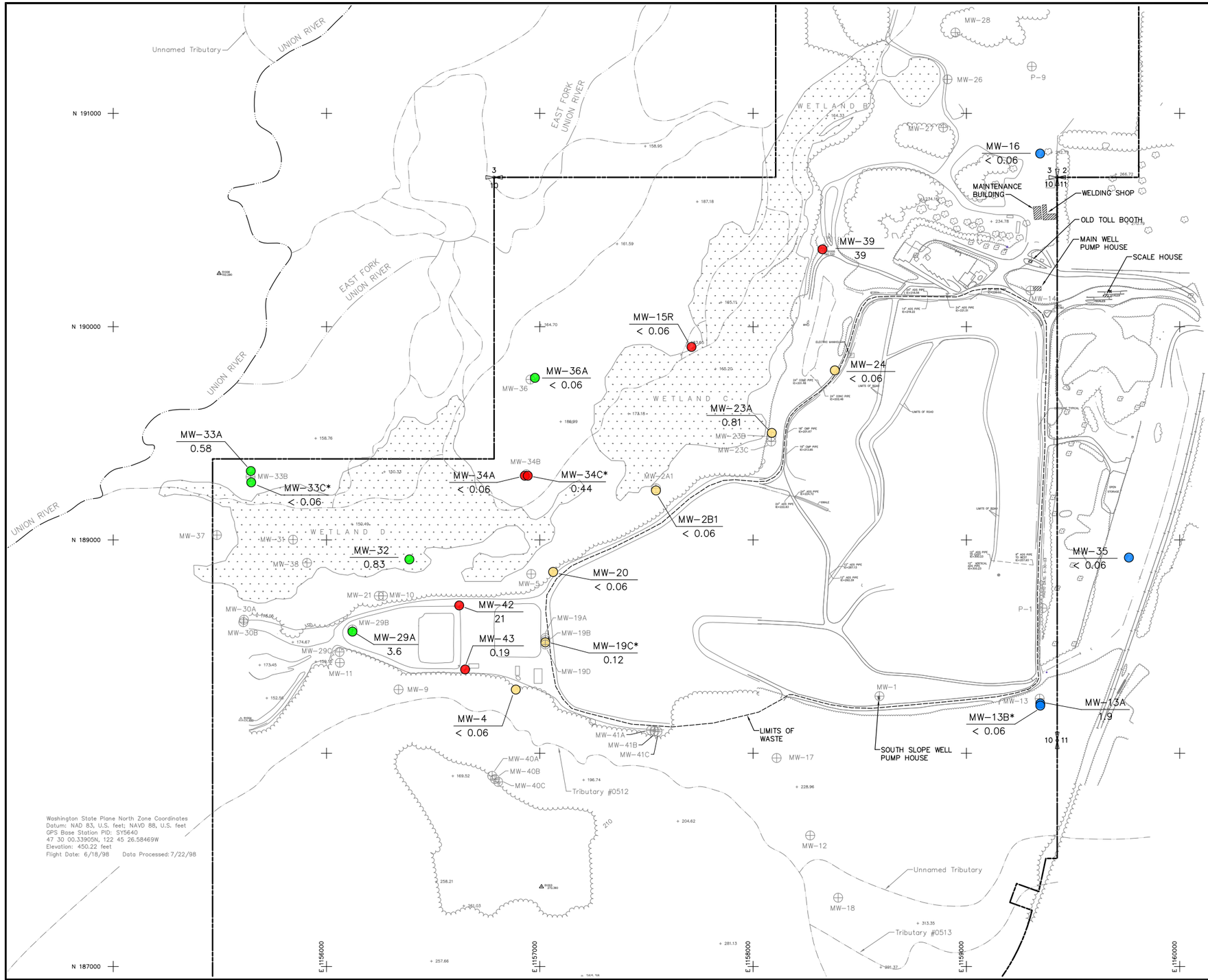
MW-35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW-32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW-20	PERFORMANCE GROUNDWATER MONITORING WELL
MW-43	COMPLIANCE GROUNDWATER MONITORING WELL
MW-36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW-32 / 0.0096	SHALLOW MONITORING WELL ARSENIC, DISSOLVED (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)

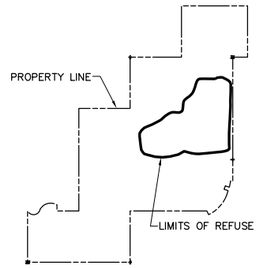
200 0 200 400
SCALE IN FEET

SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.19	DES BY S.P.	DISSOLVED ARSENIC CONCENTRATION MAP NOVEMBER 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6A
CAD FILE FIGURE 6A	APP BY D.V.		

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

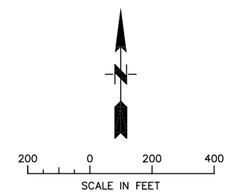




KEY MAP

LEGEND

MW–35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW–32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW–20	PERFORMANCE GROUNDWATER MONITORING WELL
MW–43	COMPLIANCE GROUNDWATER MONITORING WELL
MW–36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW–32 / 0.83	SHALLOW MONITORING WELL IRON, DISSOLVED (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)



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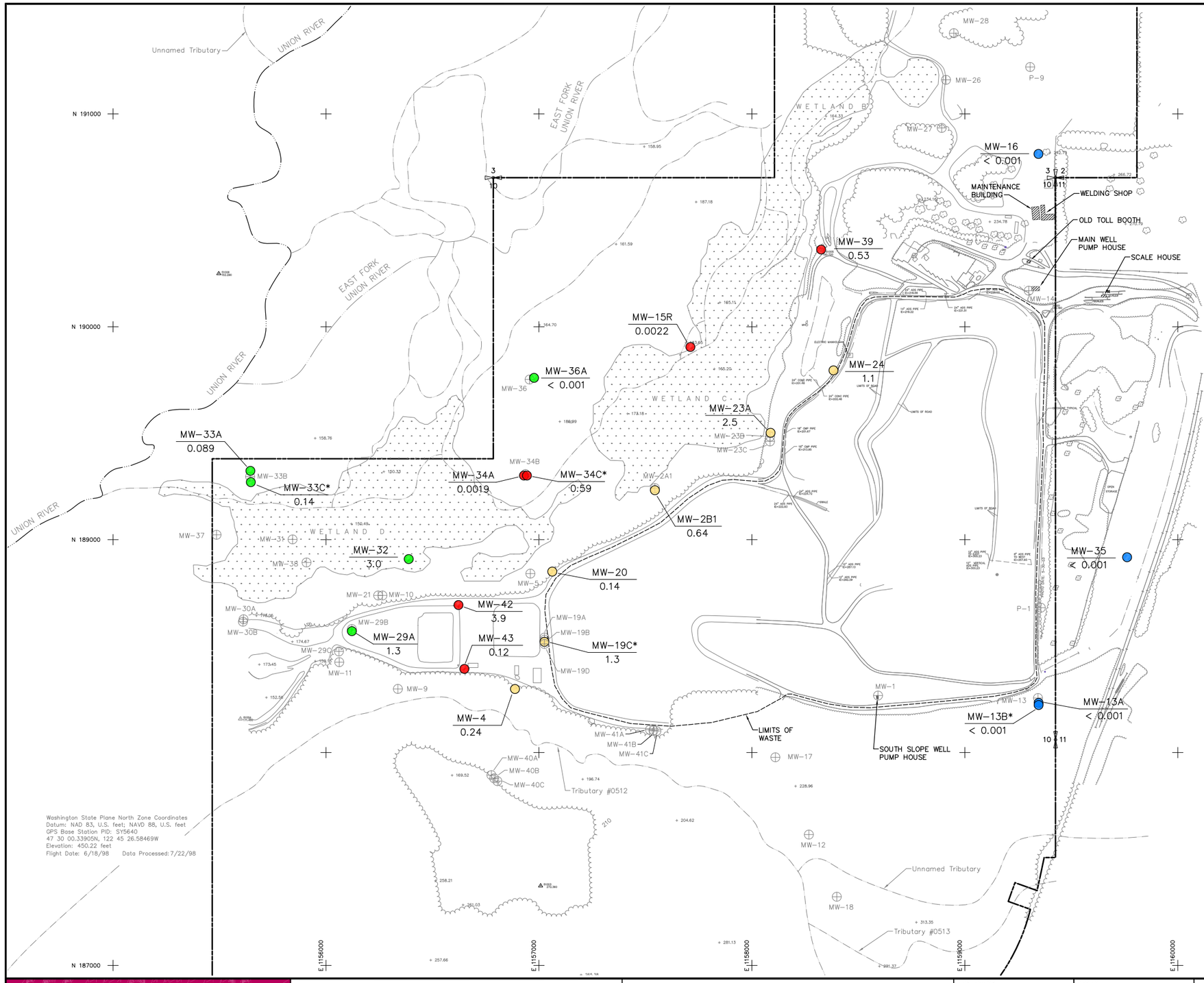
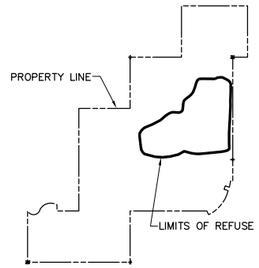
PROJECT NO. 04204027.19	DES BY S.P.	DISSOLVED IRON CONCENTRATION MAP NOVEMBER 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6B
CAD FILE FIGURE 6B	APP BY D.V.		

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

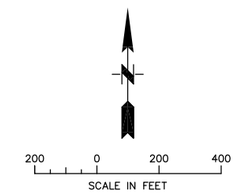




KEY MAP

LEGEND

MW–35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW–32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW–20	PERFORMANCE GROUNDWATER MONITORING WELL
MW–43	COMPLIANCE GROUNDWATER MONITORING WELL
MW–36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW–32 / 3.0	SHALLOW MONITORING WELL / MANGANESE, DISSOLVED (mg/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)



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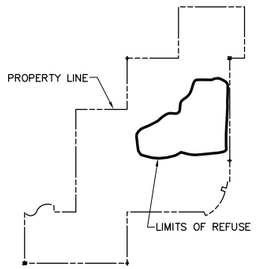
PROJECT NO. 04204027.19	DES BY S.P.	DISSOLVED MANGANESE CONCENTRATION MAP NOVEMBER 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6C
CAD FILE FIGURE 6C	APP BY D.V.		

NOTES:

1. Wells MW–29A and MW–33A are only sampled semi–annually and shown as NS when not sampled.
2. J–flagged values are reported as estimated values below the standard method reporting limit.
3. B–flagged values are estimated values. Concentrations may have been impacted by blank contributions as identified by the lab.



KEY MAP

LEGEND

MW–35	UPGRADIENT (BACKGROUND) GROUNDWATER MONITORING WELL
MW–32	DOWNGRADIENT GROUNDWATER MONITORING WELL
MW–20	PERFORMANCE GROUNDWATER MONITORING WELL
MW–43	COMPLIANCE GROUNDWATER MONITORING WELL
MW–36	GROUNDWATER MONITORING WELL (WATER LEVEL ONLY)
MW–32 / 0.33	SHALLOW MONITORING WELL / VINYL CHLORIDE (ug/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)

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

200 0 200 400
SCALE IN FEET

SCS ENGINEERS
Environmental Consultants and Contractors
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Bellevue, Washington 98005
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PROJECT NO. 04204027.19	DES BY S.P.	VINYL CHLORIDE CONCENTRATION MAP NOVEMBER 2015	DATE MARCH 2016
SCALE AS SHOWN	CHK BY D.V.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6D
CAD FILE FIGURE 6D	APP BY D.V.		

Figure 7. Leachate Generation (2007 - 2015)
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

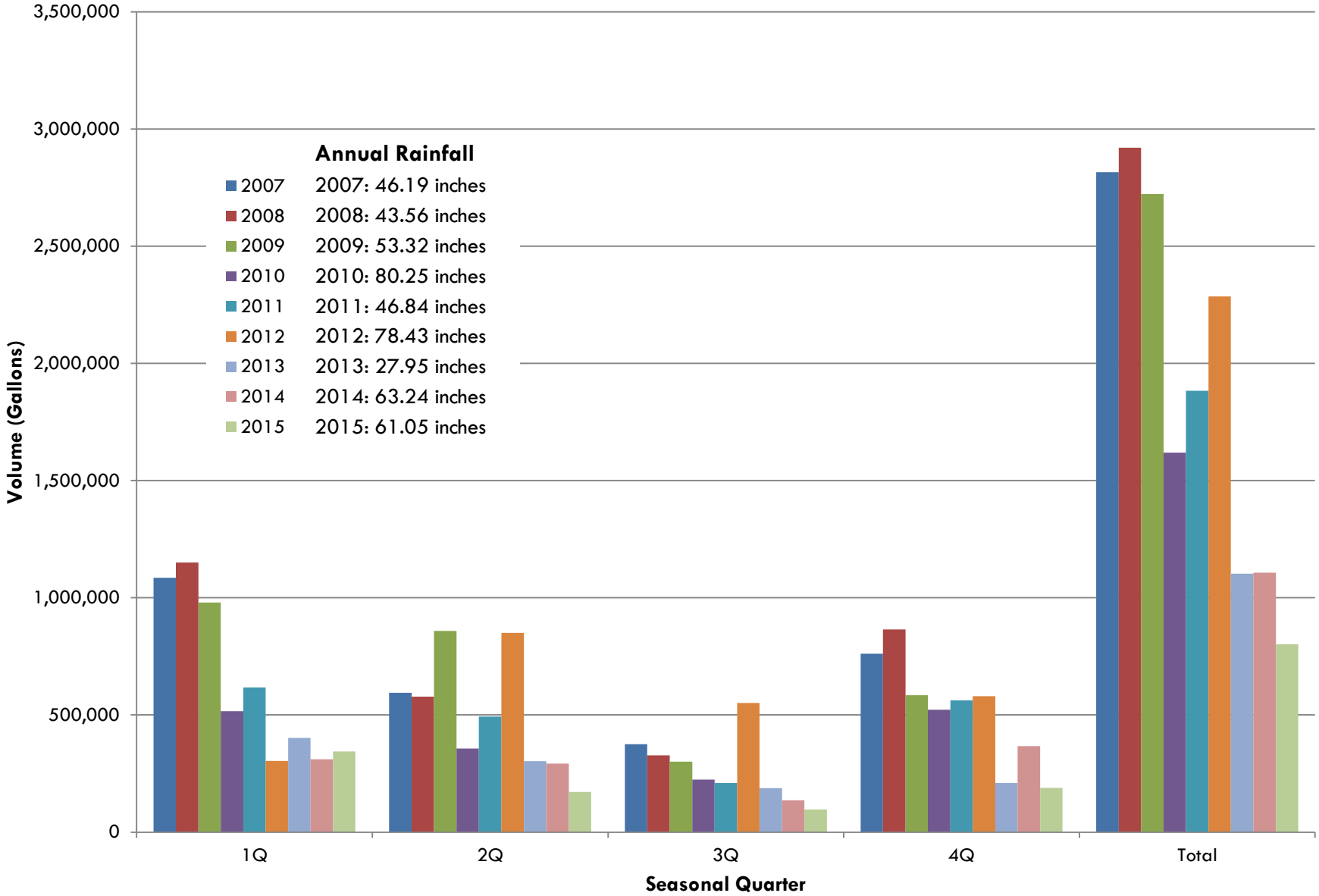
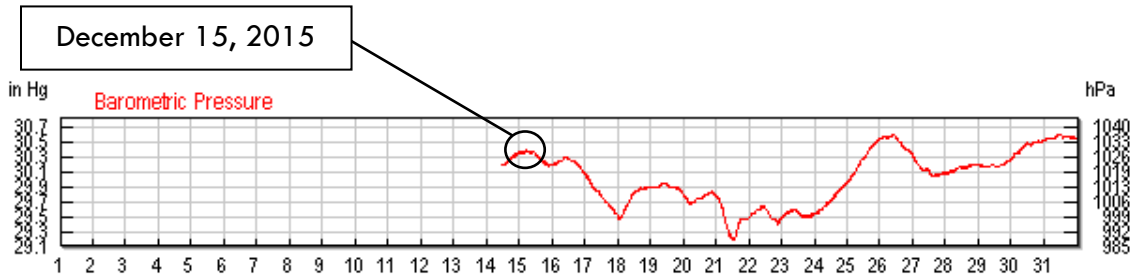
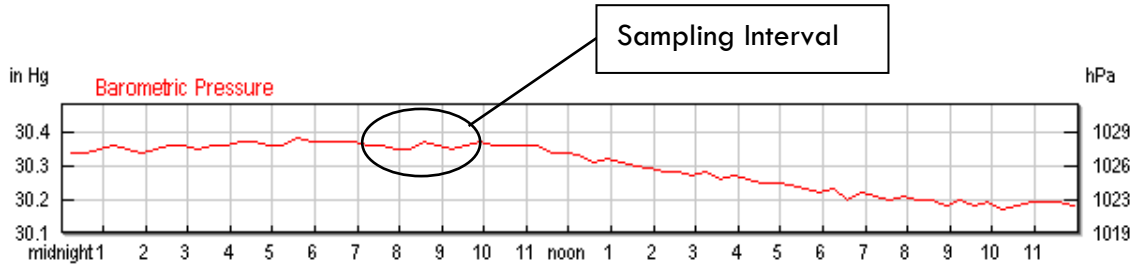


Figure 8. Barometric Pressure during LFG Migration Monitoring – December 2015
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Barometric Pressure Trend for December 2015



Barometric Pressure Trend for December 15, 2015



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

Data Sources:
http://www.wunderground.com/history/airport/KPWT/2015/12/15/DailyHistory.html?req_city=Bremerton&req_state=WA&reqdb.zip=98310&reqdb.magic=1&reqdb.wmo=99999

APPENDIX A

FOURTH QUARTER 2015
FIELD DOCUMENTATION

(FIELD DOCUMENTATION FROM Q1 THROUGH Q3 ON CD)

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and Contractors

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SCS ENGINEERS

November 12, 2015
File No. 04204027.18

Subject: **Fourth Quarter 2015 Compliance Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 11/9/15 through 11/11/15
Personel: Sam Graber and Brad Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-42 (DUP1) and MW-2B1 (DUP2).
- Geotech water level meters were used to record all water level elevations.
- In addition to the monitoring wells where groundwater was collected for chemical analysis, additional wells were monitored for groundwater level elevations. A summary of measured water levels are included with the field documentation.
- Vegetation that was blocking access to certain well locations was cleared in early August of 2015.
- Several well locks need replacement on the site.
- The samples were sent to TestAmerica Denver for analysis at the close of each sampling day, except samples for low level arsenic which were held until the end of the sampling event and provided to Analytical Resources, Inc. in Tukwila, Washington.

Sample Date	Location ID	Sample ID	Comments
11/9/2015	MW-34A	1115-01	
11/9/2015	MW-43	1115-02	
11/9/2015	MW-34C	1115-03	
11/9/2015	MW-29A	1115-04	
11/9/2015	MW-42	1115-05	
11/9/2015	MW-42	1115-06	DUP 1
11/9/2015	MW-20	1115-07	
11/10/15	MW-35	1115-08	
11/10/15	MW-13A	1115-09	
11/10/15	MW-13B	1115-10	
11/10/15	MW-23A	1115-11	
11/10/15	MW-2B1	1115-12	
11/10/15	MW-2B1	1115-13	DUP 2
11/11/15	MW-15R	1115-14	
11/11/15	MW-16	1115-15	

Sample Date	Location ID	Sample ID	Comments
11/11/15	MW-36A	1115-16	
11/11/15	MW-39	1115-17	
11/11/15	MW-33A	1115-18	
11/11/15	MW-33C	1115-19	
11/11/15	MW-19C	1115-20	
11/11/15	MW-4	1115-21	
11/11/15	MW-24	1115-22	
11/11/15	MW-32	1115-23	
11/11/15	L-INF	1115-24	
12/3/2015	LP-LCD	1115-25	

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-34A (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
11 09 15	1040	00:20			

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: D — 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): 40.57 (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	1045		6.09	0.170	12.17	1.0	0.80	282.7	40.61
2nd	1050		6.18	0.169	12.19	0.9	0.81	274.7	40.60
3rd	1055		6.21	0.166	12.16	1.0	1.03	269.8	40.60
4th	1100		6.24	0.168	12.15	1.0	1.01	267.3	40.61
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: Time Units
11 09 15	6.24	0.168	12.15	1.0	1.01	267.3	1100

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: Clear | Clear — Odor: None — Color: Clear — 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

* Needs new lock.

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
11/09/15	Bradley Beach	[signature]	SCS-FS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL
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
11 09 15	1645	:10			

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: D — 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)
	27.20	

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)
1055	300	1st 5.56	1st 80	11.66	7.95	1.88	137	
1100		2nd 5.55	2nd 78	11.71		1.55	122	
1103		3rd 5.57	3rd 78	11.71	4.09	1.54	121	
1106		4th 5.59	4th 78	11.70		1.53	121	
1109		5.60	78	11.71		1.50	121	
1112		5.58	77	11.71	2.29	1.49	122	
1115		5.58	77	11.72	2.23	1.48	122	
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: Time / Units
11 09 15	5.58	77	11.72	2.23	1.48	122	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: Clear — 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):

low conduc. makes it hard to get accurate WL reading.

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
11, 9, 15	Sam Carter		SLS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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
11/09/15	1130	0020			

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: D
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): 42.40 (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)
1135	1st	6.72	0.243	12.89		1.05	117.5	42.42
1140	2nd	6.81	0.248	13.01		0.42	69.3	42.41
1145	3rd	6.83	0.247	12.98		0.34	58.1	42.42
1150	4th	6.84	0.246	12.96		0.29	47.1	42.41
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: Time Units
11/09/15	6.84	0.246	12.96		0.29	47.1	1150

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: Off color / milky
Odor: None
Color: Orange
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

* Turbidity meter is malfunctioning, giving a reading of E 7.
* Needs new lock.

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
11/09/15	Bradley Beach		SCS-FS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ONGL

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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 09 15	12:05	:10			

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: D (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)
	14.22	

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)
12:15	300 1st	6.14 1st	88 1st	11.62	[illegible]	0.92	29	
12:20	2nd	6.16 2nd	88 2nd	11.60	3.66	0.33	19	
12:23	3rd	6.17 3rd	89 3rd	11.60		0.28	18	
12:26	4th	6.16 4th	89 4th	11.60		0.24	15	
12:29		6.15	89	11.58		0.21	15	
12:32		6.16	89	11.58		0.19	14	
12:35		6.16	89	11.58	2.29	0.18	14	14.55
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: time Units
11 09 15	6.16	89	11.58	2.29	0.18	14	1235

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: Clear — Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast — 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
11/9/15	Sam Graber	[signature]	
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OKL

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:

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
11 09 15	13:13	: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: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

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: D — 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)
	28.54	

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)
13:18	300	1st 6.49	1st 435	12.61		2.67	-21	
13:23		2nd 6.51	2nd 465	12.55	3.75	0.31	-51	
13:26		3rd 6.52	3rd 473	12.58		0.20	-60	
13:29		4th 6.51	4th 474	12.58		0.17	-65	
13:32		6.52	476	12.59	5.24	0.15	-69	28.58
13:35		6.52	473	12.58		0.13	-72	
13:38	V	6.52	479	12.59	3.92	0.11	-76	28.60
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: time Units
11 09 15	6.52	479	12.59	3.92	0.11	-76	1338

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: Clear — Odor: — — Color: — — Other: —

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

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

Dup 1 taken here.

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
11,9,15	Sam Grabar		SCS
/ /			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 09 15	1440	:08			

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: D (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): 37.14 (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)
1448	300	1st 6.74	1st 272	14.46		3.60	78	
1453	"	2nd 6.61	2nd 278	14.67	7.61	1.75	96	
1456	"	3rd 6.59	3rd 279	14.71		1.49	101	
1459	"	4th 6.58	282	14.75		1.25	106	
1502	"	6.58	282	14.75		1.11	108	
1505	"	6.57	284	14.77		0.99	111	
1508	V	6.56	287	14.77	4.95	0.93	113	37.45
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: Time Units
11 09 15	6.56	287	14.77	4.95	0.93	113	1508

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: clear Odor: ~~e~~ Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast 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
11/9/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

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:

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
11 10 15	9:00	:04			

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

Sampling Device: AC

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: D — 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)	73.25 (ft)	(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)
9:04	300	1st 5.89	1st 158	10.77		5.91	188	
9:09		2nd 6.67	2nd 156	10.41		5.90	151	
9:12		3rd 6.79	3rd 156	10.37	0.20	5.88	146	
9:15		4th 6.81	4th 156	10.37		5.90	143	73.30
9:18		6.88	157	10.35		5.90	139	
9:21		6.90	157	10.37		5.89	136	
9:24	↓	6.92	156	10.34	0.34	5.89	133	73.30
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: 48 hour Units
11 10 15	6.92	156	10.34	0.34	5.89	133	924

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: clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast 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
11, 10, 15	Sam Gruber	[signature]	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.: ____ Sample Point: MW-13A (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
11 10 15	10:05	: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: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

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: D — 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): 58.30 (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)
10:10	300	1st 6.74	1st 170	9.47		5.84	143	
10:15	1	2nd 6.72	2nd 168	9.49	0.36	5.87	139	58.30
10:18	1	3rd 6.71	3rd 170	9.49		5.85	139	
10:21	1	4th 6.72	168	9.50		5.83	138	
10:24	1	6.69	168	9.46		5.83	135	
10:27	1	6.67	168	9.48		5.82	135	
10:30	↓	6.68	169	9.49	0.37	5.83	135	58.40
:								
:								
:								
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: time Units ____
11 10 15	6.68	169	9.49	0.37	5.83	135	1030

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: Clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast 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
11/10/15	Sam Gruber	[signature]	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ONSL

Site No.:

Sample Point: MW-13B

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
11 10 15	1055	: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: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

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: D — 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): 62.21 (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)
1110	250	1st 6.13	1st 169	9.71	4.16	5.14	134	
1105		2nd 6.45	2nd 169	9.64		5.88	143	
1108		3rd 6.72	3rd 168	9.62		6.03	134	
1111		4th 7.08	4th 169	9.61		6.16	130	
1114		7.20	169	9.61		6.17	127	
1117		7.28	167	9.60		6.21	125	62.40
1120		7.28	169	9.59	1.13	6.21	123	
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: time Units
11 10 15	7.28	169	9.59	1.13	6.21	123	1120

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: Clear Odor: — Color: — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast 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
11/10/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OSL

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:

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
11/10/15	1235	:08			

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: D — 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)
	14.27	

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)
1243	300	1st 5.65	1st 212	12.99		0.44	25	
1248		2nd 5.57	2nd 213	13.03		0.30	24	
1251		3rd 5.57	3rd 213	13.04	18.22	0.26	23	
1254		4th 5.56	4th 212	13.05		0.24	24	
1257		5.54	213	13.02	9.77	0.20	24	
1300		5.56	212	13.01	10.24	0.19	25	14.30
1303	↓	5.54	213	13.02	9.16	0.17	26	
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: time Units
11/10/15	5.54	213	13.02		0.17	26	

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: Clear Odor: — Color: — Other: —

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

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

weeds low

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
11/10/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WSL

Site No.:

Sample Point: 281

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
11 10 15	1415	: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: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

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: D — 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): 8.20 (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 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)
1420	300	1st	5.47	1st	85		13.54		2.75	148	
1425		2nd	6.17	2nd	88		13.52		2.30	163	
1428		3rd	5.14	3rd	86		13.59		2.17	172	
1431		4th	5.10	4th	87		13.60		2.13	174	
1434			5.14		87		13.61	2.79	2.12	177	
1437			5.10		88		13.59		2.09	179	
1440			5.09		88		13.62	4.97	2.07	181	3.20
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: trip Units
11 10 15	5.09	88	13.62	4.97	2.07	181	1420

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: clear Odor: — Color: — Other: —

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

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

Dup 2 taken @ 1500

Needs lock

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
11/10/15	Sam Gardner	[signature]	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-1SR (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
11 11 15	0810	0020			

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

Sampling Device: C

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: D — 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) 1948 (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)
0815	1st	6.55	0.139	10.16	30	0.39	751	19.51
0820	2nd	6.64	0.137	10.23	10	0.52	632	19.50
0825	3rd	6.66	0.136	10.22	10	0.53	616	19.50
0830	4th	6.67	0.136	10.22	10	0.56	598	19.51
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: time Units
11 11 15	6.67	0.136	10.22	10	0.56	598	0830

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: Clear / Clear — Odor: None — Color: Clear — 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):

* Needs new lock.

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
11/11/15	Bradley Beach		SCS-FS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WSL
Site No.:
Sample Point: MW-16 (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
11 11 15	8:20	:06			

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

Sampling Device: C

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: D — 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): 61.98 (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)
8:26	300	1st 6.11	1st 131	8.99		6.84	228	
8:31		2nd 6.10	2nd 138	9.03		5.39	218	
8:34		3rd 6.11	3rd 137	8.99		5.17	211	
8:37		4th 6.13	4th 138	9.01		5.69	210	
8:40		6.12	137	8.98		5.83	205	
8:43		6.11	136	8.99		5.82	204	
8:46	↓	6.13	136	9.01		5.75	198	62.05
:								
:								
:								
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: time Units
11 11 15	6.13	136	9.01		5.75	198	846

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: clear Odor: — Color: — Other: —

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

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

FIELD COMMENTS

turbidity meter not working.

Needs lock

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
11/11/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/11/15	0855	0020			

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

X-Other:

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

Sample Tube Type: D — 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)
	32.03	

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)
09:00	1st	6.35	0.109	9.29	1.0	3.03	706	32.05
09:05	2nd	6.41	0.110	9.28	1.0	3.10	624	32.07
09:10	3rd	6.42	0.110	9.30	1.0	3.11	619	32.06
09:15	4th	6.42	0.109	9.30	1.0	3.17	616	32.05
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: Time Units
11/11/15	6.42	0.109	9.30	1.0	3.17	616	0915

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: Clear/Clear — Odor: none — Color: clear — 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
11/11/15	Bradley Beach	[signature]	SCS-FS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
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
11/11/15	09:45	00:25			

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

Sampling Device: C

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: D — 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): 21.71 (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)
0950	1st	6.54	0.216	11.85	6.21	0.32	8.5	21.85
0955	2nd	6.50	0.217	11.80	3.74	0.23	7.6	21.84
1000	3rd	6.51	0.228	11.77	3.09	0.18	4.2	21.82
1005	4th	6.50	0.230	11.74	3.17	0.16	3.1	21.83
1010		6.49	0.230	11.71	2.39	0.15	3.0	21.84
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: Time Units
11/11/15	6.49	0.230	11.71	2.39	0.15	3.0	1010

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: Off color / particulates Odor: None Color: light straw 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
11/11/15	Bradley Beach		SES-FS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DUSL

Site No.:

Sample Point: MW-33A (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
11 11 15	945	: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

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: D (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)
	8.37	

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)
9:50	300 1st	6.07 1st	99	10.63		0.61	7	
9:55	2nd	6.03 2nd	99	10.40		0.49	12	
9:58	3rd	6.03 3rd	99	10.34		0.49	12	
10:03	4th	6.02 4th	98	10.22		0.53	15	
10:06		6.00	99	10.15		0.51	20	
10:09		6.01	100	10.10		0.47	24	
10:12		6.04	100	10.08		0.44	27	7.50
10:15	↓	6.06	102	10.05		0.40	29	
:								
:								
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: time Units
11 11 15	6.06	102	10.05		0.40	29	1015

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: Clear Odor: — Color: — Other: —

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

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

Orange material in effluent at beginning of purge.

Purged out after ≈ 10 Minutes.

Turbidity meter not functioning

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
11/11/15	Sam Graber	Sam Graber	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW-33C (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
11/11/15	1045	0:05			

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

Sampling Device: C

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: D — 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)	2.60 (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)
1050	300 1st	6.46 1st	160	9.67		2.12	98	
1055	2nd	6.45 2nd	159	9.50		0.51	32	
1058	3rd	6.69 3rd	159	9.48		0.26	-15	
1101	4th	6.95 4th	158	9.47		0.20	-43	
1104		7.20	160	9.43		0.16	-60	2.62
1107		7.41	159	9.43		0.15	-81	
1110		7.50	158	9.43		0.13	-89	
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: time Units
11/11/15	7.50	158	9.43		0.13	-89	1110

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: Clear Odor: — Color: — Other: —

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

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

FIELD COMMENTS

turbidity meter not functioning

DTW

MW-33B = 2.70

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
11/11/15	Sam Carlson		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
Site No.:
Sample Point: MW-19C (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
11/11/15	1055				

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: D
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)
	35.33	

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)
1100	1st	6.54	0.135	10.34	7.94	0.29	421	35.37
1105	2nd	6.60	0.135	10.35	2.76	0.24	367	35.36
1110	3rd	6.61	0.134	10.32	1.60	0.20	340	35.36
1115	4th	6.62	0.134	10.32	1.35	0.18	323	35.34	
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: ~~TIME~~ Units
11/11/15	6.62	0.134	10.32	1.35	0.18	323	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: Clear / Clear Odor: none Color: Clear 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
11/11/15	Bradley Beach		SCS-FS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
Site No.:
Sample Point: MW-4 (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
11 11 15	1200	0025			

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: D — 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): 15.33 (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)
1205	1st	6.25	0.080	10.24	32.2	2.88	719	15.34
1210	2nd	6.23	0.081	10.22	16.4	2.55	690	15.34
1215	3rd	6.24	0.082	10.21	12.1	2.29	678	15.34
1220	4th	6.24	0.083	10.20	10.1	2.17	665	15.34
1225		6.25	0.084	10.19	7.64	2.09	656	15.34
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: TIME Units
11 11 15	6.25	0.084	10.19	7.64	2.09	656	1225

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: clear / particulates Odor: None Color: clear 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

* New lock needed

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
11/11/15	Bradley Beach		SES-FS
__/__/__			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: WSL

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
11 11 15	12:20	: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: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

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: D — 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)	34.63 (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)
12:25	100	1st 6.28	1st 142	12.16		0.58	111	
12:30	2nd	2nd 6.12	2nd 144	11.85		0.20	116	
12:33	3rd	3rd 6.13	3rd 144	11.80		0.19	115	
12:36	4th	4th 6.12	4th 145	11.80		0.15	114	
12:39		6.14	145	11.83		0.14	115	34.65
12:42		6.13	145	11.89		0.13	115	
12:45	↓	6.11	145	11.90		0.13	115	
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: time Units
11 11 15	6.11	145	11.90		0.13	115	1245

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: clear Odor: — Color: — Other: —

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

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

- Low Flow, • Mud in Sample tubing prior to sampling. Cleaned out most of it.
- turbidity not functioning
- black particulates suspended in samples.

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
11/11/15	Sam Corabar	Sam Corabar	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

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
11/11/15	1245				

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

Sampling Device: C

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: D — 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)	2.11 (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)
1st	1250		6.85	0.347	12.94	2.96	0.43	24.9	2.13
2nd	1255		6.87	0.349	12.56	2.97	0.25	19.2	2.12
3rd	1300		6.88	0.350	12.56	2.55	0.21	18.2	2.12
4th	1305		6.88	0.350	12.55	2.03	0.18	17.6	2.12
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: TIME Units
11/11/15	6.88	0.350	12.55	2.03	0.18	17.6	1305

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: Clear/clear — Odor: None — Color: Clear — 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
11/11/15	Bradley Beach	[signature]	SCS-FS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: L-INF (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
11 11 15 (sample)					

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: F

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)

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)
14:00	1st	7.07	3480	12.23	5.15	2.57	131	
	2nd							
	3rd							
	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: time / Units
11 11 15	7.07	3480	12.23	5.15	2.57	131	1400

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: yellowish Odor: slight Color: yellowish Other: —

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

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

FIELD COMMENTS

SpC = 3.48 ⇒ 3480

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
11/11/15	Sam Gruber		SCS

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	11/9/15					
Time	930					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1141	4.55	6.09	8.20		
Post Cal Reading	1413	4.01	7.00	8.50	986.3, 11.37, 0.0	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	STG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
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	11/9/15					
Time	930					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	3.99	6.80	8.05		
Post Cal Reading	1413	4.01	7.00	8.50	99.8, 20.7, 1.0	problem w/ Hach
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	11/10/15					
Time	800					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1430	4.73	7.66	9.76		
Post Cal Reading	1413	4.01	7.00	8.50	1100, 8.49, 0.0	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEb					
Instrument Type, ID		~~MP20~~ / YSI 556			MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	11/11/15					
Time	730					
Weather (sky or precip, temp)	partly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 ~~800, 100, 20,~~ <0.1	
Pre-Cal Reading	1398	4.10	6.81			
Post Cal Reading	1413	4.01	7.00		741.6, 5.0, error	problem w/ MicroTPW
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SE6					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OWL					

* 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	11/11/15					
Time	730					
Weather (sky or precip, temp)	partly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 ~~800~~, 100, 20, <0.1	
Pre-Cal Reading	1550	4.44	6.35			
Post Cal Reading	1413	4.01	7.00		790, 101, 21, 1	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OSL					

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

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-1	–	–	–	–	Not Measured, Hazard/No Access	
MW-10	11/10/15	0937	4.72	BZ		NM
MW-11					Couldn't Find	4.25
MW-12	11/11/15	1043	51.86	BM		NM
MW-13	11/10/15	1039	31.51	BB		28.94
MW-13A	11/10/15		58.30			46.34
MW-13B			62.21			60.30
MW-14	–	–	–	–	Not Measured, Damaged Well	
MW-15R	11/11/15	0808	19.45	BM		18.72
MW-16	11/11/15		61.98			57.65
MW-17	11/10/15	1035	36.62	BB		NM
MW-18	11/10/15	1124	67.91	BH		NM
MW-19A						32.58
MW-19B						32.62
MW-19C	11/11/15		35.33			33.80
MW-19D						32.73
MW-20	11/9/15		37.14			35.91
MW-21	11/10/15	0936	5.91	BZ		5.35
MW-23A	11/10/15	1132	14.21	BB		NM
MW-23B	11/10/15	1134	14.53	BB		12.41
MW-23C	11/10/15	1135	11.84	BB		12.92
MW-24	11/11/15		34.63			21.74
MW-26	11/10/15	0917	14.19	BZ		NM
MW-27	11/10/15	0915	25.08	BB		21.74
MW-28	11/10/15	0920	7.15	BZ		NM
MW-29A	11/10/15	1159	14.29	BB		13.35
MW-29B	11/10/15	1201	18.32	BM		17.12
MW-29C	11/10/15	0959	12.97	BB		11.73

SCS ENGINEERS						
				OVSL		
						Page 2 of 2
	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-2A1	11/10/15	0926	9.21	BB		9.12
MW-2B1			8.20			6.72
MW-30A	11/10/15	0947	25.24	BB		24.00
MW-30B	11/10/15	0948	25.07	BB		23.88
MW-31	11/11/15	1131	5.03	BB		NM
MW-32	11/11/15		2.11			1.50
MW-33A	11/11/15		8.37			5.62
MW-33B	↓		2.70			2.13
MW-33C	↓		2.60			2.17
MW-34A	11/09/15	1040	40.57	BB		39.5
MW-34B	11/10/15	0933	40.38	BB		39.41
MW-34C	11/09/15	1130	42.40	BB		41.21
MW-35	11/10/15		73.25			72.07
MW-36	11/10/15	0929	32.11	BB		31.14
MW-36A	11/11/15	0850	32.03	BB		31.00
MW-37	11/10/15	1103	4.03	BB		NM
MW-38	11/10/15	0941	3.92	BB		3.67
MW-39	11/11/15	0940	21.71			21.34
MW-4	↓		15.33			14.95
MW-40A	11/10/15	1008	18.79	BB		15.51
MW-40B	11/10/15	1009	15.85	BB		15.44
MW-40C	11/10/15	1010	16.25	BB		15.84
MW-41A	11/10/15	1023	27.52	BB		24.18
MW-41B	11/10/15	1024	27.88	BB		24.64
MW-41C	11/10/15	1026	28.97	BB		26.16
MW-42	11/9/15		28.54			27.85
MW-43	11/09/15		27.20			25.16
MW-5						2.57
MW-9	11/10/15	1017	3.13	BB		NM

Environmental Consultants
and Contractors

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Suite 107
Bellevue, WA 98005-1877

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SCS ENGINEERS

March 6, 2015
File No. 04204027.18

Subject: **First Quarter 2015 Ground Water Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 2/23/15 through 2/25/15
Personell: Matt O'Hare and Bradley Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- pH analysis for several samples was performed by TestAmerica due to meter calibration failure.
- Duplicate samples were collected at MW-23A (DUP1) and MW-36A (DUP2).
- The Solinst model 101 water level meter was used to record all water level elevations.
- In addition to the monitoring wells where groundwater was collected for chemical analysis, additional wells were monitored for groundwater level elevations. A summary of measured water levels are included with the field documentation.
- Several well locks need replacement on the site.
- The samples were sent to TestAmerica Denver for analysis at the close of each sampling day, except samples for low level arsenic which were held until the end of the sampling event and provided to Analytical Resources, Inc. in Tukwila, Washington.

Sample Date	Location ID	Sample ID	Comments
2/23/15	MW-16	0215-01	
2/23/15	MW-13A	0215-02	
2/23/15	MW-39	0215-03	
2/23/15	MW-13B	0215-04	
2/23/15	MW-2B1	0215-05	
2/23/15	MW-20	0215-06	
2/23/15	MW-19C	0215-07	
2/24/15	MW-15R	0215-08	
2/24/15	MW-33C	0215-09	
2/24/15	MW-36A	0215-10	
2/24/15	MW-36A	0215-11	Field Duplicate DUP2
2/24/15	MW-34C	0215-12	
2/24/15	MW-34A	0215-13	
2/24/15	MW-24	0215-14	
2/24/15	MW-43	0215-15	
2/25/15	MW-42	0215-16	

Sample Date	Location ID	Sample ID	Comments
2/25/15	MW-32	0215-17	
2/25/15	MW-23A	0215-18	
2/25/15	MW-23A	0215-19	Field Duplicate DUP1
2/25/15	MW-35	0215-20	
2/25/15	MW-4	0215-21	
3/25/2015	LP-LCD	0215-22	Leachate Pond – Leak Detection

SCS ENGINEERS

OVSL

	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-2A1	2/25/15		7.79	BB		9.12
MW-2B1			6.69	BB		6.72
MW-30A			23.54	BB		24.00
MW-30B			23.37	BB		23.88
MW-31			2.21	MO		NM
MW-32			1.33	MO		1.50
MW-33A			5.49	MO		5.62
MW-33B			1.85	MO		2.13
MW-33C			1.90	MO		2.17
MW-34A			39.17	BB		39.5
MW-34B			39.03	BB		39.41
MW-34C			41.02	BB		41.21
MW-35			71.34	MO		72.07
MW-36			30.83	BB		31.14
MW-36A			30.63	BB		31.00
MW-37			2.06	MO		NM
MW-38			4.40	MO		3.67
MW-39			19.05	BB		21.34
MW-4			18.25	MO	W.L. Suspect due to Low Cond.	14.95
MW-40A			13.70	MO		15.51
MW-40B			13.65	MO		15.44
MW-40C			14.25	MO		15.84
MW-41A			23.61	BB		24.18
MW-41B			24.01	BB		24.64
MW-41C			25.64	BB		26.16
MW-42	2/25/15		27.31	BB		27.85
MW-43			24.30	MO		25.16
MW-5			2.29	MO		2.57
MW-9			2.10	MO		NM

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-10	2/25		3.74	MO		NM
MW-11			4.10	MO		4.25
MW-12			49.83	MO		NM
MW-13			28.93	MO		28.94
MW-13A			58.72	MO		46.34
MW-13B			59.62	MO		60.30
MW-15R			18.63	BB		18.72
MW-16			57.51	BB		57.65
MW-17			32.87	MO		NM
MW-18			48.03	MO		NM
MW-19A			32.13	MO		32.58
MW-19B			32.23	MO		32.62
MW-19C			33.40	MO		33.80
MW-19D			32.35	MO		32.73
MW-20			35.54	MO		35.91
MW-21			4.97	BB		5.35
MW-23A			12.04	MO		NM
MW-23B			12.33	MO		12.41
MW-23C			12.40	MO		12.92
MW-24			21.95	MO		21.74
MW-26			10.35	MO		NM
MW-27			21.02	MO		21.74
MW-28			4.00	MO		NM
MW-29A			13.03	BB		13.35
MW-29B			16.78	BB		17.12
MW-29C			11.46	BB		11.73

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-16 (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
02/23/15	1040	0:05			

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

Sampling Device: A

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: D

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): 57.51 (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	6.73	1st 0.083	8.99	8.86	8.52	951	57.92
1050	2nd	6.58	2nd 0.082	8.95	4.22	8.43	948	57.93
1055	3rd	6.50	3rd 0.081	8.94	2.53	8.41	963	57.91
1100	4th	6.50	4th 0.081	9.00	2.29	8.45	943	57.92
1105		6.48	0.080	9.02	2.97	8.44	955	57.91
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
02/23/15	6.48	0.080	9.02	2.97	8.44	955	1105

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: clear / clear — Odor: None — Color: Clear — Other: ____

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

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

See MW-13A for Stabilization Parameters

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
2/23/15	Bradley Branch		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-13A (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
02/23/15	1119	00:05			

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

Sampling Device: A

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: D (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): 58.72 (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)
1st 11:24	350		166	9.36	7.	6.37	508	58.77
2nd 11:29	1		166	9.40	5.	6.04	502.	58.77
3rd 11:34	1		165	9.39	4.	5.95	495	58.77
4th 11:39	↓		165	9.41	4.	5.92	491	58.77
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
02/23/15	6.25	165	9.41	4	5.92	491	1139

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: Clear Odor: None Color: None Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: None Outlook: Sunny Precipitation: Y or (N)

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

FIELD COMMENTS

Stabilization parameters: SpC ±10%, pH ±0.2, D.O. ±0.2, eH ±25, turbidity ≤5 or ±10%, Temp ±0.5°C

pH not measured concurrently with other parameters due to meter failure

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
2/23/15	Matt Oltrogge	MAO	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-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 (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/23/15	1135	0005			

Note: For Push-n-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

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: D — 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): 1905 (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)
1140	1st	6.16	0.146	11.83	3.425	0.48	302	19.01
1145	2nd	5.79	0.120	11.29	2.33	0.27	412	19.11
1150	3rd	5.77	0.121	11.33	1.626	0.44	453	19.15
1155	4th	5.92	0.132	11.37	1.75	0.42	442	19.13
1200		6.13	0.144	11.47	1.55	0.42	419	19.13
1205		6.20	0.147	11.41	1.98	0.40	415	19.15
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
02/23/15	6.20	0.147	11.41	3.98	0.40	415	1205

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: Off color / particles

Odor: None

Color: light straw

Other: particulates

Weather Conditions (required daily, or as conditions change):

Direction/Speed:

Outlook: clear

Precipitation: Y or (N)

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

See MW-13A for stabilization parameters

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
2/23/15	Bradley Beach		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-13B (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
02/23/15	11:58	0:05			

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

Sampling Device: A

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

Sample Tube Type: D — 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): 59.62 (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)
1st 12:03			165	9.66	3	6.55	485	59.85
2nd 12:08			164	9.62	2	6.45	471	59.85
3rd 12:13			164	9.67	3	6.43	468	59.85
4th 12:18			164	9.76	2	6.43	466	59.85
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
02/23/15	5.85	164	9.76	2	6.43	466	1218

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: Clear — Odor: None — Color: None — 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

See MW-13A for stabilization Parameters

pH not measured concurrently with other parameters due to meter failure

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
2/23/15	Matt Ottum		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-2B1 (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 relinquished 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
02/23/15	1225	0005			

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

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: D — 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): 6.69 (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)
1230	1st	5.51	0.077	12.76	4.70	0.61	862	6.74
1235	2nd	5.66	0.079	12.55	1.82	0.18	835	6.76
1240	3rd	5.69	0.079	12.57	1.55	0.15	835	6.75
1245	4th	5.77	0.079	12.56	1.75	0.11	849	6.77
1250		5.84	0.079	12.59	1.60	0.11	863	6.75
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
02/23/15	5.84	0.079	12.59	1.60	0.11	863	1250

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: Clear/clear — Odor: NONE — Color: Clear — Other:

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

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

See MW-13A for Stabilization Parameters

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
2/23/15	Bradley Beach		SCS Engineers

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

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-12D (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 relocated 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
02/23/15	1312	0:05			

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

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

X-Other:

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

Sample Tube Type: D (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)	35.54 (ft)	(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)
1317	1st	5.67	230	14.73	6	6.17	102.2	35.55
1322	2nd	5.68	235	14.64	4	5.88	105.7	35.55
1327	3rd	5.70	234	14.63	1	5.69	107.2	35.55
1332	4th	5.79	232	14.61	2	5.60	106.5	35.55
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
02/23/15	5.79	232	14.61	2	5.60	106.5	1332

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: Clear — Odor: None — Color: Clear — 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):

See MW-13A for Stabilization Parameters

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
2/23/15	Matt O'Hara		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-119C (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 relinquished 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
02/23/15	14:16	00:05			

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
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
Sample Tube Type: D
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
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): 33.40 (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)
1st 14:21		6.83	1.105	10.78	1	0.95	624	33.47
2nd 14:26		7.00	1.106	10.71	2	0.37	616	33.45
3rd 14:31		6.95	1.106	10.70	1	0.28	612	33.45
4th 14:36		6.92	1.106	10.66	1	0.25	609	33.45
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
02/23/15	6.92	1106	10.66	1	0.25	609	1436

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: Clear Odor: None Color: Clear 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):

See MW-13A for Stabilization Parameters

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
2/23/15	Matt O'Hara		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-15R (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
02/24/15	0850	0005			

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: ____

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

X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl) — Depth to Water (DTW) (from TOC): 18.63 (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)
1st 0855		5.67	0.128	10.01	7.84	1.07	703	18.69
2nd 0900		5.77	0.130	10.02	4.07	0.87	605	18.71
3rd 0905		5.81	0.129	10.01	4.27	0.83	542	18.70
4th 0910		5.80	0.127	10.03	3.97	0.69	532	18.71
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
02/24/15	5.80	0.127	10.03	3.97	0.69	532	0910

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: Clear/clear — Odor: None — Color: clear — Other: ____

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

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

See MW-13A for Stabilization Parameters

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
2/24/15	Bradley Beach		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: MW-3B(C) (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
02/24/15	0930	00:05			

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

Sampling Device: A

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: D — 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): 19.0 (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)
0935	1st		152	8.62	35	320	374	19.0
0940	2nd		152	8.67	36	0.48	229	19.0
0945	3rd		152	8.73	35	0.31	167	19.0
0950	4th		152	8.73	37	0.28	155	19.0
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
02/24/15		152	8.73	37	0.28	155	0950

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: Clear Odor: None Color: None Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 5 Outlook: Clear Precipitation: Y or (N)

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

pH Measured by Laboratory due to meter failure

See MW-13A for Stabilization Parameters

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
2.24.15	Matt Orlemann		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: 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
02/24/15	0935	2005			

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

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: D

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)
	30.63	

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)
0940		1st 2.83	1st 0.103	9.12	3.41	2.52	770	30.71
0945		2nd 3.41	2nd 0.104	9.17	1.47	1.98	718	30.69
0950		3rd 3.53	3rd 0.102	9.21	1.49	1.82	689	30.70
0955		4th 3.58	4th 0.103	9.21	1.55	1.79	750	30.71
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
02/24/15		103	9.21	1.55	1.79	750	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: clear / clear — Odor: None — Color: clear — Other: ____

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

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

* DUP2 Taken @ 0955

pH analysis performed by laboratory due to meter failure

See MW-13A for Stabilization Parameters

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
2/24/15	Bradley Beach		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-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 relinquished 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
02/24/15	1110	0005			

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

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: D (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): 41.02 (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)
1115	1st	1674	0183	12.69	21.18	0.97	-23.9	41.09
1120	2nd	2181	0184	12.71	13.46	0.50	-7.4.2	41.11
1125	3rd	1815	0183	12.70	15.96	0.37	-56.3	41.10
1130	4th	1737	0183	12.69	9.30	0.31	-54.2	41.09
1135		1731	0183	12.75	7.84	0.30	-55.3	41.07
1140		1723	0183	12.71	39.04	0.29	-54.2	41.07
1145		17(7)	0183	12.69	39.12	0.30	-53.2	41.07
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
02/24/15	~~7.7~~ 7	0183	12.69	39.12	0.30	-53.2	1145

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: officeder / cloudy — Odor: None — Color: pale yellow — Other:

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

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

pH Analysis performed by laboratory due to meter Failure

See MW-13A for Stabilization Parameters

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
2/24/15	Bradley Beach		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: MW-34A (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 relinquished 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
02/24/15	1205	0005			

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

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

X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl) | Depth to Water (DTW) (from TOC): 39.17 (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)
12:10	1st	18.58	0.108	12.11	1.36	5.61	244	39.21
12:15	2nd	17.47	0.111	12.10	2.61	5.35	300	39.20
12:20	3rd	16.75	0.112	12.04	0.83	5.10	325	39.21
12:25	4th	16.37	0.112	12.03	0.49	5.09	342	39.21
12:30		16.30	0.113	12.02	0.65	5.04	341	39.20
12:35		16.24	0.114	12.02	0.54	5.01	345	39.21
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
02/24/15	~~6.24~~	0114	12.02	0.54	5.01	345	1235

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: Clear / Clear — Odor: None — Color: Clear — Other:

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

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

pH analysis performed by laboratory due to meter Failure

See MW-13A for stabilization Parameter

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
2/24/15	Bradley Beach		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-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 (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/24/15	1210	00:20			

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: D

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): 31.95 (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 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)
12:30	<100 1st		145 1st	11.86	37.	0.22	399.	31.98
12:35	2nd		145 2nd	11.87	20.	0.22	395.	32.00
12:40	3rd		146 3rd	11.90	18.	0.23	386.	32.00
12:45	4th		146 4th	11.98	19.	0.22	375.	32.00
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
02/24/15		146	11.98	19	0.22	375	1245

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: Clear — Odor: None — Color: Clear — 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):

Extended Purge due to low flow/ High turbidity
Air line needs repair

pH not measured concurrently due to meter failure
See MW-13A for stabilization parameters

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
2.24.15	Matt O'Hare		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-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:

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
02/24/15	1417	0220			

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: B
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): 24.30 (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 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)
1437	1st	1st	41	9.29	7	3.24	333	24.30
1442	2nd	2nd	40	9.28	5	3.27	334	24.30
1447	3rd	3rd	40	9.29	4	3.26	333	24.30
1452	4th	4th	40	9.29	4	3.27	333	24.30
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
02/24/15		40	9.29	4	3.27	333	1452

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):

Extended Purge due to high turbidity >1000 during beginning of purge
pH analysis performed by laboratory due to meter failure

See MW-13A for Stabilization Parameters

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
2.24.15	Matt O'Hara		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-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 relinquished 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
02/25/15	0805	0010			

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

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: D

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)	27.31 (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 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)
1st 0810			0396	12.01	24.68	0.22	-29.5	27.34
2nd 0815			0401	12.00	10.09	0.16	-37.7	27.33
3rd 0820			0400	11.99	4.27	0.25	-42.1	27.32
4th 0825			0400	12.01	4.35	0.24	-43.7	27.33
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
02/25/15		0400	12.01	4.35	0.24	-43.7	0825

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: Clear / Clear — Odor: None — Color: Clear — Other: _____

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

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

FIELD COMMENTS

pH analysis performed by Laboratory due to meter Failure

See MW-13A for Stabilization Parameters

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
2/25/15	Bradley Beach		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-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
02/25/15	0820	0005			

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

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: D — 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)
	13.3	

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)
0825	500	1st	255	11.84	9	0.35	234	1.47
0830		2nd	253	11.85	6	0.32	236	1.50
0835		3rd	254	11.85	5	0.31	239	1.50
0840		4th	254	11.85	5	0.30	240	1.50
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
02/25/15		254	11.85	5	0.30	240	0840

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: Clear — Odor: None — Color: Clear — 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):

See MW-13A for Stabilization Parameters

pH Analysis performed by laboratory due to meter failure

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
2.25.15	Matt Otten		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-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 relocated 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
02 25 15	0914	0005			

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

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: D

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): 12.04 (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)
1st 09:19			172	12.35	57	0.44	305	12.07
2nd 09:24			172	12.37	75	0.31	302	12.10
3rd 09:29			172	12.39	79	0.27	302	12.10
4th 09:34			173	12.38	77	0.26	301	12.10
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
02 25 15		173	12.38	77	0.26	301	0934

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: Clear Odor: None Color: Clear 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

MW-23B = 12.33

MW-23C = 12.40

See MW-13A for stabilization Parameters

Dup-1 taken at 0940

PH analysis performed by laboratory due to meter failure

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
02.25.15	Matt Olthoff		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-13S (Sample ID)

This Waste Management Field Information Form is Required
This Form is to be completed, or added from 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
02/25/15	1015	0005			

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

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: D

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)	71.34 (ft)	(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)
1020	300 1st		153	10.25	3.	6.61	373	71.34
1025	↓ 2nd		153	9.96	2.	6.26	370	71.34
1030	3rd		152	9.85	3.	6.23	371	71.34
1035	↓ 4th		152	9.90	1.	6.22	372	71.34
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
02/25/15		152	9.90	1.	6.22	372	1035

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: Clear Odor: None Color: Clear 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):

See MW-13A for Stabilization Parameters

pH analysis performed by laboratory due to meter failure

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
2.25.15	Matt Dolan		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. This 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
02 25 15	1124	00:05			

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
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: D (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): 18.25 (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)
1129	200 1st		107 1st	9.84	5	0.52	408	18.25
1134	2nd		107 2nd	9.86	4	0.23	399	18.25
1139	3rd		107 3rd	9.86	4	0.22	397	18.25
1144	4th		106 4th	9.85	3	0.21	395	18.25
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
02 25 15		106	9.85	3	0.21	395	1144

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: Clear — Odor: None — Color: Clear — 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):

See MW-13A for stabilization parameters

pH analysis performed by laboratory due to meter failure

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
2.25.15	Matt Ohlsen		SCS Engineers

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

TAL-8029WM (0108)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	2/23/15					
Time	0900					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	~~1000, 10, 0.2~~ 800, 100, 20, <0.1	
Pre-Cal Reading	440	4.82	6.85			
Post Cal Reading	445	4.01	7.00	8.5	1000, 10, 0.2	
Descrepancy	None					
Calib. Successful?	yes					
Calibration by	Matt Ottem					
Instrument Type, ID	MP20 / (YSI 556)				(MicoTPW / HACH2000)	
Calibration Location	Office					

* 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	2/23/15					
Time	0900					
Weather (sky or precip, temp)	Sunny ~40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	437	6.51	6.93			
Post Cal Reading	445	Fail	7.00	8.50	800, 100, 20, <0.1	pH4 cal failure
Descrepancy	none					
Calib. Successful?	yes	no	yes	yes	yes	
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
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	2/24/15					
Time	0800					
Weather (sky or precip, temp)	Sunny ~40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	449	6.59	7.04			
Post Cal Reading	445	Fail	7.00	8.5	1000, 10, 0.2	pH 4 Failure
Descrepancy	none					
Calib. Successful?	yes	Fail	yes	yes	yes	
Calibration by	[illegible]					
Instrument Type, ID	MP20 / (YSI 556)				(MicoTPW) / HACH2000	
Calibration Location	OVSL					

* 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	2/24/15					
Time	0800					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, ~~10, 0.2~~ 800, 100, 20, <0.1	
Pre-Cal Reading	430	6.40	6.87			
Post Cal Reading	445	Fail	Fail	8.50	800, 100, 20, 0.(	pH cal Failure.
Descrepancy	None					
Calib. Successful?	yes	Fail	Fail	yes	yes	
Calibration by	MH Orth					
Instrument Type, ID	~~MP20~~ / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	2/25/15					
Time	0730					
Weather (sky or precip, temp)	Cloudy ~40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	447	6.23	6.83			
Post Cal Reading	445	Fail	Fail	8.50	1000, 10, 0.2	pH Cal Failure
Descrepancy	none					
Calib. Successful?	yes	Fail	Fail	yes	yes	
Calibration by	MO Moon					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	2/25/15					
Time	0730					
Weather (sky or precip, temp)	Overcast ~40°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 (800, 100, 20, <0.1)	
Pre-Cal Reading	432	6.60	6.83			
Post Cal Reading	445	Fail	Fail	8.5	800, 100, 20, 0.1	pH Cal Failure
Descrepancy	none					
Calib. Successful?	yes	Fail	Fail	yes	yes	
Calibration by	MattOrth					
Instrument Type, ID	(MP20) / YSI 556				MicoTPW / (HACH2000)	
Calibration Location	OVSL					

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

Environmental Consultants
and Contractors

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Suite 107
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425 746-4600
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www.scsengineers.com

SCS ENGINEERS

May 26, 2015
File No. 04204027.18

Subject: **Second Quarter 2015 Compliance Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 5/18/15 through 5/21/15
Personell: Matt O'Hare and Sam Graber

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-23A (DUP1) and MW-13A (DUP2).
- The Solinst model 101 water level meter was used to record all water level elevations.
- In addition to the monitoring wells where groundwater was collected for chemical analysis, additional wells were monitored for groundwater level elevations. A summary of measured water levels are included with the field documentation.
- Several clearing efforts should be made at the site going forward to ensure ease of access to all monitoring wells. Several well locks need replacement on the site.
- Four wells (which three wells) were sampled for the 3-year WAC 173-351-990 Appendix III parameters.
- The samples were sent to TestAmerica Denver for analysis at the close of each sampling day, except samples for low level arsenic which were held until the end of the sampling event and provided to Analytical Resources, Inc. in Tukwila, Washington.

Sample Date	Location ID	Sample ID	Comments
5/18/2015	MW-23A	0515-01	
5/18/2015	MW-23A	0515-02	DUP1
5/18/2015	MW-19C	0515-03	
5/19/2015	MW-35	0515-04	
5/19/2015	MW-13A	0515-05	
5/19/2015	MW-13A	0515-06	DUP2
5/19/2015	MW-39	0515-07	
5/19/2015	MW-13B	0515-08	
5/19/2015	MW-34C	0515-09	
5/19/2015	MW-34A	0515-10	
5/19/2015	MW-24	0515-11	
5/19/2015	MW-2B1	0515-12	
5/20/2015	MW-32	0515-13	

Sample Date	Location ID	Sample ID	Comments
5/20/2015	MW-16	0515-14	
5/20/2015	MW-43	0515-15	
5/20/2015	MW-15R	0515-16	
5/20/2015	MW-29A	0515-17	
5/20/2015	MW-33C	0515-18	
5/20/2015	MW-33A	0515-19	
5/21/2015	MW-36A	0515-20	
5/21/2015	MW-42	0515-21	
5/21/2015	MW-4	0515-22	
5/21/2015	MW-20	0515-23	
5/22/2015	LP-LCD	0515-24	

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-23A (15:15 CORRECTED)

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
05 18 15	0940	0005			

Note: For Passive Sampling, replace "Water Vol in Casing/Calc. 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: D — 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) 12.32 (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)
15:18	100	1st 5.83	1st 166	13.1	3.1	0.22	100	12.35
15:23		2nd 5.88	2nd 168	13.1	2.4	0.20	94	12.35
15:28		3rd 5.95	3rd 170	13.1	2.7	0.20	86	12.35
15:33		4th 5.95	4th 171	13.0	2.2	0.21	83	12.35
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
05 18 15	5.95	171	13.0	2.2	0.21	83	1533

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: Clear — Odor: None — Color: None — 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):

DUP-1 taken here @ 1540

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
5.18.15	Matt O'Hara		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-19C (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
05 18 15	0005				

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: D

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): 34.01 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1512	1st	1st	1st	1st				
1517	200 2nd	6.48 2nd	120 2nd	11.92 2nd		9.87	100	
1523	200 3rd	6.75 3rd	127 3rd	11.97 3rd	3.0	2.89	140	
1533	200 4th	6.82 4th	122 4th	12.39 4th	2.0	2.31	230	34.00
1536	200	6.86	121	12.63		2.01	230	
1539	200	6.86	121	12.51		1.95	-240	
1542	200	6.87	121	12.42		1.90	-230	
1545	200	6.89	122	12.23		1.83	-210	34.00
1547	200	6.93	122	12.22	4.0	1.63	-180	
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
05 18 15	6.93	122	12.22	4.0	1.63	-18	1547

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: Clear Odor: No Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph Outlook: Sunny 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
5.18.15	Sam Graber		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-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:

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
05 19 15	0855	00:05			

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: 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: D (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): 72.18 (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)
08:55	300 1st	6.22 1st	135 1st	10.4	2.09	8.80	260	72.20
09:00	↓ 2nd	6.48 2nd	135 2nd	10.3	1.03	8.48	250	72.20
09:03	↓ 3rd	6.65 3rd	135 3rd	10.3	0.67	8.53	244	72.20
09:06	4th	6.68 4th	135 4th	10.4	0.81	8.47	243	72.20
09:10		6.72	135	10.3	0.18	8.42	238	72.20
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
05 19 15	6.72	135	10.3	0.18	8.42	238.0	910

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: Clear Odor: None Color: None 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):

High bubble content in discharge stream → High DO

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
5.19.15	Matt Olmer		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-13A (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
05/19/15	0605				

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: D (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): 46.80 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:05		1st	1st					
9:15	100	2nd 6.80	2nd 164	10.23	1.0	10.50	257	46.80
9:20		3rd 6.95	3rd 164	10.01		10.26	250	
9:23		4th 6.99	4th 165	9.96		10.13	247	46.80
9:26		7.01	164	9.92	1.0	10.22	246	
9:29		7.02	163	9.91		10.24	242	
9:32		7.02	164	9.91		10.27	242	
9:35		7.03	164	9.89	1.0	10.26	241	

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
05/19/15	7.03	164	9.89	1.0	10.26	241	935

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: Clear Odor: No Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 5 mph to E Outlook: overcast Precipitation: Y or (N)

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

FIELD COMMENTS

Dup 2 taken here @ 940

D.O. probe failure. Reject D.O. data.

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
5.19.15	Sam Graber	Sam Graber	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: 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 (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 19 15	0943	0005	100		

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: D

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): 20.75 (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)
0948	300	1st 5.77	1st 221	10.7	0.22	1.68	84	21.43
0953	↓	2nd 5.80	2nd 221	10.7	0.36	1.65	76	21.60
0958	↓	3rd 5.82	3rd 223	10.7	0.16	1.51	72	21.68
1003	↓	4th 5.82	4th 224	10.8	0.27	1.49	69	21.68
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
05 19 15	5.82	224	10.8	0.27	1.49	69	1003

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: Clear Odor: None Color: None 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
5.19.15	Matt Ollom	[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: 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 relinquished 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
05 19 15	1005				

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: D (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): 59.94 (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 (mL/Min)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1028		1st	1st					59.94
1033	250	2nd 6.66	2nd 164	10.30	0.0	9.63	235.0	
1038		3rd 7.43	3rd 166	10.19	1.0	9.58	220.0	60.15
1041		4th 7.57	4th 166	10.16		9.51	216.0	60.10
1044		7.60	165	10.21		9.41	215.0	
1047		7.62	165	10.20		9.47	213.0	
1050		7.64	165	10.21	0.0	9.43	212.0	
1053	↓	7.65	165	10.23	0.0	9.29	211.0	
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
05 19 15	7.65	165	10.23	0	9.29	211.0	1053

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: Clear Odor: No Color: Clear Other:

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

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

FIELD COMMENTS

* D.O. probe failure, reject D.O. data.

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
5.19.15	Sam Graber	Sam Graber	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-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 (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 19 15	10:35	00:50			

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

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: D

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): 41.55 (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)
11:05	300 1st	6.24 1st	212 1st	13.0	445	4.90	91	41.56
11:10	1 2nd	6.31 2nd	212 2nd	13.0	479	1.21	88	41.56
11:15	↓ 3rd	6.32 3rd	212 3rd	13.0	438	0.95	87	41.56
11:20	4th	6.32 4th	212 4th	13.0	398	0.84	85	41.56
11:25		6.33	212	13.1	434	0.89	83	41.56
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
05 19 15	6.33	212	13.1	434	0.89	83	41.56

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):

Extended Purge due to high turbidity

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
5.19.15	[illegible]	[illegible]	SCS Engineers

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

FIELD INFORMATION FORM

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-34A (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
05 19 15	1303	0005			

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: D

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): 39.72 (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)
1308	300 1st	5.43 1st	110 1st	12.7	1.15	7.44	152	39.72
1313	↓ 2nd	5.49 2nd	110 2nd	12.6	0.96	7.29	153	39.72
1318	3rd	5.45 3rd	110 3rd	12.7	0.83	7.23	161	39.72
1323	4th	5.47 4th	110 4th	12.6	0.83	7.14	165	39.72
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
05 19 15	5.47	110	12.6	0.83	7.14	165	3972

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: Clear Odor: None Color: None 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
5.19.15	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: MW24 (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
05 19 15	0010				

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

X-Other:

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)
	32.16	

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 State/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit mL/Min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1325		1st	1st					32.16
1335	150	2nd 6.36	2nd 126	14.33	11.0	1.76	190.0	32.14
1340		3rd 6.36	3rd 126	14.33		1.65	186.0	
1343		4th 6.36	4th 126	14.43	8.0	1.54	182.0	
1346		6.36	126	14.61		1.46	174.0	
1349		6.35	126	14.47	5.0	1.46	171.0	
1352		6.36	127	14.51	4.0	1.44	170.0	
1355		6.36	127	14.56	4.0	1.42	168.0	32.14
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
05 19 15	6.36	127	14.56	4.0	1.42	168.0	1355

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: Clear Odor: No Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph W. Outlook: Sunny Precipitation: Y or (N)

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

Possible Bladder failure - pull pump?

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
5.19.15	Sam Graves		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-28I (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
05 19 15	14:08	0005			

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: D

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): 69.5 (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)
14:03	1st	5.89	200	13.9	1.76	2.32	188	7.10
14:18	2nd	5.96	202	13.8	1.49	1.32	180	7.12
14:23	3rd	6.00	201	13.8	0.86	1.00	175	7.15
14:28	4th	6.00	201	13.9	0.75	0.95	174	7.15
14:28		6.02	200	13.8	0.55	0.87	172	7.15
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
05 19 15	6.02	200	13.8	0.55	0.87	172	1428

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: Clear Odor: None Color: None 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):

Bye take care

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
5.19.15	[illegible]	[illegible]	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-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 relinquished 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
05 20 15	0854	0005			

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: D — 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) 173 (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)
1st 0859	250	1st 5.91	1st 264	11.8	1.11	2.14	113	1.75
2nd 0904	〃	2nd 6.19	2nd 262	11.8	0.95	1.06	96	1.75
3rd 0909	〃	3rd 6.28	3rd 261	11.8	0.82	0.67	86	1.75
4th 0914	〃	4th 6.37	4th 261	11.8	1.40	0.68	80	1.75
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
05 20 15	6.37	261	11.8	1.40	0.68	80	0914

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: Clear Odor: None Color: None 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
5/20/15	Matt Dillon		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-16 (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
05 20 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 — 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: D (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): 57.51 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
8:59								
9:03	300	6.41	108	9.47	1.0	8.18	295.0	
9:06		6.47	103	9.38		15.49	294.0	57.60
9:09		6.49	103	9.37		15.15	296.0	
9:12		6.49	101	9.36	2.0	15.27	297.0	
9:15		6.49	101	9.34		15.17	298.0	
9:18		6.51	101	9.28		15.06	297.0	
9:23		6.51	101	9.30	2.0	14.93	296.0	
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
05 20 15	6.51	101	9.30	2.0	14.93	296.0	923

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: clear w/ trace particulates Odor: No Color: clear Other:

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

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

D.O. probe failure Repeat D.O. data

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
5/20/15	Sam Gratton		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: MW43 (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 relocated 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
05 20 15	0018				

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: D (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): 25.28 (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 mL/min	pH (std)	Conductance (SC/EC) (umhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1010		1st	1st					
1018	300	6.02 2nd	42 2nd	9.80	3.0	3.50	150.0	
1023	1	5.97 3rd	42 3rd	9.71		3.35	146.0	25.31
1026		5.98 4th	42 4th	9.69		3.19	145.0	
1029		5.97	42	9.70	3.0	3.13	143.0	25.30
1032		5.98	42	9.72		3.18	142.0	
1035		5.97	42	9.71		3.24	146.0	
1038	↓	5.97	42	9.71	5.0	3.18	141.0	
:								
:								
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
05 20 15	5.97	42	9.71	5.0	3.18	141.0	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: 60°F Outlook: overcast Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Performed extended purge to clear orange bacteria through purge.

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
5/20/15	Sam Graber		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-15R (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
05/20/15	1043	0005			

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: D

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) 11.80 (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)
1048	250	1st 6.30	1st 175	10.5	083	1.34	98	1.80
1053	1	2nd 6.29	2nd 175	10.5	0.91	0.92	97	1.80
1058		3rd 6.31	3rd 172	10.5	1.52	0.78	96	1.80
1103		4th 6.31	4th 172	10.5	1.33	0.74	96	1.80
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
05/20/15	6.31	172	10.5	1.33	0.74	96	1103

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: Clear Odor: None Color: None 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
5/20/15	Matt O'Hare		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-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
05 20 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: 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: D (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): 13.96 (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 (mL/min)		pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:10		1st							
11:20	300	2nd	6.34	88	10.08	3.0	3.24	62.0	14.21
11:25		3rd	6.32	88	9.72		1.71	51.0	14.25
11:28		4th	6.33	88	9.68		1.54	48.0	
11:31			6.33	88	9.69		1.22	45.0	
11:34			6.34	87	9.69	4.0	1.12	43.0	
11:37			6.34	87	9.87		0.94	42.0	
11:40	↓		6.34	87	9.89	3.0	0.89	41.0	14.21
:									
:									
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
05 20 15	6.34	87	9.87	3.0	0.89	41.0	1146

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: Clear Odor: No Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: overcast 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
5/20/15	Sam Graber		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-33C (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
05 20 15	1335	0005			

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-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)
	752	

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)
1340	300	5.92 (1st)	153 (1st)	9.8	2.71	1.23	140	2.71
1345		6.41 (2nd)	153 (2nd)	9.8	1.99	0.76	137	2.55
1350		6.90 (3rd)	152 (3rd)	9.8	2.10	0.58	126	2.55
1355		7.20 (4th)	152 (4th)	9.7	1.99	0.50	115	2.55
1400		7.28	152	9.6	1.74	0.46	110	2.55
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
05 20 15	7.28	152	9.6	1.74	0.46	110	1400

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: Clear Odor: None Color: None 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
5.20.15	[illegible]	[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-33A (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 relinquished 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
05/20/15					

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: 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: D (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)
	55.6	

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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:35		1st	1st					
13:43	300	2nd 7.11	2nd 123	10.27	66.0	3.23	13.0	9.28
13:48		3rd 7.15	3rd 124	9.94		2.40	9.0	
13:53		4th 7.17	4th 125	9.82	19.0	2.37	9.0	8.30
13:58		7.17	124	9.86	12.0	2.41	10.0	7.90
14:03		7.17	124	9.82	10.0	2.37	12.0	
14:08		7.18	124	9.93	10.0	2.31	13.0	7.81
14:11		7.18	124	9.85	9.0	2.28	14.0	7.75
14:14		7.18	124	9.91	6.0	2.20	15.0	
14:17		7.18	124	9.82	6.0	2.15	15.0	7.71
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
05/20/15	7.18	124	9.82	6.0	2.15	15.0	1417

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: Clear Odor: No Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Overcast 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
5/20/15	Sam Graber		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-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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 21 15	09:15	01:05			

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: 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: D

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) 31.22 (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)
0920	500	1st 5.45	1st 142	9.6	3.05	2.25	269	31.55
0925	1	2nd 5.50	2nd 141	9.6	2.61	1.90	261	31.55
0930	1	3rd 5.58	3rd 141	9.6	2.48	1.88	255	31.55
0935	V	4th 5.61	4th 140	9.6	1.90	1.86	252	31.55
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
05 21 15	5.61	140	9.6	1.90	1.86	252	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: Clear Odor: None Color: None 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
5.21.15	Matt DeHaven		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-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:

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
05 21 15	0605				

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: D (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): 28.13 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st 9:15								
2nd 9:20	300	6.53	5.41	12.75	8.0	5.48	-84.0	
3rd 9:25		6.55	5.41	12.41		3.36	-103	28.07
4th 9:28		6.55	5.44	12.47		3.00	-106	
9:31		6.56	5.41	12.52		2.52	-108	
9:34		6.56	5.41	12.56	4.0	2.25	-108	
9:37		6.56	5.42	12.51		2.06	-108	28.15
9:40		6.58	5.41	12.58	2.0	1.87	-109	
:								
:								
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
05 21 15	6.58	5.41	12.58	2.0	1.87	-109	940

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: clear Odor: No Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: partly cloudy 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
5/21/15	Sam Grabar		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-4 (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
05 21 15	1006	0905			

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: D

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): 17.25 (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	300 1st	6.02 1st	138 1st	9.7	1.17	0.49	278	17.30
10:16	2nd	6.04 2nd	137 2nd	9.7	1.16	0.35	268	17.30
10:21	3rd	6.05 3rd	136 3rd	9.7	2.93	0.40	261	17.30
10:26	↓	6.05 4th	136 4th	9.7	1.69	0.43	253	17.30
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
05 21 15	6.05	136	9.7	1.69	0.43	253	1730

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: Clear — Odor: None — Color: None — 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
5.21.15	Matt Orme		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 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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 21 15	1003				

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: D — 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): 36.1 (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 ML/Min	pH (std)	Conductance (SC/EC) (umhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:30				[illegible]				
10:35	300	6.63	365	15.53		35.27	55.0	
10:40	"	6.65	362	15.47	2.0	34.29	60.0	
10:43	"	6.65	361	13.43		34.03	66.0	36.35
10:46		6.65	361	15.47			79.0	
10:49		6.65	361	15.53			88.0	36.35
10:52		6.65	362	15.58			93.0	
10:55	↓	6.65	362	15.69	1.0		96.0	
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
05 21 15	6.65	362	15.69	1.0		96.0	1055

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: Clear Odor: [illegible] No Color: No Other: [illegible]

Weather Conditions (required daily, or as conditions change): Direction/Speed: ——— Outlook: Sunny 70°F Precipitation: Y or (N)

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

D.O. probe failure Reject D.O. data

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
5/21/15	Sam Graber	[signature]	SCS Engineers

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

TAL-8029WM (0108)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	5/18/15					
Time	2:40					
Weather (sky or precip, temp)	Sunny ~75°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~~8.5~~ 19.0	1000, 10, 0.2 ~~800~~, 100, 20, <0.1	
Pre-Cal Reading	463	4.12	7.09			
Post Cal Reading	445	4.01	7.00	~~[illegible]~~ 10.11	1000, 10, 0.2	
Descrepancy	none					
Calib. Successful?	yes					
Calibration by	MA					
Instrument Type, ID	MP20 / YSI 556				MicroTPW / HACH2000	
Calibration Location	OVSL					

* 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	5/18/15					
Time	@ 1445					
Weather (sky or precip, temp)	Sunny 80°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	443	4.06	6.83	8.69		
Post Cal Reading	445	4.01	7.00	8.5		
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	Sam Graber					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
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	5/19/15					
Time	730					
Weather (sky or precip, temp)	overcast 60°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	10 100% or ~~8.5~~	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	470	4.21	7.18	10.08	795, 115, 25, 1	
Post Cal Reading	445	4.01	7.18			
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam B.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
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	5/19/15					
Time	0745					
Weather (sky or precip, temp)	Overcast ~55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	10 100% or ~~8.5~~	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	377	3.90	7.11	10.43		
Post Cal Reading	445	4.07	7.00		1016, 10.10, 0.0	
Descrepancy	none					
Calib. Successful?	yes					
Calibration by	MD					
Instrument Type, ID		MP20 / YSI 556			MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	5/20/15					
Time	800					
Weather (sky or precip, temp)	overcast 55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	~~1000, 10, 0.2~~ 800, 100, 20, <0.1	
Pre-Cal Reading	445	4.08	6.91			
Post Cal Reading	445	4.01	7.00		808, 113, 24, 1	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam Graber					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / ~~HACH2000~~	
Calibration Location	OVSL					

* 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	5/20/15					
Time	0815					
Weather (sky or precip, temp)	light rain ~50°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	397	4.13	7.04			
Post Cal Reading	445	4.01	7.00			
Descrepancy	none					
Calib. Successful?	yes					
Calibration by	MD					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVSL					

* 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	5/21/15					
Time	0900					
Weather (sky or precip, temp)	Foggy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	431	4.10	7.02			
Post Cal Reading	445	4.01	7.00			
Descrepancy	None					
Calib. Successful?	Yes					
Calibration by	MO					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVS					

* 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	5/21/15					
Time	900					
Weather (sky or precip, temp)	overcast 55°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	~~1000, 10, 0.2~~ 800, 100, 20, <0.1	
Pre-Cal Reading	411	4.04	7.03		813, 113, 24, 1	
Post Cal Reading	445	4.01	7.00			
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OVSL					

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

Environmental Consultants
and Contractors

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SCS ENGINEERS

August 31, 2015
File No. 04204027.18

Subject: **Third Quarter 2015 Compliance Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 8/24/15 through 8/27/15
Personel: Sam Graber and Brad Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-42 (DUP1) and MW-13A (DUP2).
- The Solinst model 101 water level meter and a Geotech water level meter were used to record all water level elevations.
- In addition to the monitoring wells where groundwater was collected for chemical analysis, additional wells were monitored for groundwater level elevations. A summary of measured water levels are included with the field documentation.
- Vegetation that was blocking access to certain well locations was cleared in early August of 2015.
- Several well locks need replacement on the site.
- The samples were sent to TestAmerica Denver for analysis at the close of each sampling day, except samples for low level arsenic which were held until the end of the sampling event and provided to Analytical Resources, Inc. in Tukwila, Washington.

Sample Date	Location ID	Sample ID	Comments
8/24/2015	MW-34C	0815-01	
8/24/2015	MW-34A	0815-02	
8/24/2015	MW-43	0815-03	
8/24/2015	MW-42	0815-04	
8/24/2015	MW-42	0815-05	DUP 1
8/25/2015	MW-23A	0815-06	
8/25/2015	MW-19C	0815-07	
8/26/2015	MW-15R	0815-08	
8/26/2015	MW-13A	0815-09	
8/26/2015	MW-13A	0815-10	DUP 2
8/26/2015	MW-36A	0815-11	
8/26/2015	MW-16	0815-12	
8/26/2015	MW-13B	0815-13	
8/26/2015	MW-39	0815-14	

Sample Date	Location ID	Sample ID	Comments
8/26/2015	MW-35	0815-15	
8/26/2015	MW-20	0815-16	
8/26/2015	MW-24	0815-17	
8/26/2015	MW-2B1	0815-18	
8/27/2015	MW-33C	0815-19	
8/27/2015	MW-4	0815-20	
8/27/2015	MW-32	0815-21	
8/26/2015	LP-LCD	0815-22	
9/3/2015	LR-1	0815-23	
9/3/2015	LR-3	0815-24	
9/3/2015	LR-4	0815-25	

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-340 (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
08/24/15	1215	0030			

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

Sampling Device: C

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: D — 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): 42.82 (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)
1225	300	1st 6.21	1st 0.236	13.59	213.7	2.61	140.9	42.85
1230		2nd 6.29	2nd 0.228	13.64	262.8	1.70	82.3	42.83
1235		3rd 6.46	3rd 0.227	13.65	157.5	1.51	48.1	42.82
1240		4th 6.53	4th 0.228	13.62	141.6	1.80	37.6	42.82
1245	↓	6.54	0.228	13.60	103.4	1.99	33.7	42.83
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: ~~Odor~~ Units ~~time~~
08/24/15	6.54	0.228	13.60	103.4	1.99	33.7	1245

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: cloudy — Odor: None — Color: ~~Straw~~ 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

longer purge for high turbidity.
* New padlock needed

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
8/24/15	Bradley Beach		SCS-FS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL

Site No.:

Sample Point: MW24 (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
08/26/15	1230	:10			

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

Sample Tube Type: D — 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): 34.12 (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)
12:40	200	1st	6.15	1st	1125		21.96		2.38	170	
12:45		2nd	6.12	2nd	1126		21.42		2.07	170	
12:48		3rd	6.10	3rd	1126		20.97		1.46	169	
12:51		4th	6.08	4th	1128		20.14		1.01	169	34.12
12:54			6.11		1132		20.49		0.89	167	
12:57			6.17		1133		15.40		0.53	165	
13:00			6.17		1134		14.19		0.39	160	
13:03			6.20		1134		13.72	12.84	0.28	141	
13:10			6.23		1135		13.28	6.79	0.19	108	
13:13			6.24		1135		13.05	4.92	0.19	105	34.12
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: time Units
08/26/15	6.24	1135	13.05	4.92	0.19	105	1313

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: clear w/ some black suspended solids Odor: — Color: clear Other: —

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

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

FIELD COMMENTS

Very slow flow rate at first & then it sped up got faster.

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
08/26/15	Sam Graber	Sam Graber	SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: ____ Sample Point: MW-34A (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
08/24/15	1305	00:25			

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: D (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): 41.13 (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)
1310	300	1st	5.99	1st	0.159	1st	12.75	1.03	3.01	159.7	41.16
1315		2nd	5.99	2nd	0.154	2nd	12.76	0.86	3.36	161.0	41.14
1320		3rd	5.98	3rd	0.149	3rd	12.66	1.01	3.95	162.2	41.13
1325		4th	5.99	4th	0.147	4th	12.64	0.37	4.30	163.1	41.12
1330			5.97		0.147		12.61	0.30	4.38	163.6	41.13
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: Time / Units
08/24/15	5.97	0.147	12.61	0.30	4.38	163.6	1330

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: clear / clear — Odor: None — Color: Clear — 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

* New padlock needed

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
8/24/15	Bradley Beach	[signature]	SGS-FS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL
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
08/24/15	1310	0015			

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: D (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): 27.00 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1325	300	1st 5.71	1st 46	13.2		2.38	169.0	
1330		2nd 5.71	2nd 46	13.0		1.42	171	
1333		3rd 5.70	3rd 46	12.6	9.81	1.90	174	
1336		4th 5.73	4th 46	12.7		1.94	170	
1339		5.73	46	12.8		1.85	172	
1342		5.70	46	12.7	7.77	1.74	174	
1345		5.71	46	12.4	6.35	1.70	177	
1348	✓	5.73	46	12.6	8.48	1.65	174	27.00
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: time / Units military
08/24/15	5.73	46	12.6	8.48	1.65	174	1348

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: Clear — Odor: — — Color: Clear — Other:

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

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

FIELD COMMENTS

Performed extended purge for turbidity & orange bacteria.

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
8/24/15	Sam Gratzer		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ASL

Site No.:

Sample Point: MW42 (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
08/24/18	1145	: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: 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: D (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): 29.61 (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 ml/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1450	300	1st 6.49	1st 485	13.99	3.37	0.39	-93	
1455	1	2nd 6.50	2nd 488	13.80		0.29	-103	29.67
1458		3rd 6.50	3rd 491	14.00		0.24	-107	
1501		4th 6.50	4th 494	13.89		0.21	-110	
1504		6.50	496	13.87		0.21	-113	29.68
1507		6.50	495	13.95		0.19	-116	
1510	↓	6.50	496	13.87	3.80	0.18	-117	29.68
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: time Units
08/24/18	6.50	496	13.87	3.80	0.18	-117	1510

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: Clear Odor: — Color: Clear Other: —

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

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

FIELD COMMENTS

Dup 1 taken at 1520

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
8/24/18	Sam Gruber		
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OU2

Site No.:

Sample Point: MW23A (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
08 25 15	1340	: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: 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: D (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): 13.98 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1345	400	5.85 1st	211 1st	15.43	25.21	1.40	55	
1350		6.14 2nd	195 2nd	15.32	24.22	0.85	31	
1353		6.15 3rd	194 3rd	15.37	11.05	0.75	28	13.90
1356		6.15 4th	194 4th	15.81	10.29	0.68	29	
1359		6.16	194	15.81	12.61	0.53	27	
1402		6.16	193	15.68	13.56	0.65	31	
1405		6.16	193	15.75	12.60	0.58	28	
1410		6.15	195	16.01	15.03	0.55	29	
1415	V	6.15	195	16.19	9.56	0.54	29	13.90
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: time / Units
08 25 15	6.15	195	16.19	9.56	0.54	29	1415

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: Clear — Odor: — — Color: Clear — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph N — Outlook: Sunny — 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
8/23/15	Sam Grabar		SCS
/ /			

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ASL

Site No.:

Sample Point: MW19C (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
08/25/15	1453	0:05			

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: 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: D (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): 35.65 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1458	300	1st 6.24	1st 151	13.39	3.41	1.78	MAR	
1503	2nd	6.48	2nd 153	13.02		0.86	11	
1506	3rd	6.55	3rd 154	12.84	6.88	0.69	-4	
1509	4th	6.61	4th 153	13.05	5.83	0.52	-12	
1512		6.63	153	12.93	5.15	0.45	-17	
1515		6.64	153	13.06		0.42	-19	
1518	↓	6.65	154	13.06	2.70	0.41	-21	35.69
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: time Units
08/25/15	6.65	154	13.06	2.70	0.41	-21	1518

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: Clear Odor: — Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 10 mph N Outlook: Sunny Precipitation: Y or (N)

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

FIELD COMMENTS

Pressure = 45 psi

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
8/25/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-15R (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
08 26 15	08:40	00:20			

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: D (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): 19.69 (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)
08:45	300	1st 6.30	1st 0.133	10.42	3.60	1.29	266.4	19.71
08:50	↓	2nd 6.43	2nd 0.136	10.40	3.19	0.68	270.6	19.70
08:55		3rd 6.48	3rd 0.135	10.40	3.04	0.63	270.1	19.70
09:00		4th 6.54	4th 0.134	10.40	2.51	0.67	268.7	19.71
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: time / Units 900
08 26 15	6.54	0.134	10.40	2.51	0.67	268.7	19.71

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: Clear / Clear Odor: None Color: Clear Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: Clear 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
8/26/15	Bradley Beach		SCSFS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: USL

Site No.:

Sample Point: MW13A (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
08/26/15	9:00	: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: 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: D (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): 58.40 (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)
9:05	300	1st	6.64	1st	166	1st	11.12		6.40	213	
9:10		2nd	6.91	2nd	167	2nd	10.81		6.45	204	
9:13		3rd	7.00	3rd	167	3rd	10.73		6.47	200	58.72
9:16		4th	7.05	4th	167	4th	10.72		6.45	197	
9:19			7.06		167		10.69		6.43	196	
9:22			7.07		165		10.68		6.47	195	
9:25			7.07		166		10.69	2.48	6.46	194	58.75
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: Time Units
08/26/15	7.07	166	10.69	2.48	6.46	194	925

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: Clear Odor: No Color: Clear Other: —

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

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

FIELD COMMENTS

Dup 2 collected @ 9:35

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
8/26/15	Sam Graber		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/26/14	0925	0020			

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: D — 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): 3231 (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)
0930	300	1st	5.95	0.110	9.62	1.60	1.93	259.4	32.35
0935	↓	2nd	6.06	0.108	9.58	1.20	1.36	271.7	32.33
0940	↓	3rd	6.13	0.109	9.56	1.12	1.34	272.3	32.33
0945	↓	4th	6.17	0.109	9.56	1.09	1.35	271.6	32.32
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: Time / Units
08/26/15	6.17	0.109	9.56	1.09	1.35	271.6	945 / [illegible]

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: Clear/clear — Odor: None — Color: Clear — 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
8/26/15	Bradley Beach	[signature]	SLSFS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-16 (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
08/26/15	1000	0025			

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: D (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): 60.16 (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)
1005	300	1st 6.35	1st 0.103	9.59	3.01	5.89	328.4	60.20
1010		2nd 6.29	2nd 0.101	9.52	2.38	6.06	333.5	60.18
1015		3rd 6.29	3rd 0.098	9.51	2.29	6.18	335.2	60.18
1020		4th 6.33	4th 0.098	9.49	1.97	6.31	335.7	60.16
1025	↓	6.35	0.097	9.48	1.50	6.32	336.1	60.18
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: time / Units ft07.5
08/26/15	6.35	0.097	9.48	1.50	6.32	336.1	60.18

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: Clear / Clear — Odor: None — Color: Clear — 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
8/26/15	Bradley Beach		SCSFS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ASL

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:

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
08 26 15	1015	1:05			

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: 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: D (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): 61.38 (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)
1020	300	6.84 (1st)	165 (1st)	10.80		6.77	184	
1025		7.15 (2nd)	165 (2nd)	10.70		6.94	178	
1028		7.42 (3rd)	164 (3rd)	10.66		6.99	174	
1031		7.51 (4th)	165 (4th)	10.67		6.99	173	61.55
1034		7.55	165	10.69		7.01	173	
1037		7.57	165	10.61		6.98	173	
1040		7.59	164	10.53	2.15	6.99	173	61.55
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: Turbidity Units
08 26 15	7.59	164	10.53	2.15	6.99	173	1040

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: Clear — Odor: No — Color: Clear — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: slightly overcast — 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
8/26/15	Sam Corcoran		SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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
08 26 15	1050	0025			

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: D (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): 2293 (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)
1055	300	1st	6.29	0.211	11.40	29.54	0.47	-27	22.97
1100	↓	2nd	6.27	0.214	11.53	27.21	0.25	-41.2	22.95
1105		3rd	6.27	0.216	11.52	26.45	0.21	-58.3	22.96
1110		4th	6.28	0.216	11.53	26.45	0.19	-68.9	22.96
1115	↓		6.29	0.216	11.55	26.22	0.18	-77.1	22.95
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: Time / Units HHMM
08 26 15	6.29	0.216	11.55	26.22	0.18	-77.1	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: cloudy / particulates Odor: slight Color: cloudy 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
8/26/15	Bradley Beach		SCSFS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OWSL

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
08 26 15	1120	: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: 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: D (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): 72.92 (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)
1125	300	1st	5.96	1st	154	1st	13.19		7.17	207	
1130		2nd	6.54	2nd	153	2nd	12.97		6.80	187	72.95
1133		3rd	6.82	3rd	154	3rd	12.96		6.74	171	
1136		4th	7.08	4th	153	4th	12.80		6.70	164	
1139			7.17		154		12.92		6.71	158	
1142			7.22		154		13.07		6.64	156	
1145			7.25		153		13.09	4.62	6.62	154	72.95
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: time Units
08 26 15	7.25	153	13.09	4.62	6.62	154	1145

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: Clear — Odor: Clear — Color: — — Other: Clear

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

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

Pressure = 45 psi

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
8/26/15	Sam Greiber	Sam Greiber	SCS
__/__/__			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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 (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 26 15	1155	00:20			

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

Sampling Device: C

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: D — 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): 37.63 (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)
1200	300	1st	6.57	1st	0.378	1st	15.58	4.47	1.11	100.8	37.65
1205	↓	2nd	6.56	2nd	0.376	2nd	15.57	2.08	0.88	100.3	37.63
1210		3rd	6.55	3rd	0.370	3rd	15.58	1.51	0.70	97.4	37.63
1215	↓	4th	6.56	4th	0.364	4th	15.53	1.26	0.59	94.9	37.64
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: Time Units 1215
08 26 15	6.56	0.364	15.53	1.26	0.59	94.9	[illegible]

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: Clear/particulates Odor: None Color: clear 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
8/26/15	Bradley Beach	[signature]	SLSFS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OSL

Site No.:

Sample Point: MW-2B-1 (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
08/26/15	1403	: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: 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: D (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): 8.20 (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 Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit ml/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
14:08	300	1st 6.21	1st 226	16.45		0.76	90	
14:13		2nd 6.24	2nd 219	16.31	3.69	0.39	86	
14:16		3rd 6.24	3rd 211	16.25		0.30	84	
14:19		4th 6.23	4th 206	16.04		0.26	80	8.30
14:22		6.23	205	16.02		0.25	79	
14:25		6.23	201	16.05		0.23	76	
14:28		6.22	199	16.01	2.17	0.20	72	8.30
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 ____
08/26/15	6.22	199	16.01	2.17	0.20	72	1428

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: Clear — 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
8/26/15	Sam Graber	Sam Graber	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

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
08/27/15	8:40	: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: 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: D (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): 38.0 (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 mL/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
8:45	300 1st	6.16 1st	1154 1st	10.11	19.40	0.50	-46	38.90
8:50	2nd	6.68 2nd	1154 2nd	10.06		0.27	-89	
8:53	3rd	7.06 3rd	1154 3rd	9.99	11.01	0.21	-127	
8:56	4th	7.34 4th	1153 4th	10.06	6.87	0.19	-140	
8:59		7.43	1154	10.06		0.17	-146	
9:02		7.53	1154	10.03		0.18	-151	
9:05	↓	7.59	1154	10.05	4.38	0.18	-153	38.80
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: time Units
08/27/15	7.58	1154	10.05	4.38	0.18	-153	905

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: clear Odor: — Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: partly cloud, 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
8/27/15	Sam Corator	Dan [illegible]	SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ASL

Site No.:

Sample Point: MW 4 (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
08 27 15	1100	:10			

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

Sampling Device: C

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: D — 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): 17.40 (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 ml/min	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1110	250	1st 6.37	1st 134	10.33	3.28	0.46	137	17.40
1115		2nd 6.43	2nd 135	10.32		0.32	128	17.50
1118		3rd 6.44	3rd 135	10.33		0.28	123	
1121		4th 6.44	4th 134	10.39		0.26	120	
1124		6.44	134	10.45	3.50	0.24	115	17.50
1127		6.43	134	10.44		0.23	113	
1130	↓	6.43	134	10.40	2.18	0.20	111	17.50
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: time Units
08 27 15	6.43	134	10.40	2.18	0.20	111	1130

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: clear — Odor: — Color: clear — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: Sunny — 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
8/27/15	Sam Corcoran		SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: aksl

Site No.:

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
08 27 15	1220	: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: 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: 4 — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — 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): 27.79 (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)
1225	300	1st 6.41	1st 360	13.13	1.22	1.39	11	2.82
1230		2nd 6.59	2nd 381	13.61		0.38	-23	
1233		3rd 6.60	3rd 382	13.58		0.30	-33	
1236		4th 6.61	3rd 380	13.58	4.21	0.26	-37	2.82
1239		6.61	383	13.57		0.24	-40	
1242		6.62	382	13.55		0.22	-42	
1245		6.62	382	13.54	3.49	0.21	-44	2.82
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: Time / Units
08 27 15	6.62	382	13.54	3.49	0.22	-42	1245

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: Clear — Odor: — — Color: Clear — Other: —

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

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

Pressure = 15 psi

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
8/27/15	Sam Gardner	Sam G	SCS

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	8/24/15					
Time	1140					
Weather (sky or precip, temp)	partly cloudy 75°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	447 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	453	3.94	6.93	7.59		
Post Cal Reading	447	4.01	7.00	8.50	860.3, 9.22, 0.12	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OKSL					

* 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	8/24/15					
Time	1140					
Weather (sky or precip, temp)	Cloudy 75°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	443 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	474	4.40	6.80	7.14	X	
Post Cal Reading	447	4.01	7.00	8.50	X	
Descrepancy	No					
Calib. Successful?	Yes for MP-20.		Hach Meter malfunctions.			
Calibration by	Brad B					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OSL					

* 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	8/25/15					
Time	740					
Weather (sky or precip, temp)	Sunny 65°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	445	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	440	3.86	7.12	11.69		
Post Cal Reading	447	4.01	7.00	8.5	—	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	OUSL					

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

malfunctioning

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	3/25/15					
Time	740					
Weather (sky or precip, temp)	Partly cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	447 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	450	4.21	6.86	9.94		
Post Cal Reading	~~CMT~~ 447	4.01	7.00	8.50	710.9, 7.91, 0.0	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam G.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
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	3/26/15					
Time	740					
Weather (sky or precip, temp)	sunny 60°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	447 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	460	3.79	6.95	8.99	718.8, 7.08, 0.27	
Post Cal Reading	447	4.01	7.00	8.5		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	Sam Graber					
Instrument Type, ID	(MP20) / YSI 556				(MicoTPW) / HACH2000	
Calibration Location	OKSL					

* 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	8/26/15					
Time	740					
Weather (sky or precip, temp)	Sunny 60°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	~~445~~ 447	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	437	4.01	6.97	8.21		
Post Cal Reading	447	4.01	7.00	8.5		
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam Gorbear					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	Hach Meter malfunction
Calibration Location	OVSI					

* 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	8/27/15					
Time	800					
Weather (sky or precip, temp)	partly cloudy 65°F					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	447 ~~445~~	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	445	4.20	7.04		799.6, 20.2, 0.0	
Post Cal Reading	447	4.01	7.00		[illegible]	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	Sam Gratzer					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	GVSL					

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

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-1	—	—	—	—	Not Measured, Hazard/No Access	
MW-10	8/25	1012	5.91			NM
MW-11					Conduit Full	4.25
MW-12		1210	50.70			NM
MW-13		1202	33.80			28.94
MW-13A		↓	58.40			46.34
MW-13B		↓	61.40			60.30
MW-14	—	—	—	—	Not Measured, Damaged Well	
MW-15R		1036	19.73			18.72
MW-16		1155	61.00			57.65
MW-17		1215	45.00			NM
MW-18		1207	66.30			NM
MW-19A		1230	34.45			32.58
MW-19B		↓	34.50			32.62
MW-19C		↓	35.68			33.80
MW-19D		↓	34.65			32.73
MW-20		1235	37.63			35.91
MW-21	8/26	1012	7.13			5.35
MW-23A		1030	13.98			NM
MW-23B		↓	14.14			12.41
MW-23C		↓	14.38			12.92
MW-24						21.74
MW-26		1143	16.71			NM
MW-27		1140	34.19			21.74
MW-28		1145	6.60			NM
MW-29A			15.79			13.35
MW-29B		1000	19.24			17.12
MW-29C	↓	915	14.14			11.73
MW-29			12.83			

SCS ENGINEERS

Brad 8/26

	Date	Time	DTW	OVSL Measured by (initials)	Comments	Last Quarter DTW
MW-2A1	8/25	1043	9.46			9.12
MW-2B1		↓	8.24			6.72
MW-30A	8/25	953	26.99			24.00
MW-30B		953	25.86			23.88
MW-31			4.92			NM
MW-32			1.77			1.50
MW-33A			6.50			5.62
MW-33B			3.85			2.13
MW-33C			3.80			2.17
MW-34A		10:30	41.13			39.5
MW-34B		10:30	40.69			39.41
MW-34C		10:30	42.82			41.21
MW-35		12:05	72.90			72.07
MW-36		10:33	36.60			31.14
MW-36A			32.28			31.00
MW-37	8/25/15	9:55	6.34			NM
MW-38		1015	6.24			3.67
MW-39		1130	22.92			21.34
MW-4		1	17.25			14.95
MW-40A		940	21.22		hit bottom at 21.22	15.51
MW-40B		940	17.61			15.44
MW-40C		940	17.88			15.84
MW-41A			31.0		bottom out	24.18
MW-41B			27.90			24.64
MW-41C			28.43			26.16
MW-42			29.61			27.85
* MW-43		900	~~28.00~~		low Conduc.	25.16
MW-5			4.28			2.57
MW-9			12.83			NM

MW-2B1

* MW-43 low Conduc.

Backpack

APPENDIX B

FOURTH QUARTER 2015 DATA VALIDATION AND ANALYTICAL DATA REPORTS

(ANALYTICAL DATA REPORTS AVAILABLE ON CD)

DATA VALIDATION REPORT – OLYMPIC VIEW SANITARY LANDFILL FOURTH QUARTER 2015

Project Details

Project No.	04204027.18	**Site Name**	Olympic View Sanitary Landfill
Data Validator	Sam Adlington	**Data Level**	Level II
Date	12/11/2015	**DV Tier**	Tier I
QA Document	Olympic View Sanitary Landfill Sampling Analysis Plan, April 30, 2013		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
280-76598	One of six VOA bottles for samples 1115-07 and 1115-03 (MW-20 and MW-34C) broken in transit. One of four samples for the trip blank broken in transit. No impact to analyses.	TestAmerica, Denver CO
280-76667	No comments.	TestAmerica, Denver CO
280-76731	No comments.	TestAmerica, Denver CO
280-76733	Trip blank misplaced by laboratory. No trip blank analysis performed for shipment.	TestAmerica, Denver CO
280-77391	No comments.	Analytical Resources Inc.
280-77507-1	No comments.	TestAmerica, Denver CO

Analytical Summary

Sample Group	Analyses						
	Qtrly General Chemistry[1]	Qtrly Metals	Qtrly VOCs	As[2]	TSS	BOD/COD	App III Analytes[3]
280-76598	x	x	x	--	x	--	--
280-76667	x	x	x	--	x	--	--
280-76731	x	x	x	--	x	--	--
280-76733	x	--	x	--	--	x	--
280-77391	--	--	--	x	--	--	--
280-77507-1	x	x	--	--	--	x	--

[1] General Chemistry (NO_3, Cl, SO_4, NH_4, Alkalinity, TDS, TOC)

[2] Arsenic only (total and dissolved)

[3] WAC 173-351-990 App. III - VOCs, Metals, Pesticides/PCBs, OP Pesticides, Herbicides, SVOCs, Sulfide, Cyanide

[4] General Chemistry (Cl, SO, Alkalinity, TDS, TOC, NH_4) and Metals (Total)

Laboratory Quality Assurance Samples

Lab QA Samples	Notes	Comments
Surrogates	No comment.	
MB	No comment.	280-76733: Acetone was detected below the established project reporting limits.
DUP	See case narratives.	Total Alkalinity and Bicarbonate Alkalinity (280-76667) on a non OVSL sample.
LCS/LCSD	No comment.	280-76598: Acrolein recovered above laboratory control limits. Analyte is a known poor performing analyte in Method 8260C. Data is considered to be biased-high, with all samples below detection limits. 280-76667: Acrolein and Dichlorofluoromethane were recovered above

		laboratory control limits. As the data is considered biased-high, and all samples were below detection limits, no corrective action was taken. 280-76731: Bromoform, Dichlorofluoromethane, and Tert-butyl Alcohol were recovered above laboratory control limits. As the data is considered biased-high, and all samples were below detection limits, no corrective action was taken. 280-76733: The RPD for Hexashlorocyclopentadine was outside control limits with LCS and LCSD samples within QC limits. No corrective action was taken.
MS/MSD	See case narratives.	280-76598: Slightly elevated Dissolved Barium, Dissolved Manganese, Total Manganese, and Ammonia (NH_3) due to suspected interference from matrix. Because corresponding LCS samples were within control limits, no corrective action was taken. 280-76667: Recovered Total Manganese outside control limits, suspected matrix interference. No corrective action was taken. 280-76733: Insufficient sample volume to perform MS/MSD analysis for Methods 8760C, 8082, 8141A, 8151A, and 9034. LCS/LCSD analysis was performed to demonstrate laboratory precision and accuracy. Recovered Chemical Oxygen Demand (COD) was outside of control limits for a non-SCS sample. No corrective action was taken.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Trip Blank	280-76598, 280-76667, 280-76731	No detections above the method detection limit.	Trip blank misplaced by laboratory for Sample Group 280-76733.

Detailed Field Replicate Evaluation

Analyte	Units	MW-42 (1115-04)	MW-42 DUP (1115-05)	RPD	MW-2B1 (1115-12)	MW-2B1 DUP (1115-13)	RPD
Alkalinity, Bicarbonate (As CaCO3)	mg/L	210	200	4.88	36	36	0.0
Alkalinity, Total (As CaCO3)	mg/L	210	200	4.88	36	36	0.0
Ammonia (As N)	mg/L	5.4	5.5	1.83	0.11	0.11	0.0
Arsenic, Dissolved	mg/L	< 0.000006	< 0.000006	NA	< 0.000006	< 0.000006	NA
Arsenic, Total	mg/L	0.0017	0.0016	6.06	0.0004	0.0004	0.0
Barium, Dissolved	mg/L	0.09	0.095	5.41	0.0045	0.0048	6.45
Barium, Total	mg/L	0.1	0.098	2.02	0.0047	0.0048	2.11
Calcium, Dissolved	mg/L	35	34	2.90	9.1	9.4	3.24
Chloride	mg/L	13	13	0.0	1.4	1.4	0.0
Iron, Dissolved	mg/L	21	21	0.0	< 0.06	< 0.06	NA
Iron, Total	mg/L	21	21	0.0	0.20	0.21	4.88
Magnesium, Dissolved	mg/L	13	13	0.0	3.2	3.3	3.08
Manganese, Dissolved	mg/L	3.9	4.0	2.53	0.64	0.63	1.57
Manganese, Total	mg/L	4.2	4.2	0.0	0.7	0.69	1.44
Nitrate as N	mg/L	< 0.05	< 0.05	NA	1.3	1.3	0.0
Potassium, Dissolved	mg/L	7.7	7.5	2.63	<1.0	<1.0	NA
Sodium, Dissolved	mg/L	20	19	5.13	2.5	2.6	3.92
Sulfate	mg/L	9.6	9.8	2.06	2.4	2.4	0.0
Total Dissolved Solids (TDS)	mg/L	250	240	4.08	68	62	9.23
Vanadium, Dissolved	mg/L	< 0.002	< 0.002	NA	< 0.002	< 0.002	NA

Analyte	Units	MW-42 (1115-04)	MW-42 DUP (1115-05)	RPD	MW-2B1 (1115-12)	MW-2B1 DUP (1115-13)	RPD
Vanadium, Total	mg/L	< 0.002	< 0.002	NA	< 0.002	< 0.002	NA
Zinc, Dissolved	mg/L	< 0.005	< 0.005	NA	< 0.005	< 0.005	NA
Zinc, Total	mg/L	< 0.005	< 0.005	NA	< 0.005	< 0.005	NA

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
*	LCS or LCSD is outside acceptable limits.	280-76598, 280-76667, 280-76731, 280-76733
B	Compound was found in the blank and sample.	280-76733
F1	MS and/or MSD Recovery is outside acceptance limits.	280-76598, 280-76731
F2	MS/MSD exceeds control limits.	280-76733
F3	Duplicate RPD exceeds control limit.	280-76667
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	280-76598, 280-76667, 280-76731
J	Result is less than the RL but greater than or equal to the MDL and the concentration; therefore, control limits are not applicable.	280-76667, 280-76731, 280-76733
^	ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK, or MRL standard: Instrument related QC is outside acceptable limits.	280-76667, 280-76731
X	Surrogate is outside control limits.	280-76733
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.	280-76733
U	Results were not detected at concentrations greater than the method reporting limit.	280-77391

Additional Qualifier Definitions

Qualifiers	Description	Lab Group

Additional Items of Note

The analytes Acrolein, Acrylonitrile, and 2-Chloroethyl Vinyl Ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limits for the analytes is not reliable or defensible (280-73402, 280-73439, 280-73516, 280-73542).

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-77391-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
Sun Valley Hauling
9081 Tujunga Avenue
Sun Valley, CA 91352

Attention: Mr. Phil Perley

Approved for release.
Betsy A Sara
Project Manager II
12/2/2015 2:27 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/02/2015

cc: Mr. Dan Venchiarutti

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Analytical Resources, Incorporated
Analytical Chemists and Consultants

30 November 2015

Betsy Sara
Test America-Denver
4955 Yarrow Street
Arvada, CO 80002

RE: Project: OVSL
ARI Job No.: AQV9

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 twenty-four water samples on November 13, 2015. The samples were analyzed for total and 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 AQV9

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: AQV9	Turn-around Requested: Standard	Date: 11/12/15	
ARI Client Company: SCS Engineers	Phone: (425) 766-2502	Page: 1 of 3	
Client Contact: Dan Venchiarutti		No. of Coolers: 2	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.18	Samplers: Sam G. and Brad B.		

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	Number of Containers	Analysis Requested: low level total Arsenic	Analysis Requested: low level dissolved Arsenic	Notes/Comments
MW-43	11/9/15	1115	Groundwater	2	X	X	
MW-29A		1235					
MW-42		1338					
MW-20		1508					
MW-42 (Dup 1)		1338					
MW-34A		1100					
MW-34C		1150					
MW-35	11/10/15	924					
MW-13A		1030					
MW-13B		1120					

Comments/Special Instructions	Relinquished by: (Signature)	Printed Name:	Company:	Date & Time:	Received by: (Signature)	Printed Name:	Company:	Date & Time:	Relinquished by: (Signature)	Printed Name:	Company:	Date & Time:	Received by: (Signature)	Printed Name:	Company:	Date & Time:
	Dan	Sam Graber	SCS	11/13/15		Brian Warren	ARI	11/13/15 1325								

AQV9: 00002

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: AQV9	Turn-around Requested: Standard	Date: 11/12/15	
ARI Client Company: SCS Engineers	Phone: (425) 766-2502	Page: 2 of 3	
Client Contact: Dan Venchiarutti		No. of Coolers: 2	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.18	Samplers: Sam G. and Brad B.		

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	Number of Containers	Analysis Requested: low level Total Arsenic	Analysis Requested: Low level Dissolved Arsenic	Notes/Comments
MW-23A	11/10/15	1303	Ground water	2	X	X	
MW-2B1	↓	1440	↓	↓	↓	↓	
Dup-2	↓	1500	↓	↓	↓	↓	
MW-16	11/11/15	846	↓	↓	↓	↓	
MW-33A	↓	1015	↓	↓	↓	↓	
MW-33C	↓	1110	↓	↓	↓	↓	
MW-24	↓	1245	↓	↓	↓	↓	
MW-39	↓	1010	↓	↓	↓	↓	
MW-15R	↓	830	↓	↓	↓	↓	
MW-36A	↓	915	↓	↓	↓	↓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Sam Graber	Printed Name: Brian Warren	Printed Name:	Printed Name:
	Company: SCS	Company: ARI	Company:	Company:
	Date & Time: 11/13/15	Date & Time: 11/13/15 1325	Date & Time:	Date & Time:

AQV9 00003 11/12/15

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: AQVQ	Turn-around Requested: Standard	Date: 11/12/15	
ARI Client Company: SCS Engineers	Phone: (425) 766-2502	Page: 3 of 3	
Client Contact: Dan Venchiarutti		No. of Coolers: 2	Cooler Temps:
Client Project Name: OVSL			
Client Project #: 04204027.18	Samplers: Sam G. and Brad B.		

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	Number of Containers	Analysis Requested: low level Total Arsenic	Analysis Requested: low level Dissolved Arsenic	Notes/Comments
MW-4	11/11/15	1225	Groundwater	2	X	X	
MW-19C	"	1115	"	"	"	"	
MW-32	"	1305	"	"	"	"	
L-INF	"	1400	Leachate	"	"	"	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Sam Grabar	Printed Name: Brian Warren	Printed Name:	Printed Name:
	Company: SCS	Company: ARI	Company:	Company:
	Date & Time: 11/13/15	Date & Time: 11/13/15 1325	Date & Time:	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: SCS Project Name: _____

COC No(s): _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: AQV9 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) 3.8

Time: 1645

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 1000365

Cooler Accepted by: _____ Date: 11/13/15 Time: 1325

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: _____ Date: 11/17/15 Time: 1535

*** 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:

By: Date:

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
• • •	• • •	● ● ●

Small → "sm" (< 2 mm)

Peabubbles → "pb" (2 to < 4 mm)

Large → "lg" (4 to < 6 mm)

Headspace → "hs" (> 6 mm)

PRESERVATION VERIFICATION 11/17/15
Page 1 of 13

ANALYTICAL RESOURCES INCORPORATED

Inquiry Number: NONE
Analysis Requested: 11/16/15
Contact: Sara, Betsy
Client: Test America
Logged by: EL
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

ARI Job No: **AQV9**

PC: Mark
VTSR: 11/13/15

Project #: 04204027.18
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
15-21899 **AQV9A**	MW-43						TOT															
15-21900 **AQV9B**	MW-29A						TOT															
15-21901 **AQV9C**	MW-42						TOT															
15-21902 **AQV9D**	MW-20						TOT															
15-21903 **AQV9E**	MW-42 (DUP 1)						TOT															
15-21904 **AQV9F**	MW-34A						TOT															
15-21905 **AQV9G**	MW-34C						TOT															
15-21906 **AQV9H**	MW-35						TOT															
15-21907 **AQV9I**	MW-13A						TOT															
15-21908 **AQV9J**	MW-13B						TOT															
15-21909 **AQV9K**	MW-23A						TOT															
15-21910 **AQV9L**	MW-2B1						TOT															
15-21911 **AQV9M**	DUP-2						TOT															
15-21912 **AQV9N**	MW-16						TOT															

Checked By wl Date 11/17/15

PRESERVATION VERIFICATION 11/17/15
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ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **AQV9**

Client: Test America

Project #: 04204027.18
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
15-21913 **AQV9O**	MW-33A						TOT P															
15-21914 **AQV9P**	MW-33C						TOT															
15-21915 **AQV9Q**	MW-24						TOT															
15-21916 **AQV9R**	MW-39						TOT															
15-21917 **AQV9S**	MW-15R						TOT															
15-21918 **AQV9T**	MW-36A						TOT															
15-21919 **AQV9U**	MW-4						TOT															
15-21920 **AQV9V**	MW-19C						TOT															
15-21921 **AQV9W**	MW-32						TOT															
15-21922 **AQV9X**	L-INF						TOT															
15-21923 **AQV9Y**	MW-43						DIS									Y						
15-21924 **AQV9Z**	MW-29A						DIS									Y						
15-21925 **AQV9AA**	MW-42						DIS									Y						
15-21926 **AQV9AB**	MW-20						DIS									Y						
15-21927 **AQV9AC**	MW-42 (DUP 1)						DIS									Y						
15-21928 **AQV9AD**	MW-34A						DIS									Y						
15-21929 **AQV9AE**	MW-34C						DIS ✓									Y						

AQV9 04204027.18

Checked By LD Date 11/17/15

PRESERVATION VERIFICATION 11/17/15
Page 3 of 13

Client: Test America

ARI Job No: **AQV9**

Project #: 04204027.18
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
15-21930 **AQV9AF**	MW-35						DIS D									y						
15-21931 **AQV9AG**	MW-13A						DIS									y						
15-21932 **AQV9AH**	MW-13B						DIS									y						
15-21933 **AQV9AI**	MW-23A						DIS									y						
15-21934 **AQV9AJ**	MW-2B1						DIS									y						
15-21935 **AQV9AK**	DUP-2						DIS									y						
15-21936 **AQV9AL**	MW-16						DIS									y						
15-21937 **AQV9AM**	MW-33A						DIS									y						
15-21938 **AQV9AN**	MW-33C						DIS									y						
15-21939 **AQV9AO**	MW-24						DIS									y						
15-21940 **AQV9AP**	MW39						DIS									y						
15-21941 **AQV9AQ**	MW-15R						DIS									y						
15-21942 **AQV9AR**	MW-36A						DIS									y						
15-21943 **AQV9AS**	MW-4						DIS									y						
15-21944 **AQV9AT**	MW-19C						DIS									y						
15-21945 **AQV9AU**	MW-32						DIS									y						
15-21946 **AQV9AV**	L-INF						DIS									y						

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: AQV9
Client: Test America
Project Event: 04204027.18
Project Name: OVSL

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW-43	AQV9A	15-21899	Water	11/09/15 11:15	11/13/15 16:45
2.	MW-29A	AQV9B	15-21900	Water	11/09/15 12:35	11/13/15 16:45
3.	MW-42	AQV9C	15-21901	Water	11/09/15 13:38	11/13/15 16:45
4.	MW-20	AQV9D	15-21902	Water	11/09/15 15:08	11/13/15 16:45
5.	MW-42 (DUP 1)	AQV9E	15-21903	Water	11/09/15 13:38	11/13/15 16:45
6.	MW-34A	AQV9F	15-21904	Water	11/09/15 11:00	11/13/15 16:45
7.	MW-34C	AQV9G	15-21905	Water	11/09/15 11:50	11/13/15 16:45
8.	MW-35	AQV9H	15-21906	Water	11/10/15 09:24	11/13/15 16:45
9.	MW-13A	AQV9I	15-21907	Water	11/10/15 10:30	11/13/15 16:45
10.	MW-13B	AQV9J	15-21908	Water	11/10/15 11:20	11/13/15 16:45
11.	MW-23A	AQV9K	15-21909	Water	11/10/15 13:03	11/13/15 16:45
12.	MW-2B1	AQV9L	15-21910	Water	11/10/15 14:40	11/13/15 16:45
13.	DUP-2	AQV9M	15-21911	Water	11/10/15 15:00	11/13/15 16:45
14.	MW-16	AQV9N	15-21912	Water	11/11/15 08:46	11/13/15 16:45
15.	MW-33A	AQV9O	15-21913	Water	11/11/15 10:15	11/13/15 16:45
16.	MW-33C	AQV9P	15-21914	Water	11/11/15 11:10	11/13/15 16:45
17.	MW-24	AQV9Q	15-21915	Water	11/11/15 12:45	11/13/15 16:45
18.	MW-39	AQV9R	15-21916	Water	11/11/15 10:10	11/13/15 16:45
19.	MW-15R	AQV9S	15-21917	Water	11/11/15 08:30	11/13/15 16:45
20.	MW-36A	AQV9T	15-21918	Water	11/11/15 09:15	11/13/15 16:45
21.	MW-4	AQV9U	15-21919	Water	11/11/15 12:25	11/13/15 16:45
22.	MW-19C	AQV9V	15-21920	Water	11/11/15 11:15	11/13/15 16:45
23.	MW-32	AQV9W	15-21921	Water	11/11/15 13:05	11/13/15 16:45
24.	L-INF	AQV9X	15-21922	Water	11/11/15 14:00	11/13/15 16:45
25.	MW-43	AQV9Y	15-21923	Water	11/09/15 11:15	11/13/15 16:45
26.	MW-29A	AQV9Z	15-21924	Water	11/09/15 12:35	11/13/15 16:45
27.	MW-42	AQV9AA	15-21925	Water	11/09/15 13:38	11/13/15 16:45
28.	MW-20	AQV9AB	15-21926	Water	11/09/15 15:08	11/13/15 16:45
29.	MW-42 (DUP 1)	AQV9AC	15-21927	Water	11/09/15 13:38	11/13/15 16:45
30.	MW-34A	AQV9AD	15-21928	Water	11/09/15 11:00	11/13/15 16:45
31.	MW-34C	AQV9AE	15-21929	Water	11/09/15 11:50	11/13/15 16:45
32.	MW-35	AQV9AF	15-21930	Water	11/10/15 09:24	11/13/15 16:45
33.	MW-13A	AQV9AG	15-21931	Water	11/10/15 10:30	11/13/15 16:45
34.	MW-13B	AQV9AH	15-21932	Water	11/10/15 11:20	11/13/15 16:45
35.	MW-23A	AQV9AI	15-21933	Water	11/10/15 13:03	11/13/15 16:45
36.	MW-2B1	AQV9AJ	15-21934	Water	11/10/15 14:40	11/13/15 16:45
37.	DUP-2	AQV9AK	15-21935	Water	11/10/15 15:00	11/13/15 16:45
38.	MW-16	AQV9AL	15-21936	Water	11/11/15 08:46	11/13/15 16:45
39.	MW-33A	AQV9AM	15-21937	Water	11/11/15 10:15	11/13/15 16:45
40.	MW-33C	AQV9AN	15-21938	Water	11/11/15 11:10	11/13/15 16:45
41.	MW-24	AQV9AO	15-21939	Water	11/11/15 12:45	11/13/15 16:45
42.	MW39	AQV9AP	15-21940	Water	11/11/15 10:10	11/13/15 16:45
43.	MW-15R	AQV9AQ	15-21941	Water	11/11/15 08:30	11/13/15 16:45
44.	MW-36A	AQV9AR	15-21942	Water	11/11/15 09:15	11/13/15 16:45
45.	MW-4	AQV9AS	15-21943	Water	11/11/15 12:25	11/13/15 16:45
46.	MW-19C	AQV9AT	15-21944	Water	11/11/15 11:15	11/13/15 16:45
47.	MW-32	AQV9AU	15-21945	Water	11/11/15 13:05	11/13/15 16:45

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: AQV9
Client: Test America
Project Event: 04204027.18
Project Name: OVSL

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
48. L-INF	AQV9AV	15-21946	Water	11/11/15 14:00	11/13/15 16:45

Data Reporting Qualifiers

Effective 12/31/13

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
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
TOTAL METALS
Page 1 of 1

Sample ID: MW-43
SAMPLE

Lab Sample ID: AQV9A
LIMS ID: 15-21899
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: MW-43**
Page 1 of 1 **DUPLICATE**

Lab Sample ID: AQV9A
LIMS ID: 15-21899
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-43
MATRIX SPIKE

Lab Sample ID: AQV9A
LIMS ID: 15-21899
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.0001 U	0.0040	0.0050	80.0%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked or
LOQ > Spike Concentration

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-29A
SAMPLE

Lab Sample ID: AQV9B
LIMS ID: 15-21900
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0017**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-42
SAMPLE

Lab Sample ID: AQV9C
LIMS ID: 15-21901
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0017**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-20
SAMPLE

Lab Sample ID: AQV9D
LIMS ID: 15-21902
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-42 (DUP 1)
SAMPLE

Lab Sample ID: AQV9E
LIMS ID: 15-21903
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0016**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-34A
SAMPLE

Lab Sample ID: AQV9F
LIMS ID: 15-21904
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-34C
SAMPLE

Lab Sample ID: AQV9G
LIMS ID: 15-21905
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0002	**0.0846**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-35
SAMPLE

Lab Sample ID: AQV9H
LIMS ID: 15-21906
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0001**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-13A
SAMPLE

Lab Sample ID: AQV9I
LIMS ID: 15-21907
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-13B
SAMPLE

Lab Sample ID: AQV9J
LIMS ID: 15-21908
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0003**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-23A
SAMPLE

Lab Sample ID: AQV9K
LIMS ID: 15-21909
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0003**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-2B1
SAMPLE

Lab Sample ID: AQV9L
LIMS ID: 15-21910
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: DUP-2
SAMPLE

Lab Sample ID: AQV9M
LIMS ID: 15-21911
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: DUP-2
DUPLICATE

Lab Sample ID: AQV9M
LIMS ID: 15-21911
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.0004	0.0004	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

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Sample ID: DUP-2
MATRIX SPIKE

Lab Sample ID: AQV9M
LIMS ID: 15-21911
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.0004	0.0042	0.0050	76.0%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked or
LOQ > Spike Concentration

Percent Recovery Limits: 75-125%

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Sample ID: MW-16
SAMPLE

Lab Sample ID: AQV9N
LIMS ID: 15-21912
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0003**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: MW-33A**
Page 1 of 1 **SAMPLE**

Lab Sample ID: AQV9O
LIMS ID: 15-21913
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-33C
SAMPLE

Lab Sample ID: AQV9P
LIMS ID: 15-21914
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0025**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-24
SAMPLE

Lab Sample ID: AQV9Q
LIMS ID: 15-21915
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0006**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-39
SAMPLE

Lab Sample ID: AQV9R
LIMS ID: 15-21916
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0015**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-15R
SAMPLE

Lab Sample ID: AQV9S
LIMS ID: 15-21917
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-36A
SAMPLE

Lab Sample ID: AQV9T
LIMS ID: 15-21918
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0005**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-4
SAMPLE

Lab Sample ID: AQV9U
LIMS ID: 15-21919
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0010**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-19C
SAMPLE

Lab Sample ID: AQV9V
LIMS ID: 15-21920
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0028**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-32
SAMPLE

Lab Sample ID: AQV9W
LIMS ID: 15-21921
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0001	**0.0094**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: L-INF
SAMPLE

Lab Sample ID: AQV9X
LIMS ID: 15-21922
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	**7440-38-2**	**Arsenic**	0.0002	**0.0072**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-43
SAMPLE

Lab Sample ID: AQV9Y
LIMS ID: 15-21923
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-43
DUPLICATE

Lab Sample ID: AQV9Y
LIMS ID: 15-21923
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

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Sample ID: MW-43
MATRIX SPIKE

Lab Sample ID: AQV9Y
LIMS ID: 15-21923
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.0001 U	0.0041	0.005	82.0%	

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%

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Sample ID: MW-29A
SAMPLE

Lab Sample ID: AQV9Z
LIMS ID: 15-21924
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0016**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-42
SAMPLE

Lab Sample ID: AQV9AA
LIMS ID: 15-21925
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0016**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-20
SAMPLE

Lab Sample ID: AQV9AB
LIMS ID: 15-21926
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-42 (DUP 1)
SAMPLE

Lab Sample ID: AQV9AC
LIMS ID: 15-21927
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0017**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-34A
SAMPLE

Lab Sample ID: AQV9AD
LIMS ID: 15-21928
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-34C
SAMPLE

Lab Sample ID: AQV9AE
LIMS ID: 15-21929
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/09/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0013**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-35
SAMPLE

Lab Sample ID: AQV9AF
LIMS ID: 15-21930
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0001**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-13A
SAMPLE

Lab Sample ID: AQV9AG
LIMS ID: 15-21931
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-13B
SAMPLE

Lab Sample ID: AQV9AH
LIMS ID: 15-21932
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0003**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-23A
SAMPLE

Lab Sample ID: AQV9AI
LIMS ID: 15-21933
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0001**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: MW-2B1
SAMPLE

Lab Sample ID: AQV9AJ
LIMS ID: 15-21934
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: DUP-2
SAMPLE

Lab Sample ID: AQV9AK
LIMS ID: 15-21935
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

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Sample ID: DUP-2
DUPLICATE

Lab Sample ID: AQV9AK
LIMS ID: 15-21935
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.0002	0.0002	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

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Sample ID: DUP-2
MATRIX SPIKE

Lab Sample ID: AQV9AK
LIMS ID: 15-21935
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/10/15
Date Received: 11/13/15

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.0002	0.0043	0.005	82.0%	

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
Page 1 of 1

Sample ID: MW-16
SAMPLE

Lab Sample ID: AQV9AL
LIMS ID: 15-21936
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0003**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-33A
SAMPLE

Lab Sample ID: AQV9AM
LIMS ID: 15-21937
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0001**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-33C
SAMPLE

Lab Sample ID: AQV9AN
LIMS ID: 15-21938
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0024**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-24
SAMPLE

Lab Sample ID: AQV9AO
LIMS ID: 15-21939
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW39
SAMPLE

Lab Sample ID: AQV9AP
LIMS ID: 15-21940
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0017**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: MW-15R**
Page 1 of 1 **SAMPLE**

Lab Sample ID: AQV9AQ
LIMS ID: 15-21941
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-36A
SAMPLE

Lab Sample ID: AQV9AR
LIMS ID: 15-21942
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0005**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: MW-4**
Page 1 of 1 **SAMPLE**

Lab Sample ID: AQV9AS
LIMS ID: 15-21943
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-19C
SAMPLE

Lab Sample ID: AQV9AT
LIMS ID: 15-21944
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0029**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-32
SAMPLE

Lab Sample ID: AQV9AU
LIMS ID: 15-21945
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0001	**0.0096**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: L-INF SAMPLE

Lab Sample ID: AQV9AV
LIMS ID: 15-21946
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL 04204027.18
Date Sampled: 11/11/15
Date Received: 11/13/15

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	**7440-38-2**	**Arsenic**	0.0004	**0.0073**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: AQV9MB
LIMS ID: 15-21910
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

AQV9 : 00070 12/02/2015

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: AQV9LCS
LIMS ID: 15-21910
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.0042	0.0050	84.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: AQV9MB
LIMS ID: 15-21922
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/24/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: AQV9LCS
LIMS ID: 15-21922
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.0043	0.0050	86.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: METHOD BLANK**

Lab Sample ID: AQV9MB
LIMS ID: 15-21934
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/25/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: AQV9LCS
LIMS ID: 15-21934
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.0042	0.0050	84.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: AQV9MB
LIMS ID: 15-21946
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	11/20/15	200.8	11/27/15	7440-38-2	Arsenic	0.0001	0.0001	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: AQV9LCS
LIMS ID: 15-21946
Matrix: Water
Data Release Authorized:
Reported: 11/30/15

QC Report No: AQV9-Test America
Project: OVSL
04204027.18
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.0042	0.0050	84.0%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-76598-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
Sun Valley Hauling
9081 Tujunga Avenue
Sun Valley, CA 91352

Attention: Mr. Phil Perley

Approved for release.
Betsy A Sara
Project Manager II
12/9/2015 9:24 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/09/2015

cc: 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 4025.

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: 280-76598-1

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 11/10/2015; the samples arrived properly preserved and on ice. The temperatures of the coolers at receipt were 1.9º C, 3.1º C and 4.7º C.

One of six hydrochloric preserved VOA vials for samples MW-20 and MW-34C and one of four hydrochloric preserved VOA vials for the TRIP BLANK were broken in transit. Sufficient volume remained to proceed with the analysis. The client was notified on 11/10/2015.

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)

The Method 8260C laboratory control sample (LCS) recovered above the upper control limit for Acrolein. Because Acrolein has been identified as a poor performing analyte when analyzed using this method, re-extraction and reanalysis were not performed. In addition, the data are considered to be biased high and the associated samples were non-detect above the reporting limit for Acrolein.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Sample MW-42 was selected to fulfill the laboratory batch quality control requirements for Method 6020. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Dissolved Barium above the upper control limit. 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.

The percent recoveries and/or relative percent difference of the MS/MSD performed on sample MW-42 were outside control limits for Dissolved Manganese Method 6020 because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

The percent recoveries and/or relative percent difference of the MS/MSD performed on sample MW-42 were outside control limits for Total Manganese Method 6020 because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

Sample MW-20 was selected to fulfill the laboratory batch quality control requirements for Method 350.1. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Ammonia above the upper control limit. 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.

Organics

The analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limits for the analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether is not reliable or defensible.

General Comments

The analyses for Volatile Organics by Method 8260C and Volatile Organics by Method 8260C 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: 280-76598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76598-1	**MW-43**					
Chloride		2.1		1.0	mg/L	300.0
Sulfate		1.5		1.0	mg/L	300.0
Ammonia (as N)		0.033		0.030	mg/L	350.1
Nitrate as N		2.2		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		26		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		26		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		50		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.1		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		6.5		0.040	mg/L	6010B
Iron, Dissolved		0.19		0.060	mg/L	6010B
Magnesium, Dissolved		2.6		0.050	mg/L	6010B
Sodium, Dissolved		3.6		1.0	mg/L	6010B
Barium, Dissolved		0.0079		0.0010	mg/L	6020
Manganese, Dissolved		0.12		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.24		0.060	mg/L	6010B
Barium, Total		0.0073		0.0010	mg/L	6020
Manganese, Total		0.13		0.0010	mg/L	6020
280-76598-2	**MW-42**					
Vinyl chloride		0.12		0.020	ug/L	8260C SIM
Chloride		13		1.0	mg/L	300.0
Sulfate		9.6		1.0	mg/L	300.0
Ammonia (as N)		5.4		0.15	mg/L	350.1
Alkalinity, Total (As CaCO3)		210		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		210		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		250		5.0	mg/L	SM 2540C
Total Suspended Solids		11		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		6.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		35		0.040	mg/L	6010B
Iron, Dissolved		21		0.060	mg/L	6010B
Magnesium, Dissolved		13		0.050	mg/L	6010B
Potassium, Dissolved		7.7		1.0	mg/L	6010B
Sodium, Dissolved		20		1.0	mg/L	6010B
Barium, Dissolved		0.090	F1	0.0010	mg/L	6020
Manganese, Dissolved		3.9		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		21		0.060	mg/L	6010B
Barium, Total		0.10		0.0010	mg/L	6020
Manganese, Total		4.2		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76598-3	**MW-20**					
Chloride		9.5		1.0	mg/L	300.0
Sulfate		8.7		1.0	mg/L	300.0
Nitrate as N		3.4		0.050	mg/L	353.2
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		1.6		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		26		0.040	mg/L	6010B
Magnesium, Dissolved		15		0.050	mg/L	6010B
Potassium, Dissolved		3.6		1.0	mg/L	6010B
Sodium, Dissolved		11		1.0	mg/L	6010B
Barium, Dissolved		0.0063		0.0010	mg/L	6020
Manganese, Dissolved		0.14		0.0010	mg/L	6020
Total Recoverable						
Barium, Total		0.0067		0.0010	mg/L	6020
Manganese, Total		0.18		0.0010	mg/L	6020
280-76598-4FD	**MW-42 (DUP1)**					
Vinyl chloride		0.12		0.020	ug/L	8260C SIM
Chloride		13		1.0	mg/L	300.0
Sulfate		9.8		1.0	mg/L	300.0
Ammonia (as N)		5.5		0.060	mg/L	350.1
Alkalinity, Total (As CaCO3)		200		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		200		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		240		5.0	mg/L	SM 2540C
Total Suspended Solids		7.2		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		6.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		34		0.040	mg/L	6010B
Iron, Dissolved		21		0.060	mg/L	6010B
Magnesium, Dissolved		13		0.050	mg/L	6010B
Potassium, Dissolved		7.5		1.0	mg/L	6010B
Sodium, Dissolved		19		1.0	mg/L	6010B
Barium, Dissolved		0.095		0.0010	mg/L	6020
Manganese, Dissolved		4.0		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		21		0.060	mg/L	6010B
Barium, Total		0.098		0.0010	mg/L	6020
Manganese, Total		4.2		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76598-5	**MW-34A**					
Chloride		3.3		1.0	mg/L	300.0
Sulfate		2.3		1.0	mg/L	300.0
Nitrate as N		1.4		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		81		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		81		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		130		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		15		0.040	mg/L	6010B
Magnesium, Dissolved		7.7		0.050	mg/L	6010B
Sodium, Dissolved		8.9		1.0	mg/L	6010B
Barium, Dissolved		0.0046		0.0010	mg/L	6020
Manganese, Dissolved		0.0019		0.0010	mg/L	6020
Vanadium, Dissolved		0.0036		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0049		0.0010	mg/L	6020
Chromium, Total		0.0035		0.0030	mg/L	6020
Manganese, Total		0.0018		0.0010	mg/L	6020
Vanadium, Total		0.0042		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76598-6	**MW-34C**					
Vinyl chloride		0.084		0.020	ug/L	8260C SIM
Chloride		4.8		1.0	mg/L	300.0
Sulfate		5.9		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)		180		5.0	mg/L	SM 2540C
Total Suspended Solids		88		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		3.8		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		24		0.040	mg/L	6010B
Iron, Dissolved		0.44		0.060	mg/L	6010B
Magnesium, Dissolved		10		0.050	mg/L	6010B
Potassium, Dissolved		1.3		1.0	mg/L	6010B
Sodium, Dissolved		12		1.0	mg/L	6010B
Barium, Dissolved		0.0077		0.0010	mg/L	6020
Manganese, Dissolved		0.59		0.0010	mg/L	6020
Total Recoverable						
Cobalt, Total		0.0049		0.0030	mg/L	6010B
Iron, Total		89		0.060	mg/L	6010B
Barium, Total		0.31		0.0010	mg/L	6020
Cadmium, Total		0.00024		0.00020	mg/L	6020
Copper, Total		0.010		0.0020	mg/L	6020
Manganese, Total		3.5		0.0010	mg/L	6020
Vanadium, Total		0.0086		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76598-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76598-8	**MW-29A**					
Chloride		2.0		1.0	mg/L	300.0
Sulfate		1.2		1.0	mg/L	300.0
Ammonia (as N)		0.067		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		44		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		44		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		58		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.6		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		6.4		0.040	mg/L	6010B
Iron, Dissolved		3.6		0.060	mg/L	6010B
Magnesium, Dissolved		3.7		0.050	mg/L	6010B
Sodium, Dissolved		4.7		1.0	mg/L	6010B
Barium, Dissolved		0.0077		0.0010	mg/L	6020
Manganese, Dissolved		1.3		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		3.4		0.060	mg/L	6010B
Barium, Total		0.0085		0.0010	mg/L	6020
Manganese, Total		1.3		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management Job Number: 280-76598-1

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	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260C SIM	
Purge and Trap	TAL BUF		SW846 5030C

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: 280-76598-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C SIM	O'Brien, Shaun W	SWO
SW846 6010B	Scott, Samantha J	SJS
SW846 6010B	Trudell, Lynn-Anne M	LMT
SW846 6020	Mooney, Joseph C	JM
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Moore, Kevin A	KAM
EPA 353.2	Allen, Andrew J	AJA
SM SM 2320B	Simons, Nicole A	NAS
SM SM 2540C	Martinez, Rut S	RSM
SM SM 2540D	Lawrence, Caitlyn M	CML
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management Job Number: 280-76598-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-76598-1	MW-43	Water	11/09/2015 1115	11/10/2015 0925
280-76598-2	MW-42	Water	11/09/2015 1338	11/10/2015 0925
280-76598-3	MW-20	Water	11/09/2015 1508	11/10/2015 0925
280-76598-4FD	MW-42 (DUP1)	Water	11/09/2015 1338	11/10/2015 0925
280-76598-5	MW-34A	Water	11/09/2015 1100	11/10/2015 0925
280-76598-6	MW-34C	Water	11/09/2015 1150	11/10/2015 0925
280-76598-8	MW-29A	Water	11/09/2015 1235	11/10/2015 0925
280-76598-9TB	TRIP BLANK	Water	11/09/2015 0000	11/10/2015 0925

SAMPLE RESULTS

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1 Date Sampled: 11/09/2015 1115
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1947.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1455			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76598-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1 | Date Sampled: 11/09/2015 1115
Client Matrix: Water | Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1947.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1455			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1
Client Matrix: Water

Date Sampled: 11/09/2015 1115
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1947.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1455			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1455				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1
Client Matrix: Water

Date Sampled: 11/09/2015 1115
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1947.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1455			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1455				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: MW-42

Lab Sample ID: 280-76598-2
Client Matrix: Water

Date Sampled: 11/09/2015 1338
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1948.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1518			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-42**

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1948.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1518			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: MW-42

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1948.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1518			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1518				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-42**

Lab Sample ID: 280-76598-2
Client Matrix: Water

Date Sampled: 11/09/2015 1338
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1948.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1518			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1518				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management Job Number: 280-76598-1

Client Sample ID: MW-20

Lab Sample ID: 280-76598-3 Date Sampled: 11/09/2015 1508
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1949.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1542			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76598-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-76598-3
Client Matrix: Water

Date Sampled: 11/09/2015 1508
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1949.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1542			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: MW-20

Lab Sample ID: 280-76598-3 Date Sampled: 11/09/2015 1508
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1949.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1542			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1542				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-76598-3
Client Matrix: Water

Date Sampled: 11/09/2015 1508
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1949.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1542			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1542				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1950.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1606			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76598-1

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD | Date Sampled: 11/09/2015 1338
Client Matrix: Water | Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1950.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1606			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: MW-42 (DUP1)

Lab Sample ID: 280-76598-4FD Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1950.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1606			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1606				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD
Client Matrix: Water

Date Sampled: 11/09/2015 1338
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1950.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1606			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1606				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1951.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1630			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1630				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1951.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1630			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1630				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: MW-34A

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1951.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1630			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1630				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5
Client Matrix: Water

Date Sampled: 11/09/2015 1100
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1951.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1630			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1630				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6 Date Sampled: 11/09/2015 1150
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1654			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1654				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6 Date Sampled: 11/09/2015 1150
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1654			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1654				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6
Client Matrix: Water

Date Sampled: 11/09/2015 1150
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1654			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1654				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		66 - 137
4-Bromofluorobenzene (Surr)	96		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6
Client Matrix: Water

Date Sampled: 11/09/2015 1150
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1952.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1654			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1654				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8 Date Sampled: 11/09/2015 1235
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1718			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1718				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76598-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8
Client Matrix: Water

Date Sampled: 11/09/2015 1235
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1718			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1718				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8
Client Matrix: Water

Date Sampled: 11/09/2015 1235
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1718			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1718				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8
Client Matrix: Water

Date Sampled: 11/09/2015 1235
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1953.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1718			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1718				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76598-9TB Date Sampled: 11/09/2015 0000
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1954.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1742			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1742				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76598-9TB Date Sampled: 11/09/2015 0000
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1954.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1742			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1742				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76598-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76598-9TB Date Sampled: 11/09/2015 0000
Client Matrix: Water Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1954.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1742			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1742				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76598-9TB
Client Matrix: Water

Date Sampled: 11/09/2015 0000
Date Received: 11/10/2015 0925

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1954.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1742			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1742				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1
Client Matrix: Water

Date Sampled: 11/09/2015 1115
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7328.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0115			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0115				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	91		50 - 150

Client: Waste Management Job Number: 280-76598-1

Client Sample ID: MW-42

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7329.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0140			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0140				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.12		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	87		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-76598-3
Client Matrix: Water

Date Sampled: 11/09/2015 1508
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7330.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0204			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0204				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	90		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD
Client Matrix: Water

Date Sampled: 11/09/2015 1338
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7331.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0228			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0228				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.12		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	85		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5
Client Matrix: Water

Date Sampled: 11/09/2015 1100
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7332.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0252			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	87		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6
Client Matrix: Water

Date Sampled: 11/09/2015 1150
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7333.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0316			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0316				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.084		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	103		50 - 150
TBA-d9 (Surr)	88		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8
Client Matrix: Water

Date Sampled: 11/09/2015 1235
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7334.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0340			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	104		50 - 150
TBA-d9 (Surr)	87		50 - 150

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76598-9TB
Client Matrix: Water

Date Sampled: 11/09/2015 0000
Date Received: 11/10/2015 0925

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7335.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0404			Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0404				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	103		50 - 150
TBA-d9 (Surr)	89		50 - 150

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1 Date Sampled: 11/09/2015 1115
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0637			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.24		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2145			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	6.5		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.19		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	3.6		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2149			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	2.6		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	074SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2349			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Barium, Total	0.0073		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

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1 Date Sampled: 11/09/2015 1115
Client Matrix: Water Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Manganese, Total	0.13		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	055SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1819			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	114SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2151			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Barium, Dissolved	0.0079		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	0.12		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

Analysis Method:	6020	Analysis Batch:	280-306132	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	103SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2015 2228			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-43**

Lab Sample ID: 280-76598-1
Client Matrix: Water

Date Sampled: 11/09/2015 1115
Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Dissolved

Client Sample ID: **MW-42**

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0640			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	21		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2147			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	35		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	21		0.060	0.060
Potassium, Dissolved	7.7		1.0	1.0
Sodium, Dissolved	20		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2152			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	13		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	075SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2353			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.10		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

Client Sample ID: **MW-42**

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	4.2		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	056SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1823			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	115SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2154			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.090	F1	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	3.9		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 Sample ID: **MW-20**

Lab Sample ID: 280-76598-3 Date Sampled: 11/09/2015 1508
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method: 6010B Analysis Batch: 280-305725 Instrument ID: MT_025
Prep Method: 3005A Prep Batch: 280-303919 Lab File ID: 25d112515.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 11/26/2015 0642 Final Weight/Volume: 50 mL
Prep Date: 11/16/2015 1430

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method: 6010B Analysis Batch: 280-305418 Instrument ID: MT_025
Prep Method: 3005A Prep Batch: 280-303477 Lab File ID: 25d112315.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 11/23/2015 2150 Final Weight/Volume: 50 mL
Prep Date: 11/12/2015 0835

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	26		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Potassium, Dissolved	3.6		1.0	1.0
Sodium, Dissolved	11		1.0	1.0

Analysis Method: 6010B Analysis Batch: 280-305592 Instrument ID: MT_025
Prep Method: 3005A Prep Batch: 280-303477 Lab File ID: 25B112415.asc
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 11/24/2015 2154 Final Weight/Volume: 50 mL
Prep Date: 11/12/2015 0835

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	15		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method: 6020 Analysis Batch: 280-304248 Instrument ID: MT_078
Prep Method: 3005A Prep Batch: 280-303903 Lab File ID: 082SMPL.d
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 11/14/2015 0018 Final Weight/Volume: 50 mL
Prep Date: 11/13/2015 1400

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0067		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

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-76598-3
Client Matrix: Water

Date Sampled: 11/09/2015 1508
Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.18		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	063SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1848			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	120SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2212			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0063		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 Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0644			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	21		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2153			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	34		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	21		0.060	0.060
Potassium, Dissolved	7.5		1.0	1.0
Sodium, Dissolved	19		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2157			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	13		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	083SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0021			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.098		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

Client: Waste Management | Job Number: 280-76598-1

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD | Date Sampled: 11/09/2015 1338
Client Matrix: Water | Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	4.2		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	064SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1851			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	123SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2223			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.095		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	4.0		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 Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0647			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2155			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	15		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
Sodium, Dissolved	8.9		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2200			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	7.7		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	084SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0025			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0049		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0035		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020

Client Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.0018		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	0.0042		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	065SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1855			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	124SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2226			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0046		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	0.0019		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

Analysis Method:	6020	Analysis Batch:	280-306812	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-306585	Lab File ID:	238SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0454			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-76598-5
Client Matrix: Water

Date Sampled: 11/09/2015 1100
Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Dissolved

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6 Date Sampled: 11/09/2015 1150
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0649			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	0.0049		0.0030	0.0030
Iron, Total	89		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2158			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	24		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.44		0.060	0.060
Potassium, Dissolved	1.3		1.0	1.0
Sodium, Dissolved	12		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2202			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	10		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	085SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0028			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.31		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	0.00024		0.00020	0.00020
Chromium, Total	ND		0.0030	0.0030
Copper, Total	0.010		0.0020	0.0020

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6 Date Sampled: 11/09/2015 1150
Client Matrix: Water Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	3.5		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	0.0086		0.0020	0.0020

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	066SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1859			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

Analysis Method:	6020	Analysis Batch:	280-306812	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-306582	Lab File ID:	229SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0422			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	125SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2230			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0077		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	0.59		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: 280-76598-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-76598-6
Client Matrix: Water

Date Sampled: 11/09/2015 1150
Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Dissolved

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8 Date Sampled: 11/09/2015 1235
Client Matrix: Water Date Received: 11/10/2015 0925

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0652			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	3.4		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305418	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25d112315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 2201			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	6.4		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	3.6		0.060	0.060
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	4.7		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-305592	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303477	Lab File ID:	25B112415.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 2205			Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Dissolved	3.7		0.050	0.050

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	086SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0032			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0085		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

Client: Waste Management

Job Number: 280-76598-1

Client Sample ID: **MW-29A**

Lab Sample ID: 280-76598-8
Client Matrix: Water

Date Sampled: 11/09/2015 1235
Date Received: 11/10/2015 0925

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	1.3		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	067SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1902			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-303766	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303474	Lab File ID:	126SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2233			Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0077		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	1.3		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-43

Lab Sample ID: 280-76598-1 Date Sampled: 11/09/2015 1115
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2216						
Sulfate	1.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2216						
Ammonia (as N)	0.033		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1459						
Nitrate as N	2.2		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	26		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1809						
Alkalinity, Bicarbonate (As CaCO3)	26		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1809						
Total Dissolved Solids (TDS)	50		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	1.1		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-303962	Analysis Date: 11/12/2015 1604						

General Chemistry

Client Sample ID: **MW-42**

Lab Sample ID: 280-76598-2 Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	13		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2233						
Sulfate	9.6		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2233						
Ammonia (as N)	5.4		mg/L	0.15	0.15	5.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1643						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	210		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1722						
Alkalinity, Bicarbonate (As CaCO3)	210		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1722						
Total Dissolved Solids (TDS)	250		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	11		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	6.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-303962	Analysis Date: 11/12/2015 2358						

General Chemistry

Client Sample ID: MW-20

Lab Sample ID: 280-76598-3 Date Sampled: 11/09/2015 1508
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	9.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2251						
Sulfate	8.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2251						
Ammonia (as N)	ND	F1	mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1645						
Nitrate as N	3.4		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1732						
Alkalinity, Bicarbonate (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1732						
Total Dissolved Solids (TDS)	200		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	1.6		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-303962	Analysis Date: 11/13/2015 0042						

General Chemistry

Client Sample ID: **MW-42 (DUP1)**

Lab Sample ID: 280-76598-4FD Date Sampled: 11/09/2015 1338
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	13		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2309						
Sulfate	9.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/19/2015 2309						
Ammonia (as N)	5.5		mg/L	0.060	0.060	2.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1841						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	200		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1742						
Alkalinity, Bicarbonate (As CaCO3)	200		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1742						
Total Dissolved Solids (TDS)	240		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	7.2		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	6.4		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-303962	Analysis Date: 11/13/2015 0057						

General Chemistry

Client Sample ID: MW-34A

Lab Sample ID: 280-76598-5 Date Sampled: 11/09/2015 1100
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0002						
Sulfate	2.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0002						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1653						
Nitrate as N	1.4		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	81		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1717						
Alkalinity, Bicarbonate (As CaCO3)	81		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1717						
Total Dissolved Solids (TDS)	130		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/16/2015 1920						

General Chemistry

Client Sample ID: MW-34C

Lab Sample ID: 280-76598-6 Date Sampled: 11/09/2015 1150
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	4.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0020						
Sulfate	5.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0020						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1655						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1727						
Alkalinity, Bicarbonate (As CaCO3)	120		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1727						
Total Dissolved Solids (TDS)	180		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	88		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	3.8		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/16/2015 1937						

General Chemistry

Client Sample ID: MW-29A

Lab Sample ID: 280-76598-8 Date Sampled: 11/09/2015 1235
Client Matrix: Water Date Received: 11/10/2015 0925

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0038						
Sulfate	1.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-304836	Analysis Date: 11/20/2015 0038						
Ammonia (as N)	0.067		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304100	Analysis Date: 11/13/2015 1657						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305435	Analysis Date: 11/24/2015 1002						
Alkalinity, Total (As CaCO3)	44		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1737						
Alkalinity, Bicarbonate (As CaCO3)	44		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304200	Analysis Date: 11/13/2015 1737						
Total Dissolved Solids (TDS)	58		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303408	Analysis Date: 11/10/2015 1518						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-303574	Analysis Date: 11/11/2015 1232						
Total Organic Carbon - Average	1.6		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/16/2015 1951						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-76598-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD is outside acceptance limits.
Metals		
	F1	MS and/or MSD Recovery is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F1	MS and/or MSD Recovery is outside acceptance limits.

QUALITY CONTROL RESULTS

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-275301					
LCS 480-275301/29	Lab Control Sample	T	Water	8260C SIM	
LCS 480-275301/30	Lab Control Sample	T	Water	8260C SIM	
LCS 480-275301/31	Lab Control Sample	T	Water	8260C SIM	
LCS 480-275301/32	Lab Control Sample	T	Water	8260C SIM	
LCS 480-275301/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-275301/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-275301/8	Method Blank	T	Water	8260C SIM	
280-76598-1	MW-43	T	Water	8260C SIM	
280-76598-2	MW-42	T	Water	8260C SIM	
280-76598-3	MW-20	T	Water	8260C SIM	
280-76598-4FD	MW-42 (DUP1)	T	Water	8260C SIM	
280-76598-5	MW-34A	T	Water	8260C SIM	
280-76598-6	MW-34C	T	Water	8260C SIM	
280-76598-8	MW-29A	T	Water	8260C SIM	
280-76598-9TB	TRIP BLANK	T	Water	8260C SIM	
Analysis Batch:480-276063					
LCS 480-276063/5	Lab Control Sample	T	Water	8260C	
MB 480-276063/7	Method Blank	T	Water	8260C	
280-76598-1	MW-43	T	Water	8260C	
280-76598-2	MW-42	T	Water	8260C	
280-76598-3	MW-20	T	Water	8260C	
280-76598-4FD	MW-42 (DUP1)	T	Water	8260C	
280-76598-5	MW-34A	T	Water	8260C	
280-76598-6	MW-34C	T	Water	8260C	
280-76598-8	MW-29A	T	Water	8260C	
280-76598-9TB	TRIP BLANK	T	Water	8260C	
480-90816-V-1 MS	Matrix Spike	T	Water	8260C	
480-90816-V-1 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis
T = Total

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-303474					
LCS 280-303474/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303474/1-A	Method Blank	R	Water	3005A	
280-76598-1	MW-43	D	Water	3005A	
280-76598-2	MW-42	D	Water	3005A	
280-76598-2MS	Matrix Spike	D	Water	3005A	
280-76598-2MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76598-3	MW-20	D	Water	3005A	
280-76598-4FD	MW-42 (DUP1)	D	Water	3005A	
280-76598-5	MW-34A	D	Water	3005A	
280-76598-6	MW-34C	D	Water	3005A	
280-76598-8	MW-29A	D	Water	3005A	
Prep Batch: 280-303477					
LCS 280-303477/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303477/1-A	Method Blank	R	Water	3005A	
280-76394-D-1-B MS	Matrix Spike	D	Water	3005A	
280-76394-D-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76598-1	MW-43	D	Water	3005A	
280-76598-2	MW-42	D	Water	3005A	
280-76598-3	MW-20	D	Water	3005A	
280-76598-4FD	MW-42 (DUP1)	D	Water	3005A	
280-76598-5	MW-34A	D	Water	3005A	
280-76598-6	MW-34C	D	Water	3005A	
280-76598-8	MW-29A	D	Water	3005A	
Analysis Batch:280-303766					
LCS 280-303474/2-A	Lab Control Sample	R	Water	6020	280-303474
MB 280-303474/1-A	Method Blank	R	Water	6020	280-303474
280-76598-1	MW-43	D	Water	6020	280-303474
280-76598-2	MW-42	D	Water	6020	280-303474
280-76598-2MS	Matrix Spike	D	Water	6020	280-303474
280-76598-2MSD	Matrix Spike Duplicate	D	Water	6020	280-303474
280-76598-3	MW-20	D	Water	6020	280-303474
280-76598-4FD	MW-42 (DUP1)	D	Water	6020	280-303474
280-76598-5	MW-34A	D	Water	6020	280-303474
280-76598-6	MW-34C	D	Water	6020	280-303474
280-76598-8	MW-29A	D	Water	6020	280-303474

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-303903					
LCS 280-303903/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303903/1-A	Method Blank	R	Water	3005A	
280-76598-1	MW-43	R	Water	3005A	
280-76598-2	MW-42	R	Water	3005A	
280-76598-2MS	Matrix Spike	R	Water	3005A	
280-76598-2MSD	Matrix Spike Duplicate	R	Water	3005A	
280-76598-3	MW-20	R	Water	3005A	
280-76598-4FD	MW-42 (DUP1)	R	Water	3005A	
280-76598-5	MW-34A	R	Water	3005A	
280-76598-6	MW-34C	R	Water	3005A	
280-76598-8	MW-29A	R	Water	3005A	
Prep Batch: 280-303919					
LCS 280-303919/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303919/1-A	Method Blank	R	Water	3005A	
280-76598-1	MW-43	R	Water	3005A	
280-76598-2	MW-42	R	Water	3005A	
280-76598-3	MW-20	R	Water	3005A	
280-76598-4FD	MW-42 (DUP1)	R	Water	3005A	
280-76598-5	MW-34A	R	Water	3005A	
280-76598-6	MW-34C	R	Water	3005A	
280-76598-8	MW-29A	R	Water	3005A	
280-76636-B-1-C MS	Matrix Spike	R	Water	3005A	
280-76636-B-1-D MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-304248					
LCS 280-303903/2-A	Lab Control Sample	R	Water	6020	280-303903
MB 280-303903/1-A	Method Blank	R	Water	6020	280-303903
280-76598-1	MW-43	R	Water	6020	280-303903
280-76598-2	MW-42	R	Water	6020	280-303903
280-76598-2MS	Matrix Spike	R	Water	6020	280-303903
280-76598-2MSD	Matrix Spike Duplicate	R	Water	6020	280-303903
280-76598-3	MW-20	R	Water	6020	280-303903
280-76598-4FD	MW-42 (DUP1)	R	Water	6020	280-303903
280-76598-5	MW-34A	R	Water	6020	280-303903
280-76598-6	MW-34C	R	Water	6020	280-303903
280-76598-8	MW-29A	R	Water	6020	280-303903

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-304486					
LCS 280-303903/2-A	Lab Control Sample	R	Water	6020	280-303903
MB 280-303903/1-A	Method Blank	R	Water	6020	280-303903
280-76598-1	MW-43	R	Water	6020	280-303903
280-76598-2	MW-42	R	Water	6020	280-303903
280-76598-2MS	Matrix Spike	R	Water	6020	280-303903
280-76598-2MSD	Matrix Spike Duplicate	R	Water	6020	280-303903
280-76598-3	MW-20	R	Water	6020	280-303903
280-76598-4FD	MW-42 (DUP1)	R	Water	6020	280-303903
280-76598-5	MW-34A	R	Water	6020	280-303903
280-76598-6	MW-34C	R	Water	6020	280-303903
280-76598-8	MW-29A	R	Water	6020	280-303903
Analysis Batch:280-305416					
LCS 280-303477/2-A	Lab Control Sample	R	Water	6010B	280-303477
MB 280-303477/1-A	Method Blank	R	Water	6010B	280-303477
280-76394-D-1-B MS	Matrix Spike	D	Water	6010B	280-303477
280-76394-D-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-303477
Analysis Batch:280-305418					
280-76598-1	MW-43	D	Water	6010B	280-303477
280-76598-2	MW-42	D	Water	6010B	280-303477
280-76598-3	MW-20	D	Water	6010B	280-303477
280-76598-4FD	MW-42 (DUP1)	D	Water	6010B	280-303477
280-76598-5	MW-34A	D	Water	6010B	280-303477
280-76598-6	MW-34C	D	Water	6010B	280-303477
280-76598-8	MW-29A	D	Water	6010B	280-303477
Analysis Batch:280-305592					
280-76598-1	MW-43	D	Water	6010B	280-303477
280-76598-2	MW-42	D	Water	6010B	280-303477
280-76598-3	MW-20	D	Water	6010B	280-303477
280-76598-4FD	MW-42 (DUP1)	D	Water	6010B	280-303477
280-76598-5	MW-34A	D	Water	6010B	280-303477
280-76598-6	MW-34C	D	Water	6010B	280-303477
280-76598-8	MW-29A	D	Water	6010B	280-303477

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-305725					
LCS 280-303919/2-A	Lab Control Sample	R	Water	6010B	280-303919
MB 280-303919/1-A	Method Blank	R	Water	6010B	280-303919
280-76598-1	MW-43	R	Water	6010B	280-303919
280-76598-2	MW-42	R	Water	6010B	280-303919
280-76598-3	MW-20	R	Water	6010B	280-303919
280-76598-4FD	MW-42 (DUP1)	R	Water	6010B	280-303919
280-76598-5	MW-34A	R	Water	6010B	280-303919
280-76598-6	MW-34C	R	Water	6010B	280-303919
280-76598-8	MW-29A	R	Water	6010B	280-303919
280-76636-B-1-C MS	Matrix Spike	R	Water	6010B	280-303919
280-76636-B-1-D MSD	Matrix Spike Duplicate	R	Water	6010B	280-303919
Analysis Batch:280-306132					
280-76598-1	MW-43	D	Water	6020	280-303474
Prep Batch: 280-306582					
LCS 280-306582/2-A	Lab Control Sample	R	Water	3005A	
MB 280-306582/1-A	Method Blank	R	Water	3005A	
280-76598-6	MW-34C	R	Water	3005A	
280-76598-6MS	Matrix Spike	R	Water	3005A	
280-76598-6MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-306585					
LCS 280-306585/2-A	Lab Control Sample	R	Water	3005A	
MB 280-306585/1-A	Method Blank	R	Water	3005A	
280-76598-5	MW-34A	D	Water	3005A	
280-76598-5MS	Matrix Spike	D	Water	3005A	
280-76598-5MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-306812					
LCS 280-306582/2-A	Lab Control Sample	R	Water	6020	280-306582
MB 280-306582/1-A	Method Blank	R	Water	6020	280-306582
LCS 280-306585/2-A	Lab Control Sample	R	Water	6020	280-306585
MB 280-306585/1-A	Method Blank	R	Water	6020	280-306585
280-76598-5	MW-34A	D	Water	6020	280-306585
280-76598-5MS	Matrix Spike	D	Water	6020	280-306585
280-76598-5MSD	Matrix Spike Duplicate	D	Water	6020	280-306585
280-76598-6	MW-34C	R	Water	6020	280-306582
280-76598-6MS	Matrix Spike	R	Water	6020	280-306582
280-76598-6MSD	Matrix Spike Duplicate	R	Water	6020	280-306582

Report Basis
D = Dissolved
R = Total Recoverable

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-303408					
LCS 280-303408/2	Lab Control Sample	T	Water	SM 2540C	
MB 280-303408/1	Method Blank	T	Water	SM 2540C	
280-76598-1	MW-43	T	Water	SM 2540C	
280-76598-2	MW-42	T	Water	SM 2540C	
280-76598-3	MW-20	T	Water	SM 2540C	
280-76598-3DU	Duplicate	T	Water	SM 2540C	
280-76598-4FD	MW-42 (DUP1)	T	Water	SM 2540C	
280-76598-5	MW-34A	T	Water	SM 2540C	
280-76598-6	MW-34C	T	Water	SM 2540C	
280-76598-8	MW-29A	T	Water	SM 2540C	
Analysis Batch:280-303574					
LCS 280-303574/2	Lab Control Sample	T	Water	SM 2540D	
MB 280-303574/1	Method Blank	T	Water	SM 2540D	
280-76598-1	MW-43	T	Water	SM 2540D	
280-76598-1DU	Duplicate	T	Water	SM 2540D	
280-76598-2	MW-42	T	Water	SM 2540D	
280-76598-3	MW-20	T	Water	SM 2540D	
280-76598-4FD	MW-42 (DUP1)	T	Water	SM 2540D	
280-76598-5	MW-34A	T	Water	SM 2540D	
280-76598-6	MW-34C	T	Water	SM 2540D	
280-76598-8	MW-29A	T	Water	SM 2540D	
Analysis Batch:280-303962					
LCS 280-303962/3	Lab Control Sample	T	Water	SM 5310B	
LCS 280-303962/34	Lab Control Sample	T	Water	SM 5310B	
MB 280-303962/35	Method Blank	T	Water	SM 5310B	
MB 280-303962/4	Method Blank	T	Water	SM 5310B	
280-76598-1	MW-43	T	Water	SM 5310B	
280-76598-2	MW-42	T	Water	SM 5310B	
280-76598-3	MW-20	T	Water	SM 5310B	
280-76598-4FD	MW-42 (DUP1)	T	Water	SM 5310B	
280-76598-4MS	Matrix Spike	T	Water	SM 5310B	
280-76598-4MSD	Matrix Spike Duplicate	T	Water	SM 5310B	

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304100					
LCS 280-304100/18	Lab Control Sample	T	Water	350.1	
LCS 280-304100/59	Lab Control Sample	T	Water	350.1	
LCSD 280-304100/19	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-304100/60	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-304100/20	Method Blank	T	Water	350.1	
MB 280-304100/61	Method Blank	T	Water	350.1	
280-76598-2	MW-42	T	Water	350.1	
280-76598-3	MW-20	T	Water	350.1	
280-76598-3MS	Matrix Spike	T	Water	350.1	
280-76598-3MSD	Matrix Spike Duplicate	T	Water	350.1	
280-76598-4FD	MW-42 (DUP1)	T	Water	350.1	
280-76598-5	MW-34A	T	Water	350.1	
280-76598-6	MW-34C	T	Water	350.1	
280-76598-8	MW-29A	T	Water	350.1	
Analysis Batch:280-304200					
LCS 280-304200/30	Lab Control Sample	T	Water	SM 2320B	
LCS 280-304200/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-304200/31	Method Blank	T	Water	SM 2320B	
MB 280-304200/5	Method Blank	T	Water	SM 2320B	
280-76584-A-1 DU	Duplicate	T	Water	SM 2320B	
280-76598-1	MW-43	T	Water	SM 2320B	
280-76598-2	MW-42	T	Water	SM 2320B	
280-76598-3	MW-20	T	Water	SM 2320B	
280-76598-4FD	MW-42 (DUP1)	T	Water	SM 2320B	
280-76598-5	MW-34A	T	Water	SM 2320B	
280-76598-6	MW-34C	T	Water	SM 2320B	
280-76598-8	MW-29A	T	Water	SM 2320B	
Analysis Batch:280-304345					
LCS 280-304345/18	Lab Control Sample	T	Water	350.1	
LCSD 280-304345/19	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-304345/20	Method Blank	T	Water	350.1	
280-76598-1	MW-43	T	Water	350.1	
280-76598-1MS	Matrix Spike	T	Water	350.1	
280-76598-1MSD	Matrix Spike Duplicate	T	Water	350.1	
Analysis Batch:280-304498					
LCS 280-304498/18	Lab Control Sample	T	Water	SM 5310B	
MB 280-304498/19	Method Blank	T	Water	SM 5310B	
280-76511-D-7 MS	Matrix Spike	T	Water	SM 5310B	
280-76511-D-7 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-76598-5	MW-34A	T	Water	SM 5310B	
280-76598-6	MW-34C	T	Water	SM 5310B	
280-76598-8	MW-29A	T	Water	SM 5310B	

Client: Waste Management Job Number: 280-76598-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304499					
LCS 280-304499/18	Lab Control Sample	T	Water	SM 5310B	
MB 280-304499/19	Method Blank	T	Water	SM 5310B	
280-76511-D-7 MS	Matrix Spike	T	Water	SM 5310B	
280-76511-D-7 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-76598-5	MW-34A	T	Water	SM 5310B	
280-76598-6	MW-34C	T	Water	SM 5310B	
280-76598-8	MW-29A	T	Water	SM 5310B	
Analysis Batch:280-304836					
LCS 280-304836/4	Lab Control Sample	T	Water	300.0	
LCSD 280-304836/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-304836/6	Method Blank	T	Water	300.0	
280-76598-1	MW-43	T	Water	300.0	
280-76598-2	MW-42	T	Water	300.0	
280-76598-3	MW-20	T	Water	300.0	
280-76598-4FD	MW-42 (DUP1)	T	Water	300.0	
280-76598-5	MW-34A	T	Water	300.0	
280-76598-6	MW-34C	T	Water	300.0	
280-76598-8	MW-29A	T	Water	300.0	
280-76598-8DU	Duplicate	T	Water	300.0	
280-76598-8MS	Matrix Spike	T	Water	300.0	
280-76598-8MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-305435					
MB 280-305435/1	Method Blank	T	Water	353.2	
280-76598-1	MW-43	T	Water	353.2	
280-76598-2	MW-42	T	Water	353.2	
280-76598-3	MW-20	T	Water	353.2	
280-76598-4FD	MW-42 (DUP1)	T	Water	353.2	
280-76598-5	MW-34A	T	Water	353.2	
280-76598-6	MW-34C	T	Water	353.2	
280-76598-8	MW-29A	T	Water	353.2	

Report Basis
T = Total

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-76598-1	MW-43	111	96	95
280-76598-2	MW-42	107	94	97
280-76598-3	MW-20	107	97	96
280-76598-4	MW-42 (DUP1)	111	97	95
280-76598-5	MW-34A	113	95	96
280-76598-6	MW-34C	115	96	97
280-76598-8	MW-29A	107	97	99
280-76598-9	TRIP BLANK	112	97	100
MB 480-276063/7		108	93	96
LCS 480-276063/5		108	102	101
480-90816-V-1 MS		107	99	97
480-90816-V-1 MSD		105	98	99

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
BFB = 4-Bromofluorobenzene (Surr)	73-120
TOL = Toluene-d8 (Surr)	71-126

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-76598-1	MW-43	102	91
280-76598-2	MW-42	102	87
280-76598-3	MW-20	102	90
280-76598-4	MW-42 (DUP1)	102	85
280-76598-5	MW-34A	101	87
280-76598-6	MW-34C	103	88
280-76598-8	MW-29A	104	87
280-76598-9	TRIP BLANK	103	89
MB 480-275301/8		99	85
LCS 480-275301/5		105	123
LCS 480-275301/29		103	120
LCS 480-275301/30		103	141
LCS 480-275301/31		107	127
LCS 480-275301/32		103	124
LCSD 480-275301/6		103	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 480-276063

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276063/7	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1938.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1112	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1112				
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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76598-1

Method Blank - Batch: 480-276063

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276063/7	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1938.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1112	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1112				
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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 480-276063

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276063/7	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1938.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1112	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1112				
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)	108	66 - 137
4-Bromofluorobenzene (Surr)	93	73 - 120
Toluene-d8 (Surr)	96	71 - 126

Method Blank TICs- Batch: 480-276063

Cas Number	Analyte	RT	Est. Result (ug/	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-76598-1

Lab Control Sample - Batch: 480-276063

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-276063/5	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1936.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1024	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1024				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.9	104	71 - 129	
1,1-Dichloroethene	25.0	24.8	99	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.1	96	76 - 121	
1,2-Dichlorobenzene	25.0	23.9	96	80 - 124	
1,2-Dichloroethane	25.0	26.4	106	75 - 127	
Acrolein	125	261	209	52 - 161	*
Benzene	25.0	24.9	100	71 - 124	
Chlorobenzene	25.0	23.9	95	72 - 120	
cis-1,2-Dichloroethene	25.0	23.7	95	74 - 124	
Ethylbenzene	25.0	24.7	99	77 - 123	
Methyl tert-butyl ether	25.0	25.4	102	64 - 127	
m-Xylene & p-Xylene	25.0	23.6	94	76 - 122	
o-Xylene	25.0	23.6	94	76 - 122	
Tetrachloroethene	25.0	24.4	98	74 - 122	
Toluene	25.0	24.0	96	80 - 122	
trans-1,2-Dichloroethene	25.0	24.2	97	73 - 127	
Trichloroethene	25.0	23.7	95	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-276063

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-90816-V-1 MS	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1957.D
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1854			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1854				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-90816-V-1 MSD	Analysis Batch:	480-276063	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1958.D
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1917			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 1917				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	108	105	71 - 129	3	20		
1,1-Dichloroethene	106	99	58 - 121	6	16		
1,2-Dichlorobenzene	100	94	80 - 124	6	20		
1,2-Dichloroethane	107	105	75 - 127	2	20		
Benzene	105	101	71 - 124	4	13		
Chlorobenzene	100	95	72 - 120	5	25		
cis-1,2-Dichloroethene	98	94	74 - 124	4	15		
Ethylbenzene	103	99	77 - 123	4	15		
m-Xylene & p-Xylene	99	95	76 - 122	4	16		
o-Xylene	98	96	76 - 122	2	16		
Tetrachloroethene	103	97	74 - 122	6	20		
Toluene	101	98	80 - 122	4	15		
trans-1,2-Dichloroethene	101	99	73 - 127	2	20		
Trichloroethene	100	95	74 - 123	5	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	105	66 - 137
4-Bromofluorobenzene (Surr)	99	98	73 - 120
Toluene-d8 (Surr)	97	99	71 - 126

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-276063

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-90816-V-1 MS	Units: ug/L	MSD Lab Sample ID:	480-90816-V-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	20		Dilution:	20	
Analysis Date:	11/20/2015 1854		Analysis Date:	11/20/2015 1917	
Prep Date:	11/20/2015 1854		Prep Date:	11/20/2015 1917	
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	500	500	542	524
1,1-Dichloroethene	ND	500	500	529	497
1,2-Dichlorobenzene	ND	500	500	498	471
1,2-Dichloroethane	ND	500	500	537	525
Benzene	ND	500	500	527	504
Chlorobenzene	ND	500	500	500	476
cis-1,2-Dichloroethene	ND	500	500	488	471
Ethylbenzene	ND	500	500	513	493
m-Xylene & p-Xylene	ND	500	500	494	476
o-Xylene	ND	500	500	491	481
Tetrachloroethene	ND	500	500	513	484
Toluene	ND	500	500	506	489
trans-1,2-Dichloroethene	ND	500	500	507	496
Trichloroethene	ND	500	500	502	476

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 480-275301

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	MB 480-275301/8	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 0047	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 0047				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	99	50 - 150
TBA-d9 (Surr)	85	50 - 150

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	103	50 - 150
TBA-d9 (Surr)	120	50 - 150

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	103	50 - 150
TBA-d9 (Surr)	141	50 - 150

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	107	50 - 150
TBA-d9 (Surr)	127	50 - 150

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	103	50 - 150
TBA-d9 (Surr)	124	50 - 150

Client: Waste Management Job Number: 280-76598-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-275301

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-275301/5	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7324.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/16/2015 2335	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/16/2015 2335				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-275301/6	Analysis Batch:	480-275301	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7325.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/16/2015 2359	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/16/2015 2359				25 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	105	107	50 - 150	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	105	103	50 - 150
TBA-d9 (Surr)	123	109	50 - 150

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-275301

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-275301/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-275301/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2015 2335			Analysis Date:	11/16/2015 2359
Prep Date:	11/16/2015 2335			Prep Date:	11/16/2015 2359
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Vinyl chloride	0.200	0.200	0.210	0.214

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-303477

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303477/1-A	Analysis Batch:	280-305416	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303477	Lab File ID:	25c112315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 1724	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				
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: 280-303477

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303477/2-A	Analysis Batch:	280-305416	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303477	Lab File ID:	25c112315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/23/2015 1731	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/12/2015 0835				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	49.3	99	90 - 111	
Cobalt, Dissolved	0.500	0.507	101	89 - 111	
Iron, Dissolved	1.00	0.973	97	89 - 115	
Magnesium, Dissolved	50.0	51.6	103	90 - 113	
Potassium, Dissolved	50.0	53.0	106	89 - 114	
Sodium, Dissolved	50.0	54.7	109	90 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303477

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76394-D-1-B MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/23/2015 2056
Prep Date: 11/12/2015 0835
Leach Date: N/A

Analysis Batch: 280-305416
Prep Batch: 280-303477
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25c112315.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76394-D-1-C MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/23/2015 2058
Prep Date: 11/12/2015 0835
Leach Date: N/A

Analysis Batch: 280-305416
Prep Batch: 280-303477
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25c112315.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	105	107	48 - 153	1	20		
Cobalt, Dissolved	101	102	82 - 119	1	20		
Iron, Dissolved	99	100	52 - 155	1	20		
Magnesium, Dissolved	109	112	62 - 146	2	20		
Potassium, Dissolved	108	109	76 - 132	0	20		
Sodium, Dissolved	111	111	70 - 203	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303477

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76394-D-1-B MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/23/2015 2056
Prep Date: 11/12/2015 0835
Leach Date: N/A

Units: mg/L

MSD Lab Sample ID: 280-76394-D-1-C MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/23/2015 2058
Prep Date: 11/12/2015 0835
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	40	50.0	50.0	92.6	93.4
Cobalt, Dissolved	ND	0.500	0.500	0.505	0.511
Iron, Dissolved	ND	1.00	1.00	0.995	1.00
Magnesium, Dissolved	16	50.0	50.0	70.6	72.3
Potassium, Dissolved	9.0	50.0	50.0	63.1	63.3
Sodium, Dissolved	57	50.0	50.0	113	112

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303919/1-A	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0539	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

Lab Control Sample - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303919/2-A	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0542	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.508	102	89 - 111	
Iron, Total	1.00	0.969	97	89 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76636-B-1-C MS	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0550			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76636-B-1-D MSD	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0553			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	95	97	82 - 119	2	20		
Iron, Total	89	93	52 - 155	3	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76636-B-1-C MS	Units: mg/L	MSD Lab Sample ID:	280-76636-B-1-D MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/26/2015 0550		Analysis Date:	11/26/2015 0553	
Prep Date:	11/16/2015 1430		Prep Date:	11/16/2015 1430	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cobalt, Total	ND	0.500	0.500	0.473	0.484
Iron, Total	0.34	1.00	1.00	1.23	1.27

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 280-303474

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303474/1-A	Analysis Batch:	280-303766	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303474	Lab File ID:	112_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2143	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				
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: 280-303474

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303474/2-A	Analysis Batch:	280-303766	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303474	Lab File ID:	113_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/11/2015 2147	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/11/2015 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0353	88	85 - 115	
Barium, Dissolved	0.0400	0.0402	101	85 - 118	
Beryllium, Dissolved	0.0400	0.0386	97	80 - 125	
Cadmium, Dissolved	0.0400	0.0400	100	85 - 115	
Chromium, Dissolved	0.0400	0.0406	102	84 - 121	
Copper, Dissolved	0.0400	0.0413	103	85 - 119	
Lead, Dissolved	0.0400	0.0420	105	85 - 118	
Manganese, Dissolved	0.0400	0.0409	102	85 - 117	
Nickel, Dissolved	0.0400	0.0408	102	85 - 119	
Selenium, Dissolved	0.0400	0.0388	97	77 - 122	
Silver, Dissolved	0.0400	0.0411	103	85 - 115	
Thallium, Dissolved	0.0400	0.0409	102	85 - 118	
Vanadium, Dissolved	0.0400	0.0398	99	85 - 120	
Zinc, Dissolved	0.0400	0.0396	99	83 - 122	

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303474

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/11/2015 2201
Prep Date: 11/11/2015 1430
Leach Date: N/A

Analysis Batch: 280-303766
Prep Batch: 280-303474
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 117SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/11/2015 2205
Prep Date: 11/11/2015 1430
Leach Date: N/A

Analysis Batch: 280-303766
Prep Batch: 280-303474
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 118SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	103	101	85 - 115	2	20		
Barium, Dissolved	125	116	85 - 118	2	20	F1	
Beryllium, Dissolved	105	103	80 - 125	2	20		
Cadmium, Dissolved	104	105	85 - 115	1	20		
Chromium, Dissolved	104	100	84 - 121	4	20		
Copper, Dissolved	102	100	85 - 119	2	20		
Lead, Dissolved	106	104	85 - 118	2	20		
Manganese, Dissolved	686	459	85 - 117	2	20	4	4
Nickel, Dissolved	107	102	85 - 119	4	20		
Selenium, Dissolved	99	100	77 - 122	1	20		
Silver, Dissolved	105	104	85 - 115	1	20		
Thallium, Dissolved	104	104	85 - 118	0	20		
Vanadium, Dissolved	104	102	85 - 120	1	20		
Zinc, Dissolved	102	100	83 - 122	2	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303474

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/11/2015 2201
Prep Date: 11/11/2015 1430
Leach Date: N/A

Units: mg/L

MSD Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/11/2015 2205
Prep Date: 11/11/2015 1430
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	0.0413		0.0404	
Barium, Dissolved	0.090	0.0400	0.0400	0.140	F1	0.136	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0419		0.0411	
Cadmium, Dissolved	ND	0.0400	0.0400	0.0415		0.0418	
Chromium, Dissolved	ND	0.0400	0.0400	0.0418		0.0400	
Copper, Dissolved	ND	0.0400	0.0400	0.0409		0.0401	
Lead, Dissolved	ND	0.0400	0.0400	0.0424		0.0416	
Manganese, Dissolved	3.9	0.0400	0.0400	4.16	4	4.07	4
Nickel, Dissolved	ND	0.0400	0.0400	0.0426		0.0409	
Selenium, Dissolved	ND	0.0400	0.0400	0.0395		0.0398	
Silver, Dissolved	ND	0.0400	0.0400	0.0422		0.0417	
Thallium, Dissolved	ND	0.0400	0.0400	0.0416		0.0414	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0415		0.0409	
Zinc, Dissolved	ND	0.0400	0.0400	0.0410		0.0401	

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303903/1-A	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	072_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2342	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, 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
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

Method Blank - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303903/1-A	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	053_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1812	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Selenium, Total	ND		0.0010	0.0010

Client: Waste Management Job Number: 280-76598-1

Lab Control Sample - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303903/2-A	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	073_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2345	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0368	92	85 - 115	
Barium, Total	0.0400	0.0409	102	85 - 118	
Beryllium, Total	0.0400	0.0405	101	80 - 125	
Cadmium, Total	0.0400	0.0418	105	85 - 115	
Chromium, Total	0.0400	0.0418	105	84 - 121	
Copper, Total	0.0400	0.0432	108	85 - 119	
Lead, Total	0.0400	0.0428	107	85 - 118	
Manganese, Total	0.0400	0.0418	104	85 - 117	
Nickel, Total	0.0400	0.0423	106	85 - 119	
Silver, Total	0.0400	0.0419	105	85 - 115	
Thallium, Total	0.0400	0.0425	106	85 - 118	
Vanadium, Total	0.0400	0.0414	103	85 - 120	
Zinc, Total	0.0400	0.0433	108	83 - 122	

Lab Control Sample - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303903/2-A	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	054_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1816	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium, Total	0.0400	0.0389	97	77 - 122	

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/14/2015 0000
Prep Date: 11/13/2015 1400
Leach Date: N/A

Analysis Batch: 280-304248
Prep Batch: 280-303903
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 077SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76598-2
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/14/2015 0003
Prep Date: 11/13/2015 1400
Leach Date: N/A

Analysis Batch: 280-304248
Prep Batch: 280-303903
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 078SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	101	100	85 - 115	1	20		
Barium, Total	97	98	85 - 118	0	20		
Beryllium, Total	106	104	80 - 125	2	20		
Cadmium, Total	103	104	85 - 115	1	20		
Chromium, Total	106	105	84 - 121	1	20		
Copper, Total	105	105	85 - 119	0	20		
Lead, Total	106	108	85 - 118	2	20		
Manganese, Total	130	41	85 - 117	1	20	4	4
Nickel, Total	108	109	85 - 119	1	20		
Silver, Total	107	106	85 - 115	1	20		
Thallium, Total	106	107	85 - 118	1	20		
Vanadium, Total	112	109	85 - 120	3	20		
Zinc, Total	104	105	83 - 122	1	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-2	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	058SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1830			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-2	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	059SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1834			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Selenium, Total	99	96	77 - 122	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-2	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/14/2015 0000		
Prep Date:	11/13/2015 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76598-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/14/2015 0003
Prep Date:	11/13/2015 1400
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Total	ND	0.0400	0.0400	0.0406		0.0401	
Barium, Total	0.10	0.0400	0.0400	0.140		0.140	
Beryllium, Total	ND	0.0400	0.0400	0.0426		0.0417	
Cadmium, Total	ND	0.0400	0.0400	0.0413		0.0416	
Chromium, Total	ND	0.0400	0.0400	0.0425		0.0422	
Copper, Total	ND	0.0400	0.0400	0.0420		0.0421	
Lead, Total	ND	0.0400	0.0400	0.0426		0.0432	
Manganese, Total	4.2	0.0400	0.0400	4.23	4	4.20	4
Nickel, Total	ND	0.0400	0.0400	0.0432		0.0437	
Silver, Total	ND	0.0400	0.0400	0.0428		0.0424	
Thallium, Total	ND	0.0400	0.0400	0.0424		0.0430	
Vanadium, Total	ND	0.0400	0.0400	0.0449		0.0437	
Zinc, Total	ND	0.0400	0.0400	0.0416		0.0419	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-2	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/16/2015 1830		
Prep Date:	11/13/2015 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76598-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/16/2015 1834
Prep Date:	11/13/2015 1400
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Selenium, Total	ND	0.0400	0.0400	0.0394	0.0384

Method Blank - Batch: 280-306582

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-306582/1-A	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306582	Lab File ID:	227_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0415	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Zinc, Total	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-306582

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-306582/2-A	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306582	Lab File ID:	228_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0418	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Zinc, Total	0.0400	0.0413	103	83 - 122	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306582

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-6	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306582	Lab File ID:	231SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0429			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-6	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306582	Lab File ID:	232SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0432			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc, Total	113	110	83 - 122	2	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306582

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-6	Units: mg/L	MSD Lab Sample ID:	280-76598-6	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/05/2015 0429		Analysis Date:	12/05/2015 0432	
Prep Date:	12/04/2015 1400		Prep Date:	12/04/2015 1400	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Zinc, Total	ND	0.0400	0.0400	0.0450	0.0440

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-306585

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-306585/1-A	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306585	Lab File ID:	236_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0447	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Zinc, Dissolved	ND		0.0050	0.0050

Lab Control Sample - Batch: 280-306585

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-306585/2-A	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306585	Lab File ID:	237_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0450	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Zinc, Dissolved	0.0400	0.0406	102	83 - 122	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306585

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76598-5	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306585	Lab File ID:	240SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0501			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-5	Analysis Batch:	280-306812	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-306585	Lab File ID:	241SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2015 0505			Final Weight/Volume:	50 mL
Prep Date:	12/04/2015 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc, Dissolved	103	105	83 - 122	2	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306585

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76598-5	Units: mg/L	MSD Lab Sample ID:	280-76598-5	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/05/2015 0501		Analysis Date:	12/05/2015 0505	
Prep Date:	12/04/2015 1400		Prep Date:	12/04/2015 1400	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Zinc, Dissolved	ND	0.0400	0.0400	0.0411	0.0419

Method Blank - Batch: 280-304836

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-304836/6	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2015 1226	Units:	mg/L	Final Weight/Volume:	5 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: 280-304836

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-304836/3	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	3.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2015 1132	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	102	50 - 150	
Sulfate	2.50	ND	101	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-304836

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304836/4	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2015 1150	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304836/5	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2015 1208	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	100	100	90 - 110	0	10		
Sulfate	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-76598-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304836

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304836/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-304836/5	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/19/2015 1150		Analysis Date:	11/19/2015 1208	
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	100	100	99.8	99.8
Sulfate	100	100	100	100

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304836

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76598-8	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	35.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 0114			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-8	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	36.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 0131			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	105	105	80 - 120	0	20		
Sulfate	105	105	80 - 120	0	20		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304836

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76598-8	Units: mg/L	MSD Lab Sample ID:	280-76598-8	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/20/2015 0114		Analysis Date:	11/20/2015 0131	
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	2.0	25.0	25.0	28.2	28.2
Sulfate	1.2	25.0	25.0	27.5	27.5

Duplicate - Batch: 280-304836

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-76598-8	Analysis Batch:	280-304836	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	34.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 0056	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.0	2.02	1	15	
Sulfate	1.2	1.29	4	15	

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 280-304100

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-304100/20	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1641	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Method Blank - Batch: 280-304100

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-304100/61	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1803	Units:	mg/L	Final Weight/Volume:	
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: 280-304100

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304100/18	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/13/2015 1637	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304100/19	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/13/2015 1639	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)	102	104	90 - 110	1	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-304100

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304100/59	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/13/2015 1759	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304100/60	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/13/2015 1801	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)	110	109	90 - 110	0	10		

Client: Waste Management

Job Number: 280-76598-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304100

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304100/18	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-304100/19
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/13/2015 1637		Analysis Date:	11/13/2015 1639
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	2.55	2.59

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304100

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304100/59	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-304100/60
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/13/2015 1759		Analysis Date:	11/13/2015 1801
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	2.75	2.74

Client: Waste Management Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304100

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76598-3	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/13/2015 1647			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-3	Analysis Batch:	280-304100	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111315.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/13/2015 1649			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
Ammonia (as N)	110	111	90 - 110	1	10		F1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304100

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76598-3	Units:	mg/L	MSD Lab Sample ID:	280-76598-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/13/2015 1647			Analysis Date:	11/13/2015 1649
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	1.10	1.11	F1

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-304345

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-304345/20	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1419	Units:	mg/L	Final Weight/Volume:	
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: 280-304345

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304345/18	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/16/2015 1415	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304345/19	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/16/2015 1417	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	100	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304345/18	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-304345/19
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2015 1415			Analysis Date:	11/16/2015 1417
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	2.50

Client: Waste Management Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76598-1	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/16/2015 1501			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-1	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/16/2015 1503			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
Ammonia (as N)	109	109	90 - 110	1	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76598-1	Units:	mg/L	MSD Lab Sample ID:	280-76598-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2015 1501			Analysis Date:	11/16/2015 1503
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)	0.033	1.00	1.00	1.13	1.12

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 280-305435

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-305435/1	Analysis Batch:	280-305435	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2015 1002	Units:	mg/L	Final Weight/Volume:	
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: 280-76598-1

Method Blank - Batch: 280-304200

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-304200/5	Analysis Batch:	280-304200	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111315 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1542	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

Method Blank - Batch: 280-304200

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-304200/31	Analysis Batch:	280-304200	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111315 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1804	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

Lab Control Sample - Batch: 280-304200 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	LCS 280-304200/4	Analysis Batch:	280-304200	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111315 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1537	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	204	102	90 - 110	

Lab Control Sample - Batch: 280-304200 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	LCS 280-304200/30	Analysis Batch:	280-304200	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111315 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1759	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	203	101	90 - 110	

Duplicate - Batch: 280-304200 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	280-76584-A-1 DU	Analysis Batch:	280-304200	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111315 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 1553	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)	150	144	2	10	

Client: Waste Management

Job Number: 280-76598-1

Method Blank - Batch: 280-303408

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-303408/1	Analysis Batch:	280-303408	Instrument ID:	WC_Cond_Orion
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:	11/10/2015 1518	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 - Batch: 280-303408

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	LCS 280-303408/2	Analysis Batch:	280-303408	Instrument ID:	WC_Cond_Orion
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:	11/10/2015 1518	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids (TDS)	501	488	97	86 - 110	

Duplicate - Batch: 280-303408

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-76598-3	Analysis Batch:	280-303408	Instrument ID:	WC_Cond_Orion
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:	11/10/2015 1518	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)	200	195	1	10	

Client: Waste Management Job Number: 280-76598-1

Method Blank - Batch: 280-303574

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-303574/1	Analysis Batch:	280-303574	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/11/2015 1232	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Suspended Solids	ND		4.0	4.0

Lab Control Sample - Batch: 280-303574

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCS 280-303574/2	Analysis Batch:	280-303574	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/11/2015 1232	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	100	99.6	100	86 - 114	

Duplicate - Batch: 280-303574

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-76598-1	Analysis Batch:	280-303574	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/11/2015 1232	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	ND	ND	NC	10	

Method Blank - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-303962/4	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/12/2015 1502	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

Method Blank - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-303962/35	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/12/2015 2312	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 - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-303962/3	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/12/2015 1445	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	26.3	105	88 - 112	

Lab Control Sample - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-303962/34	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/12/2015 2257	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	26.6	106	88 - 112	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76598-4	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 0118			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-4	Analysis Batch:	280-303962	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111215.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/13/2015 0133			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	104	106	88 - 112	2	15		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303962

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76598-4	Units: mg/L	MSD Lab Sample ID:	280-76598-4	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/13/2015 0118		Analysis Date:	11/13/2015 0133	
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	6.4	25.0	25.0	32.4	33.0

Method Blank - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-304498/19	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1800	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 - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-304498/18	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1746	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	25.5	102	88 - 112	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76511-D-7 MS	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1850			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76511-D-7 MSD	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1905			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	103	106	88 - 112	2	15		

Client: Waste Management

Job Number: 280-76598-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76511-D-7 MS	Units: mg/L	MSD Lab Sample ID:	280-76511-D-7 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/16/2015 1850		Analysis Date:	11/16/2015 1905	
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	1.2	25.0	25.0	27.0	27.6

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-1 **Client ID: MW-43**

Sample Date/Time: 11/09/2015 11:15 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-1		480-276063		11/20/2015 14:55	1	TAL BUF	GTG
A:8260C	280-76598-F-1		480-276063		11/20/2015 14:55	1	TAL BUF	GTG
P:5030C	280-76598-K-1		480-275301		11/17/2015 01:15	1	TAL BUF	SWO
A:8260C SIM	280-76598-K-1		480-275301		11/17/2015 01:15	1	TAL BUF	SWO
P:3005A	280-76598-D-1-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-1-B		280-305418	280-303477	11/23/2015 21:45	1	TAL DEN	LMT
P:3005A	280-76598-D-1-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-1-B		280-305592	280-303477	11/24/2015 21:49	1	TAL DEN	SJS
P:3005A	280-76598-C-1-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-1-B		280-305725	280-303919	11/26/2015 06:37	1	TAL DEN	SJS
P:3005A	280-76598-D-1-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-1-A		280-303766	280-303474	11/11/2015 21:51	1	TAL DEN	JM
P:3005A	280-76598-C-1-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-1-A		280-304248	280-303903	11/13/2015 23:49	1	TAL DEN	JM
P:3005A	280-76598-C-1-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-1-A		280-304486	280-303903	11/16/2015 18:19	1	TAL DEN	JM
P:3005A	280-76598-D-1-A		280-306132	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-1-A		280-306132	280-303474	11/30/2015 22:28	1	TAL DEN	JM
A:300.0	280-76598-B-1		280-304836		11/19/2015 22:16	1	TAL DEN	TLP
A:350.1	280-76598-E-1		280-304345		11/16/2015 14:59	1	TAL DEN	KAM
A:353.2	280-76598-A-1		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-1		280-304200		11/13/2015 18:09	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-1		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-1		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-1		280-303962		11/12/2015 16:04	1	TAL DEN	CCJ

Lab ID: 280-76598-1 MS **Client ID: MW-43**

Sample Date/Time: 11/09/2015 11:15 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76598-E-1 MS		280-304345		11/16/2015 15:01	1	TAL DEN	KAM

Lab ID: 280-76598-1 MSD **Client ID: MW-43**

Sample Date/Time: 11/09/2015 11:15 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76598-E-1 MSD		280-304345		11/16/2015 15:03	1	TAL DEN	KAM

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-1 DU **Client ID: MW-43**

Sample Date/Time: 11/09/2015 11:15 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540D	280-76598-A-1 DU		280-303574		11/11/2015 12:32	1	TAL DEN	CML

Lab ID: 280-76598-2 **Client ID: MW-42**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-2		480-276063		11/20/2015 15:18	1	TAL BUF	GTG
A:8260C	280-76598-F-2		480-276063		11/20/2015 15:18	1	TAL BUF	GTG
P:5030C	280-76598-K-2		480-275301		11/17/2015 01:40	1	TAL BUF	SWO
A:8260C SIM	280-76598-K-2		480-275301		11/17/2015 01:40	1	TAL BUF	SWO
P:3005A	280-76598-D-2-D		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-2-D		280-305418	280-303477	11/23/2015 21:47	1	TAL DEN	LMT
P:3005A	280-76598-D-2-D		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-2-D		280-305592	280-303477	11/24/2015 21:52	1	TAL DEN	SJS
P:3005A	280-76598-C-2-D		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-2-D		280-305725	280-303919	11/26/2015 06:40	1	TAL DEN	SJS
P:3005A	280-76598-D-2-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-2-A		280-303766	280-303474	11/11/2015 21:54	1	TAL DEN	JM
P:3005A	280-76598-C-2-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-A		280-304248	280-303903	11/13/2015 23:53	1	TAL DEN	JM
P:3005A	280-76598-C-2-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-A		280-304486	280-303903	11/16/2015 18:23	1	TAL DEN	JM
A:300.0	280-76598-B-2		280-304836		11/19/2015 22:33	1	TAL DEN	TLP
A:350.1	280-76598-E-2		280-304100		11/13/2015 16:43	5	TAL DEN	KAM
A:353.2	280-76598-A-2		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-2		280-304200		11/13/2015 17:22	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-2		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-2		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-2		280-303962		11/12/2015 23:58	1	TAL DEN	CCJ

Lab ID: 280-76598-2 MS **Client ID: MW-42**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-D-2-B MS		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-2-B MS		280-303766	280-303474	11/11/2015 22:01	1	TAL DEN	JM
P:3005A	280-76598-C-2-B MS		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-B MS		280-304248	280-303903	11/14/2015 00:00	1	TAL DEN	JM
P:3005A	280-76598-C-2-B MS		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-B MS		280-304486	280-303903	11/16/2015 18:30	1	TAL DEN	JM

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-2 MSD **Client ID: MW-42**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-D-2-C MSD		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-2-C MSD		280-303766	280-303474	11/11/2015 22:05	1	TAL DEN	JM
P:3005A	280-76598-C-2-C MSD		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-C MSD		280-304248	280-303903	11/14/2015 00:03	1	TAL DEN	JM
P:3005A	280-76598-C-2-C MSD		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-C MSD		280-304486	280-303903	11/16/2015 18:34	1	TAL DEN	JM

Lab ID: 280-76598-3 **Client ID: MW-20**

Sample Date/Time: 11/09/2015 15:08 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-3		480-276063		11/20/2015 15:42	1	TAL BUF	GTG
A:8260C	280-76598-F-3		480-276063		11/20/2015 15:42	1	TAL BUF	GTG
P:5030C	280-76598-L-3		480-275301		11/17/2015 02:04	1	TAL BUF	SWO
A:8260C SIM	280-76598-L-3		480-275301		11/17/2015 02:04	1	TAL BUF	SWO
P:3005A	280-76598-D-3-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-3-B		280-305418	280-303477	11/23/2015 21:50	1	TAL DEN	LMT
P:3005A	280-76598-D-3-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-3-B		280-305592	280-303477	11/24/2015 21:54	1	TAL DEN	SJS
P:3005A	280-76598-C-3-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-3-B		280-305725	280-303919	11/26/2015 06:42	1	TAL DEN	SJS
P:3005A	280-76598-D-3-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-3-A		280-303766	280-303474	11/11/2015 22:12	1	TAL DEN	JM
P:3005A	280-76598-C-3-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-3-A		280-304248	280-303903	11/14/2015 00:18	1	TAL DEN	JM
P:3005A	280-76598-C-3-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-3-A		280-304486	280-303903	11/16/2015 18:48	1	TAL DEN	JM
A:300.0	280-76598-B-3		280-304836		11/19/2015 22:51	1	TAL DEN	TLP
A:350.1	280-76598-E-3		280-304100		11/13/2015 16:45	1	TAL DEN	KAM
A:353.2	280-76598-A-3		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-3		280-304200		11/13/2015 17:32	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-3		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-3		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-3		280-303962		11/13/2015 00:42	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-3 MS **Client ID: MW-20**

Sample Date/Time: 11/09/2015 15:08 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76598-E-3 MS		280-304100		11/13/2015 16:47	1	TAL DEN	KAM

Lab ID: 280-76598-3 MSD **Client ID: MW-20**

Sample Date/Time: 11/09/2015 15:08 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76598-E-3 MSD		280-304100		11/13/2015 16:49	1	TAL DEN	KAM

Lab ID: 280-76598-3 DU **Client ID: MW-20**

Sample Date/Time: 11/09/2015 15:08 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-76598-B-3 DU		280-303408		11/10/2015 15:18	1	TAL DEN	RSM

Lab ID: 280-76598-4 **Client ID: MW-42 (DUP1)**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-4		480-276063		11/20/2015 16:06	1	TAL BUF	GTG
A:8260C	280-76598-F-4		480-276063		11/20/2015 16:06	1	TAL BUF	GTG
P:5030C	280-76598-K-4		480-275301		11/17/2015 02:28	1	TAL BUF	SWO
A:8260C SIM	280-76598-K-4		480-275301		11/17/2015 02:28	1	TAL BUF	SWO
P:3005A	280-76598-D-4-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-4-B		280-305418	280-303477	11/23/2015 21:53	1	TAL DEN	LMT
P:3005A	280-76598-D-4-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-4-B		280-305592	280-303477	11/24/2015 21:57	1	TAL DEN	SJS
P:3005A	280-76598-C-4-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-4-B		280-305725	280-303919	11/26/2015 06:44	1	TAL DEN	SJS
P:3005A	280-76598-D-4-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-4-A		280-303766	280-303474	11/11/2015 22:23	1	TAL DEN	JM
P:3005A	280-76598-C-4-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-4-A		280-304248	280-303903	11/14/2015 00:21	1	TAL DEN	JM
P:3005A	280-76598-C-4-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-4-A		280-304486	280-303903	11/16/2015 18:51	1	TAL DEN	JM
A:300.0	280-76598-B-4		280-304836		11/19/2015 23:09	1	TAL DEN	TLP
A:350.1	280-76598-E-4		280-304100		11/13/2015 18:41	2	TAL DEN	KAM
A:353.2	280-76598-A-4		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-4		280-304200		11/13/2015 17:42	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-4		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-4		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-4		280-303962		11/13/2015 00:57	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-4 MS **Client ID: MW-42 (DUP1)**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-76598-E-4 MS		280-303962		11/13/2015 01:18	1	TAL DEN	CCJ

Lab ID: 280-76598-4 MSD **Client ID: MW-42 (DUP1)**

Sample Date/Time: 11/09/2015 13:38 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 5310B	280-76598-E-4 MSD		280-303962		11/13/2015 01:33	1	TAL DEN	CCJ

Lab ID: 280-76598-5 **Client ID: MW-34A**

Sample Date/Time: 11/09/2015 11:00 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-5		480-276063		11/20/2015 16:30	1	TAL BUF	GTG
A:8260C	280-76598-F-5		480-276063		11/20/2015 16:30	1	TAL BUF	GTG
P:5030C	280-76598-N-5		480-275301		11/17/2015 02:52	1	TAL BUF	SWO
A:8260C SIM	280-76598-N-5		480-275301		11/17/2015 02:52	1	TAL BUF	SWO
P:3005A	280-76598-D-5-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-5-B		280-305418	280-303477	11/23/2015 21:55	1	TAL DEN	LMT
P:3005A	280-76598-D-5-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-5-B		280-305592	280-303477	11/24/2015 22:00	1	TAL DEN	SJS
P:3005A	280-76598-C-5-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-5-B		280-305725	280-303919	11/26/2015 06:47	1	TAL DEN	SJS
P:3005A	280-76598-D-5-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-5-A		280-303766	280-303474	11/11/2015 22:26	1	TAL DEN	JM
P:3005A	280-76598-C-5-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-5-A		280-304248	280-303903	11/14/2015 00:25	1	TAL DEN	JM
P:3005A	280-76598-C-5-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-5-A		280-304486	280-303903	11/16/2015 18:55	1	TAL DEN	JM
P:3005A	280-76598-D-5-C		280-306812	280-306585	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-D-5-C		280-306812	280-306585	12/05/2015 04:54	1	TAL DEN	JM
A:300.0	280-76598-B-5		280-304836		11/20/2015 00:02	1	TAL DEN	TLP
A:350.1	280-76598-E-5		280-304100		11/13/2015 16:53	1	TAL DEN	KAM
A:353.2	280-76598-A-5		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-5		280-304200		11/13/2015 17:17	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-5		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-5		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-5		280-304498		11/16/2015 19:20	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-5 MS **Client ID: MW-34A**

Sample Date/Time: 11/09/2015 11:00 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-D-5-D MS		280-306812	280-306585	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-D-5-D MS		280-306812	280-306585	12/05/2015 05:01	1	TAL DEN	JM

Lab ID: 280-76598-5 MSD **Client ID: MW-34A**

Sample Date/Time: 11/09/2015 11:00 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-D-5-E MSD		280-306812	280-306585	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-D-5-E MSD		280-306812	280-306585	12/05/2015 05:05	1	TAL DEN	JM

Lab ID: 280-76598-6 **Client ID: MW-34C**

Sample Date/Time: 11/09/2015 11:50 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-6		480-276063		11/20/2015 16:54	1	TAL BUF	GTG
A:8260C	280-76598-F-6		480-276063		11/20/2015 16:54	1	TAL BUF	GTG
P:5030C	280-76598-J-6		480-275301		11/17/2015 03:16	1	TAL BUF	SWO
A:8260C SIM	280-76598-J-6		480-275301		11/17/2015 03:16	1	TAL BUF	SWO
P:3005A	280-76598-D-6-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-6-B		280-305418	280-303477	11/23/2015 21:58	1	TAL DEN	LMT
P:3005A	280-76598-D-6-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-6-B		280-305592	280-303477	11/24/2015 22:02	1	TAL DEN	SJS
P:3005A	280-76598-C-6-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-6-B		280-305725	280-303919	11/26/2015 06:49	1	TAL DEN	SJS
P:3005A	280-76598-D-6-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-6-A		280-303766	280-303474	11/11/2015 22:30	1	TAL DEN	JM
P:3005A	280-76598-C-6-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-6-A		280-304248	280-303903	11/14/2015 00:28	1	TAL DEN	JM
P:3005A	280-76598-C-6-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-6-A		280-304486	280-303903	11/16/2015 18:59	1	TAL DEN	JM
P:3005A	280-76598-C-6-C		280-306812	280-306582	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-6-C		280-306812	280-306582	12/05/2015 04:22	1	TAL DEN	JM
A:300.0	280-76598-A-6		280-304836		11/20/2015 00:20	1	TAL DEN	TLP
A:350.1	280-76598-E-6		280-304100		11/13/2015 16:55	1	TAL DEN	KAM
A:353.2	280-76598-A-6		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-B-6		280-304200		11/13/2015 17:27	1	TAL DEN	NAS
A:SM 2540C	280-76598-A-6		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-B-6		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-6		280-304498		11/16/2015 19:37	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-6 MS **Client ID: MW-34C**

Sample Date/Time: 11/09/2015 11:50 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-C-6-D MS		280-306812	280-306582	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-6-D MS		280-306812	280-306582	12/05/2015 04:29	1	TAL DEN	JM

Lab ID: 280-76598-6 MSD **Client ID: MW-34C**

Sample Date/Time: 11/09/2015 11:50 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76598-C-6-E MSD		280-306812	280-306582	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-6-E MSD		280-306812	280-306582	12/05/2015 04:32	1	TAL DEN	JM

Lab ID: 280-76598-8 **Client ID: MW-29A**

Sample Date/Time: 11/09/2015 12:35 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-F-8		480-276063		11/20/2015 17:18	1	TAL BUF	GTG
A:8260C	280-76598-F-8		480-276063		11/20/2015 17:18	1	TAL BUF	GTG
P:5030C	280-76598-K-8		480-275301		11/17/2015 03:40	1	TAL BUF	SWO
A:8260C SIM	280-76598-K-8		480-275301		11/17/2015 03:40	1	TAL BUF	SWO
P:3005A	280-76598-D-8-B		280-305418	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-8-B		280-305418	280-303477	11/23/2015 22:01	1	TAL DEN	LMT
P:3005A	280-76598-D-8-B		280-305592	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76598-D-8-B		280-305592	280-303477	11/24/2015 22:05	1	TAL DEN	SJS
P:3005A	280-76598-C-8-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76598-C-8-B		280-305725	280-303919	11/26/2015 06:52	1	TAL DEN	SJS
P:3005A	280-76598-D-8-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	280-76598-D-8-A		280-303766	280-303474	11/11/2015 22:33	1	TAL DEN	JM
P:3005A	280-76598-C-8-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-8-A		280-304248	280-303903	11/14/2015 00:32	1	TAL DEN	JM
P:3005A	280-76598-C-8-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-8-A		280-304486	280-303903	11/16/2015 19:02	1	TAL DEN	JM
A:300.0	280-76598-B-8		280-304836		11/20/2015 00:38	1	TAL DEN	TLP
A:350.1	280-76598-E-8		280-304100		11/13/2015 16:57	1	TAL DEN	KAM
A:353.2	280-76598-A-8		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	280-76598-A-8		280-304200		11/13/2015 17:37	1	TAL DEN	NAS
A:SM 2540C	280-76598-B-8		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	280-76598-A-8		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	280-76598-E-8		280-304498		11/16/2015 19:51	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: 280-76598-8 MS **Client ID: MW-29A**

Sample Date/Time: 11/09/2015 12:35 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76598-B-8 MS		280-304836		11/20/2015 01:14	1	TAL DEN	TLP

Lab ID: 280-76598-8 MSD **Client ID: MW-29A**

Sample Date/Time: 11/09/2015 12:35 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76598-B-8 MSD		280-304836		11/20/2015 01:31	1	TAL DEN	TLP

Lab ID: 280-76598-8 DU **Client ID: MW-29A**

Sample Date/Time: 11/09/2015 12:35 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76598-B-8 DU		280-304836		11/20/2015 00:56	1	TAL DEN	TLP

Lab ID: 280-76598-9 **Client ID: TRIP BLANK**

Sample Date/Time: 11/09/2015 00:00 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76598-A-9		480-276063		11/20/2015 17:42	1	TAL BUF	GTG
A:8260C	280-76598-A-9		480-276063		11/20/2015 17:42	1	TAL BUF	GTG
P:5030C	280-76598-C-9		480-275301		11/17/2015 04:04	1	TAL BUF	SWO
A:8260C SIM	280-76598-C-9		480-275301		11/17/2015 04:04	1	TAL BUF	SWO

Client: Waste Management Job Number: 280-76598-1

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:5030C	MB 480-276063/7		480-276063		11/20/2015 11:12	1	TAL BUF	GTG
A:8260C	MB 480-276063/7		480-276063		11/20/2015 11:12	1	TAL BUF	GTG
P:5030C	MB 480-275301/8		480-275301		11/17/2015 00:47	1	TAL BUF	SWO
A:8260C SIM	MB 480-275301/8		480-275301		11/17/2015 00:47	1	TAL BUF	SWO
P:3005A	MB 280-303477/1-A		280-305416	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	MB 280-303477/1-A		280-305416	280-303477	11/23/2015 17:24	1	TAL DEN	LMT
P:3005A	MB 280-303919/1-A		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	MB 280-303919/1-A		280-305725	280-303919	11/26/2015 05:39	1	TAL DEN	SJS
P:3005A	MB 280-303474/1-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	MB 280-303474/1-A		280-303766	280-303474	11/11/2015 21:43	1	TAL DEN	JM
P:3005A	MB 280-303903/1-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-303903/1-A		280-304248	280-303903	11/13/2015 23:42	1	TAL DEN	JM
P:3005A	MB 280-303903/1-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-303903/1-A		280-304486	280-303903	11/16/2015 18:12	1	TAL DEN	JM
P:3005A	MB 280-306582/1-A		280-306812	280-306582	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-306582/1-A		280-306812	280-306582	12/05/2015 04:15	1	TAL DEN	JM
P:3005A	MB 280-306585/1-A		280-306812	280-306585	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-306585/1-A		280-306812	280-306585	12/05/2015 04:47	1	TAL DEN	JM
A:300.0	MB 280-304836/6		280-304836		11/19/2015 12:26	1	TAL DEN	TLP
A:350.1	MB 280-304100/20		280-304100		11/13/2015 16:41	1	TAL DEN	KAM
A:350.1	MB 280-304100/61		280-304100		11/13/2015 18:03	1	TAL DEN	KAM
A:350.1	MB 280-304345/20		280-304345		11/16/2015 14:19	1	TAL DEN	KAM
A:353.2	MB 280-305435/1		280-305435		11/24/2015 10:02	1	TAL DEN	AJA
A:SM 2320B	MB 280-304200/5		280-304200		11/13/2015 15:42	1	TAL DEN	NAS
A:SM 2320B	MB 280-304200/31		280-304200		11/13/2015 18:04	1	TAL DEN	NAS
A:SM 2540C	MB 280-303408/1		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	MB 280-303574/1		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	MB 280-303962/4		280-303962		11/12/2015 15:02	1	TAL DEN	CCJ
A:SM 5310B	MB 280-303962/35		280-303962		11/12/2015 23:12	1	TAL DEN	CCJ
A:SM 5310B	MB 280-304498/19		280-304498		11/16/2015 18:00	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

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:5030C	LCS 480-276063/5		480-276063		11/20/2015 10:24	1	TAL BUF	GTG
A:8260C	LCS 480-276063/5		480-276063		11/20/2015 10:24	1	TAL BUF	GTG
P:5030C	LCS 480-275301/5		480-275301		11/16/2015 23:35	1	TAL BUF	SWO
A:8260C SIM	LCS 480-275301/5		480-275301		11/16/2015 23:35	1	TAL BUF	SWO
P:5030C	LCS 480-275301/29		480-275301		11/17/2015 08:54	1	TAL BUF	SWO
A:8260C SIM	LCS 480-275301/29		480-275301		11/17/2015 08:54	1	TAL BUF	SWO
P:5030C	LCS 480-275301/30		480-275301		11/17/2015 09:18	1	TAL BUF	SWO
A:8260C SIM	LCS 480-275301/30		480-275301		11/17/2015 09:18	1	TAL BUF	SWO
P:5030C	LCS 480-275301/31		480-275301		11/17/2015 09:42	1	TAL BUF	SWO
A:8260C SIM	LCS 480-275301/31		480-275301		11/17/2015 09:42	1	TAL BUF	SWO
P:5030C	LCS 480-275301/32		480-275301		11/17/2015 10:06	1	TAL BUF	SWO
A:8260C SIM	LCS 480-275301/32		480-275301		11/17/2015 10:06	1	TAL BUF	SWO
P:3005A	LCS 280-303477/2-A		280-305416	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	LCS 280-303477/2-A		280-305416	280-303477	11/23/2015 17:31	1	TAL DEN	LMT
P:3005A	LCS 280-303919/2-A		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	LCS 280-303919/2-A		280-305725	280-303919	11/26/2015 05:42	1	TAL DEN	SJS
P:3005A	LCS 280-303474/2-A		280-303766	280-303474	11/11/2015 14:30	1	TAL DEN	MLS
A:6020	LCS 280-303474/2-A		280-303766	280-303474	11/11/2015 21:47	1	TAL DEN	JM
P:3005A	LCS 280-303903/2-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-303903/2-A		280-304248	280-303903	11/13/2015 23:45	1	TAL DEN	JM
P:3005A	LCS 280-303903/2-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-303903/2-A		280-304486	280-303903	11/16/2015 18:16	1	TAL DEN	JM
P:3005A	LCS 280-306582/2-A		280-306812	280-306582	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-306582/2-A		280-306812	280-306582	12/05/2015 04:18	1	TAL DEN	JM
P:3005A	LCS 280-306585/2-A		280-306812	280-306585	12/04/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-306585/2-A		280-306812	280-306585	12/05/2015 04:50	1	TAL DEN	JM
A:300.0	LCS 280-304836/4		280-304836		11/19/2015 11:50	1	TAL DEN	TLP
A:350.1	LCS 280-304100/18		280-304100		11/13/2015 16:37	1	TAL DEN	KAM
A:350.1	LCS 280-304100/59		280-304100		11/13/2015 17:59	1	TAL DEN	KAM
A:350.1	LCS 280-304345/18		280-304345		11/16/2015 14:15	1	TAL DEN	KAM
A:SM 2320B	LCS 280-304200/4		280-304200		11/13/2015 15:37	1	TAL DEN	NAS
A:SM 2320B	LCS 280-304200/30		280-304200		11/13/2015 17:59	1	TAL DEN	NAS
A:SM 2540C	LCS 280-303408/2		280-303408		11/10/2015 15:18	1	TAL DEN	RSM
A:SM 2540D	LCS 280-303574/2		280-303574		11/11/2015 12:32	1	TAL DEN	CML
A:SM 5310B	LCS 280-303962/3		280-303962		11/12/2015 14:45	1	TAL DEN	CCJ
A:SM 5310B	LCS 280-303962/34		280-303962		11/12/2015 22:57	1	TAL DEN	CCJ
A:SM 5310B	LCS 280-304498/18		280-304498		11/16/2015 17:46	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

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
P:5030C	LCSD 480-275301/6		480-275301		11/16/2015 23:59	1	TAL BUF	SWO
A:8260C SIM	LCSD 480-275301/6		480-275301		11/16/2015 23:59	1	TAL BUF	SWO
A:300.0	LCSD 280-304836/5		280-304836		11/19/2015 12:08	1	TAL DEN	TLP
A:350.1	LCSD 280-304100/19		280-304100		11/13/2015 16:39	1	TAL DEN	KAM
A:350.1	LCSD 280-304100/60		280-304100		11/13/2015 18:01	1	TAL DEN	KAM
A:350.1	LCSD 280-304345/19		280-304345		11/16/2015 14:17	1	TAL DEN	KAM

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 280-304836/3		280-304836		11/19/2015 11:32	1	TAL DEN	TLP

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/10/2015 13:30 Received Date/Time: 11/11/2015 01:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90816-V-1 MS		480-276063		11/20/2015 18:54	20	TAL BUF	GTG
A:8260C	480-90816-V-1 MS		480-276063		11/20/2015 18:54	20	TAL BUF	GTG
P:3005A	280-76394-D-1-B MS		280-305416	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76394-D-1-B MS		280-305416	280-303477	11/23/2015 20:56	1	TAL DEN	LMT
P:3005A	280-76636-B-1-C MS		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76636-B-1-C MS		280-305725	280-303919	11/26/2015 05:50	1	TAL DEN	SJS
A:SM 5310B	280-76511-D-7 MS		280-304498		11/16/2015 18:50	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 11/10/2015 13:30 Received Date/Time: 11/11/2015 01:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-90816-V-1 MSD		480-276063		11/20/2015 19:17	20	TAL BUF	GTG
A:8260C	480-90816-V-1 MSD		480-276063		11/20/2015 19:17	20	TAL BUF	GTG
P:3005A	280-76394-D-1-C MSD		280-305416	280-303477	11/12/2015 08:35	1	TAL DEN	TEB
A:6010B	280-76394-D-1-C MSD		280-305416	280-303477	11/23/2015 20:58	1	TAL DEN	LMT
P:3005A	280-76636-B-1-D MSD		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76636-B-1-D MSD		280-305725	280-303919	11/26/2015 05:53	1	TAL DEN	SJS
A:SM 5310B	280-76511-D-7 MSD		280-304498		11/16/2015 19:05	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76598-1

Laboratory Chronicle

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 11/09/2015 10:20 Received Date/Time: 11/10/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-76584-A-1 DU		280-304200		11/13/2015 15:53	1	TAL DEN	NAS

Lab References:
TAL BUF = TestAmerica Buffalo
TAL DEN = TestAmerica Denver

America Denver
Yarrow Street
vada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

808774773178

Client Information	Sampler: Sam G & Brad O.	Lab PM: Sara, Betsy A	Carrier Tracking No(s): 808774773156 808774773167	COC No: 280-17318-3224.1
Client Contact: Mr. Patrick Madej	Phone: (612) 940-2980	E-Mail: betsy.sara@testamericainc.com		Page: 1 of 1
Company: Waste Management				Job #: 01204027.18
Address: 2615 Davis Street	Due Date Requested: Standard			
City: San Leandro	TAT Requested (days): Standard			
State, Zip: CA, 94577	PO #:			
Phone: 925-766-2502	WO #:			
Email: Dvecchiarutti@scsengineers.com				
Project Name: WA02|Olympic View Sanitary LF Event Desc: Quarterly GW Appl/II - Mar Jun Sep Dec	Project #: 28002692			
Site: Washington	SSOW#:			

280-76598 Chain of Custody

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	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)	TDS/Alks/Cl/SO4/NO3(cad)	Dissolved Metals	Ammonia/TOC	8260B - long list (TA Buffalo)	8260B SIM (TA Buffalo)	Total Metals	TSS	Dissolved Arsenic (direct sub to ARI)	Total Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	A	D	N	D	D		
MW-43	11/9/15	1115	G	W	Y	N	X	X	X	X	X	X	X	X	X	11	Short Hold: NO3(cad)
MW-29A		1235															Arsenic - Direct sub to ARI
MW-42		1338															
MW-20		1508															
MW-42 (Dup 1)		1338															
MW-34A		1100															
MW-34C		1150															
trip blank										X							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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	Sam Graber	11/9/15 1600	SCS		11/10/15 925	DHO
2	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 763711, 763712, 763713

Cooler Temperature(s) °C and Other Remarks: 4.6, 3.0, 1.8 +0.1 IR#5 DW 11/10/15

12/09/2015

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-328780.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 280-76598-1

Address: 10 Hazelwood Drive, ,	Due Date Requested: 11/27/2015
City: Amherst	TAT Requested (days):
State, Zip: NY, 14228-2298	
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	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)	8260C/5030C (MOD) Appendix II Volatiles	8260C_SIM/5030C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-43 (280-76598-1)	11/9/15	11:15 Pacific		Water			X	X	6	
MW-42 (280-76598-2)	11/9/15	13:38 Pacific		Water			X	X	6	
MW-20 (280-76598-3)	11/9/15	15:08 Pacific		Water			X	X	5	
MW-42 (DUP1) (280-76598-4)	11/9/15	13:38 Pacific		Water			X	X	6	
MW-34A (280-76598-5)	11/9/15	11:00 Pacific		Water			X	X	6	
MW-34C (280-76598-6)	11/9/15	11:50 Pacific		Water			X	X	5	
MW-29A (280-76598-8)	11/9/15	12:35 Pacific		Water			X	X	6	
TRIP BLANK (280-76598-9)	11/9/15	Pacific		Water			X	X	6	

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
	11/10/15 @1500	TAD		11/11/15 1600	TAD Lab
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.0°C

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12/09/2015

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-76598-1

Login Number: 76598
List Number: 1
Creator: White, Denise E

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-76598-1

Login Number: 76598
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 11/11/15 05:10 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	3.0 #1
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.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-76667-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
Sun Valley Hauling
9081 Tujunga Avenue
Sun Valley, CA 91352

Attention: Mr. Phil Perley

Approved for release.
Betsy A Sara
Project Manager II
12/2/2015 4:09 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/02/2015

cc: 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 4025.

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: 280-76667-1

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 11/11/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.0º C and 4.7º 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)

The Method 8260C LCS recoveries for Acrolein and Dichlorofluoromethane were above control limits. Because the data are considered to be biased high and all associated samples were non-detect above the reporting limits for Acrolein and Dichlorofluoromethane, corrective action was deemed unnecessary.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The percent recoveries and/or relative percent difference of the MS/MSD performed on sample MW-42 (76598) were outside control limits for Total Manganese Method 6020 because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

All other MS and MSD samples were within established control limits.

Sample Duplicate

The RPD results for Total Alkalinity and Bicarbonate Alkalinity Method 2320B performed on a sample from another client were outside control limits. Because all other QC and calibration criteria were met no corrective action was needed.

Organics

The analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limits for the analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether is not reliable or defensible.

Metals

The Method 6020 instrument blank for analytical batch 280-305046 contained Dissolved Manganese greater than the reporting limit (RL). Reanalysis was not performed because the associated samples are either below the RL greater than ten times the blank concentration level.

General Comments

The analyses for Volatile Organics by Method 8260C and Volatile Organics by Method 8260C 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: 280-76667-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76667-1	**MW-35**					
Vinyl chloride		0.0086	J	0.020	ug/L	8260C SIM
Chloride		1.8		1.0	mg/L	300.0
Sulfate		2.5		1.0	mg/L	300.0
Nitrate as N		0.41		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		75		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		75		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		98		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		15		0.040	mg/L	6010B
Magnesium, Dissolved		9.3		0.050	mg/L	6010B
Sodium, Dissolved		5.5		1.0	mg/L	6010B
Barium, Dissolved		0.0042		0.0010	mg/L	6020
Vanadium, Dissolved		0.0043		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0030		0.0010	mg/L	6020
Vanadium, Total		0.0043		0.0020	mg/L	6020
280-76667-2	**MW-13A**					
Chloride		1.9		1.0	mg/L	300.0
Sulfate		2.1		1.0	mg/L	300.0
Nitrate as N		0.44		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		81		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		81		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		15		0.040	mg/L	6010B
Magnesium, Dissolved		9.1		0.050	mg/L	6010B
Sodium, Dissolved		5.4		1.0	mg/L	6010B
Barium, Dissolved		0.0033		0.0010	mg/L	6020
Vanadium, Dissolved		0.0042		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0030		0.0010	mg/L	6020
Vanadium, Total		0.0040		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76667-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76667-3	**MW-13B**					
Vinyl chloride		0.0067	J	0.020	ug/L	8260C SIM
Chloride		2.0		1.0	mg/L	300.0
Sulfate		3.2		1.0	mg/L	300.0
Nitrate as N		0.45		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		79		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		79		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		17		0.040	mg/L	6010B
Magnesium, Dissolved		8.6		0.050	mg/L	6010B
Sodium, Dissolved		5.2		1.0	mg/L	6010B
Barium, Dissolved		0.0039		0.0010	mg/L	6020
Chromium, Dissolved		0.0031		0.0030	mg/L	6020
Vanadium, Dissolved		0.0057		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0036		0.0010	mg/L	6020
Chromium, Total		0.0033		0.0030	mg/L	6020
Vanadium, Total		0.0058		0.0020	mg/L	6020
280-76667-4	**MW-23A**					
Vinyl chloride		0.011	J	0.020	ug/L	8260C SIM
Chloride		2.6		1.0	mg/L	300.0
Sulfate		3.9		1.0	mg/L	300.0
Ammonia (as N)		0.034		0.030	mg/L	350.1
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		22		0.040	mg/L	6010B
Iron, Dissolved		0.81		0.060	mg/L	6010B
Magnesium, Dissolved		11		0.050	mg/L	6010B
Sodium, Dissolved		6.2		1.0	mg/L	6010B
Barium, Dissolved		0.013		0.0010	mg/L	6020
Manganese, Dissolved		2.5	^	0.0010	mg/L	6020
Total Recoverable						
Iron, Total		1.3		0.060	mg/L	6010B
Barium, Total		0.013		0.0010	mg/L	6020
Manganese, Total		2.5		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76667-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76667-5	**MW-2B1**					
Vinyl chloride		0.0044	J	0.020	ug/L	8260C SIM
Chloride		1.4		1.0	mg/L	300.0
Sulfate		2.4		1.0	mg/L	300.0
Ammonia (as N)		0.11		0.030	mg/L	350.1
Nitrate as N		1.3		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		36		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		36		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		68		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		9.1		0.040	mg/L	6010B
Magnesium, Dissolved		3.2		0.050	mg/L	6010B
Sodium, Dissolved		2.5		1.0	mg/L	6010B
Barium, Dissolved		0.0045		0.0010	mg/L	6020
Manganese, Dissolved		0.64	^	0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.20		0.060	mg/L	6010B
Barium, Total		0.0047		0.0010	mg/L	6020
Manganese, Total		0.70		0.0010	mg/L	6020
280-76667-6FD	**DUP2**					
Vinyl chloride		0.0044	J	0.020	ug/L	8260C SIM
Chloride		1.4		1.0	mg/L	300.0
Sulfate		2.4		1.0	mg/L	300.0
Ammonia (as N)		0.11		0.030	mg/L	350.1
Nitrate as N		1.3		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		36		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		36		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		62		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		9.4		0.040	mg/L	6010B
Magnesium, Dissolved		3.3		0.050	mg/L	6010B
Sodium, Dissolved		2.6		1.0	mg/L	6010B
Barium, Dissolved		0.0037		0.0010	mg/L	6020
Manganese, Dissolved		0.63	^	0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.21		0.060	mg/L	6010B
Barium, Total		0.0048		0.0010	mg/L	6020
Manganese, Total		0.69		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management Job Number: 280-76667-1

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	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260C SIM	
Purge and Trap	TAL BUF		SW846 5030C

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: 280-76667-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C SIM	Fortain, Gerald V	GVF
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Mooney, Joseph C	JM
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Moore, Kevin A	KAM
EPA 353.2	Allen, Andrew J	AJA
SM SM 2320B	Simons, Nicole A	NAS
SM SM 2540C	Martinez, Rut S	RSM
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management Job Number: 280-76667-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-76667-1	MW-35	Water	11/10/2015 0924	11/11/2015 0945
280-76667-2	MW-13A	Water	11/10/2015 1030	11/11/2015 0945
280-76667-3	MW-13B	Water	11/10/2015 1120	11/11/2015 0945
280-76667-4	MW-23A	Water	11/10/2015 1303	11/11/2015 0945
280-76667-5	MW-2B1	Water	11/10/2015 1440	11/11/2015 0945
280-76667-6FD	DUP2	Water	11/10/2015 0000	11/11/2015 0945
280-76667-7TB	TRIP BLANK	Water	11/10/2015 0000	11/11/2015 0945

SAMPLE RESULTS

Client: Waste Management Job Number: 280-76667-1

Client Sample ID: MW-35

Lab Sample ID: 280-76667-1 Date Sampled: 11/10/2015 0924
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1967.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2249			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2249				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: MW-35

Lab Sample ID: 280-76667-1 Date Sampled: 11/10/2015 0924
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1967.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2249			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2249				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-76667-1
Client Matrix: Water

Date Sampled: 11/10/2015 0924
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1967.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2249			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2249				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-76667-1
Client Matrix: Water

Date Sampled: 11/10/2015 0924
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1967.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2249			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2249				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management Job Number: 280-76667-1

Client Sample ID: MW-13A

Lab Sample ID: 280-76667-2 Date Sampled: 11/10/2015 1030
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1968.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2313			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2313				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2 | Date Sampled: 11/10/2015 1030
Client Matrix: Water | Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1968.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2313			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2313				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2
Client Matrix: Water

Date Sampled: 11/10/2015 1030
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1968.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2313			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2313				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2
Client Matrix: Water

Date Sampled: 11/10/2015 1030
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1968.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2313			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2313				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-13B**

Lab Sample ID: 280-76667-3 Date Sampled: 11/10/2015 1120
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1969.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2337			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2337				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: MW-13B

Lab Sample ID: 280-76667-3 Date Sampled: 11/10/2015 1120
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1969.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2337			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2337				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-76667-3
Client Matrix: Water

Date Sampled: 11/10/2015 1120
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1969.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2337			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2337				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-76667-3
Client Matrix: Water

Date Sampled: 11/10/2015 1120
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1969.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2337			Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2337				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-23A**

Lab Sample ID: 280-76667-4 Date Sampled: 11/10/2015 1303
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1970.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0001			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0001				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1970.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0001			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0001				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1970.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0001			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0001				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1970.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0001			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0001				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management Job Number: 280-76667-1

Client Sample ID: MW-2B1

Lab Sample ID: 280-76667-5 Date Sampled: 11/10/2015 1440
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1971.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0025			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0025				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: MW-2B1

Lab Sample ID: 280-76667-5 Date Sampled: 11/10/2015 1440
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1971.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0025			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0025				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-76667-5
Client Matrix: Water

Date Sampled: 11/10/2015 1440
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1971.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0025			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0025				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-76667-5
Client Matrix: Water

Date Sampled: 11/10/2015 1440
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1971.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0025			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0025				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **DUP2**

Lab Sample ID: 280-76667-6FD Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1972.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0048			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0048				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **DUP2**

Lab Sample ID: 280-76667-6FD Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1972.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0048			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0048				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: DUP2

Lab Sample ID: 280-76667-6FD Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1972.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0048			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0048				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management Job Number: 280-76667-1

Client Sample ID: DUP2

Lab Sample ID: 280-76667-6FD Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1972.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0048			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0048				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76667-7TB Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1973.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0112			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0112				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND	*	0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76667-7TB
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1973.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0112			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0112				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76667-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76667-7TB
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1973.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0112			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0112				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76667-7TB
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T1973.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/21/2015 0112			Final Weight/Volume:	5 mL
Prep Date:	11/21/2015 0112				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-76667-1
Client Matrix: Water

Date Sampled: 11/10/2015 0924
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7369.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0359			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0359				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0086	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	99		50 - 150
TBA-d9 (Surr)	86		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2
Client Matrix: Water

Date Sampled: 11/10/2015 1030
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7370.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0423			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	99		50 - 150
TBA-d9 (Surr)	84		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-13B

Lab Sample ID: 280-76667-3
Client Matrix: Water

Date Sampled: 11/10/2015 1120
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7371.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0447			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0447				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0067	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	100		50 - 150
TBA-d9 (Surr)	84		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-23A

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7372.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0511			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0511				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.011	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	100		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-76667-5
Client Matrix: Water

Date Sampled: 11/10/2015 1440
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7373.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0535			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0535				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0044	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	101		50 - 150
TBA-d9 (Surr)	93		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: DUP2

Lab Sample ID: 280-76667-6FD
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7374.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0559			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0559				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0044	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	99		50 - 150
TBA-d9 (Surr)	88		50 - 150

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76667-7TB
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7375.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 0624			Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 0624				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	100		50 - 150
TBA-d9 (Surr)	86		50 - 150

Client Sample ID: **MW-35**

Lab Sample ID: 280-76667-1 Date Sampled: 11/10/2015 0924
Client Matrix: Water Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0613			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2015 2344			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	15		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	9.3		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	5.5		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	087SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0035			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0030		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
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	0.0043		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-35

Lab Sample ID: 280-76667-1
Client Matrix: Water

Date Sampled: 11/10/2015 0924
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	068SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1906			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	078SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 1942			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Barium, Dissolved	0.0042		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	0.0043		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-306132	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	105SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2015 2235			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2 Date Sampled: 11/10/2015 1030
Client Matrix: Water Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0615			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0044			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	15		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	9.1		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	5.4		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	088SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0039			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0030		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
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	0.0040		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-76667-2
Client Matrix: Water

Date Sampled: 11/10/2015 1030
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	069SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1909			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	083SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 2000			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0033		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	0.0042		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-13B

Lab Sample ID: 280-76667-3
Client Matrix: Water

Date Sampled: 11/10/2015 1120
Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0618			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0023			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				

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
Magnesium, Dissolved	8.6		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	5.2		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	091SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0050			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0036		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0033		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
Silver, Total	ND		0.0020	0.0020
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	0.0058		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-13B

Lab Sample ID: 280-76667-3
Client Matrix: Water

Date Sampled: 11/10/2015 1120
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	070SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1913			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	086SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 2011			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

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	0.0031		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	0.0057		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-23A**

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0620			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	1.3		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0026			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	22		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.81		0.060	0.060
Magnesium, Dissolved	11		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	6.2		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	092SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0053			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.013		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	2.5		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: MW-23A

Lab Sample ID: 280-76667-4
Client Matrix: Water

Date Sampled: 11/10/2015 1303
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	073SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1923			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	087SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 2014			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.013		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	2.5	^	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 Sample ID: **MW-2B1**

Lab Sample ID: 280-76667-5 Date Sampled: 11/10/2015 1440
Client Matrix: Water Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0623			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.20		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0029			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	9.1		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	3.2		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	2.5		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	093SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0057			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0047		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	0.70		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Client: Waste Management

Job Number: 280-76667-1

Client Sample ID: **MW-2B1**

Lab Sample ID: 280-76667-5
Client Matrix: Water

Date Sampled: 11/10/2015 1440
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	074SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1927			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	088SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 2018			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0045		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
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 Sample ID: **DUP2**

Lab Sample ID: 280-76667-6FD
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-305725	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0635			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.21		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-305732	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0031			Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 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	ND		0.060	0.060
Magnesium, Dissolved	3.3		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	2.6		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304248	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	094SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0100			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0048		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	0.69		0.0010	0.0010
Nickel, Total	ND		0.0040	0.0040
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

Client Sample ID: **DUP2**

Lab Sample ID: 280-76667-6FD
Client Matrix: Water

Date Sampled: 11/10/2015 0000
Date Received: 11/11/2015 0945

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-304486	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-303903	Lab File ID:	075SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1931			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				

Analyte	Result (mg/L)	Qualifier	RL	RL
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305046	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304372	Lab File ID:	089SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 2022			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				

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	ND		0.0030	0.0030
Copper, Dissolved	ND		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Manganese, Dissolved	0.63	^	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-35

Lab Sample ID: 280-76667-1 Date Sampled: 11/10/2015 0924
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2034						
Sulfate	2.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2034						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1650						
Nitrate as N	0.41		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	75		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1359						
Alkalinity, Bicarbonate (As CaCO3)	75		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1359						
Total Dissolved Solids (TDS)	98		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0321						

General Chemistry

Client Sample ID: MW-13A

Lab Sample ID: 280-76667-2 Date Sampled: 11/10/2015 1030
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2049						
Sulfate	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2049						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1652						
Nitrate as N	0.44		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	81		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1409						
Alkalinity, Bicarbonate (As CaCO3)	81		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1409						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0405						

General Chemistry

Client Sample ID: MW-13B

Lab Sample ID: 280-76667-3 Date Sampled: 11/10/2015 1120
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2105						
Sulfate	3.2		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2105						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1654						
Nitrate as N	0.45		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1414						
Alkalinity, Bicarbonate (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1414						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0420						

General Chemistry

Client Sample ID: MW-23A

Lab Sample ID: 280-76667-4 Date Sampled: 11/10/2015 1303
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.6		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2151						
Sulfate	3.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2151						
Ammonia (as N)	0.034		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1656						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1418						
Alkalinity, Bicarbonate (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1418						
Total Dissolved Solids (TDS)	140		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0434						

General Chemistry

Client Sample ID: MW-2B1

Lab Sample ID: 280-76667-5 Date Sampled: 11/10/2015 1440
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2207						
Sulfate	2.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2207						
Ammonia (as N)	0.11		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1658						
Nitrate as N	1.3		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1334						
Alkalinity, Bicarbonate (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1334						
Total Dissolved Solids (TDS)	68		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0451						

General Chemistry

Client Sample ID: DUP2

Lab Sample ID: 280-76667-6FD Date Sampled: 11/10/2015 0000
Client Matrix: Water Date Received: 11/11/2015 0945

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2222						
Sulfate	2.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305028	Analysis Date: 11/20/2015 2222						
Ammonia (as N)	0.11		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304345	Analysis Date: 11/16/2015 1700						
Nitrate as N	1.3		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305439	Analysis Date: 11/24/2015 1016						
Alkalinity, Total (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1338						
Alkalinity, Bicarbonate (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304445	Analysis Date: 11/16/2015 1338						
Total Dissolved Solids (TDS)	62		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-303847	Analysis Date: 11/12/2015 1505						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304071	Analysis Date: 11/13/2015 1605						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304498	Analysis Date: 11/17/2015 0506						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-76667-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F3	Duplicate RPD exceeds the control limit

QUALITY CONTROL RESULTS

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-275522					
LCS 480-275522/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-275522/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-275522/8	Method Blank	T	Water	8260C SIM	
280-76667-1	MW-35	T	Water	8260C SIM	
280-76667-2	MW-13A	T	Water	8260C SIM	
280-76667-3	MW-13B	T	Water	8260C SIM	
280-76667-4	MW-23A	T	Water	8260C SIM	
280-76667-5	MW-2B1	T	Water	8260C SIM	
280-76667-6FD	DUP2	T	Water	8260C SIM	
280-76667-7TB	TRIP BLANK	T	Water	8260C SIM	
Analysis Batch:480-276242					
LCS 480-276242/5	Lab Control Sample	T	Water	8260C	
MB 480-276242/7	Method Blank	T	Water	8260C	
280-76667-1	MW-35	T	Water	8260C	
280-76667-2	MW-13A	T	Water	8260C	
280-76667-3	MW-13B	T	Water	8260C	
280-76667-4	MW-23A	T	Water	8260C	
280-76667-5	MW-2B1	T	Water	8260C	
280-76667-6FD	DUP2	T	Water	8260C	
280-76667-7TB	TRIP BLANK	T	Water	8260C	

Report Basis
T = Total

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-303903					
LCS 280-303903/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303903/1-A	Method Blank	R	Water	3005A	
280-76598-C-2-B MS	Matrix Spike	R	Water	3005A	
280-76598-C-2-C MSD	Matrix Spike Duplicate	R	Water	3005A	
280-76667-1	MW-35	R	Water	3005A	
280-76667-2	MW-13A	R	Water	3005A	
280-76667-3	MW-13B	R	Water	3005A	
280-76667-4	MW-23A	R	Water	3005A	
280-76667-5	MW-2B1	R	Water	3005A	
280-76667-6FD	DUP2	R	Water	3005A	
Prep Batch: 280-303919					
LCS 280-303919/2-A	Lab Control Sample	R	Water	3005A	
MB 280-303919/1-A	Method Blank	R	Water	3005A	
280-76636-B-1-C MS	Matrix Spike	R	Water	3005A	
280-76636-B-1-D MSD	Matrix Spike Duplicate	R	Water	3005A	
280-76667-1	MW-35	R	Water	3005A	
280-76667-2	MW-13A	R	Water	3005A	
280-76667-3	MW-13B	R	Water	3005A	
280-76667-4	MW-23A	R	Water	3005A	
280-76667-5	MW-2B1	R	Water	3005A	
280-76667-6FD	DUP2	R	Water	3005A	
Analysis Batch:280-304248					
LCS 280-303903/2-A	Lab Control Sample	R	Water	6020	280-303903
MB 280-303903/1-A	Method Blank	R	Water	6020	280-303903
280-76598-C-2-B MS	Matrix Spike	R	Water	6020	280-303903
280-76598-C-2-C MSD	Matrix Spike Duplicate	R	Water	6020	280-303903
280-76667-1	MW-35	R	Water	6020	280-303903
280-76667-2	MW-13A	R	Water	6020	280-303903
280-76667-3	MW-13B	R	Water	6020	280-303903
280-76667-4	MW-23A	R	Water	6020	280-303903
280-76667-5	MW-2B1	R	Water	6020	280-303903
280-76667-6FD	DUP2	R	Water	6020	280-303903

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-304369					
LCS 280-304369/2-A	Lab Control Sample	R	Water	3005A	
MB 280-304369/1-A	Method Blank	R	Water	3005A	
280-76667-1	MW-35	D	Water	3005A	
280-76667-1MS	Matrix Spike	D	Water	3005A	
280-76667-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76667-2	MW-13A	D	Water	3005A	
280-76667-3	MW-13B	D	Water	3005A	
280-76667-4	MW-23A	D	Water	3005A	
280-76667-5	MW-2B1	D	Water	3005A	
280-76667-6FD	DUP2	D	Water	3005A	
Prep Batch: 280-304372					
LCS 280-304372/2-A	Lab Control Sample	R	Water	3005A	
MB 280-304372/1-A	Method Blank	R	Water	3005A	
280-76667-1	MW-35	D	Water	3005A	
280-76667-1MS	Matrix Spike	D	Water	3005A	
280-76667-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76667-2	MW-13A	D	Water	3005A	
280-76667-3	MW-13B	D	Water	3005A	
280-76667-4	MW-23A	D	Water	3005A	
280-76667-5	MW-2B1	D	Water	3005A	
280-76667-6FD	DUP2	D	Water	3005A	
Analysis Batch:280-304486					
LCS 280-303903/2-A	Lab Control Sample	R	Water	6020	280-303903
MB 280-303903/1-A	Method Blank	R	Water	6020	280-303903
280-76598-C-2-B MS	Matrix Spike	R	Water	6020	280-303903
280-76598-C-2-C MSD	Matrix Spike Duplicate	R	Water	6020	280-303903
280-76667-1	MW-35	R	Water	6020	280-303903
280-76667-2	MW-13A	R	Water	6020	280-303903
280-76667-3	MW-13B	R	Water	6020	280-303903
280-76667-4	MW-23A	R	Water	6020	280-303903
280-76667-5	MW-2B1	R	Water	6020	280-303903
280-76667-6FD	DUP2	R	Water	6020	280-303903

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-305046					
LCS 280-304372/2-A	Lab Control Sample	R	Water	6020	280-304372
MB 280-304372/1-A	Method Blank	R	Water	6020	280-304372
280-76667-1	MW-35	D	Water	6020	280-304372
280-76667-1MS	Matrix Spike	D	Water	6020	280-304372
280-76667-1MSD	Matrix Spike Duplicate	D	Water	6020	280-304372
280-76667-2	MW-13A	D	Water	6020	280-304372
280-76667-3	MW-13B	D	Water	6020	280-304372
280-76667-4	MW-23A	D	Water	6020	280-304372
280-76667-5	MW-2B1	D	Water	6020	280-304372
280-76667-6FD	DUP2	D	Water	6020	280-304372
Analysis Batch:280-305725					
LCS 280-303919/2-A	Lab Control Sample	R	Water	6010B	280-303919
MB 280-303919/1-A	Method Blank	R	Water	6010B	280-303919
280-76636-B-1-C MS	Matrix Spike	R	Water	6010B	280-303919
280-76636-B-1-D MSD	Matrix Spike Duplicate	R	Water	6010B	280-303919
280-76667-1	MW-35	R	Water	6010B	280-303919
280-76667-2	MW-13A	R	Water	6010B	280-303919
280-76667-3	MW-13B	R	Water	6010B	280-303919
280-76667-4	MW-23A	R	Water	6010B	280-303919
280-76667-5	MW-2B1	R	Water	6010B	280-303919
280-76667-6FD	DUP2	R	Water	6010B	280-303919
Analysis Batch:280-305732					
LCS 280-304369/2-A	Lab Control Sample	R	Water	6010B	280-304369
MB 280-304369/1-A	Method Blank	R	Water	6010B	280-304369
280-76667-1	MW-35	D	Water	6010B	280-304369
280-76667-1MS	Matrix Spike	D	Water	6010B	280-304369
280-76667-1MSD	Matrix Spike Duplicate	D	Water	6010B	280-304369
280-76667-2	MW-13A	D	Water	6010B	280-304369
280-76667-3	MW-13B	D	Water	6010B	280-304369
280-76667-4	MW-23A	D	Water	6010B	280-304369
280-76667-5	MW-2B1	D	Water	6010B	280-304369
280-76667-6FD	DUP2	D	Water	6010B	280-304369
Analysis Batch:280-306132					
280-76667-1	MW-35	D	Water	6020	280-304372
280-76667-1MS	Matrix Spike	D	Water	6020	280-304372
280-76667-1MSD	Matrix Spike Duplicate	D	Water	6020	280-304372

Report Basis
D = Dissolved
R = Total Recoverable

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-303847					
LCS 280-303847/2	Lab Control Sample	T	Water	SM 2540C	
MB 280-303847/1	Method Blank	T	Water	SM 2540C	
280-76667-1	MW-35	T	Water	SM 2540C	
280-76667-1DU	Duplicate	T	Water	SM 2540C	
280-76667-2	MW-13A	T	Water	SM 2540C	
280-76667-3	MW-13B	T	Water	SM 2540C	
280-76667-4	MW-23A	T	Water	SM 2540C	
280-76667-5	MW-2B1	T	Water	SM 2540C	
280-76667-6FD	DUP2	T	Water	SM 2540C	
Analysis Batch:280-304071					
LCS 280-304071/1	Lab Control Sample	T	Water	SM 2540D	
MB 280-304071/2	Method Blank	T	Water	SM 2540D	
280-76667-1	MW-35	T	Water	SM 2540D	
280-76667-1DU	Duplicate	T	Water	SM 2540D	
280-76667-2	MW-13A	T	Water	SM 2540D	
280-76667-3	MW-13B	T	Water	SM 2540D	
280-76667-4	MW-23A	T	Water	SM 2540D	
280-76667-5	MW-2B1	T	Water	SM 2540D	
280-76667-6FD	DUP2	T	Water	SM 2540D	
Analysis Batch:280-304345					
LCS 280-304345/59	Lab Control Sample	T	Water	350.1	
LCSD 280-304345/60	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-304345/61	Method Blank	T	Water	350.1	
280-76663-C-10 MS	Matrix Spike	T	Water	350.1	
280-76663-C-10 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-76667-1	MW-35	T	Water	350.1	
280-76667-2	MW-13A	T	Water	350.1	
280-76667-3	MW-13B	T	Water	350.1	
280-76667-4	MW-23A	T	Water	350.1	
280-76667-5	MW-2B1	T	Water	350.1	
280-76667-6FD	DUP2	T	Water	350.1	

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304445					
LCS 280-304445/30	Lab Control Sample	T	Water	SM 2320B	
LCS 280-304445/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-304445/31	Method Blank	T	Water	SM 2320B	
MB 280-304445/5	Method Blank	T	Water	SM 2320B	
280-76667-1	MW-35	T	Water	SM 2320B	
280-76667-1DU	Duplicate	T	Water	SM 2320B	
280-76667-2	MW-13A	T	Water	SM 2320B	
280-76667-3	MW-13B	T	Water	SM 2320B	
280-76667-4	MW-23A	T	Water	SM 2320B	
280-76667-5	MW-2B1	T	Water	SM 2320B	
280-76667-6FD	DUP2	T	Water	SM 2320B	
Analysis Batch:280-304498					
LCS 280-304498/49	Lab Control Sample	T	Water	SM 5310B	
MB 280-304498/50	Method Blank	T	Water	SM 5310B	
280-76667-1	MW-35	T	Water	SM 5310B	
280-76667-1MS	Matrix Spike	T	Water	SM 5310B	
280-76667-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-76667-2	MW-13A	T	Water	SM 5310B	
280-76667-3	MW-13B	T	Water	SM 5310B	
280-76667-4	MW-23A	T	Water	SM 5310B	
280-76667-5	MW-2B1	T	Water	SM 5310B	
280-76667-6FD	DUP2	T	Water	SM 5310B	
Analysis Batch:280-304499					
LCS 280-304499/49	Lab Control Sample	T	Water	SM 5310B	
MB 280-304499/50	Method Blank	T	Water	SM 5310B	
280-76667-1	MW-35	T	Water	SM 5310B	
280-76667-1MS	Matrix Spike	T	Water	SM 5310B	
280-76667-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-76667-2	MW-13A	T	Water	SM 5310B	
280-76667-3	MW-13B	T	Water	SM 5310B	
280-76667-4	MW-23A	T	Water	SM 5310B	
280-76667-5	MW-2B1	T	Water	SM 5310B	
280-76667-6FD	DUP2	T	Water	SM 5310B	

Client: Waste Management Job Number: 280-76667-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-305028					
LCS 280-305028/4	Lab Control Sample	T	Water	300.0	
LCSD 280-305028/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-305028/6	Method Blank	T	Water	300.0	
280-76667-1	MW-35	T	Water	300.0	
280-76667-2	MW-13A	T	Water	300.0	
280-76667-3	MW-13B	T	Water	300.0	
280-76667-4	MW-23A	T	Water	300.0	
280-76667-5	MW-2B1	T	Water	300.0	
280-76667-6FD	DUP2	T	Water	300.0	
280-76667-6DU	Duplicate	T	Water	300.0	
280-76667-6MS	Matrix Spike	T	Water	300.0	
280-76667-6MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-305173					
LCS 280-305173/4	Lab Control Sample	T	Water	SM 2320B	
LCS 280-305173/56	Lab Control Sample	T	Water	SM 2320B	
MB 280-305173/5	Method Blank	T	Water	SM 2320B	
MB 280-305173/57	Method Blank	T	Water	SM 2320B	
280-76667-6FD	DUP2	T	Water	SM 2320B	
280-76919-A-6 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-305439					
MB 280-305439/1	Method Blank	T	Water	353.2	
280-76667-1	MW-35	T	Water	353.2	
280-76667-2	MW-13A	T	Water	353.2	
280-76667-3	MW-13B	T	Water	353.2	
280-76667-4	MW-23A	T	Water	353.2	
280-76667-5	MW-2B1	T	Water	353.2	
280-76667-6FD	DUP2	T	Water	353.2	

Report Basis
T = Total

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-76667-1	MW-35	108	94	99
280-76667-2	MW-13A	114	97	100
280-76667-3	MW-13B	112	94	96
280-76667-4	MW-23A	113	94	97
280-76667-5	MW-2B1	116	97	97
280-76667-6	DUP2	114	95	99
280-76667-7	TRIP BLANK	113	97	98
MB 480-276242/7		111	98	98
LCS 480-276242/5		107	102	100

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: 280-76667-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-76667-1	MW-35	99	86
280-76667-2	MW-13A	99	84
280-76667-3	MW-13B	100	84
280-76667-4	MW-23A	101	100
280-76667-5	MW-2B1	101	93
280-76667-6	DUP2	99	88
280-76667-7	TRIP BLANK	100	86
MB 480-275522/8		102	98
LCS 480-275522/5		105	117
LCSD 480-275522/6		105	117

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 480-276242

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276242/7	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1966.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2225	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2225				
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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76667-1

Method Blank - Batch: 480-276242

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276242/7	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1966.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2225	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2225				
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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 480-276242

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276242/7	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1966.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2225	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2225				
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)	111	66 - 137
4-Bromofluorobenzene (Surr)	98	73 - 120
Toluene-d8 (Surr)	98	71 - 126

Method Blank TICs- Batch: 480-276242

Cas Number	Analyte	RT	Est. Result (ug/	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-76667-1

Lab Control Sample - Batch: 480-276242

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-276242/5	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1964.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2138	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2138				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	25.0	24.9	100	76 - 122	
1,1,1-Trichloroethane	25.0	25.9	104	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	25.1	101	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.0	104	52 - 148	
1,1,2-Trichloroethane	25.0	25.9	104	76 - 122	
1,1-Dichloroethane	25.0	26.3	105	71 - 129	
1,1-Dichloroethene	25.0	25.7	103	58 - 121	
1,1-Dichloropropene	25.0	26.9	108	72 - 122	
1,2,3-Trichlorobenzene	25.0	24.2	97	63 - 138	
1,2,3-Trichloropropane	25.0	26.9	108	68 - 131	
1,2,4-Trichlorobenzene	25.0	24.7	99	70 - 122	
1,2,4-Trimethylbenzene	25.0	24.5	98	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	23.5	94	56 - 134	
1,2-Dibromoethane (EDB)	25.0	25.5	102	77 - 120	
1,2-Dichlorobenzene	25.0	24.0	96	80 - 124	
1,2-Dichloroethane	25.0	26.3	105	75 - 127	
1,2-Dichloroethene, Total	50.0	48.3	97	72 - 124	
1,2-Dichloropropane	25.0	24.9	99	76 - 120	
1,3,5-Trimethylbenzene	25.0	24.7	99	77 - 121	
1,3-Dichlorobenzene	25.0	24.0	96	77 - 120	
1,3-Dichloropropane	25.0	26.9	107	75 - 120	
1,4-Dichlorobenzene	25.0	24.4	98	75 - 120	
1,4-Dioxane	500	671	134	50 - 174	
2,2-Dichloropropane	25.0	26.0	104	63 - 136	
2-Butanone (MEK)	125	139	111	57 - 140	
2-Chloroethyl vinyl ether	25.0	24.3	97	70 - 129	
2-Hexanone	125	140	112	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	128	102	71 - 125	
Acetone	125	148	119	56 - 142	
Acrolein	125	243	195	52 - 161	*
Acrylonitrile	250	260	104	63 - 138	
Benzene	25.0	25.7	103	71 - 124	
Bromobenzene	25.0	23.3	93	78 - 120	
Bromochloromethane	25.0	24.6	98	72 - 130	
Bromodichloromethane	25.0	24.1	97	80 - 122	
Bromoform	25.0	21.7	87	52 - 132	
Bromomethane	25.0	33.1	132	55 - 144	
Butyl alcohol, tert-	250	300	120	75 - 125	
Carbon disulfide	25.0	25.3	101	59 - 134	
Carbon tetrachloride	25.0	25.3	101	72 - 134	
Chlorobenzene	25.0	25.5	102	72 - 120	
Chloroethane	25.0	33.9	135	69 - 136	
Chloroform	25.0	25.2	101	73 - 127	
Chloromethane	25.0	25.2	101	68 - 124	
cis-1,2-Dichloroethene	25.0	23.8	95	74 - 124	
cis-1,3-Dichloropropene	25.0	24.6	98	74 - 124	

Client: Waste Management

Job Number: 280-76667-1

Lab Control Sample - Batch: 480-276242

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-276242/5	Analysis Batch:	480-276242	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T1964.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2138	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/20/2015 2138				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyclohexane	25.0	24.0	96	59 - 135	
Dibromochloromethane	25.0	23.0	92	75 - 125	
Dibromomethane	25.0	26.3	105	76 - 127	
Dichlorodifluoromethane	25.0	24.8	99	59 - 135	
Dichlorofluoromethane	25.0	32.4	129	76 - 127	*
Ethyl ether	25.0	28.6	114	76 - 123	
Ethylbenzene	25.0	25.8	103	77 - 123	
Hexachlorobutadiene	25.0	27.7	111	68 - 131	
Hexane	25.0	27.0	108	54 - 152	
Iodomethane	25.0	25.1	100	78 - 123	
Isobutanol	625	713	114	51 - 153	
Isopropylbenzene	25.0	24.9	100	77 - 122	
Methyl acetate	125	139	111	74 - 133	
Methyl tert-butyl ether	25.0	25.7	103	64 - 127	
Methylcyclohexane	25.0	25.5	102	61 - 138	
Methylene Chloride	25.0	26.8	107	57 - 132	
m-Xylene & p-Xylene	25.0	24.6	99	76 - 122	
Naphthalene	25.0	23.3	93	66 - 125	
n-Butylbenzene	25.0	26.1	104	71 - 128	
N-Propylbenzene	25.0	25.4	102	75 - 127	
o-Chlorotoluene	25.0	24.9	100	76 - 121	
o-Xylene	25.0	24.3	97	76 - 122	
p-Chlorotoluene	25.0	25.5	102	77 - 121	
p-Cymene	25.0	24.9	100	73 - 120	
sec-Butylbenzene	25.0	24.6	98	74 - 127	
Styrene	25.0	25.2	101	70 - 130	
tert-Butylbenzene	25.0	24.4	98	75 - 123	
Tetrachloroethene	25.0	25.6	103	74 - 122	
Tetrahydrofuran	50.0	51.9	104	62 - 132	
Toluene	25.0	25.2	101	80 - 122	
trans-1,2-Dichloroethene	25.0	24.5	98	73 - 127	
trans-1,3-Dichloropropene	25.0	25.7	103	72 - 123	
trans-1,4-Dichloro-2-butene	25.0	19.7	79	38 - 155	
Trichloroethene	25.0	24.2	97	74 - 123	
Trichlorofluoromethane	25.0	30.1	120	62 - 152	
Vinyl acetate	50.0	46.2	92	50 - 144	
Vinyl chloride	25.0	26.4	105	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	100	71 - 126

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 480-275522

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	MB 480-275522/8	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7358.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 2312	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 2312				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	102	50 - 150
TBA-d9 (Surr)	98	50 - 150

Lab Control Sample - Batch: 480-275522

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	LCS 480-275522/5	Analysis Batch:	480-275522	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7355.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/17/2015 2159	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/17/2015 2159				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.214	107	50 - 150	

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	105	50 - 150
TBA-d9 (Surr)	117	50 - 150

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303919/1-A	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0539	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

Lab Control Sample - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303919/2-A	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0542	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.508	102	89 - 111	
Iron, Total	1.00	0.969	97	89 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76636-B-1-C MS	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0550			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76636-B-1-D MSD	Analysis Batch:	280-305725	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-303919	Lab File ID:	25d112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2015 0553			Final Weight/Volume:	50 mL
Prep Date:	11/16/2015 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	95	97	82 - 119	2	20		
Iron, Total	89	93	52 - 155	3	20		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303919

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76636-B-1-C MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/26/2015 0550		
Prep Date:	11/16/2015 1430		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76636-B-1-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/26/2015 0553
Prep Date:	11/16/2015 1430
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cobalt, Total	ND	0.500	0.500	0.473	0.484
Iron, Total	0.34	1.00	1.00	1.23	1.27

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-304369

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-304369/1-A	Analysis Batch:	280-305732	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2015 2339	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 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: 280-304369

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-304369/2-A	Analysis Batch:	280-305732	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-304369	Lab File ID:	25c112515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2015 2342	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/23/2015 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	48.0	96	90 - 111	
Cobalt, Dissolved	0.500	0.481	96	89 - 111	
Iron, Dissolved	1.00	0.942	94	89 - 115	
Magnesium, Dissolved	50.0	48.7	97	90 - 113	
Potassium, Dissolved	50.0	48.8	98	89 - 114	
Sodium, Dissolved	50.0	53.0	106	90 - 115	

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304369

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/25/2015 2352
Prep Date: 11/23/2015 0830
Leach Date: N/A

Analysis Batch: 280-305732
Prep Batch: 280-304369
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25c112515.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/25/2015 2359
Prep Date: 11/23/2015 0830
Leach Date: N/A

Analysis Batch: 280-305732
Prep Batch: 280-304369
Leach Batch: N/A

Instrument ID: MT_025
Lab File ID: 25c112515.asc
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	97	101	48 - 153	3	20		
Cobalt, Dissolved	100	100	82 - 119	0	20		
Iron, Dissolved	97	98	52 - 155	1	20		
Magnesium, Dissolved	100	101	62 - 146	1	20		
Potassium, Dissolved	103	105	76 - 132	2	20		
Sodium, Dissolved	111	112	70 - 203	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304369

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/25/2015 2352
Prep Date: 11/23/2015 0830
Leach Date: N/A

Units: mg/L

MSD Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/25/2015 2359
Prep Date: 11/23/2015 0830
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	15	50.0	50.0	63.3	65.0
Cobalt, Dissolved	ND	0.500	0.500	0.500	0.501
Iron, Dissolved	ND	1.00	1.00	0.974	0.984
Magnesium, Dissolved	9.3	50.0	50.0	59.2	59.7
Potassium, Dissolved	ND	50.0	50.0	51.3	52.3
Sodium, Dissolved	5.5	50.0	50.0	60.8	61.6

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303903/1-A	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	072_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2342	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, 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
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

Method Blank - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-303903/1-A	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	053_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1812	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Selenium, Total	ND		0.0010	0.0010

Client: Waste Management

Job Number: 280-76667-1

Lab Control Sample - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303903/2-A	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	073_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/13/2015 2345	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0368	92	85 - 115	
Barium, Total	0.0400	0.0409	102	85 - 118	
Beryllium, Total	0.0400	0.0405	101	80 - 125	
Cadmium, Total	0.0400	0.0418	105	85 - 115	
Chromium, Total	0.0400	0.0418	105	84 - 121	
Copper, Total	0.0400	0.0432	108	85 - 119	
Lead, Total	0.0400	0.0428	107	85 - 118	
Manganese, Total	0.0400	0.0418	104	85 - 117	
Nickel, Total	0.0400	0.0423	106	85 - 119	
Silver, Total	0.0400	0.0419	105	85 - 115	
Thallium, Total	0.0400	0.0425	106	85 - 118	
Vanadium, Total	0.0400	0.0414	103	85 - 120	
Zinc, Total	0.0400	0.0433	108	83 - 122	

Lab Control Sample - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-303903/2-A	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	054_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1816	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium, Total	0.0400	0.0389	97	77 - 122	

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-C-2-B MS	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	077SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0000			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-C-2-C MSD	Analysis Batch:	280-304248	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	078SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/14/2015 0003			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	101	100	85 - 115	1	20		
Barium, Total	97	98	85 - 118	0	20		
Beryllium, Total	106	104	80 - 125	2	20		
Cadmium, Total	103	104	85 - 115	1	20		
Chromium, Total	106	105	84 - 121	1	20		
Copper, Total	105	105	85 - 119	0	20		
Lead, Total	106	108	85 - 118	2	20		
Manganese, Total	130	41	85 - 117	1	20	4	4
Nickel, Total	108	109	85 - 119	1	20		
Silver, Total	107	106	85 - 115	1	20		
Thallium, Total	106	107	85 - 118	1	20		
Vanadium, Total	112	109	85 - 120	3	20		
Zinc, Total	104	105	83 - 122	1	20		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-C-2-B MS	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	058SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1830			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76598-C-2-C MSD	Analysis Batch:	280-304486	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-303903	Lab File ID:	059SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2015 1834			Final Weight/Volume:	50 mL
Prep Date:	11/13/2015 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Selenium, Total	99	96	77 - 122	3	20		

Client: Waste Management Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-C-2-B MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/14/2015 0000		
Prep Date:	11/13/2015 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76598-C-2-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/14/2015 0003
Prep Date:	11/13/2015 1400
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Total	ND	0.0400	0.0400	0.0406		0.0401	
Barium, Total	0.10	0.0400	0.0400	0.140		0.140	
Beryllium, Total	ND	0.0400	0.0400	0.0426		0.0417	
Cadmium, Total	ND	0.0400	0.0400	0.0413		0.0416	
Chromium, Total	ND	0.0400	0.0400	0.0425		0.0422	
Copper, Total	ND	0.0400	0.0400	0.0420		0.0421	
Lead, Total	ND	0.0400	0.0400	0.0426		0.0432	
Manganese, Total	4.2	0.0400	0.0400	4.23	4	4.20	4
Nickel, Total	ND	0.0400	0.0400	0.0432		0.0437	
Silver, Total	ND	0.0400	0.0400	0.0428		0.0424	
Thallium, Total	ND	0.0400	0.0400	0.0424		0.0430	
Vanadium, Total	ND	0.0400	0.0400	0.0449		0.0437	
Zinc, Total	ND	0.0400	0.0400	0.0416		0.0419	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-303903

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76598-C-2-B MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/16/2015 1830		
Prep Date:	11/13/2015 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76598-C-2-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/16/2015 1834
Prep Date:	11/13/2015 1400
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Selenium, Total	ND	0.0400	0.0400	0.0394	0.0384

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 280-304372

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-304372/1-A	Analysis Batch:	280-305046	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304372	Lab File ID:	076_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 1935	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				
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: 280-304372

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-304372/2-A	Analysis Batch:	280-305046	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304372	Lab File ID:	077_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2015 1939	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0373	93	85 - 115	
Barium, Dissolved	0.0400	0.0433	108	85 - 118	
Beryllium, Dissolved	0.0400	0.0402	101	80 - 125	
Cadmium, Dissolved	0.0400	0.0414	103	85 - 115	
Chromium, Dissolved	0.0400	0.0417	104	84 - 121	
Copper, Dissolved	0.0400	0.0412	103	85 - 119	
Lead, Dissolved	0.0400	0.0432	108	85 - 118	
Manganese, Dissolved	0.0400	0.0425	106	85 - 117	
Nickel, Dissolved	0.0400	0.0418	105	85 - 119	
Selenium, Dissolved	0.0400	0.0399	100	77 - 122	
Silver, Dissolved	0.0400	0.0420	105	85 - 115	
Thallium, Dissolved	0.0400	0.0421	105	85 - 118	
Vanadium, Dissolved	0.0400	0.0410	103	85 - 120	
Zinc, Dissolved	0.0400	0.0415	104	83 - 122	

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304372

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/19/2015 1950
Prep Date: 11/19/2015 0815
Leach Date: N/A

Analysis Batch: 280-305046
Prep Batch: 280-304372
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 080SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76667-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/19/2015 1953
Prep Date: 11/19/2015 0815
Leach Date: N/A

Analysis Batch: 280-305046
Prep Batch: 280-304372
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 081SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium, Dissolved	101	101	85 - 118	1	20		
Beryllium, Dissolved	99	101	80 - 125	2	20		
Cadmium, Dissolved	101	103	85 - 115	2	20		
Chromium, Dissolved	108	109	84 - 121	1	20		
Copper, Dissolved	100	101	85 - 119	1	20		
Lead, Dissolved	107	107	85 - 118	0	20		
Manganese, Dissolved	103	103	85 - 117	0	20		
Nickel, Dissolved	102	101	85 - 119	1	20		
Selenium, Dissolved	97	97	77 - 122	0	20		
Silver, Dissolved	103	102	85 - 115	1	20		
Thallium, Dissolved	106	106	85 - 118	0	20		
Vanadium, Dissolved	102	104	85 - 120	2	20		
Zinc, Dissolved	102	104	83 - 122	2	20		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304372

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76667-1	Analysis Batch:	280-306132	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304372	Lab File ID:	107SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2015 2243			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76667-1	Analysis Batch:	280-306132	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304372	Lab File ID:	108SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2015 2246			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	95	96	85 - 115	1	20		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304372

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76667-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/19/2015 1950		
Prep Date:	11/19/2015 0815		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76667-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/19/2015 1953
Prep Date:	11/19/2015 0815
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium, Dissolved	0.0042	0.0400	0.0400	0.0445	0.0448
Beryllium, Dissolved	ND	0.0400	0.0400	0.0396	0.0404
Cadmium, Dissolved	ND	0.0400	0.0400	0.0404	0.0410
Chromium, Dissolved	ND	0.0400	0.0400	0.0430	0.0434
Copper, Dissolved	ND	0.0400	0.0400	0.0399	0.0402
Lead, Dissolved	ND	0.0400	0.0400	0.0428	0.0430
Manganese, Dissolved	ND	0.0400	0.0400	0.0413	0.0412
Nickel, Dissolved	ND	0.0400	0.0400	0.0408	0.0403
Selenium, Dissolved	ND	0.0400	0.0400	0.0389	0.0389
Silver, Dissolved	ND	0.0400	0.0400	0.0413	0.0407
Thallium, Dissolved	ND	0.0400	0.0400	0.0423	0.0424
Vanadium, Dissolved	0.0043	0.0400	0.0400	0.0451	0.0458
Zinc, Dissolved	ND	0.0400	0.0400	0.0408	0.0414

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304372

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76667-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/30/2015 2243		
Prep Date:	11/19/2015 0815		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76667-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/30/2015 2246
Prep Date:	11/19/2015 0815
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	0.0381	0.0385

Method Blank - Batch: 280-305028

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-305028/6	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anic
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1154	Units:	mg/L	Final Weight/Volume:	5 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: 280-305028

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-305028/3	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anic
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1107	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	96	50 - 150	
Sulfate	2.50	ND	95	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-305028

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305028/4	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anic
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1123	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-305028/5	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anic
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 1138	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	101	101	90 - 110	0	10		
Sulfate	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-76667-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-305028

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305028/4	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/20/2015 1123		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-305028/5
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/20/2015 1138
Prep Date:	N/A
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	100	100	101	101
Sulfate	100	100	100	100

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305028

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76667-6	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anio
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2253			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-76667-6	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anio
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2309			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	105	106	80 - 120	0	20		
Sulfate	102	103	80 - 120	0	20		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305028

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76667-6	Units: mg/L	MSD Lab Sample ID:	280-76667-6	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/20/2015 2253		Analysis Date:	11/20/2015 2309	
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	1.4	25.0	25.0	27.7	27.8
Sulfate	2.4	25.0	25.0	27.9	28.0

Duplicate - Batch: 280-305028

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-76667-6	Analysis Batch:	280-305028	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anio
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2015 2238	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	1.4	1.36	0.2	15	
Sulfate	2.4	2.35	0.2	15	

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 280-304345

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-304345/61	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1541	Units:	mg/L	Final Weight/Volume:	
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: 280-304345

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304345/59	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/16/2015 1537	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304345/60	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/16/2015 1539	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)	101	102	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304345/59	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/16/2015 1537		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-304345/60
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/16/2015 1539
Prep 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	2.52	2.56

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76663-C-10 MS	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/16/2015 1637			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76663-C-10 MSD	Analysis Batch:	280-304345	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111615.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/16/2015 1639			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
Ammonia (as N)	104	108	90 - 110	2	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304345

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76663-C-10 MS	Units: mg/L		MSD Lab Sample ID:	280-76663-C-10 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2015 1637			Analysis Date:	11/16/2015 1639
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)	1.4	1.00	1.00	2.47	2.51

Client: Waste Management

Job Number: 280-76667-1

Method Blank - Batch: 280-305439

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-305439/1	Analysis Batch:	280-305439	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2015 1016	Units:	mg/L	Final Weight/Volume:	
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: 280-76667-1

Method Blank - Batch: 280-304445 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-304445/5	Analysis Batch:	280-304445	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1156	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

Method Blank - Batch: 280-304445 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-304445/31	Analysis Batch:	280-304445	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1355	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

Client: Waste Management Job Number: 280-76667-1

Lab Control Sample - Batch: 280-304445

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304445/4	Analysis Batch:	280-304445	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1153	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	197	99	90 - 110	

Lab Control Sample - Batch: 280-304445

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304445/30	Analysis Batch:	280-304445	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1351	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	193	96	90 - 110	

Duplicate - Batch: 280-304445

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-76667-1	Analysis Batch:	280-304445	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1404	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)	75	74.9	0.3	10	

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-305173 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-305173/5	Analysis Batch:	280-305173	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112015 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2015 1353	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

Method Blank - Batch: 280-305173 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-305173/57	Analysis Batch:	280-305173	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112015 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2015 1756	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

Lab Control Sample - Batch: 280-305173

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-305173/4	Analysis Batch:	280-305173	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112015 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2015 1349	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	212	106	90 - 110	

Lab Control Sample - Batch: 280-305173

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-305173/56	Analysis Batch:	280-305173	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112015 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2015 1752	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	205	103	90 - 110	

Duplicate - Batch: 280-305173

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-76919-A-6 DU	Analysis Batch:	280-305173	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112015 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2015 1806	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)	260	216	19	10	F3
Alkalinity, Bicarbonate (As CaCO3)	260	216	19		

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-303847

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-303847/1	Analysis Batch:	280-303847	Instrument ID:	WC_Cond_Orion
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:	11/12/2015 1505	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 - Batch: 280-303847

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	LCS 280-303847/2	Analysis Batch:	280-303847	Instrument ID:	WC_Cond_Orion
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:	11/12/2015 1505	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids (TDS)	501	489	98	86 - 110	

Duplicate - Batch: 280-303847

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-76667-1	Analysis Batch:	280-303847	Instrument ID:	WC_Cond_Orion
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:	11/12/2015 1505	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)	98	98.0	0	10	

Client: Waste Management Job Number: 280-76667-1

Method Blank - Batch: 280-304071

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-304071/2	Analysis Batch:	280-304071	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/13/2015 1605	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Suspended Solids	ND		4.0	4.0

Lab Control Sample - Batch: 280-304071

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCS 280-304071/1	Analysis Batch:	280-304071	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/13/2015 1605	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	100	91.2	91	86 - 114	

Duplicate - Batch: 280-304071

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-76667-1	Analysis Batch:	280-304071	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/13/2015 1605	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	ND	ND	NC	10	

Method Blank - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-304498/50	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 0218	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 - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-304498/49	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 0159	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	26.5	106	88 - 112	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76667-1	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 0336			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76667-1	Analysis Batch:	280-304498	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 0350			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	106	106	88 - 112	0	15		

Client: Waste Management

Job Number: 280-76667-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304498

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76667-1	Units: mg/L	MSD Lab Sample ID:	280-76667-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/17/2015 0336		Analysis Date:	11/17/2015 0350	
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	26.5	26.5

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-1 **Client ID: MW-35**

Sample Date/Time: 11/10/2015 09:24 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-1		480-276242		11/20/2015 22:49	1	TAL BUF	GTG
A:8260C	280-76667-F-1		480-276242		11/20/2015 22:49	1	TAL BUF	GTG
P:5030C	280-76667-K-1		480-275522		11/18/2015 03:59	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-1		480-275522		11/18/2015 03:59	1	TAL BUF	GVF
P:3005A	280-76667-D-1-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-1-A		280-305732	280-304369	11/25/2015 23:44	1	TAL DEN	SJS
P:3005A	280-76667-C-1-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-1-B		280-305725	280-303919	11/26/2015 06:13	1	TAL DEN	SJS
P:3005A	280-76667-C-1-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-1-A		280-304248	280-303903	11/14/2015 00:35	1	TAL DEN	JM
P:3005A	280-76667-C-1-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-1-A		280-304486	280-303903	11/16/2015 19:06	1	TAL DEN	JM
P:3005A	280-76667-D-1-D		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-D		280-305046	280-304372	11/19/2015 19:42	1	TAL DEN	JM
P:3005A	280-76667-D-1-D		280-306132	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-D		280-306132	280-304372	11/30/2015 22:35	1	TAL DEN	JM
A:300.0	280-76667-A-1		280-305028		11/20/2015 20:34	1	TAL DEN	TLP
A:350.1	280-76667-E-1		280-304345		11/16/2015 16:50	1	TAL DEN	KAM
A:353.2	280-76667-A-1		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-1		280-304445		11/16/2015 13:59	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-1		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-1		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-1		280-304498		11/17/2015 03:21	1	TAL DEN	CCJ

Lab ID: 280-76667-1 MS **Client ID: MW-35**

Sample Date/Time: 11/10/2015 09:24 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76667-D-1-B MS		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-1-B MS		280-305732	280-304369	11/25/2015 23:52	1	TAL DEN	SJS
P:3005A	280-76667-D-1-E MS		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-E MS		280-305046	280-304372	11/19/2015 19:50	1	TAL DEN	JM
P:3005A	280-76667-D-1-E MS		280-306132	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-E MS		280-306132	280-304372	11/30/2015 22:43	1	TAL DEN	JM
A:SM 5310B	280-76667-E-1 MS		280-304498		11/17/2015 03:36	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-1 MSD **Client ID: MW-35**

Sample Date/Time: 11/10/2015 09:24 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76667-D-1-C MSD		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-1-C MSD		280-305732	280-304369	11/25/2015 23:59	1	TAL DEN	SJS
P:3005A	280-76667-D-1-F MSD		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-F MSD		280-305046	280-304372	11/19/2015 19:53	1	TAL DEN	JM
P:3005A	280-76667-D-1-F MSD		280-306132	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-1-F MSD		280-306132	280-304372	11/30/2015 22:46	1	TAL DEN	JM
A:SM 5310B	280-76667-E-1 MSD		280-304498		11/17/2015 03:50	1	TAL DEN	CCJ

Lab ID: 280-76667-1 DU **Client ID: MW-35**

Sample Date/Time: 11/10/2015 09:24 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-76667-B-1 DU		280-304445		11/16/2015 14:04	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-1 DU		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-1 DU		280-304071		11/13/2015 16:05	1	TAL DEN	MW1

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-2 **Client ID: MW-13A**

Sample Date/Time: 11/10/2015 10:30 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-2		480-276242		11/20/2015 23:13	1	TAL BUF	GTG
A:8260C	280-76667-F-2		480-276242		11/20/2015 23:13	1	TAL BUF	GTG
P:5030C	280-76667-K-2		480-275522		11/18/2015 04:23	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-2		480-275522		11/18/2015 04:23	1	TAL BUF	GVF
P:3005A	280-76667-D-2-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-2-A		280-305732	280-304369	11/26/2015 00:44	1	TAL DEN	SJS
P:3005A	280-76667-C-2-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-2-B		280-305725	280-303919	11/26/2015 06:15	1	TAL DEN	SJS
P:3005A	280-76667-C-2-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-2-A		280-304248	280-303903	11/14/2015 00:39	1	TAL DEN	JM
P:3005A	280-76667-C-2-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-2-A		280-304486	280-303903	11/16/2015 19:09	1	TAL DEN	JM
P:3005A	280-76667-D-2-B		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-2-B		280-305046	280-304372	11/19/2015 20:00	1	TAL DEN	JM
A:300.0	280-76667-A-2		280-305028		11/20/2015 20:49	1	TAL DEN	TLP
A:350.1	280-76667-E-2		280-304345		11/16/2015 16:52	1	TAL DEN	KAM
A:353.2	280-76667-A-2		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-2		280-304445		11/16/2015 14:09	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-2		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-2		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-2		280-304498		11/17/2015 04:05	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-3 **Client ID: MW-13B**

Sample Date/Time: 11/10/2015 11:20 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-3		480-276242		11/20/2015 23:37	1	TAL BUF	GTG
A:8260C	280-76667-F-3		480-276242		11/20/2015 23:37	1	TAL BUF	GTG
P:5030C	280-76667-K-3		480-275522		11/18/2015 04:47	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-3		480-275522		11/18/2015 04:47	1	TAL BUF	GVF
P:3005A	280-76667-D-3-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-3-A		280-305732	280-304369	11/26/2015 00:23	1	TAL DEN	SJS
P:3005A	280-76667-C-3-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-3-B		280-305725	280-303919	11/26/2015 06:18	1	TAL DEN	SJS
P:3005A	280-76667-C-3-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-3-A		280-304248	280-303903	11/14/2015 00:50	1	TAL DEN	JM
P:3005A	280-76667-C-3-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-3-A		280-304486	280-303903	11/16/2015 19:13	1	TAL DEN	JM
P:3005A	280-76667-D-3-B		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-3-B		280-305046	280-304372	11/19/2015 20:11	1	TAL DEN	JM
A:300.0	280-76667-A-3		280-305028		11/20/2015 21:05	1	TAL DEN	TLP
A:350.1	280-76667-E-3		280-304345		11/16/2015 16:54	1	TAL DEN	KAM
A:353.2	280-76667-A-3		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-3		280-304445		11/16/2015 14:14	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-3		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-3		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-3		280-304498		11/17/2015 04:20	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-4 **Client ID: MW-23A**

Sample Date/Time: 11/10/2015 13:03 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-4		480-276242		11/21/2015 00:01	1	TAL BUF	GTG
A:8260C	280-76667-F-4		480-276242		11/21/2015 00:01	1	TAL BUF	GTG
P:5030C	280-76667-K-4		480-275522		11/18/2015 05:11	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-4		480-275522		11/18/2015 05:11	1	TAL BUF	GVF
P:3005A	280-76667-D-4-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-4-A		280-305732	280-304369	11/26/2015 00:26	1	TAL DEN	SJS
P:3005A	280-76667-C-4-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-4-B		280-305725	280-303919	11/26/2015 06:20	1	TAL DEN	SJS
P:3005A	280-76667-C-4-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-4-A		280-304248	280-303903	11/14/2015 00:53	1	TAL DEN	JM
P:3005A	280-76667-C-4-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-4-A		280-304486	280-303903	11/16/2015 19:23	1	TAL DEN	JM
P:3005A	280-76667-D-4-B		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-4-B		280-305046	280-304372	11/19/2015 20:14	1	TAL DEN	JM
A:300.0	280-76667-A-4		280-305028		11/20/2015 21:51	1	TAL DEN	TLP
A:350.1	280-76667-E-4		280-304345		11/16/2015 16:56	1	TAL DEN	KAM
A:353.2	280-76667-A-4		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-4		280-304445		11/16/2015 14:18	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-4		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-4		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-4		280-304498		11/17/2015 04:34	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-5 **Client ID: MW-2B1**

Sample Date/Time: 11/10/2015 14:40 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-5		480-276242		11/21/2015 00:25	1	TAL BUF	GTG
A:8260C	280-76667-F-5		480-276242		11/21/2015 00:25	1	TAL BUF	GTG
P:5030C	280-76667-K-5		480-275522		11/18/2015 05:35	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-5		480-275522		11/18/2015 05:35	1	TAL BUF	GVF
P:3005A	280-76667-D-5-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-5-A		280-305732	280-304369	11/26/2015 00:29	1	TAL DEN	SJS
P:3005A	280-76667-C-5-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-5-B		280-305725	280-303919	11/26/2015 06:23	1	TAL DEN	SJS
P:3005A	280-76667-C-5-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-5-A		280-304248	280-303903	11/14/2015 00:57	1	TAL DEN	JM
P:3005A	280-76667-C-5-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-5-A		280-304486	280-303903	11/16/2015 19:27	1	TAL DEN	JM
P:3005A	280-76667-D-5-B		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-5-B		280-305046	280-304372	11/19/2015 20:18	1	TAL DEN	JM
A:300.0	280-76667-A-5		280-305028		11/20/2015 22:07	1	TAL DEN	TLP
A:350.1	280-76667-E-5		280-304345		11/16/2015 16:58	1	TAL DEN	KAM
A:353.2	280-76667-A-5		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-5		280-304445		11/16/2015 13:34	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-5		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-5		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-5		280-304498		11/17/2015 04:51	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-6 **Client ID: DUP2**

Sample Date/Time: 11/10/2015 00:00 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-F-6		480-276242		11/21/2015 00:48	1	TAL BUF	GTG
A:8260C	280-76667-F-6		480-276242		11/21/2015 00:48	1	TAL BUF	GTG
P:5030C	280-76667-K-6		480-275522		11/18/2015 05:59	1	TAL BUF	GVF
A:8260C SIM	280-76667-K-6		480-275522		11/18/2015 05:59	1	TAL BUF	GVF
P:3005A	280-76667-D-6-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	280-76667-D-6-A		280-305732	280-304369	11/26/2015 00:31	1	TAL DEN	SJS
P:3005A	280-76667-C-6-B		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76667-C-6-B		280-305725	280-303919	11/26/2015 06:35	1	TAL DEN	SJS
P:3005A	280-76667-C-6-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-6-A		280-304248	280-303903	11/14/2015 01:00	1	TAL DEN	JM
P:3005A	280-76667-C-6-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76667-C-6-A		280-304486	280-303903	11/16/2015 19:31	1	TAL DEN	JM
P:3005A	280-76667-D-6-B		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	280-76667-D-6-B		280-305046	280-304372	11/19/2015 20:22	1	TAL DEN	JM
A:300.0	280-76667-A-6		280-305028		11/20/2015 22:22	1	TAL DEN	TLP
A:350.1	280-76667-E-6		280-304345		11/16/2015 17:00	1	TAL DEN	KAM
A:353.2	280-76667-A-6		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	280-76667-B-6		280-304445		11/16/2015 13:38	1	TAL DEN	NAS
A:SM 2540C	280-76667-A-6		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	280-76667-B-6		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	280-76667-E-6		280-304498		11/17/2015 05:06	1	TAL DEN	CCJ

Lab ID: 280-76667-6 MS **Client ID: DUP2**

Sample Date/Time: 11/10/2015 00:00 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76667-A-6 MS		280-305028		11/20/2015 22:53	1	TAL DEN	TLP

Lab ID: 280-76667-6 MSD **Client ID: DUP2**

Sample Date/Time: 11/10/2015 00:00 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76667-A-6 MSD		280-305028		11/20/2015 23:09	1	TAL DEN	TLP

Lab ID: 280-76667-6 DU **Client ID: DUP2**

Sample Date/Time: 11/10/2015 00:00 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76667-A-6 DU		280-305028		11/20/2015 22:38	1	TAL DEN	TLP

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: 280-76667-7 **Client ID: TRIP BLANK**

Sample Date/Time: 11/10/2015 00:00 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76667-A-7		480-276242		11/21/2015 01:12	1	TAL BUF	GTG
A:8260C	280-76667-A-7		480-276242		11/21/2015 01:12	1	TAL BUF	GTG
P:5030C	280-76667-D-7		480-275522		11/18/2015 06:24	1	TAL BUF	GVF
A:8260C SIM	280-76667-D-7		480-275522		11/18/2015 06:24	1	TAL BUF	GVF

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:5030C	MB 480-276242/7		480-276242		11/20/2015 22:25	1	TAL BUF	GTG
A:8260C	MB 480-276242/7		480-276242		11/20/2015 22:25	1	TAL BUF	GTG
P:5030C	MB 480-275522/8		480-275522		11/17/2015 23:12	1	TAL BUF	GVF
A:8260C SIM	MB 480-275522/8		480-275522		11/17/2015 23:12	1	TAL BUF	GVF
P:3005A	MB 280-304369/1-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	MB 280-304369/1-A		280-305732	280-304369	11/25/2015 23:39	1	TAL DEN	SJS
P:3005A	MB 280-303919/1-A		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	MB 280-303919/1-A		280-305725	280-303919	11/26/2015 05:39	1	TAL DEN	SJS
P:3005A	MB 280-303903/1-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-303903/1-A		280-304248	280-303903	11/13/2015 23:42	1	TAL DEN	JM
P:3005A	MB 280-303903/1-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	MB 280-303903/1-A		280-304486	280-303903	11/16/2015 18:12	1	TAL DEN	JM
P:3005A	MB 280-304372/1-A		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	MB 280-304372/1-A		280-305046	280-304372	11/19/2015 19:35	1	TAL DEN	JM
A:300.0	MB 280-305028/6		280-305028		11/20/2015 11:54	1	TAL DEN	TLP
A:350.1	MB 280-304345/61		280-304345		11/16/2015 15:41	1	TAL DEN	KAM
A:353.2	MB 280-305439/1		280-305439		11/24/2015 10:16	1	TAL DEN	AJA
A:SM 2320B	MB 280-304445/5		280-304445		11/16/2015 11:56	1	TAL DEN	NAS
A:SM 2320B	MB 280-304445/31		280-304445		11/16/2015 13:55	1	TAL DEN	NAS
A:SM 2320B	MB 280-305173/5		280-305173		11/20/2015 13:53	1	TAL DEN	NAS
A:SM 2320B	MB 280-305173/57		280-305173		11/20/2015 17:56	1	TAL DEN	NAS
A:SM 2540C	MB 280-303847/1		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	MB 280-304071/2		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	MB 280-304498/50		280-304498		11/17/2015 02:18	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76667-1

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:5030C	LCS 480-276242/5		480-276242		11/20/2015 21:38	1	TAL BUF	GTG
A:8260C	LCS 480-276242/5		480-276242		11/20/2015 21:38	1	TAL BUF	GTG
P:5030C	LCS 480-275522/5		480-275522		11/17/2015 21:59	1	TAL BUF	GVF
A:8260C SIM	LCS 480-275522/5		480-275522		11/17/2015 21:59	1	TAL BUF	GVF
P:3005A	LCS 280-304369/2-A		280-305732	280-304369	11/23/2015 08:30	1	TAL DEN	TEB
A:6010B	LCS 280-304369/2-A		280-305732	280-304369	11/25/2015 23:42	1	TAL DEN	SJS
P:3005A	LCS 280-303919/2-A		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	LCS 280-303919/2-A		280-305725	280-303919	11/26/2015 05:42	1	TAL DEN	SJS
P:3005A	LCS 280-303903/2-A		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-303903/2-A		280-304248	280-303903	11/13/2015 23:45	1	TAL DEN	JM
P:3005A	LCS 280-303903/2-A		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	LCS 280-303903/2-A		280-304486	280-303903	11/16/2015 18:16	1	TAL DEN	JM
P:3005A	LCS 280-304372/2-A		280-305046	280-304372	11/19/2015 08:15	1	TAL DEN	SUR
A:6020	LCS 280-304372/2-A		280-305046	280-304372	11/19/2015 19:39	1	TAL DEN	JM
A:300.0	LCS 280-305028/4		280-305028		11/20/2015 11:23	1	TAL DEN	TLP
A:350.1	LCS 280-304345/59		280-304345		11/16/2015 15:37	1	TAL DEN	KAM
A:SM 2320B	LCS 280-304445/4		280-304445		11/16/2015 11:53	1	TAL DEN	NAS
A:SM 2320B	LCS 280-304445/30		280-304445		11/16/2015 13:51	1	TAL DEN	NAS
A:SM 2320B	LCS 280-305173/4		280-305173		11/20/2015 13:49	1	TAL DEN	NAS
A:SM 2320B	LCS 280-305173/56		280-305173		11/20/2015 17:52	1	TAL DEN	NAS
A:SM 2540C	LCS 280-303847/2		280-303847		11/12/2015 15:05	1	TAL DEN	RSM
A:SM 2540D	LCS 280-304071/1		280-304071		11/13/2015 16:05	1	TAL DEN	MW1
A:SM 5310B	LCS 280-304498/49		280-304498		11/17/2015 01:59	1	TAL DEN	CCJ

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
P:5030C	LCSD 480-275522/6		480-275522		11/17/2015 22:23	1	TAL BUF	GVF
A:8260C SIM	LCSD 480-275522/6		480-275522		11/17/2015 22:23	1	TAL BUF	GVF
A:300.0	LCSD 280-305028/5		280-305028		11/20/2015 11:38	1	TAL DEN	TLP
A:350.1	LCSD 280-304345/60		280-304345		11/16/2015 15:39	1	TAL DEN	KAM

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 280-305028/3		280-305028		11/20/2015 11:07	1	TAL DEN	TLP

Client: Waste Management Job Number: 280-76667-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/09/2015 12:05 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76636-B-1-C MS		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76636-B-1-C MS		280-305725	280-303919	11/26/2015 05:50	1	TAL DEN	SJS
P:3005A	280-76598-C-2-B MS		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-B MS		280-304248	280-303903	11/14/2015 00:00	1	TAL DEN	JM
P:3005A	280-76598-C-2-B MS		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-B MS		280-304486	280-303903	11/16/2015 18:30	1	TAL DEN	JM
A:350.1	280-76663-C-10 MS		280-304345		11/16/2015 16:37	1	TAL DEN	KAM

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 11/09/2015 12:05 Received Date/Time: 11/10/2015 09:25

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76636-B-1-D MSD		280-305725	280-303919	11/16/2015 14:30	1	TAL DEN	MLS
A:6010B	280-76636-B-1-D MSD		280-305725	280-303919	11/26/2015 05:53	1	TAL DEN	SJS
P:3005A	280-76598-C-2-C MSD		280-304248	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-C MSD		280-304248	280-303903	11/14/2015 00:03	1	TAL DEN	JM
P:3005A	280-76598-C-2-C MSD		280-304486	280-303903	11/13/2015 14:00	1	TAL DEN	MLS
A:6020	280-76598-C-2-C MSD		280-304486	280-303903	11/16/2015 18:34	1	TAL DEN	JM
A:350.1	280-76663-C-10 MSD		280-304345		11/16/2015 16:39	1	TAL DEN	KAM

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 11/16/2015 11:43 Received Date/Time: 11/17/2015 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-76919-A-6 DU		280-305173		11/20/2015 18:06	1	TAL DEN	NAS

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

280-76667 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Sara, Betsy A	Carrier Tracking No(s): 808774773190	COC No: 280-17318-3224.1
Client Contact: Mr. Patrick Madej	Phone: (612) 940-2980	E-Mail: betsy.sara@testamericainc.com	808774773189	Page: 1 of 1
Company: Waste Management				Job #: 04204017.18
Address: 2615 Davis Street	Due Date Requested: Standard			
City: San Leandro	TAT Requested (days): Standard			
State, Zip: CA, 94577				
Phone: 425-766-2502	PO #:			
Email: Dveuchiarutti@scsengineers.com	WO #:			
Project Name: WA02|Olympic View Sanitary LF Event Desc: Quarterly GW Appl/II - Mar Jun Sep Dec	Project #: 28002692			
Site: Washington	SSOW#:			

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Analysis Requested

Sample Identification	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)	TDS/Alks/Cl/SO4/NO3(cad)	Dissolved Metals	Ammonia/TOC	8260B - long list (TA Buffalo)	8260B SIM (TA Buffalo)	Total Metals	TSS	Dissolved Arsenic (direct sub to ARI)	Total Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	A	D	N	D	D		
MW-35	11/10/15	924	6	W	Y	N	X	X	X	X	X	X	X	X	X	11	Short Hold: NO3(cad)
MW-13A	↓	1030	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	Arsenic - Direct sub to ARI
MW-13B	↓	1120	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-23A	↓	1303	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
MW-2B1	↓	1440	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
Dup-2	↓	1500	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
Trip blank	–	–	–	↓		↓				↓						2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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: Sam Graber	Date/Time: 11/10/15 1600	Company: SCS	Received by: [signature]	Date/Time: 0945 11Nov15	Company: TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: 763720, 763719 | Cooler Temperature(s) °C and Other Remarks: 1.9, 4 IR5TO1 11Nov15 Transfer [initials]

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-329047.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 280-76667-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 11/30/2015			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	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)	8260C/5030C (MOD) Appendix II Volatiles	8260C_SIM/5030C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-35 (280-76667-1)	11/10/15	09:24 Pacific		Water			X	X	6	
MW-13A (280-76667-2)	11/10/15	10:30 Pacific		Water			X	X	6	
MW-13B (280-76667-3)	11/10/15	11:20 Pacific		Water			X	X	6	
MW-23A (280-76667-4)	11/10/15	13:03 Pacific		Water			X	X	6	
MW-2B1 (280-76667-5)	11/10/15	14:40 Pacific		Water			X	X	6	
DUP2 (280-76667-6)	11/10/15	Pacific		Water			X	X	6	
TRIP BLANK (280-76667-7)	11/10/15	Pacific		Water			X	X	4	

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: 11/11/15 @1540	Company TAD	Received by:	Date/Time: 11/12/15 0930	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.9°C

12/02/2015

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-76667-1

Login Number: 76667
List Number: 1
Creator: Muniz, Ashley T

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	False	Container count discrepancy
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: 280-76667-1

Login Number: 76667
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 11/12/15 03:23 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	3.9 #1
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.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-76731-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
Sun Valley Hauling
9081 Tujunga Avenue
Sun Valley, CA 91352

Attention: Mr. Phil Perley

Approved for release.
Betsy A Sara
Project Manager II
12/9/2015 4:11 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/09/2015

cc: Mr. Dan Venchiarutti

The Lab Certification ID# is 4025.

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: 280-76731-1

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 11/12/2015; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.4º C, 0.7º C, 2.4º C and 3.8º 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)

The Method 8260C LCS recoveries for Bromoform, Dibromochloromethane and Tert-butyl alcohol were above control limits. Because the data are considered to be biased high and all associated samples were non-detect above the reporting limits for Bromoform, Dibromochloromethane and Tert-butyl alcohol, corrective action was deemed unnecessary.

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 Method 8260C compounds and Sulfate Method 300.0. 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.

All other MS and MSD samples were within established control limits.

Organics

The analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limits for the analytes Acrolein, Acrylonitrile and 2-chloroethyl vinyl ether is not reliable or defensible.

Metals

The Method 6020 Continuing Calibration Verification (CCV) sample was above the control limits for Total Lead and Total Thallium. Because the data are considered biased high and Total Lead and Total Thallium were not detected in the associated sample above the reporting limits, corrective action was deemed unnecessary.

General Comments

The analyses for Volatile Organics by Method 8260C and Volatile Organics by Method 8260C 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: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-1	**MW-16**					
Vinyl chloride		0.025		0.020	ug/L	8260C SIM
Sulfate		2.8		1.0	mg/L	300.0
Nitrate as N		0.19		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		65		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		65		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		99		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		12		0.040	mg/L	6010B
Magnesium, Dissolved		6.7		0.050	mg/L	6010B
Sodium, Dissolved		5.7		1.0	mg/L	6010B
Barium, Dissolved		0.0040		0.0010	mg/L	6020
Chromium, Dissolved		0.0077		0.0030	mg/L	6020
Vanadium, Dissolved		0.0038		0.0020	mg/L	6020
Total Recoverable						
Antimony, Total		0.0013		0.0010	mg/L	6020
Barium, Total		0.0043		0.0010	mg/L	6020
Chromium, Total		0.0071		0.0030	mg/L	6020
Manganese, Total		0.0014		0.0010	mg/L	6020
Vanadium, Total		0.0034		0.0020	mg/L	6020
280-76731-2	**MW-33C**					
Vinyl chloride		0.0079	J	0.020	ug/L	8260C SIM
Chloride		3.0		1.0	mg/L	300.0
Sulfate		8.9		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)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		17		0.040	mg/L	6010B
Magnesium, Dissolved		6.5		0.050	mg/L	6010B
Potassium, Dissolved		1.3		1.0	mg/L	6010B
Sodium, Dissolved		4.2		1.0	mg/L	6010B
Barium, Dissolved		0.0046		0.0010	mg/L	6020
Manganese, Dissolved		0.14		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.15		0.060	mg/L	6010B
Barium, Total		0.0047		0.0010	mg/L	6020
Manganese, Total		0.19		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-3	**MW-24**					
Vinyl chloride		0.0054	J	0.020	ug/L	8260C SIM
Chloride		2.7		1.0	mg/L	300.0
Sulfate		4.7		1.0	mg/L	300.0
Nitrate as N		0.14		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
Total Suspended Solids		9.2		4.0	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		13		0.040	mg/L	6010B
Magnesium, Dissolved		6.9		0.050	mg/L	6010B
Sodium, Dissolved		5.3		1.0	mg/L	6010B
Barium, Dissolved		0.0031		0.0010	mg/L	6020
Manganese, Dissolved		1.1		0.0010	mg/L	6020
Total Recoverable						
Cobalt, Total		0.0037		0.0030	mg/L	6010B
Iron, Total		0.53		0.060	mg/L	6010B
Barium, Total		0.0092		0.0010	mg/L	6020
Manganese, Total		2.3		0.0010	mg/L	6020
Vanadium, Total		0.0031		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-5	**MW-39**					
Chloride		5.6		1.0	mg/L	300.0
Ammonia (as N)		0.41		0.030	mg/L	350.1
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
Total Suspended Solids		130		10	mg/L	SM 2540D
Total Organic Carbon - Average		2.8		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		13		0.040	mg/L	6010B
Cobalt, Dissolved		0.0079		0.0030	mg/L	6010B
Iron, Dissolved		39		0.060	mg/L	6010B
Magnesium, Dissolved		7.6		0.050	mg/L	6010B
Sodium, Dissolved		8.9		1.0	mg/L	6010B
Barium, Dissolved		0.025		0.0010	mg/L	6020
Chromium, Dissolved		0.0033		0.0030	mg/L	6020
Copper, Dissolved		0.0099		0.0020	mg/L	6020
Lead, Dissolved		0.0014		0.0010	mg/L	6020
Manganese, Dissolved		0.53		0.0010	mg/L	6020
Nickel, Dissolved		0.0053		0.0040	mg/L	6020
Vanadium, Dissolved		0.0053		0.0020	mg/L	6020
Zinc, Dissolved		0.013		0.0050	mg/L	6020
Total Recoverable						
Cobalt, Total		0.0081		0.0030	mg/L	6010B
Iron, Total		40		0.060	mg/L	6010B
Barium, Total		0.028		0.0010	mg/L	6020
Copper, Total		0.0050		0.0020	mg/L	6020
Lead, Total		0.0019		0.0010	mg/L	6020
Manganese, Total		0.49		0.0010	mg/L	6020
Nickel, Total		0.0049		0.0040	mg/L	6020
Vanadium, Total		0.0051		0.0020	mg/L	6020
Zinc, Total		0.0067		0.0050	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-6	**MW-15R**					
Chloride		2.7		1.0	mg/L	300.0
Sulfate		4.5		1.0	mg/L	300.0
Nitrate as N		0.18		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		75		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		75		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		8.7		0.050	mg/L	6010B
Sodium, Dissolved		5.3		1.0	mg/L	6010B
Barium, Dissolved		0.0050		0.0010	mg/L	6020
Manganese, Dissolved		0.0022		0.0010	mg/L	6020
Vanadium, Dissolved		0.0031		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0050		0.0010	mg/L	6020
Manganese, Total		0.0029		0.0010	mg/L	6020
Vanadium, Total		0.0030		0.0020	mg/L	6020
280-76731-7	**MW-36A**					
Chloride		1.9		1.0	mg/L	300.0
Sulfate		2.8		1.0	mg/L	300.0
Nitrate as N		0.39		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		62		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		62		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		9.4		0.040	mg/L	6010B
Magnesium, Dissolved		6.4		0.050	mg/L	6010B
Sodium, Dissolved		6.2		1.0	mg/L	6010B
Barium, Dissolved		0.0037		0.0010	mg/L	6020
Chromium, Dissolved		0.0095		0.0030	mg/L	6020
Vanadium, Dissolved		0.0030		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0025		0.0010	mg/L	6020
Chromium, Total		0.0086		0.0030	mg/L	6020
Vanadium, Total		0.0028		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-8	**MW-4**					
Vinyl chloride		0.021		0.020	ug/L	8260C SIM
Chloride		2.7		1.0	mg/L	300.0
Sulfate		2.5		1.0	mg/L	300.0
Nitrate as N		0.79		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		39		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		39		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		67		5.0	mg/L	SM 2540C
Total Suspended Solids		27		6.7	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		8.0		0.040	mg/L	6010B
Magnesium, Dissolved		3.8		0.050	mg/L	6010B
Sodium, Dissolved		4.7		1.0	mg/L	6010B
Barium, Dissolved		0.0026		0.0010	mg/L	6020
Manganese, Dissolved		0.24		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.42		0.060	mg/L	6010B
Barium, Total		0.021		0.0010	mg/L	6020
Manganese, Total		5.4		0.0010	mg/L	6020
Nickel, Total		0.0053		0.0040	mg/L	6020
Vanadium, Total		0.0070		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-9	**MW-19C**					
Acetone		3.5	J	10	ug/L	8260C
Trichloroethene		1.1		1.0	ug/L	8260C
Vinyl chloride		0.090		0.020	ug/L	8260C SIM
Chloride		2.9		1.0	mg/L	300.0
Sulfate		4.8		1.0	mg/L	300.0
Ammonia (as N)		0.56		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		70		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		70		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		13		0.040	mg/L	6010B
Iron, Dissolved		0.12		0.060	mg/L	6010B
Magnesium, Dissolved		6.7		0.050	mg/L	6010B
Potassium, Dissolved		1.5		1.0	mg/L	6010B
Sodium, Dissolved		6.0		1.0	mg/L	6010B
Barium, Dissolved		0.0045		0.0010	mg/L	6020
Manganese, Dissolved		1.3		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.11		0.060	mg/L	6010B
Barium, Total		0.0036		0.0010	mg/L	6020
Manganese, Total		1.1		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-76731-10	**MW-32**					
Vinyl chloride		0.33		0.020	ug/L	8260C SIM
Chloride		12		1.0	mg/L	300.0
Sulfate		16		1.0	mg/L	300.0
Ammonia (as N)		0.039		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		160		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		160		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		260		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.8		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		36		0.040	mg/L	6010B
Iron, Dissolved		0.83		0.060	mg/L	6010B
Magnesium, Dissolved		17		0.050	mg/L	6010B
Potassium, Dissolved		1.3		1.0	mg/L	6010B
Sodium, Dissolved		17		1.0	mg/L	6010B
Barium, Dissolved		0.0071		0.0010	mg/L	6020
Manganese, Dissolved		3.0		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.85		0.060	mg/L	6010B
Barium, Total		0.0074		0.0010	mg/L	6020
Manganese, Total		2.9		0.0010	mg/L	6020
280-76731-11	**MW-33A**					
Chloride		2.3		1.0	mg/L	300.0
Sulfate		2.1		1.0	mg/L	300.0
Ammonia (as N)		0.21		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		48		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		48		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		83		5.0	mg/L	SM 2540C
Total Suspended Solids		4.0		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		2.3		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		11		0.040	mg/L	6010B
Iron, Dissolved		0.58		0.060	mg/L	6010B
Magnesium, Dissolved		4.8		0.050	mg/L	6010B
Sodium, Dissolved		3.4		1.0	mg/L	6010B
Barium, Dissolved		0.0020		0.0010	mg/L	6020
Manganese, Dissolved		0.089		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		1.8		0.060	mg/L	6010B
Barium, Total		0.0028		0.0010	mg/L	6020
Manganese, Total		0.094		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management Job Number: 280-76731-1

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	
Nitrate	TAL DEN	EPA 353.2	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260C SIM	
Purge and Trap	TAL BUF		SW846 5030C

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: 280-76731-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C	O'Brien, Shaun W	SWO
SW846 8260C SIM	Cwiklinski, Charles D	CDC
SW846 6010B	Kelly, Cara M	CMK
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Mooney, Joseph C	JM
MCAWW 300.0	Benson, Alex F	AFB
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Moore, Kevin A	KAM
EPA 353.2	Allen, Andrew J	AJA
SM SM 2320B	Simons, Nicole A	NAS
SM SM 2540C	Martinez, Rut S	RSM
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management Job Number: 280-76731-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-76731-1	MW-16	Water	11/11/2015 0846	11/12/2015 0930
280-76731-2	MW-33C	Water	11/11/2015 1110	11/12/2015 0930
280-76731-3	MW-24	Water	11/11/2015 1245	11/12/2015 0930
280-76731-4TB	TRIP BLANK	Water	11/11/2015 0000	11/12/2015 0930
280-76731-5	MW-39	Water	11/11/2015 1010	11/12/2015 0930
280-76731-6	MW-15R	Water	11/11/2015 0830	11/12/2015 0930
280-76731-7	MW-36A	Water	11/11/2015 0915	11/12/2015 0930
280-76731-8	MW-4	Water	11/11/2015 1225	11/12/2015 0930
280-76731-9	MW-19C	Water	11/11/2015 1115	11/12/2015 0930
280-76731-10	MW-32	Water	11/11/2015 1305	11/12/2015 0930
280-76731-11	MW-33A	Water	11/11/2015 1015	11/12/2015 0930

SAMPLE RESULTS

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-16

Lab Sample ID: 280-76731-1 Date Sampled: 11/11/2015 0846
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0304			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0304				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Client Sample ID: MW-16

Lab Sample ID: 280-76731-1 Date Sampled: 11/11/2015 0846
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0304			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0304				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: MW-16

Lab Sample ID: 280-76731-1 Date Sampled: 11/11/2015 0846
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0304			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0304				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	89		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-76731-1
Client Matrix: Water

Date Sampled: 11/11/2015 0846
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0304			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0304				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-33C

Lab Sample ID: 280-76731-2 Date Sampled: 11/11/2015 1110
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0331			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0331				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-76731-2 | Date Sampled: 11/11/2015 1110
Client Matrix: Water | Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0331			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0331				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: MW-33C

Lab Sample ID: 280-76731-2 Date Sampled: 11/11/2015 1110
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0331			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0331				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Toluene-d8 (Surr)	88		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-76731-2
Client Matrix: Water

Date Sampled: 11/11/2015 1110
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0331			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0331				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-24**

Lab Sample ID: 280-76731-3 Date Sampled: 11/11/2015 1245
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0357			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0357				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-24**

Lab Sample ID: 280-76731-3 Date Sampled: 11/11/2015 1245
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0357			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0357				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-76731-3
Client Matrix: Water

Date Sampled: 11/11/2015 1245
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0357			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0357				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	88		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-76731-3
Client Matrix: Water

Date Sampled: 11/11/2015 1245
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0357			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0357				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76731-4TB Date Sampled: 11/11/2015 0000
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4695.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0424			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0424				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76731-4TB Date Sampled: 11/11/2015 0000
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4695.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0424			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0424				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76731-4TB
Client Matrix: Water

Date Sampled: 11/11/2015 0000
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4695.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0424			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0424				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	91		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76731-4TB
Client Matrix: Water

Date Sampled: 11/11/2015 0000
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4695.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0424			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0424				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-39**

Lab Sample ID: 280-76731-5 Date Sampled: 11/11/2015 1010
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0451			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0451				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-76731-5 | Date Sampled: 11/11/2015 1010
Client Matrix: Water | Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0451			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0451				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-76731-5
Client Matrix: Water

Date Sampled: 11/11/2015 1010
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0451			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0451				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	88		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-39**

Lab Sample ID: 280-76731-5
Client Matrix: Water

Date Sampled: 11/11/2015 1010
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4696.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0451			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0451				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-15R**

Lab Sample ID: 280-76731-6 Date Sampled: 11/11/2015 0830
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0518			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0518				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Client Sample ID: MW-15R

Lab Sample ID: 280-76731-6
Client Matrix: Water

Date Sampled: 11/11/2015 0830
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0518			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0518				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: MW-15R

Lab Sample ID: 280-76731-6 Date Sampled: 11/11/2015 0830
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0518			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0518				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Toluene-d8 (Surr)	86		71 - 126

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-15R

Lab Sample ID: 280-76731-6 Date Sampled: 11/11/2015 0830
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4697.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0518			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0518				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-36A

Lab Sample ID: 280-76731-7 Date Sampled: 11/11/2015 0915
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0545			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0545				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-36A**

Lab Sample ID: 280-76731-7 Date Sampled: 11/11/2015 0915
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0545			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0545				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: MW-36A

Lab Sample ID: 280-76731-7 Date Sampled: 11/11/2015 0915
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0545			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0545				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	87		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-76731-7
Client Matrix: Water

Date Sampled: 11/11/2015 0915
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4698.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0545			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0545				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-4**

Lab Sample ID: 280-76731-8 Date Sampled: 11/11/2015 1225
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0612			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0612				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-76731-8
Client Matrix: Water

Date Sampled: 11/11/2015 1225
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0612			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0612				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-76731-8
Client Matrix: Water

Date Sampled: 11/11/2015 1225
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0612			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0612				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	89		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: MW-4

Lab Sample ID: 280-76731-8
Client Matrix: Water

Date Sampled: 11/11/2015 1225
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4699.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0612			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0612				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9 Date Sampled: 11/11/2015 1115
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0638			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0638				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	3.5	J	3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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 Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9 Date Sampled: 11/11/2015 1115
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0638			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0638				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9
Client Matrix: Water

Date Sampled: 11/11/2015 1115
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0638			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0638				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	90		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9
Client Matrix: Water

Date Sampled: 11/11/2015 1115
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4700.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0638			Final Weight/Volume:	5 mL
Prep Date:	11/23/2015 0638				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-32**

Lab Sample ID: 280-76731-10 Date Sampled: 11/11/2015 1305
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1808			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1808				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND	*	3.3	10
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: 280-76731-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-76731-10
Client Matrix: Water

Date Sampled: 11/11/2015 1305
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1808			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1808				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-76731-10
Client Matrix: Water

Date Sampled: 11/11/2015 1305
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1808			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1808				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	92		71 - 126

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-32

Lab Sample ID: 280-76731-10 Date Sampled: 11/11/2015 1305
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4781.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1808			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1808				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11 Date Sampled: 11/11/2015 1015
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1835			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1835				

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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND	*	3.3	10
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: 280-76731-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11
Client Matrix: Water

Date Sampled: 11/11/2015 1015
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1835			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1835				

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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
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: 280-76731-1

Client Sample ID: MW-33A

Lab Sample ID: 280-76731-11 Date Sampled: 11/11/2015 1015
Client Matrix: Water Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1835			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1835				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	91		71 - 126

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11
Client Matrix: Water

Date Sampled: 11/11/2015 1015
Date Received: 11/12/2015 0930

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N4782.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1835			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1835				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: MW-16

Lab Sample ID: 280-76731-1
Client Matrix: Water

Date Sampled: 11/11/2015 0846
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7401.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0228			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0228				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.025		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	95		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-76731-2
Client Matrix: Water

Date Sampled: 11/11/2015 1110
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7402.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0252			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0079	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	104		50 - 150
TBA-d9 (Surr)	111		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-76731-3
Client Matrix: Water

Date Sampled: 11/11/2015 1245
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7403.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0316			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0316				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0054	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	103		50 - 150
TBA-d9 (Surr)	100		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-76731-4TB
Client Matrix: Water

Date Sampled: 11/11/2015 0000
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7404.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0340			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	104		50 - 150
TBA-d9 (Surr)	108		50 - 150

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-39

Lab Sample ID: 280-76731-5 Date Sampled: 11/11/2015 1010
Client Matrix: Water Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7405.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0405			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0405				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	104		50 - 150
TBA-d9 (Surr)	101		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-76731-6
Client Matrix: Water

Date Sampled: 11/11/2015 0830
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7406.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0429			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0429				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	105		50 - 150
TBA-d9 (Surr)	89		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-76731-7
Client Matrix: Water

Date Sampled: 11/11/2015 0915
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7407.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0453			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0453				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	105		50 - 150
TBA-d9 (Surr)	85		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: MW-4

Lab Sample ID: 280-76731-8
Client Matrix: Water

Date Sampled: 11/11/2015 1225
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7408.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0517			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0517				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.021		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	105		50 - 150
TBA-d9 (Surr)	94		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9
Client Matrix: Water

Date Sampled: 11/11/2015 1115
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7409.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0541			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0541				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.090		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	106		50 - 150
TBA-d9 (Surr)	126		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: MW-32

Lab Sample ID: 280-76731-10
Client Matrix: Water

Date Sampled: 11/11/2015 1305
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7410.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0605			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0605				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.33		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	105		50 - 150
TBA-d9 (Surr)	90		50 - 150

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11
Client Matrix: Water

Date Sampled: 11/11/2015 1015
Date Received: 11/12/2015 0930

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J7411.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0629			Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	105		50 - 150
TBA-d9 (Surr)	93		50 - 150

Client Sample ID: **MW-16**

Lab Sample ID: 280-76731-1 Date Sampled: 11/11/2015 0846
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2347			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1928			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	12		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	6.7		0.050	0.050
Sodium, Dissolved	5.7		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1752			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	091SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2219			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	0.0013		0.0010	0.0010
Barium, Total	0.0043		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0071		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-76731-1
Client Matrix: Water

Date Sampled: 11/11/2015 0846
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND	^	0.0010	0.0010
Manganese, Total	0.0014		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	0.0034		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	231SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0500			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0040		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0077		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	0.0038		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client Sample ID: **MW-33C**

Lab Sample ID: 280-76731-2 Date Sampled: 11/11/2015 1110
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2350			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.15		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1931			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

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
Magnesium, Dissolved	6.5		0.050	0.050
Sodium, Dissolved	4.2		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1755			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	1.3		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	096SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2236			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0047		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

Client Sample ID: **MW-33C**

Lab Sample ID: 280-76731-2 Date Sampled: 11/11/2015 1110
Client Matrix: Water Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND	^	0.0010	0.0010
Manganese, Total	0.19		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

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	236SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0518			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0046		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 Sample ID: **MW-24**

Lab Sample ID: 280-76731-3 Date Sampled: 11/11/2015 1245
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2352			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	0.0037		0.0030	0.0030
Iron, Total	0.53		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1934			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

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	6.9		0.050	0.050
Sodium, Dissolved	5.3		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1758			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	097SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2240			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0092		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-24**

Lab Sample ID: 280-76731-3
Client Matrix: Water

Date Sampled: 11/11/2015 1245
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND	^	0.0010	0.0010
Manganese, Total	2.3		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	0.0031		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	237SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0521			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0031		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

Client Sample ID: **MW-39**

Lab Sample ID: 280-76731-5 Date Sampled: 11/11/2015 1010
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2355			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	0.0081		0.0030	0.0030
Iron, Total	40		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1936			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	13		0.040	0.040
Cobalt, Dissolved	0.0079		0.0030	0.0030
Iron, Dissolved	39		0.060	0.060
Magnesium, Dissolved	7.6		0.050	0.050
Sodium, Dissolved	8.9		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1800			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	098SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2244			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.028		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	0.0050		0.0020	0.0020

Client: Waste Management Job Number: 280-76731-1

Client Sample ID: MW-39

Lab Sample ID: 280-76731-5 Date Sampled: 11/11/2015 1010
Client Matrix: Water Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Manganese, Total	0.49		0.0010	0.0010
Nickel, Total	0.0049		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	0.0051		0.0020	0.0020
Zinc, Total	0.0067		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-305598	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	022SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2015 1839			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	0.0019		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	240SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0532			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.025		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0033		0.0030	0.0030
Copper, Dissolved	0.0099		0.0020	0.0020
Lead, Dissolved	0.0014		0.0010	0.0010
Manganese, Dissolved	0.53		0.0010	0.0010
Nickel, Dissolved	0.0053		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	0.0053		0.0020	0.0020
Zinc, Dissolved	0.013		0.0050	0.0050

Client Sample ID: **MW-15R**

Lab Sample ID: 280-76731-6 Date Sampled: 11/11/2015 0830
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2357			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1939			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 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	8.7		0.050	0.050
Sodium, Dissolved	5.3		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1803			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	101SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2254			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0050		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-76731-6
Client Matrix: Water

Date Sampled: 11/11/2015 0830
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.0029		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	0.0030		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	241SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0535			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0050		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	0.0022		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	0.0031		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client Sample ID: **MW-36A**

Lab Sample ID: 280-76731-7 Date Sampled: 11/11/2015 0915
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0000			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1952			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 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	ND		0.060	0.060
Magnesium, Dissolved	6.4		0.050	0.050
Sodium, Dissolved	6.2		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1805			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	102SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2258			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0025		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0086		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-76731-7
Client Matrix: Water

Date Sampled: 11/11/2015 0915
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
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	0.0028		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	242SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0539			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

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	0.0095		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	0.0030		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client Sample ID: **MW-4**

Lab Sample ID: 280-76731-8 Date Sampled: 11/11/2015 1225
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0003			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.42		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1954			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	8.0		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	3.8		0.050	0.050
Sodium, Dissolved	4.7		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1808			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	103SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2301			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.021		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-4**

Lab Sample ID: 280-76731-8
Client Matrix: Water

Date Sampled: 11/11/2015 1225
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	5.4		0.0010	0.0010
Nickel, Total	0.0053		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	0.0070		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	243SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0542			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0026		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	0.24		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 Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9 Date Sampled: 11/11/2015 1115
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0005			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.11		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1957			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	13		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.12		0.060	0.060
Magnesium, Dissolved	6.7		0.050	0.050
Sodium, Dissolved	6.0		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1811			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	1.5		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	104SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2305			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0036		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-19C**

Lab Sample ID: 280-76731-9
Client Matrix: Water

Date Sampled: 11/11/2015 1115
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	1.1		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

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	244SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0546			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0045		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	1.3		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 Sample ID: **MW-32**

Lab Sample ID: 280-76731-10 Date Sampled: 11/11/2015 1305
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0018			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.85		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2000			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	36		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.83		0.060	0.060
Magnesium, Dissolved	17		0.050	0.050
Sodium, Dissolved	17		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1813			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	1.3		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	105SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2309			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0074		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-32**

Lab Sample ID: 280-76731-10
Client Matrix: Water

Date Sampled: 11/11/2015 1305
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	2.9		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

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	245SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0550			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0071		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	3.0		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 Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11 Date Sampled: 11/11/2015 1015
Client Matrix: Water Date Received: 11/12/2015 0930

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-306559	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0021			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	1.8		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-306558	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2002			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	11		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.58		0.060	0.060
Magnesium, Dissolved	4.8		0.050	0.050
Sodium, Dissolved	3.4		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-306929	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-305126	Lab File ID:	25A120715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/07/2015 1816			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				

Analyte	Result (mg/L)	Qualifier	RL	RL
Potassium, Dissolved	ND		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-305274	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304917	Lab File ID:	106SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2312			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0028		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

Client: Waste Management

Job Number: 280-76731-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11
Client Matrix: Water

Date Sampled: 11/11/2015 1015
Date Received: 11/12/2015 0930

6020 Metals (ICP/MS)-Total Recoverable

Analyte	Result (mg/L)	Qualifier	RL	RL
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.094		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

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-305049	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-304715	Lab File ID:	246SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0553			Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0020		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	0.089		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-16

Lab Sample ID: 280-76731-1 Date Sampled: 11/11/2015 0846
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	ND		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2214						
Sulfate	2.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2214						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1548						
Nitrate as N	0.19		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	65		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1844						
Alkalinity, Bicarbonate (As CaCO3)	65		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1844						
Total Dissolved Solids (TDS)	99		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 1920						

General Chemistry

Client Sample ID: MW-33C

Lab Sample ID: 280-76731-2 Date Sampled: 11/11/2015 1110
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2231						
Sulfate	8.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2231						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1550						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1849						
Alkalinity, Bicarbonate (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1849						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 1935						

General Chemistry

Client Sample ID: MW-24

Lab Sample ID: 280-76731-3 Date Sampled: 11/11/2015 1245
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2249						
Sulfate	4.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2249						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1552						
Nitrate as N	0.14		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1923						
Alkalinity, Bicarbonate (As CaCO3)	64		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1923						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	9.2		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 2024						

General Chemistry

Client Sample ID: MW-39

Lab Sample ID: 280-76731-5 Date Sampled: 11/11/2015 1010
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	5.6		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2307						
Sulfate	ND		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305238	Analysis Date: 11/23/2015 2307						
Ammonia (as N)	0.41		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1554						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2032						
Alkalinity, Bicarbonate (As CaCO3)	100		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2032						
Total Dissolved Solids (TDS)	140		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	130		mg/L	10	10	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	2.8		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 2332						

General Chemistry

Client Sample ID: MW-15R

Lab Sample ID: 280-76731-6 Date Sampled: 11/11/2015 0830
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0152						
Sulfate	4.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0152						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1556						
Nitrate as N	0.18		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	75		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2037						
Alkalinity, Bicarbonate (As CaCO3)	75		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2037						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 2347						

General Chemistry

Client Sample ID: MW-36A

Lab Sample ID: 280-76731-7 Date Sampled: 11/11/2015 0915
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0312						
Sulfate	2.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0312						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1558						
Nitrate as N	0.39		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	62		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2042						
Alkalinity, Bicarbonate (As CaCO3)	62		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2042						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/18/2015 0001						

General Chemistry

Client Sample ID: MW-4

Lab Sample ID: 280-76731-8 Date Sampled: 11/11/2015 1225
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0331						
Sulfate	2.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0331						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1614						
Nitrate as N	0.79		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	39		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2047						
Alkalinity, Bicarbonate (As CaCO3)	39		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304527	Analysis Date: 11/16/2015 2047						
Total Dissolved Solids (TDS)	67		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	27		mg/L	6.7	6.7	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/18/2015 0031						

General Chemistry

Client Sample ID: MW-19C

Lab Sample ID: 280-76731-9 Date Sampled: 11/11/2015 1115
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0351						
Sulfate	4.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0351						
Ammonia (as N)	0.56		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1622						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1018						
Alkalinity, Total (As CaCO3)	70		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1919						
Alkalinity, Bicarbonate (As CaCO3)	70		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1919						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/18/2015 0016						

General Chemistry

Client Sample ID: MW-32

Lab Sample ID: 280-76731-10 Date Sampled: 11/11/2015 1305
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	12		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0411						
Sulfate	16		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0411						
Ammonia (as N)	0.039		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1628						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1019						
Alkalinity, Total (As CaCO3)	160		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1928						
Alkalinity, Bicarbonate (As CaCO3)	160		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1928						
Total Dissolved Solids (TDS)	260		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	1.8		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 2038						

General Chemistry

Client Sample ID: **MW-33A**

Lab Sample ID: 280-76731-11 Date Sampled: 11/11/2015 1015
Client Matrix: Water Date Received: 11/12/2015 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0431						
Sulfate	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-305236	Analysis Date: 11/24/2015 0431						
Ammonia (as N)	0.21		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-304781	Analysis Date: 11/18/2015 1630						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-305442	Analysis Date: 11/24/2015 1019						
Alkalinity, Total (As CaCO3)	48		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1910						
Alkalinity, Bicarbonate (As CaCO3)	48		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-304851	Analysis Date: 11/18/2015 1910						
Total Dissolved Solids (TDS)	83		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-304077	Analysis Date: 11/13/2015 1630						
Total Suspended Solids	4.0		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-304547	Analysis Date: 11/17/2015 1533						
Total Organic Carbon - Average	2.3		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-304731	Analysis Date: 11/17/2015 2053						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-76731-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD is outside acceptance limits.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F1	MS and/or MSD Recovery is outside acceptance limits.

QUALITY CONTROL RESULTS

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-275770					
LCS 480-275770/3	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-275770/4	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-275770/6	Method Blank	T	Water	8260C SIM	
280-76731-1	MW-16	T	Water	8260C SIM	
280-76731-2	MW-33C	T	Water	8260C SIM	
280-76731-3	MW-24	T	Water	8260C SIM	
280-76731-4TB	TRIP BLANK	T	Water	8260C SIM	
280-76731-5	MW-39	T	Water	8260C SIM	
280-76731-6	MW-15R	T	Water	8260C SIM	
280-76731-7	MW-36A	T	Water	8260C SIM	
280-76731-8	MW-4	T	Water	8260C SIM	
280-76731-9	MW-19C	T	Water	8260C SIM	
280-76731-10	MW-32	T	Water	8260C SIM	
280-76731-11	MW-33A	T	Water	8260C SIM	
480-90821-H-2 MS	Matrix Spike	T	Water	8260C SIM	
480-90821-H-2 MSD	Matrix Spike Duplicate	T	Water	8260C SIM	
Analysis Batch:480-276380					
LCS 480-276380/4	Lab Control Sample	T	Water	8260C	
MB 480-276380/6	Method Blank	T	Water	8260C	
280-76731-1	MW-16	T	Water	8260C	
280-76731-2	MW-33C	T	Water	8260C	
280-76731-3	MW-24	T	Water	8260C	
280-76731-4TB	TRIP BLANK	T	Water	8260C	
280-76731-5	MW-39	T	Water	8260C	
280-76731-6	MW-15R	T	Water	8260C	
280-76731-7	MW-36A	T	Water	8260C	
280-76731-8	MW-4	T	Water	8260C	
280-76731-9	MW-19C	T	Water	8260C	
Analysis Batch:480-276660					
LCS 480-276660/4	Lab Control Sample	T	Water	8260C	
MB 480-276660/6	Method Blank	T	Water	8260C	
200-30771-A-9 MS	Matrix Spike	T	Water	8260C	
200-30771-A-9 MSD	Matrix Spike Duplicate	T	Water	8260C	
280-76731-10	MW-32	T	Water	8260C	
280-76731-11	MW-33A	T	Water	8260C	

Report Basis
T = Total

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-304715					
LCS 280-304715/2-A	Lab Control Sample	R	Water	3005A	
MB 280-304715/1-A	Method Blank	R	Water	3005A	
280-76731-1	MW-16	D	Water	3005A	
280-76731-1MS	Matrix Spike	D	Water	3005A	
280-76731-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76731-2	MW-33C	D	Water	3005A	
280-76731-3	MW-24	D	Water	3005A	
280-76731-5	MW-39	D	Water	3005A	
280-76731-6	MW-15R	D	Water	3005A	
280-76731-7	MW-36A	D	Water	3005A	
280-76731-8	MW-4	D	Water	3005A	
280-76731-9	MW-19C	D	Water	3005A	
280-76731-10	MW-32	D	Water	3005A	
280-76731-11	MW-33A	D	Water	3005A	
Prep Batch: 280-304917					
LCS 280-304917/2-A	Lab Control Sample	R	Water	3005A	
MB 280-304917/1-A	Method Blank	R	Water	3005A	
280-76731-1	MW-16	R	Water	3005A	
280-76731-1MS	Matrix Spike	R	Water	3005A	
280-76731-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-76731-2	MW-33C	R	Water	3005A	
280-76731-3	MW-24	R	Water	3005A	
280-76731-5	MW-39	R	Water	3005A	
280-76731-6	MW-15R	R	Water	3005A	
280-76731-7	MW-36A	R	Water	3005A	
280-76731-8	MW-4	R	Water	3005A	
280-76731-9	MW-19C	R	Water	3005A	
280-76731-10	MW-32	R	Water	3005A	
280-76731-11	MW-33A	R	Water	3005A	

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-305049					
LCS 280-304715/2-A	Lab Control Sample	R	Water	6020	280-304715
MB 280-304715/1-A	Method Blank	R	Water	6020	280-304715
280-76731-1	MW-16	D	Water	6020	280-304715
280-76731-1MS	Matrix Spike	D	Water	6020	280-304715
280-76731-1MSD	Matrix Spike Duplicate	D	Water	6020	280-304715
280-76731-2	MW-33C	D	Water	6020	280-304715
280-76731-3	MW-24	D	Water	6020	280-304715
280-76731-5	MW-39	D	Water	6020	280-304715
280-76731-6	MW-15R	D	Water	6020	280-304715
280-76731-7	MW-36A	D	Water	6020	280-304715
280-76731-8	MW-4	D	Water	6020	280-304715
280-76731-9	MW-19C	D	Water	6020	280-304715
280-76731-10	MW-32	D	Water	6020	280-304715
280-76731-11	MW-33A	D	Water	6020	280-304715
Prep Batch: 280-305126					
LCS 280-305126/2-A	Lab Control Sample	R	Water	3005A	
MB 280-305126/1-A	Method Blank	R	Water	3005A	
280-76728-M-1-C MS	Matrix Spike	D	Water	3005A	
280-76728-M-1-D MSD	Matrix Spike Duplicate	D	Water	3005A	
280-76731-1	MW-16	D	Water	3005A	
280-76731-2	MW-33C	D	Water	3005A	
280-76731-3	MW-24	D	Water	3005A	
280-76731-5	MW-39	D	Water	3005A	
280-76731-6	MW-15R	D	Water	3005A	
280-76731-7	MW-36A	D	Water	3005A	
280-76731-8	MW-4	D	Water	3005A	
280-76731-9	MW-19C	D	Water	3005A	
280-76731-10	MW-32	D	Water	3005A	
280-76731-11	MW-33A	D	Water	3005A	

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-305274					
LCS 280-304917/2-A	Lab Control Sample	R	Water	6020	280-304917
MB 280-304917/1-A	Method Blank	R	Water	6020	280-304917
280-76731-1	MW-16	R	Water	6020	280-304917
280-76731-1MS	Matrix Spike	R	Water	6020	280-304917
280-76731-1MSD	Matrix Spike Duplicate	R	Water	6020	280-304917
280-76731-2	MW-33C	R	Water	6020	280-304917
280-76731-3	MW-24	R	Water	6020	280-304917
280-76731-5	MW-39	R	Water	6020	280-304917
280-76731-6	MW-15R	R	Water	6020	280-304917
280-76731-7	MW-36A	R	Water	6020	280-304917
280-76731-8	MW-4	R	Water	6020	280-304917
280-76731-9	MW-19C	R	Water	6020	280-304917
280-76731-10	MW-32	R	Water	6020	280-304917
280-76731-11	MW-33A	R	Water	6020	280-304917
Prep Batch: 280-305372					
LCS 280-305372/2-A	Lab Control Sample	R	Water	3005A	
MB 280-305372/1-A	Method Blank	R	Water	3005A	
280-76731-1	MW-16	R	Water	3005A	
280-76731-2	MW-33C	R	Water	3005A	
280-76731-3	MW-24	R	Water	3005A	
280-76731-5	MW-39	R	Water	3005A	
280-76731-6	MW-15R	R	Water	3005A	
280-76731-7	MW-36A	R	Water	3005A	
280-76731-8	MW-4	R	Water	3005A	
280-76731-9	MW-19C	R	Water	3005A	
280-76731-10	MW-32	R	Water	3005A	
280-76731-11	MW-33A	R	Water	3005A	
280-76799-A-1-B MS	Matrix Spike	R	Water	3005A	
280-76799-A-1-C MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-305598					
280-76731-5	MW-39	R	Water	6020	280-304917

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-306558					
LCS 280-305126/2-A	Lab Control Sample	R	Water	6010B	280-305126
MB 280-305126/1-A	Method Blank	R	Water	6010B	280-305126
280-76728-M-1-C MS	Matrix Spike	D	Water	6010B	280-305126
280-76728-M-1-D MSD	Matrix Spike Duplicate	D	Water	6010B	280-305126
280-76731-1	MW-16	D	Water	6010B	280-305126
280-76731-2	MW-33C	D	Water	6010B	280-305126
280-76731-3	MW-24	D	Water	6010B	280-305126
280-76731-5	MW-39	D	Water	6010B	280-305126
280-76731-6	MW-15R	D	Water	6010B	280-305126
280-76731-7	MW-36A	D	Water	6010B	280-305126
280-76731-8	MW-4	D	Water	6010B	280-305126
280-76731-9	MW-19C	D	Water	6010B	280-305126
280-76731-10	MW-32	D	Water	6010B	280-305126
280-76731-11	MW-33A	D	Water	6010B	280-305126
Analysis Batch:280-306559					
LCS 280-305372/2-A	Lab Control Sample	R	Water	6010B	280-305372
MB 280-305372/1-A	Method Blank	R	Water	6010B	280-305372
280-76731-1	MW-16	R	Water	6010B	280-305372
280-76731-2	MW-33C	R	Water	6010B	280-305372
280-76731-3	MW-24	R	Water	6010B	280-305372
280-76731-5	MW-39	R	Water	6010B	280-305372
280-76731-6	MW-15R	R	Water	6010B	280-305372
280-76731-7	MW-36A	R	Water	6010B	280-305372
280-76731-8	MW-4	R	Water	6010B	280-305372
280-76731-9	MW-19C	R	Water	6010B	280-305372
280-76731-10	MW-32	R	Water	6010B	280-305372
280-76731-11	MW-33A	R	Water	6010B	280-305372
280-76799-A-1-B MS	Matrix Spike	R	Water	6010B	280-305372
280-76799-A-1-C MSD	Matrix Spike Duplicate	R	Water	6010B	280-305372
Analysis Batch:280-306693					
LCS 280-305126/2-A	Lab Control Sample	R	Water	6010B	280-305126
MB 280-305126/1-A	Method Blank	R	Water	6010B	280-305126
280-76728-M-1-C MS	Matrix Spike	D	Water	6010B	280-305126
280-76728-M-1-D MSD	Matrix Spike Duplicate	D	Water	6010B	280-305126

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-306929					
280-76731-1	MW-16	D	Water	6010B	280-305126
280-76731-2	MW-33C	D	Water	6010B	280-305126
280-76731-3	MW-24	D	Water	6010B	280-305126
280-76731-5	MW-39	D	Water	6010B	280-305126
280-76731-6	MW-15R	D	Water	6010B	280-305126
280-76731-7	MW-36A	D	Water	6010B	280-305126
280-76731-8	MW-4	D	Water	6010B	280-305126
280-76731-9	MW-19C	D	Water	6010B	280-305126
280-76731-10	MW-32	D	Water	6010B	280-305126
280-76731-11	MW-33A	D	Water	6010B	280-305126

Report Basis
D = Dissolved
R = Total Recoverable

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304077					
LCS 280-304077/2	Lab Control Sample	T	Water	SM 2540C	
MB 280-304077/1	Method Blank	T	Water	SM 2540C	
280-76731-1	MW-16	T	Water	SM 2540C	
280-76731-1DU	Duplicate	T	Water	SM 2540C	
280-76731-2	MW-33C	T	Water	SM 2540C	
280-76731-3	MW-24	T	Water	SM 2540C	
280-76731-5	MW-39	T	Water	SM 2540C	
280-76731-6	MW-15R	T	Water	SM 2540C	
280-76731-7	MW-36A	T	Water	SM 2540C	
280-76731-8	MW-4	T	Water	SM 2540C	
280-76731-9	MW-19C	T	Water	SM 2540C	
280-76731-10	MW-32	T	Water	SM 2540C	
280-76731-11	MW-33A	T	Water	SM 2540C	
Analysis Batch:280-304527					
LCS 280-304527/30	Lab Control Sample	T	Water	SM 2320B	
LCS 280-304527/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-304527/31	Method Blank	T	Water	SM 2320B	
MB 280-304527/5	Method Blank	T	Water	SM 2320B	
280-76669-F-11 DU	Duplicate	T	Water	SM 2320B	
280-76731-5	MW-39	T	Water	SM 2320B	
280-76731-6	MW-15R	T	Water	SM 2320B	
280-76731-7	MW-36A	T	Water	SM 2320B	
280-76731-8	MW-4	T	Water	SM 2320B	
Analysis Batch:280-304547					
LCS 280-304547/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-304547/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-304547/3	Method Blank	T	Water	SM 2540D	
280-76731-1	MW-16	T	Water	SM 2540D	
280-76731-1DU	Duplicate	T	Water	SM 2540D	
280-76731-2	MW-33C	T	Water	SM 2540D	
280-76731-3	MW-24	T	Water	SM 2540D	
280-76731-5	MW-39	T	Water	SM 2540D	
280-76731-6	MW-15R	T	Water	SM 2540D	
280-76731-7	MW-36A	T	Water	SM 2540D	
280-76731-8	MW-4	T	Water	SM 2540D	
280-76731-9	MW-19C	T	Water	SM 2540D	
280-76731-10	MW-32	T	Water	SM 2540D	
280-76731-11	MW-33A	T	Water	SM 2540D	

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304731					
LCS 280-304731/3	Lab Control Sample	T	Water	SM 5310B	
MB 280-304731/4	Method Blank	T	Water	SM 5310B	
280-76730-A-1 MS	Matrix Spike	T	Water	SM 5310B	
280-76730-A-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-76731-1	MW-16	T	Water	SM 5310B	
280-76731-2	MW-33C	T	Water	SM 5310B	
280-76731-3	MW-24	T	Water	SM 5310B	
280-76731-5	MW-39	T	Water	SM 5310B	
280-76731-6	MW-15R	T	Water	SM 5310B	
280-76731-7	MW-36A	T	Water	SM 5310B	
280-76731-8	MW-4	T	Water	SM 5310B	
280-76731-9	MW-19C	T	Water	SM 5310B	
280-76731-10	MW-32	T	Water	SM 5310B	
280-76731-11	MW-33A	T	Water	SM 5310B	
280-76835-C-7 MS	Matrix Spike	T	Water	SM 5310B	
280-76835-C-7 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-304781					
LCS 280-304781/112	Lab Control Sample	T	Water	350.1	
LCS 280-304781/64	Lab Control Sample	T	Water	350.1	
LCSD 280-304781/113	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-304781/65	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-304781/114	Method Blank	T	Water	350.1	
MB 280-304781/66	Method Blank	T	Water	350.1	
280-76731-1	MW-16	T	Water	350.1	
280-76731-2	MW-33C	T	Water	350.1	
280-76731-3	MW-24	T	Water	350.1	
280-76731-5	MW-39	T	Water	350.1	
280-76731-6	MW-15R	T	Water	350.1	
280-76731-7	MW-36A	T	Water	350.1	
280-76731-8	MW-4	T	Water	350.1	
280-76731-9	MW-19C	T	Water	350.1	
280-76731-9MS	Matrix Spike	T	Water	350.1	
280-76731-9MSD	Matrix Spike Duplicate	T	Water	350.1	
280-76731-10	MW-32	T	Water	350.1	
280-76731-11	MW-33A	T	Water	350.1	

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-304851					
LCS 280-304851/30	Lab Control Sample	T	Water	SM 2320B	
LCS 280-304851/4	Lab Control Sample	T	Water	SM 2320B	
MB 280-304851/31	Method Blank	T	Water	SM 2320B	
MB 280-304851/5	Method Blank	T	Water	SM 2320B	
280-76731-1	MW-16	T	Water	SM 2320B	
280-76731-2	MW-33C	T	Water	SM 2320B	
280-76731-3	MW-24	T	Water	SM 2320B	
280-76731-9	MW-19C	T	Water	SM 2320B	
280-76731-10	MW-32	T	Water	SM 2320B	
280-76731-11	MW-33A	T	Water	SM 2320B	
280-76731-11DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-305236					
LCS 280-305236/4	Lab Control Sample	T	Water	300.0	
LCSD 280-305236/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-305236/6	Method Blank	T	Water	300.0	
280-76731-6	MW-15R	T	Water	300.0	
280-76731-6DU	Duplicate	T	Water	300.0	
280-76731-6MS	Matrix Spike	T	Water	300.0	
280-76731-6MSD	Matrix Spike Duplicate	T	Water	300.0	
280-76731-7	MW-36A	T	Water	300.0	
280-76731-8	MW-4	T	Water	300.0	
280-76731-9	MW-19C	T	Water	300.0	
280-76731-10	MW-32	T	Water	300.0	
280-76731-11	MW-33A	T	Water	300.0	
280-76731-11DU	Duplicate	T	Water	300.0	
280-76731-11MS	Matrix Spike	T	Water	300.0	
280-76731-11MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-305238					
LCS 280-305238/4	Lab Control Sample	T	Water	300.0	
LCSD 280-305238/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-305238/6	Method Blank	T	Water	300.0	
280-76711-A-1 DU	Duplicate	T	Water	300.0	
280-76711-A-1 MS	Matrix Spike	T	Water	300.0	
280-76711-A-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-76731-1	MW-16	T	Water	300.0	
280-76731-2	MW-33C	T	Water	300.0	
280-76731-3	MW-24	T	Water	300.0	
280-76731-5	MW-39	T	Water	300.0	

Client: Waste Management Job Number: 280-76731-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-305442					
MB 280-305442/1	Method Blank	T	Water	353.2	
280-76731-1	MW-16	T	Water	353.2	
280-76731-2	MW-33C	T	Water	353.2	
280-76731-3	MW-24	T	Water	353.2	
280-76731-5	MW-39	T	Water	353.2	
280-76731-6	MW-15R	T	Water	353.2	
280-76731-7	MW-36A	T	Water	353.2	
280-76731-8	MW-4	T	Water	353.2	
280-76731-9	MW-19C	T	Water	353.2	
280-76731-10	MW-32	T	Water	353.2	
280-76731-11	MW-33A	T	Water	353.2	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-76731-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-76731-1	MW-16	91	93	89
280-76731-2	MW-33C	89	94	88
280-76731-3	MW-24	92	97	88
280-76731-4	TRIP BLANK	93	95	91
280-76731-5	MW-39	92	98	88
280-76731-6	MW-15R	92	93	86
280-76731-7	MW-36A	92	97	87
280-76731-8	MW-4	99	98	89
280-76731-9	MW-19C	87	99	90
280-76731-10	MW-32	104	97	92
280-76731-11	MW-33A	103	97	91
MB 480-276380/6		86	97	91
MB 480-276660/6		92	92	90
LCS 480-276380/4		84	102	92
LCS 480-276660/4		87	98	91

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: 280-76731-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec
200-30771-A-9 MS		97	90
200-30771-A-9 MSD		93	89

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-76731-1	MW-16	102	95
280-76731-2	MW-33C	104	111
280-76731-3	MW-24	103	100
280-76731-4	TRIP BLANK	104	108
280-76731-5	MW-39	104	101
280-76731-6	MW-15R	105	89
280-76731-7	MW-36A	105	85
280-76731-8	MW-4	105	94
280-76731-9	MW-19C	106	126
280-76731-10	MW-32	105	90
280-76731-11	MW-33A	105	93
MB 480-275770/6		103	101
LCS 480-275770/3		103	129
LCSD 480-275770/4		102	138
480-90821-H-2 MS		108	126
480-90821-H-2 MSD		109	127

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 480-276380

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276380/6	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4685.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/22/2015 2356	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/22/2015 2356				
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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Method Blank - Batch: 480-276380

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276380/6	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4685.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/22/2015 2356	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/22/2015 2356				
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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 480-276380

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276380/6	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4685.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/22/2015 2356	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/22/2015 2356				
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)	86	66 - 137
4-Bromofluorobenzene (Surr)	97	73 - 120
Toluene-d8 (Surr)	91	71 - 126

Method Blank TICs- Batch: 480-276380

Cas Number	Analyte	RT	Est. Result (ug/	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-76731-1

Lab Control Sample - Batch: 480-276380

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-276380/4	Analysis Batch:	480-276380	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4683.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/22/2015 2302	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/22/2015 2302				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.9	104	71 - 129	
1,1-Dichloroethene	25.0	28.5	114	58 - 121	
1,2,4-Trimethylbenzene	25.0	26.3	105	76 - 121	
1,2-Dichlorobenzene	25.0	27.3	109	80 - 124	
1,2-Dichloroethane	25.0	23.4	94	75 - 127	
Benzene	25.0	26.7	107	71 - 124	
Bromoform	25.0	33.6	134	52 - 132	*
Butyl alcohol, tert-	250	270	108	75 - 125	
Chlorobenzene	25.0	26.7	107	72 - 120	
cis-1,2-Dichloroethene	25.0	29.0	116	74 - 124	
Dibromochloromethane	25.0	32.0	128	75 - 125	*
Ethylbenzene	25.0	25.8	103	77 - 123	
Methyl tert-butyl ether	25.0	25.3	101	64 - 127	
m-Xylene & p-Xylene	25.0	26.9	108	76 - 122	
o-Xylene	25.0	25.8	103	76 - 122	
Tetrachloroethene	25.0	28.9	116	74 - 122	
Toluene	25.0	25.7	103	80 - 122	
trans-1,2-Dichloroethene	25.0	27.9	112	73 - 127	
Trichloroethene	25.0	28.1	112	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	92	71 - 126

Method Blank - Batch: 480-276660

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276660/6	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4767.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1131	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1131				
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		0.81	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
2-Hexanone	ND		1.2	5.0
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Acetonitrile	ND		4.9	15
Acrolein	ND		0.91	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
Butyl alcohol, n-	ND		8.9	40
Butyl alcohol, tert-	ND		3.3	10
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: 280-76731-1

Method Blank - Batch: 480-276660

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276660/6	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4767.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1131	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1131				
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		4.8	25
Isopropyl ether	ND		0.59	1.0
Isopropylbenzene	ND		0.79	1.0
Methacrylonitrile	ND		0.69	5.0
Methyl acetate	ND		1.3	2.5
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
n-Butylbenzene	ND		0.64	1.0
N-Propylbenzene	ND		0.69	1.0
o-Chlorotoluene	ND		0.86	1.0
o-Xylene	ND		0.76	1.0
p-Chlorotoluene	ND		0.84	1.0
p-Cymene	ND		0.31	1.0
sec-Butylbenzene	ND		0.75	1.0
Styrene	ND		0.73	1.0
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		0.22	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 480-276660

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-276660/6	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4767.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1131	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1131				
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)	92	66 - 137
4-Bromofluorobenzene (Surr)	92	73 - 120
Toluene-d8 (Surr)	90	71 - 126

Method Blank TICs- Batch: 480-276660

Cas Number	Analyte	RT	Est. Result (ug/	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-76731-1

Lab Control Sample - Batch: 480-276660

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-276660/4	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4765.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 1038	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 1038				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	22.7	91	71 - 129	
1,1-Dichloroethene	25.0	24.1	97	58 - 121	
1,2,4-Trimethylbenzene	25.0	22.9	92	76 - 121	
1,2-Dichlorobenzene	25.0	24.5	98	80 - 124	
1,2-Dichloroethane	25.0	22.6	90	75 - 127	
Benzene	25.0	23.5	94	71 - 124	
Bromoform	25.0	31.4	125	52 - 132	
Butyl alcohol, tert-	250	328	131	75 - 125	*
Chlorobenzene	25.0	24.3	97	72 - 120	
cis-1,2-Dichloroethene	25.0	25.1	101	74 - 124	
Dibromochloromethane	25.0	29.9	119	75 - 125	
Ethylbenzene	25.0	23.0	92	77 - 123	
Methyl tert-butyl ether	25.0	22.1	88	64 - 127	
m-Xylene & p-Xylene	25.0	23.0	92	76 - 122	
o-Xylene	25.0	23.0	92	76 - 122	
Tetrachloroethene	25.0	26.0	104	74 - 122	
Toluene	25.0	22.7	91	80 - 122	
trans-1,2-Dichloroethene	25.0	24.9	99	73 - 127	
Trichloroethene	25.0	25.5	102	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	66 - 137
4-Bromofluorobenzene (Surr)	98	73 - 120
Toluene-d8 (Surr)	91	71 - 126

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-276660

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	200-30771-A-9 MS	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4786.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 2021			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 2021				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	200-30771-A-9 MSD	Analysis Batch:	480-276660	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N4787.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 2048			Final Weight/Volume:	5 mL
Prep Date:	11/24/2015 2048				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	121	121	71 - 129	0	20		
1,1-Dichloroethene	126	132	58 - 121	5	16	F1	F1
1,2,4-Trimethylbenzene	116	115	76 - 121	0	20		
1,2-Dichlorobenzene	123	121	80 - 124	1	20		
1,2-Dichloroethane	120	109	75 - 127	9	20		
Benzene	124	123	71 - 124	1	13		
Bromoform	148	142	52 - 132	4	15	F1	F1
Chlorobenzene	121	121	72 - 120	0	25	F1	F1
cis-1,2-Dichloroethene	132	137	74 - 124	3	15	F1	F1
Dibromochloromethane	145	142	75 - 125	2	15	F1	F1
Ethylbenzene	118	115	77 - 123	3	15		
Methyl tert-butyl ether	110	114	64 - 127	4	37		
m-Xylene & p-Xylene	120	119	76 - 122	1	16		
o-Xylene	115	115	76 - 122	0	16		
Tetrachloroethene	133	130	74 - 122	3	20	F1	F1
Toluene	115	113	80 - 122	2	15		
trans-1,2-Dichloroethene	137	135	73 - 127	1	20	F1	F1
Trichloroethene	135	134	74 - 123	1	16	F1	F1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	93	66 - 137
Toluene-d8 (Surr)	90	89	71 - 126

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-276660

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	200-30771-A-9 MS	Units: ug/L	MSD Lab Sample ID:	200-30771-A-9 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/24/2015 2021		Analysis Date:	11/24/2015 2048	
Prep Date:	11/24/2015 2021		Prep Date:	11/24/2015 2048	
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	30.3		30.4	
1,1-Dichloroethene	ND	25.0	25.0	31.4	F1	32.9	F1
1,2,4-Trimethylbenzene	ND	25.0	25.0	28.9		28.9	
1,2-Dichlorobenzene	ND	25.0	25.0	30.6		30.2	
1,2-Dichloroethane	ND	25.0	25.0	29.9		27.2	
Benzene	ND	25.0	25.0	30.9		30.6	
Bromoform	ND	25.0	25.0	36.9	F1	35.6	F1
Chlorobenzene	ND	25.0	25.0	30.2	F1	30.1	F1
cis-1,2-Dichloroethene	2.9	25.0	25.0	36.0	F1	37.1	F1
Dibromochloromethane	ND	25.0	25.0	36.2	F1	35.6	F1
Ethylbenzene	ND	25.0	25.0	29.5		28.7	
Methyl tert-butyl ether	ND	25.0	25.0	27.4		28.5	
m-Xylene & p-Xylene	ND	25.0	25.0	30.1		29.8	
o-Xylene	ND	25.0	25.0	28.8		28.8	
Tetrachloroethene	ND	25.0	25.0	33.4	F1	32.5	F1
Toluene	ND	25.0	25.0	28.7		28.2	
trans-1,2-Dichloroethene	1.3	25.0	25.0	35.6	F1	35.1	F1
Trichloroethene	9.4	25.0	25.0	43.2	F1	42.8	F1

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 480-275770

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	MB 480-275770/6	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7398.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0100	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0100				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	103	50 - 150
TBA-d9 (Surr)	101	50 - 150

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-275770

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-275770/3	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7395.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/18/2015 2348	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/18/2015 2348				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-275770/4	Analysis Batch:	480-275770	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J7396.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/19/2015 0012	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/19/2015 0012				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	102	108	50 - 150	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	103	102	50 - 150
TBA-d9 (Surr)	129	138	50 - 150

Client: Waste Management

Job Number: 280-76731-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-275770

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-275770/3	Units: ug/L	LCSD Lab Sample ID:	LCSD 480-275770/4
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/18/2015 2348		Analysis Date:	11/19/2015 0012
Prep Date:	11/18/2015 2348		Prep Date:	11/19/2015 0012
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Vinyl chloride	0.200	0.200	0.204	0.216

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	108	109	50 - 150
TBA-d9 (Surr)	126	127	50 - 150

Client: Waste Management Job Number: 280-76731-1

Method Blank - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-305126/1-A	Analysis Batch:	280-306558	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1847	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	ND		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Magnesium, Dissolved	ND		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	ND		1.0	1.0

Method Blank - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-305126/1-A	Analysis Batch:	280-306693	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25A120415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 1616	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Iron, Dissolved	ND		0.060	0.060

Client: Waste Management Job Number: 280-76731-1

Lab Control Sample - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-305126/2-A	Analysis Batch:	280-306558	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1850	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	49.8	100	90 - 111	
Cobalt, Dissolved	0.500	0.497	99	89 - 111	
Magnesium, Dissolved	50.0	47.7	95	90 - 113	
Potassium, Dissolved	50.0	51.3	103	89 - 114	
Sodium, Dissolved	50.0	52.9	106	90 - 115	

Lab Control Sample - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-305126/2-A	Analysis Batch:	280-306693	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25A120415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 1618	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron, Dissolved	1.00	1.00	100	89 - 115	

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76728-M-1-C MS	Analysis Batch:	280-306558	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1857			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76728-M-1-D MSD	Analysis Batch:	280-306558	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25B120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 1900			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	98	105	48 - 153	4	20		
Cobalt, Dissolved	95	101	82 - 119	5	20		
Magnesium, Dissolved	96	104	62 - 146	4	20		
Potassium, Dissolved	101	107	76 - 132	4	20		
Sodium, Dissolved	101	122	70 - 203	4	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76728-M-1-C MS	Analysis Batch:	280-306693	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25A120415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 1626			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76728-M-1-D MSD	Analysis Batch:	280-306693	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305126	Lab File ID:	25A120415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 1628			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron, Dissolved	94	98	52 - 155	4	20		

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76728-M-1-C MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/03/2015 1857		
Prep Date:	11/25/2015 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76728-M-1-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/03/2015 1900
Prep Date:	11/25/2015 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	44	50.0	50.0	93.3	97.0
Cobalt, Dissolved	ND	0.500	0.500	0.477	0.503
Magnesium, Dissolved	69	50.0	50.0	117	121
Potassium, Dissolved	15	50.0	50.0	65.5	68.1
Sodium, Dissolved	210	50.0	50.0	261 4	272 4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305126

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76728-M-1-C MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/04/2015 1626		
Prep Date:	11/25/2015 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76728-M-1-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/04/2015 1628
Prep Date:	11/25/2015 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron, Dissolved	0.065	1.00	1.00	1.01	1.05

Client: Waste Management Job Number: 280-76731-1

Method Blank - Batch: 280-305372

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-305372/1-A	Analysis Batch:	280-306559	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2340	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

Lab Control Sample - Batch: 280-305372

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-305372/2-A	Analysis Batch:	280-306559	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2015 2342	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.489	98	89 - 111	
Iron, Total	1.00	0.911	91	89 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305372

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76799-A-1-B MS	Analysis Batch:	280-306559	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0029			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76799-A-1-C MSD	Analysis Batch:	280-306559	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-305372	Lab File ID:	25C120315.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/04/2015 0031			Final Weight/Volume:	50 mL
Prep Date:	11/25/2015 0830				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	97	96	82 - 119	1	20		
Iron, Total	84	71	52 - 155	2	20	4	4

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305372

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76799-A-1-B MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/04/2015 0029		
Prep Date:	11/25/2015 0830		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76799-A-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/04/2015 0031
Prep Date:	11/25/2015 0830
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cobalt, Total	ND	0.500	0.500	0.485		0.480	
Iron, Total	4.6	1.00	1.00	5.43	4	5.30	4

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 280-304715

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-304715/1-A	Analysis Batch:	280-305049	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304715	Lab File ID:	220_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0420	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				
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: 280-304715

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-304715/2-A	Analysis Batch:	280-305049	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304715	Lab File ID:	221_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 0424	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2015 1445				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0351	88	85 - 115	
Barium, Dissolved	0.0400	0.0404	101	85 - 118	
Beryllium, Dissolved	0.0400	0.0405	101	80 - 125	
Cadmium, Dissolved	0.0400	0.0412	103	85 - 115	
Chromium, Dissolved	0.0400	0.0413	103	84 - 121	
Copper, Dissolved	0.0400	0.0411	103	85 - 119	
Lead, Dissolved	0.0400	0.0416	104	85 - 118	
Manganese, Dissolved	0.0400	0.0410	102	85 - 117	
Nickel, Dissolved	0.0400	0.0416	104	85 - 119	
Selenium, Dissolved	0.0400	0.0390	98	77 - 122	
Silver, Dissolved	0.0400	0.0408	102	85 - 115	
Thallium, Dissolved	0.0400	0.0413	103	85 - 118	
Vanadium, Dissolved	0.0400	0.0401	100	85 - 120	
Zinc, Dissolved	0.0400	0.0420	105	83 - 122	

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304715

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 280-76731-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/20/2015 0507
Prep Date: 11/19/2015 1445
Leach Date: N/A

Analysis Batch: 280-305049
Prep Batch: 280-304715
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 233SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-76731-1
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/20/2015 0510
Prep Date: 11/19/2015 1445
Leach Date: N/A

Analysis Batch: 280-305049
Prep Batch: 280-304715
Leach Batch: N/A

Instrument ID: MT_078
Lab File ID: 234SMPL.d
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	97	99	85 - 115	2	20		
Barium, Dissolved	107	108	85 - 118	1	20		
Beryllium, Dissolved	108	107	80 - 125	1	20		
Cadmium, Dissolved	105	104	85 - 115	2	20		
Chromium, Dissolved	107	107	84 - 121	0	20		
Copper, Dissolved	107	108	85 - 119	1	20		
Lead, Dissolved	107	108	85 - 118	1	20		
Manganese, Dissolved	107	109	85 - 117	1	20		
Nickel, Dissolved	114	115	85 - 119	1	20		
Selenium, Dissolved	101	102	77 - 122	2	20		
Silver, Dissolved	104	106	85 - 115	2	20		
Thallium, Dissolved	106	109	85 - 118	2	20		
Vanadium, Dissolved	103	105	85 - 120	2	20		
Zinc, Dissolved	112	112	83 - 122	0	20		

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304715

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-76731-1	Units: mg/L	MSD Lab Sample ID:	280-76731-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/20/2015 0507		Analysis Date:	11/20/2015 0510	
Prep Date:	11/19/2015 1445		Prep Date:	11/19/2015 1445	
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, Dissolved	ND	0.0400	0.0400	0.0389	0.0398
Barium, Dissolved	0.0040	0.0400	0.0400	0.0467	0.0472
Beryllium, Dissolved	ND	0.0400	0.0400	0.0430	0.0428
Cadmium, Dissolved	ND	0.0400	0.0400	0.0420	0.0414
Chromium, Dissolved	0.0077	0.0400	0.0400	0.0507	0.0506
Copper, Dissolved	ND	0.0400	0.0400	0.0426	0.0433
Lead, Dissolved	ND	0.0400	0.0400	0.0430	0.0432
Manganese, Dissolved	ND	0.0400	0.0400	0.0429	0.0435
Nickel, Dissolved	ND	0.0400	0.0400	0.0456	0.0462
Selenium, Dissolved	ND	0.0400	0.0400	0.0403	0.0409
Silver, Dissolved	ND	0.0400	0.0400	0.0415	0.0424
Thallium, Dissolved	ND	0.0400	0.0400	0.0426	0.0435
Vanadium, Dissolved	0.0038	0.0400	0.0400	0.0451	0.0460
Zinc, Dissolved	ND	0.0400	0.0400	0.0448	0.0449

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 280-304917

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-304917/1-A	Analysis Batch:	280-305274	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304917	Lab File ID:	089_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2211	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, 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: 280-304917

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-304917/2-A	Analysis Batch:	280-305274	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304917	Lab File ID:	090_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2215	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0404	101	85 - 115	
Barium, Total	0.0400	0.0433	108	85 - 118	
Beryllium, Total	0.0400	0.0375	94	80 - 125	
Cadmium, Total	0.0400	0.0411	103	85 - 115	
Chromium, Total	0.0400	0.0399	100	84 - 121	
Copper, Total	0.0400	0.0408	102	85 - 119	
Lead, Total	0.0400	0.0453	113	85 - 118	^
Manganese, Total	0.0400	0.0395	99	85 - 117	
Nickel, Total	0.0400	0.0410	102	85 - 119	
Selenium, Total	0.0400	0.0397	99	77 - 122	
Silver, Total	0.0400	0.0415	104	85 - 115	
Thallium, Total	0.0400	0.0442	110	85 - 118	^
Vanadium, Total	0.0400	0.0401	100	85 - 120	
Zinc, Total	0.0400	0.0401	100	83 - 122	

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304917

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76731-1	Analysis Batch:	280-305274	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304917	Lab File ID:	093SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2226			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76731-1	Analysis Batch:	280-305274	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-304917	Lab File ID:	094SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2015 2229			Final Weight/Volume:	50 mL
Prep Date:	11/20/2015 1430				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	101	103	85 - 115	2	20		
Barium, Total	107	107	85 - 118	0	20		
Beryllium, Total	95	97	80 - 125	1	20		
Cadmium, Total	104	101	85 - 115	3	20		
Chromium, Total	98	97	84 - 121	0	20		
Copper, Total	100	101	85 - 119	1	20		
Lead, Total	112	110	85 - 118	2	20	^	^
Manganese, Total	101	100	85 - 117	1	20		
Nickel, Total	106	107	85 - 119	1	20		
Selenium, Total	96	98	77 - 122	2	20		
Silver, Total	103	101	85 - 115	2	20		
Thallium, Total	110	109	85 - 118	1	20	^	^
Vanadium, Total	98	101	85 - 120	2	20		
Zinc, Total	102	104	83 - 122	1	20		

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304917

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-76731-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/20/2015 2226		
Prep Date:	11/20/2015 1430		
Leach Date:	N/A		

MSD Lab Sample ID:	280-76731-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/20/2015 2229
Prep Date:	11/20/2015 1430
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony, Total	0.0013	0.0400	0.0400	0.0417		0.0427	
Barium, Total	0.0043	0.0400	0.0400	0.0472		0.0473	
Beryllium, Total	ND	0.0400	0.0400	0.0381		0.0386	
Cadmium, Total	ND	0.0400	0.0400	0.0416		0.0406	
Chromium, Total	0.0071	0.0400	0.0400	0.0463		0.0461	
Copper, Total	ND	0.0400	0.0400	0.0400		0.0404	
Lead, Total	ND	0.0400	0.0400	0.0449	^	0.0439	^
Manganese, Total	0.0014	0.0400	0.0400	0.0417		0.0413	
Nickel, Total	ND	0.0400	0.0400	0.0424		0.0428	
Selenium, Total	ND	0.0400	0.0400	0.0383		0.0390	
Silver, Total	ND	0.0400	0.0400	0.0412		0.0404	
Thallium, Total	ND	0.0400	0.0400	0.0441	^	0.0437	^
Vanadium, Total	0.0034	0.0400	0.0400	0.0427		0.0437	
Zinc, Total	ND	0.0400	0.0400	0.0410		0.0414	

Method Blank - Batch: 280-305236

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-305236/6	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0007.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1020	Units:	mg/L	Final Weight/Volume:	5 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: 280-305236

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-305236/3	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0920	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	92	50 - 150	
Sulfate	2.50	ND	97	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305236/4	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0940	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-305236/5	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0006.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1000	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
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: 280-76731-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305236/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-305236/5
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/23/2015 0940		Analysis Date:	11/23/2015 1000
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	100	100	99.1	99.1
Sulfate	100	100	98.6	98.6

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76731-6	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0033.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0232			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-76731-6	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0034.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0252			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	84	87	80 - 120	3	20		
Sulfate	91	93	80 - 120	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76731-11	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0043.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0551			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-76731-11	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0044.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0611			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	83	86	80 - 120	3	20		
Sulfate	89	92	80 - 120	4	20		

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76731-6	Units: mg/L	MSD Lab Sample ID:	280-76731-6	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/24/2015 0232		Analysis Date:	11/24/2015 0252	
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	2.7	25.0	25.0	23.7	24.4
Sulfate	4.5	25.0	25.0	27.2	27.9

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305236

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76731-11	Units: mg/L	MSD Lab Sample ID:	280-76731-11	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/24/2015 0551		Analysis Date:	11/24/2015 0611	
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	2.3	25.0	25.0	23.1	23.9
Sulfate	2.1	25.0	25.0	24.3	25.2

Client: Waste Management

Job Number: 280-76731-1

Duplicate - Batch: 280-305236

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-76731-6	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0032.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0212	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.7	2.73	2	15	
Sulfate	4.5	4.54	0	15	

Duplicate - Batch: 280-305236

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-76731-11	Analysis Batch:	280-305236	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0040.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/24/2015 0451	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.3	2.31	0.8	15	
Sulfate	2.1	2.02	3	15	

Method Blank - Batch: 280-305238

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-305238/6	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	7.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1008	Units:	mg/L	Final Weight/Volume:	5 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: 280-305238

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-305238/3	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0915	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	85	50 - 150	
Sulfate	2.50	ND	86	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-305238

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305238/4	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0932	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-305238/5	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 0950	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	102	102	90 - 110	0	10		
Sulfate	101	101	90 - 110	0	10		

Client: Waste Management

Job Number: 280-76731-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-305238

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-305238/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-305238/5	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/23/2015 0932		Analysis Date:	11/23/2015 0950	
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	100	100	102	102
Sulfate	100	100	101	101

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305238

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76711-A-1 MS	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	22.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1433			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-76711-A-1 MSD	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	23.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1451			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	102	105	80 - 120	1	20		
Sulfate	101	150	80 - 120	15	20		F1

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-305238

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-76711-A-1 MS	Units: mg/L	MSD Lab Sample ID:	280-76711-A-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/23/2015 1433		Analysis Date:	11/23/2015 1451	
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	58	25.0	25.0	83.8	84.5	
Sulfate	51	25.0	25.0	76.1	88.5	F1

Duplicate - Batch: 280-305238

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-76711-A-1 DU	Analysis Batch:	280-305238	Instrument ID:	WC_IonChrom6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2015 1416	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	58	58.4	0.05	15	
Sulfate	51	50.9	0.2	15	

Client: Waste Management Job Number: 280-76731-1

Method Blank - Batch: 280-304781 **Method: 350.1**
Preparation: N/A

Lab Sample ID:	MB 280-304781/66	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1444	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Method Blank - Batch: 280-304781 **Method: 350.1**
Preparation: N/A

Lab Sample ID:	MB 280-304781/114	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1620	Units:	mg/L	Final Weight/Volume:	
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: 280-304781

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304781/64	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/18/2015 1440	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 280-304781/65	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/18/2015 1442	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)	102	103	90 - 110	1	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-304781

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304781/112	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/18/2015 1616	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 280-304781/113	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/18/2015 1618	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	103	90 - 110	2	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304781

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304781/64	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-304781/65	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/18/2015 1440		Analysis Date:	11/18/2015 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
Ammonia (as N)	2.50	2.50	2.54	2.58

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304781

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304781/112	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-304781/113	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/18/2015 1616		Analysis Date:	11/18/2015 1618	
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	2.57

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304781

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76731-9	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2015 1624			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76731-9	Analysis Batch:	280-304781	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111815.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/18/2015 1626			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
Ammonia (as N)	92	94	90 - 110	1	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304781

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-76731-9	Units:	mg/L	MSD Lab Sample ID:	280-76731-9
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/18/2015 1624			Analysis Date:	11/18/2015 1626
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)	0.56	1.00	1.00	1.48	1.50

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 280-305442

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-305442/1	Analysis Batch:	280-305442	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2015 1018	Units:	mg/L	Final Weight/Volume:	
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: 280-76731-1

Method Blank - Batch: 280-304527

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-304527/5	Analysis Batch:	280-304527	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1631	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

Method Blank - Batch: 280-304527

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-304527/31	Analysis Batch:	280-304527	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1911	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

Lab Control Sample - Batch: 280-304527

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304527/4	Analysis Batch:	280-304527	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1625	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	202	101	90 - 110	

Lab Control Sample - Batch: 280-304527

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304527/30	Analysis Batch:	280-304527	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1905	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	203	101	90 - 110	

Duplicate - Batch: 280-304527

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-76669-F-11 DU	Analysis Batch:	280-304527	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111615 alk.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/16/2015 1643	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)	370	358	2	10	

Client: Waste Management Job Number: 280-76731-1

Method Blank - Batch: 280-304851 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-304851/5	Analysis Batch:	280-304851	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111815.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1706	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

Method Blank - Batch: 280-304851 **Method: SM 2320B**
Preparation: N/A

Lab Sample ID:	MB 280-304851/31	Analysis Batch:	280-304851	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111815.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1906	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

Client: Waste Management Job Number: 280-76731-1

Lab Control Sample - Batch: 280-304851

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304851/4	Analysis Batch:	280-304851	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111815.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1702	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	195	97	90 - 110	

Lab Control Sample - Batch: 280-304851

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-304851/30	Analysis Batch:	280-304851	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111815.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1902	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total (As CaCO3)	200	193	96	90 - 110	

Duplicate - Batch: 280-304851

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-76731-11	Analysis Batch:	280-304851	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111815.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1914	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)	48	48.5	0.7	10	

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 280-304077

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-304077/1	Analysis Batch:	280-304077	Instrument ID:	WC_Cond_Orion
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:	11/13/2015 1630	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 - Batch: 280-304077

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	LCS 280-304077/2	Analysis Batch:	280-304077	Instrument ID:	WC_Cond_Orion
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:	11/13/2015 1630	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids (TDS)	501	500	100	86 - 110	

Duplicate - Batch: 280-304077

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-76731-1	Analysis Batch:	280-304077	Instrument ID:	WC_Cond_Orion
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:	11/13/2015 1630	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)	99	107	8	10	

Method Blank - Batch: 280-304547

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-304547/3	Analysis Batch:	280-304547	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/17/2015 1533	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Suspended Solids	ND		4.0	4.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-304547

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304547/1	Analysis Batch:	280-304547	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/17/2015 1533	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-304547/2	Analysis Batch:	280-304547	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/17/2015 1533	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Suspended Solids	90	90	86 - 114	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-304547

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-304547/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-304547/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/17/2015 1533			Analysis Date:	11/17/2015 1533
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 Suspended Solids	100	100	89.6	90.0

Client: Waste Management

Job Number: 280-76731-1

Duplicate - Batch: 280-304547

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-76731-1	Analysis Batch:	280-304547	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	11/17/2015 1533	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	ND	ND	NC	10	

Client: Waste Management

Job Number: 280-76731-1

Method Blank - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-304731/4	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 1657	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 - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 280-304731/3	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 1640	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon - Average	25.0	26.1	104	88 - 112	

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76730-A-1 MS	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 1817			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76730-A-1 MSD	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 1832			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	105	105	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76835-C-7 MS	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 2124			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-76835-C-7 MSD	Analysis Batch:	280-304731	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111715.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/17/2015 2139			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	104	104	88 - 112	1	15		

Client: Waste Management

Job Number: 280-76731-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76730-A-1 MS	Units: mg/L	MSD Lab Sample ID:	280-76730-A-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/17/2015 1817		Analysis Date:	11/17/2015 1832	
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	4.3	25.0	25.0	30.6	30.6

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-304731

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-76835-C-7 MS	Units: mg/L	MSD Lab Sample ID:	280-76835-C-7 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/17/2015 2124		Analysis Date:	11/17/2015 2139	
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	2.0	25.0	25.0	27.9	28.1

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-1 **Client ID: MW-16**

Sample Date/Time: 11/11/2015 08:46 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-1		480-276380		11/23/2015 03:04	1	TAL BUF	GTG
A:8260C	280-76731-F-1		480-276380		11/23/2015 03:04	1	TAL BUF	GTG
P:5030C	280-76731-K-1		480-275770		11/19/2015 02:28	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-1		480-275770		11/19/2015 02:28	1	TAL BUF	CDC
P:3005A	280-76731-D-1-D		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-1-D		280-306558	280-305126	12/03/2015 19:28	1	TAL DEN	CMK
P:3005A	280-76731-C-1-F		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-1-F		280-306559	280-305372	12/03/2015 23:47	1	TAL DEN	SJS
P:3005A	280-76731-D-1-D		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-1-D		280-306929	280-305126	12/07/2015 17:52	1	TAL DEN	CMK
P:3005A	280-76731-D-1-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-1-A		280-305049	280-304715	11/20/2015 05:00	1	TAL DEN	JM
P:3005A	280-76731-C-1-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-1-A		280-305274	280-304917	11/20/2015 22:19	1	TAL DEN	JM
A:300.0	280-76731-A-1		280-305238		11/23/2015 22:14	1	TAL DEN	TLP
A:350.1	280-76731-E-1		280-304781		11/18/2015 15:48	1	TAL DEN	KAM
A:353.2	280-76731-A-1		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-1		280-304851		11/18/2015 18:44	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-1		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-1		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-1		280-304731		11/17/2015 19:20	1	TAL DEN	CCJ

Lab ID: 280-76731-1 MS **Client ID: MW-16**

Sample Date/Time: 11/11/2015 08:46 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76731-D-1-B MS		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-1-B MS		280-305049	280-304715	11/20/2015 05:07	1	TAL DEN	JM
P:3005A	280-76731-C-1-D MS		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-1-D MS		280-305274	280-304917	11/20/2015 22:26	1	TAL DEN	JM

Lab ID: 280-76731-1 MSD **Client ID: MW-16**

Sample Date/Time: 11/11/2015 08:46 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-76731-D-1-C MSD		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-1-C MSD		280-305049	280-304715	11/20/2015 05:10	1	TAL DEN	JM
P:3005A	280-76731-C-1-E MSD		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-1-E MSD		280-305274	280-304917	11/20/2015 22:29	1	TAL DEN	JM

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-1 DU **Client ID: MW-16**

Sample Date/Time: 11/11/2015 08:46 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-76731-A-1 DU		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-1 DU		280-304547		11/17/2015 15:33	1	TAL DEN	MW1

Lab ID: 280-76731-2 **Client ID: MW-33C**

Sample Date/Time: 11/11/2015 11:10 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-2		480-276380		11/23/2015 03:31	1	TAL BUF	GTG
A:8260C	280-76731-F-2		480-276380		11/23/2015 03:31	1	TAL BUF	GTG
P:5030C	280-76731-K-2		480-275770		11/19/2015 02:52	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-2		480-275770		11/19/2015 02:52	1	TAL BUF	CDC
P:3005A	280-76731-D-2-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-2-B		280-306558	280-305126	12/03/2015 19:31	1	TAL DEN	CMK
P:3005A	280-76731-C-2-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-2-B		280-306559	280-305372	12/03/2015 23:50	1	TAL DEN	SJS
P:3005A	280-76731-D-2-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-2-B		280-306929	280-305126	12/07/2015 17:55	1	TAL DEN	CMK
P:3005A	280-76731-D-2-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-2-A		280-305049	280-304715	11/20/2015 05:18	1	TAL DEN	JM
P:3005A	280-76731-C-2-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-2-A		280-305274	280-304917	11/20/2015 22:36	1	TAL DEN	JM
A:300.0	280-76731-A-2		280-305238		11/23/2015 22:31	1	TAL DEN	TLP
A:350.1	280-76731-E-2		280-304781		11/18/2015 15:50	1	TAL DEN	KAM
A:353.2	280-76731-A-2		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-2		280-304851		11/18/2015 18:49	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-2		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-2		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-2		280-304731		11/17/2015 19:35	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-3 **Client ID: MW-24**

Sample Date/Time: 11/11/2015 12:45 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-3		480-276380		11/23/2015 03:57	1	TAL BUF	GTG
A:8260C	280-76731-F-3		480-276380		11/23/2015 03:57	1	TAL BUF	GTG
P:5030C	280-76731-K-3		480-275770		11/19/2015 03:16	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-3		480-275770		11/19/2015 03:16	1	TAL BUF	CDC
P:3005A	280-76731-D-3-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-3-B		280-306558	280-305126	12/03/2015 19:34	1	TAL DEN	CMK
P:3005A	280-76731-C-3-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-3-B		280-306559	280-305372	12/03/2015 23:52	1	TAL DEN	SJS
P:3005A	280-76731-D-3-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-3-B		280-306929	280-305126	12/07/2015 17:58	1	TAL DEN	CMK
P:3005A	280-76731-D-3-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-3-A		280-305049	280-304715	11/20/2015 05:21	1	TAL DEN	JM
P:3005A	280-76731-C-3-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-3-A		280-305274	280-304917	11/20/2015 22:40	1	TAL DEN	JM
A:300.0	280-76731-A-3		280-305238		11/23/2015 22:49	1	TAL DEN	TLP
A:350.1	280-76731-E-3		280-304781		11/18/2015 15:52	1	TAL DEN	KAM
A:353.2	280-76731-A-3		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-3		280-304851		11/18/2015 19:23	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-3		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-3		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-3		280-304731		11/17/2015 20:24	1	TAL DEN	CCJ

Lab ID: 280-76731-4 **Client ID: TRIP BLANK**

Sample Date/Time: 11/11/2015 00:00 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-A-4		480-276380		11/23/2015 04:24	1	TAL BUF	GTG
A:8260C	280-76731-A-4		480-276380		11/23/2015 04:24	1	TAL BUF	GTG
P:5030C	280-76731-B-4		480-275770		11/19/2015 03:40	1	TAL BUF	CDC
A:8260C SIM	280-76731-B-4		480-275770		11/19/2015 03:40	1	TAL BUF	CDC

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-5 **Client ID: MW-39**

Sample Date/Time: 11/11/2015 10:10 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-5		480-276380		11/23/2015 04:51	1	TAL BUF	GTG
A:8260C	280-76731-F-5		480-276380		11/23/2015 04:51	1	TAL BUF	GTG
P:5030C	280-76731-K-5		480-275770		11/19/2015 04:05	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-5		480-275770		11/19/2015 04:05	1	TAL BUF	CDC
P:3005A	280-76731-D-5-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-5-B		280-306558	280-305126	12/03/2015 19:36	1	TAL DEN	CMK
P:3005A	280-76731-C-5-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-5-B		280-306559	280-305372	12/03/2015 23:55	1	TAL DEN	SJS
P:3005A	280-76731-D-5-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-5-B		280-306929	280-305126	12/07/2015 18:00	1	TAL DEN	CMK
P:3005A	280-76731-D-5-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-5-A		280-305049	280-304715	11/20/2015 05:32	1	TAL DEN	JM
P:3005A	280-76731-C-5-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-5-A		280-305274	280-304917	11/20/2015 22:44	1	TAL DEN	JM
P:3005A	280-76731-C-5-A		280-305598	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-5-A		280-305598	280-304917	11/24/2015 18:39	1	TAL DEN	JM
A:300.0	280-76731-A-5		280-305238		11/23/2015 23:07	1	TAL DEN	TLP
A:350.1	280-76731-E-5		280-304781		11/18/2015 15:54	1	TAL DEN	KAM
A:353.2	280-76731-A-5		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-5		280-304527		11/16/2015 20:32	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-5		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-5		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-5		280-304731		11/17/2015 23:32	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-6 **Client ID: MW-15R**

Sample Date/Time: 11/11/2015 08:30 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-6		480-276380		11/23/2015 05:18	1	TAL BUF	GTG
A:8260C	280-76731-F-6		480-276380		11/23/2015 05:18	1	TAL BUF	GTG
P:5030C	280-76731-K-6		480-275770		11/19/2015 04:29	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-6		480-275770		11/19/2015 04:29	1	TAL BUF	CDC
P:3005A	280-76731-D-6-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-6-B		280-306558	280-305126	12/03/2015 19:39	1	TAL DEN	CMK
P:3005A	280-76731-C-6-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-6-B		280-306559	280-305372	12/03/2015 23:57	1	TAL DEN	SJS
P:3005A	280-76731-D-6-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-6-B		280-306929	280-305126	12/07/2015 18:03	1	TAL DEN	CMK
P:3005A	280-76731-D-6-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-6-A		280-305049	280-304715	11/20/2015 05:35	1	TAL DEN	JM
P:3005A	280-76731-C-6-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-6-A		280-305274	280-304917	11/20/2015 22:54	1	TAL DEN	JM
A:300.0	280-76731-A-6		280-305236		11/24/2015 01:52	1	TAL DEN	AFB
A:350.1	280-76731-E-6		280-304781		11/18/2015 15:56	1	TAL DEN	KAM
A:353.2	280-76731-A-6		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-6		280-304527		11/16/2015 20:37	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-6		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-6		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-6		280-304731		11/17/2015 23:47	1	TAL DEN	CCJ

Lab ID: 280-76731-6 MS **Client ID: MW-15R**

Sample Date/Time: 11/11/2015 08:30 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-6 MS		280-305236		11/24/2015 02:32	1	TAL DEN	AFB

Lab ID: 280-76731-6 MSD **Client ID: MW-15R**

Sample Date/Time: 11/11/2015 08:30 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-6 MSD		280-305236		11/24/2015 02:52	1	TAL DEN	AFB

Lab ID: 280-76731-6 DU **Client ID: MW-15R**

Sample Date/Time: 11/11/2015 08:30 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-6 DU		280-305236		11/24/2015 02:12	1	TAL DEN	AFB

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-7 **Client ID: MW-36A**

Sample Date/Time: 11/11/2015 09:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-7		480-276380		11/23/2015 05:45	1	TAL BUF	GTG
A:8260C	280-76731-F-7		480-276380		11/23/2015 05:45	1	TAL BUF	GTG
P:5030C	280-76731-K-7		480-275770		11/19/2015 04:53	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-7		480-275770		11/19/2015 04:53	1	TAL BUF	CDC
P:3005A	280-76731-D-7-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-7-B		280-306558	280-305126	12/03/2015 19:52	1	TAL DEN	CMK
P:3005A	280-76731-C-7-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-7-B		280-306559	280-305372	12/04/2015 00:00	1	TAL DEN	SJS
P:3005A	280-76731-D-7-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-7-B		280-306929	280-305126	12/07/2015 18:05	1	TAL DEN	CMK
P:3005A	280-76731-D-7-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-7-A		280-305049	280-304715	11/20/2015 05:39	1	TAL DEN	JM
P:3005A	280-76731-C-7-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-7-A		280-305274	280-304917	11/20/2015 22:58	1	TAL DEN	JM
A:300.0	280-76731-A-7		280-305236		11/24/2015 03:12	1	TAL DEN	AFB
A:350.1	280-76731-E-7		280-304781		11/18/2015 15:58	1	TAL DEN	KAM
A:353.2	280-76731-A-7		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-7		280-304527		11/16/2015 20:42	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-7		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-7		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-7		280-304731		11/18/2015 00:01	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-8 **Client ID: MW-4**

Sample Date/Time: 11/11/2015 12:25 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-8		480-276380		11/23/2015 06:12	1	TAL BUF	GTG
A:8260C	280-76731-F-8		480-276380		11/23/2015 06:12	1	TAL BUF	GTG
P:5030C	280-76731-K-8		480-275770		11/19/2015 05:17	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-8		480-275770		11/19/2015 05:17	1	TAL BUF	CDC
P:3005A	280-76731-D-8-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-8-B		280-306558	280-305126	12/03/2015 19:54	1	TAL DEN	CMK
P:3005A	280-76731-C-8-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-8-B		280-306559	280-305372	12/04/2015 00:03	1	TAL DEN	SJS
P:3005A	280-76731-D-8-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-8-B		280-306929	280-305126	12/07/2015 18:08	1	TAL DEN	CMK
P:3005A	280-76731-D-8-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-8-A		280-305049	280-304715	11/20/2015 05:42	1	TAL DEN	JM
P:3005A	280-76731-C-8-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-8-A		280-305274	280-304917	11/20/2015 23:01	1	TAL DEN	JM
A:300.0	280-76731-A-8		280-305236		11/24/2015 03:31	1	TAL DEN	AFB
A:350.1	280-76731-E-8		280-304781		11/18/2015 16:14	1	TAL DEN	KAM
A:353.2	280-76731-A-8		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-8		280-304527		11/16/2015 20:47	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-8		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-8		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-8		280-304731		11/18/2015 00:31	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-9 **Client ID: MW-19C**

Sample Date/Time: 11/11/2015 11:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-9		480-276380		11/23/2015 06:38	1	TAL BUF	GTG
A:8260C	280-76731-F-9		480-276380		11/23/2015 06:38	1	TAL BUF	GTG
P:5030C	280-76731-K-9		480-275770		11/19/2015 05:41	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-9		480-275770		11/19/2015 05:41	1	TAL BUF	CDC
P:3005A	280-76731-D-9-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-9-B		280-306558	280-305126	12/03/2015 19:57	1	TAL DEN	CMK
P:3005A	280-76731-C-9-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-9-B		280-306559	280-305372	12/04/2015 00:05	1	TAL DEN	SJS
P:3005A	280-76731-D-9-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-9-B		280-306929	280-305126	12/07/2015 18:11	1	TAL DEN	CMK
P:3005A	280-76731-D-9-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-9-A		280-305049	280-304715	11/20/2015 05:46	1	TAL DEN	JM
P:3005A	280-76731-C-9-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-9-A		280-305274	280-304917	11/20/2015 23:05	1	TAL DEN	JM
A:300.0	280-76731-A-9		280-305236		11/24/2015 03:51	1	TAL DEN	AFB
A:350.1	280-76731-E-9		280-304781		11/18/2015 16:22	1	TAL DEN	KAM
A:353.2	280-76731-A-9		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-9		280-304851		11/18/2015 19:19	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-9		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-9		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-9		280-304731		11/18/2015 00:16	1	TAL DEN	CCJ

Lab ID: 280-76731-9 MS **Client ID: MW-19C**

Sample Date/Time: 11/11/2015 11:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76731-E-9 MS		280-304781		11/18/2015 16:24	1	TAL DEN	KAM

Lab ID: 280-76731-9 MSD **Client ID: MW-19C**

Sample Date/Time: 11/11/2015 11:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-76731-E-9 MSD		280-304781		11/18/2015 16:26	1	TAL DEN	KAM

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-10 **Client ID: MW-32**

Sample Date/Time: 11/11/2015 13:05 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-10		480-276660		11/24/2015 18:08	1	TAL BUF	SWO
A:8260C	280-76731-F-10		480-276660		11/24/2015 18:08	1	TAL BUF	SWO
P:5030C	280-76731-K-10		480-275770		11/19/2015 06:05	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-10		480-275770		11/19/2015 06:05	1	TAL BUF	CDC
P:3005A	280-76731-D-10-B		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-10-B		280-306558	280-305126	12/03/2015 20:00	1	TAL DEN	CMK
P:3005A	280-76731-C-10-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-10-B		280-306559	280-305372	12/04/2015 00:18	1	TAL DEN	SJS
P:3005A	280-76731-D-10-B		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-10-B		280-306929	280-305126	12/07/2015 18:13	1	TAL DEN	CMK
P:3005A	280-76731-D-10-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-D-10-A		280-305049	280-304715	11/20/2015 05:50	1	TAL DEN	JM
P:3005A	280-76731-C-10-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-10-A		280-305274	280-304917	11/20/2015 23:09	1	TAL DEN	JM
A:300.0	280-76731-A-10		280-305236		11/24/2015 04:11	1	TAL DEN	AFB
A:350.1	280-76731-E-10		280-304781		11/18/2015 16:28	1	TAL DEN	KAM
A:353.2	280-76731-A-10		280-305442		11/24/2015 10:19	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-10		280-304851		11/18/2015 19:28	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-10		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-10		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-10		280-304731		11/17/2015 20:38	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: 280-76731-11 **Client ID: MW-33A**

Sample Date/Time: 11/11/2015 10:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-76731-F-11		480-276660		11/24/2015 18:35	1	TAL BUF	SWO
A:8260C	280-76731-F-11		480-276660		11/24/2015 18:35	1	TAL BUF	SWO
P:5030C	280-76731-K-11		480-275770		11/19/2015 06:29	1	TAL BUF	CDC
A:8260C SIM	280-76731-K-11		480-275770		11/19/2015 06:29	1	TAL BUF	CDC
P:3005A	280-76731-D-11-A		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-11-A		280-306558	280-305126	12/03/2015 20:02	1	TAL DEN	CMK
P:3005A	280-76731-C-11-B		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-C-11-B		280-306559	280-305372	12/04/2015 00:21	1	TAL DEN	SJS
P:3005A	280-76731-D-11-A		280-306929	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76731-D-11-A		280-306929	280-305126	12/07/2015 18:16	1	TAL DEN	CMK
P:3005A	280-76731-F-11-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	280-76731-F-11-A		280-305049	280-304715	11/20/2015 05:53	1	TAL DEN	JM
P:3005A	280-76731-C-11-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	280-76731-C-11-A		280-305274	280-304917	11/20/2015 23:12	1	TAL DEN	JM
A:300.0	280-76731-A-11		280-305236		11/24/2015 04:31	1	TAL DEN	AFB
A:350.1	280-76731-E-11		280-304781		11/18/2015 16:30	1	TAL DEN	KAM
A:353.2	280-76731-A-11		280-305442		11/24/2015 10:19	1	TAL DEN	AJA
A:SM 2320B	280-76731-A-11		280-304851		11/18/2015 19:10	1	TAL DEN	NAS
A:SM 2540C	280-76731-A-11		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	280-76731-A-11		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	280-76731-E-11		280-304731		11/17/2015 20:53	1	TAL DEN	CCJ

Lab ID: 280-76731-11 MS **Client ID: MW-33A**

Sample Date/Time: 11/11/2015 10:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-11 MS		280-305236		11/24/2015 05:51	1	TAL DEN	AFB

Lab ID: 280-76731-11 MSD **Client ID: MW-33A**

Sample Date/Time: 11/11/2015 10:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-11 MSD		280-305236		11/24/2015 06:11	1	TAL DEN	AFB

Lab ID: 280-76731-11 DU **Client ID: MW-33A**

Sample Date/Time: 11/11/2015 10:15 Received Date/Time: 11/12/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76731-A-11 DU		280-305236		11/24/2015 04:51	1	TAL DEN	AFB
A:SM 2320B	280-76731-A-11 DU		280-304851		11/18/2015 19:14	1	TAL DEN	NAS

Client: Waste Management Job Number: 280-76731-1

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:5030C	MB 480-276380/6		480-276380		11/22/2015 23:56	1	TAL BUF	GTG
A:8260C	MB 480-276380/6		480-276380		11/22/2015 23:56	1	TAL BUF	GTG
P:5030C	MB 480-276660/6		480-276660		11/24/2015 11:31	1	TAL BUF	SWO
A:8260C	MB 480-276660/6		480-276660		11/24/2015 11:31	1	TAL BUF	SWO
P:5030C	MB 480-275770/6		480-275770		11/19/2015 01:00	1	TAL BUF	CDC
A:8260C SIM	MB 480-275770/6		480-275770		11/19/2015 01:00	1	TAL BUF	CDC
P:3005A	MB 280-305126/1-A		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	MB 280-305126/1-A		280-306558	280-305126	12/03/2015 18:47	1	TAL DEN	CMK
P:3005A	MB 280-305372/1-A		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	MB 280-305372/1-A		280-306559	280-305372	12/03/2015 23:40	1	TAL DEN	SJS
P:3005A	MB 280-305126/1-A		280-306693	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	MB 280-305126/1-A		280-306693	280-305126	12/04/2015 16:16	1	TAL DEN	CRR
P:3005A	MB 280-304715/1-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	MB 280-304715/1-A		280-305049	280-304715	11/20/2015 04:20	1	TAL DEN	JM
P:3005A	MB 280-304917/1-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	MB 280-304917/1-A		280-305274	280-304917	11/20/2015 22:11	1	TAL DEN	JM
A:300.0	MB 280-305238/6		280-305238		11/23/2015 10:08	1	TAL DEN	TLP
A:300.0	MB 280-305236/6		280-305236		11/23/2015 10:20	1	TAL DEN	AFB
A:350.1	MB 280-304781/66		280-304781		11/18/2015 14:44	1	TAL DEN	KAM
A:350.1	MB 280-304781/114		280-304781		11/18/2015 16:20	1	TAL DEN	KAM
A:353.2	MB 280-305442/1		280-305442		11/24/2015 10:18	1	TAL DEN	AJA
A:SM 2320B	MB 280-304527/5		280-304527		11/16/2015 16:31	1	TAL DEN	NAS
A:SM 2320B	MB 280-304527/31		280-304527		11/16/2015 19:11	1	TAL DEN	NAS
A:SM 2320B	MB 280-304851/5		280-304851		11/18/2015 17:06	1	TAL DEN	NAS
A:SM 2320B	MB 280-304851/31		280-304851		11/18/2015 19:06	1	TAL DEN	NAS
A:SM 2540C	MB 280-304077/1		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	MB 280-304547/3		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	MB 280-304731/4		280-304731		11/17/2015 16:57	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

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:5030C	LCS 480-276380/4		480-276380		11/22/2015 23:02	1	TAL BUF	GTG
A:8260C	LCS 480-276380/4		480-276380		11/22/2015 23:02	1	TAL BUF	GTG
P:5030C	LCS 480-276660/4		480-276660		11/24/2015 10:38	1	TAL BUF	SWO
A:8260C	LCS 480-276660/4		480-276660		11/24/2015 10:38	1	TAL BUF	SWO
P:5030C	LCS 480-275770/3		480-275770		11/18/2015 23:48	1	TAL BUF	CDC
A:8260C SIM	LCS 480-275770/3		480-275770		11/18/2015 23:48	1	TAL BUF	CDC
P:3005A	LCS 280-305126/2-A		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	LCS 280-305126/2-A		280-306558	280-305126	12/03/2015 18:50	1	TAL DEN	CMK
P:3005A	LCS 280-305372/2-A		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	LCS 280-305372/2-A		280-306559	280-305372	12/03/2015 23:42	1	TAL DEN	SJS
P:3005A	LCS 280-305126/2-A		280-306693	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	LCS 280-305126/2-A		280-306693	280-305126	12/04/2015 16:18	1	TAL DEN	CRR
P:3005A	LCS 280-304715/2-A		280-305049	280-304715	11/19/2015 14:45	1	TAL DEN	SEJ
A:6020	LCS 280-304715/2-A		280-305049	280-304715	11/20/2015 04:24	1	TAL DEN	JM
P:3005A	LCS 280-304917/2-A		280-305274	280-304917	11/20/2015 14:30	1	TAL DEN	SEJ
A:6020	LCS 280-304917/2-A		280-305274	280-304917	11/20/2015 22:15	1	TAL DEN	JM
A:300.0	LCS 280-305238/4		280-305238		11/23/2015 09:32	1	TAL DEN	TLP
A:300.0	LCS 280-305236/4		280-305236		11/23/2015 09:40	1	TAL DEN	AFB
A:350.1	LCS 280-304781/64		280-304781		11/18/2015 14:40	1	TAL DEN	KAM
A:350.1	LCS 280-304781/112		280-304781		11/18/2015 16:16	1	TAL DEN	KAM
A:SM 2320B	LCS 280-304527/4		280-304527		11/16/2015 16:25	1	TAL DEN	NAS
A:SM 2320B	LCS 280-304527/30		280-304527		11/16/2015 19:05	1	TAL DEN	NAS
A:SM 2320B	LCS 280-304851/4		280-304851		11/18/2015 17:02	1	TAL DEN	NAS
A:SM 2320B	LCS 280-304851/30		280-304851		11/18/2015 19:02	1	TAL DEN	NAS
A:SM 2540C	LCS 280-304077/2		280-304077		11/13/2015 16:30	1	TAL DEN	RSM
A:SM 2540D	LCS 280-304547/1		280-304547		11/17/2015 15:33	1	TAL DEN	MW1
A:SM 5310B	LCS 280-304731/3		280-304731		11/17/2015 16:40	1	TAL DEN	CCJ

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
P:5030C	LCSD 480-275770/4		480-275770		11/19/2015 00:12	1	TAL BUF	CDC
A:8260C SIM	LCSD 480-275770/4		480-275770		11/19/2015 00:12	1	TAL BUF	CDC
A:300.0	LCSD 280-305238/5		280-305238		11/23/2015 09:50	1	TAL DEN	TLP
A:300.0	LCSD 280-305236/5		280-305236		11/23/2015 10:00	1	TAL DEN	AFB
A:350.1	LCSD 280-304781/65		280-304781		11/18/2015 14:42	1	TAL DEN	KAM
A:350.1	LCSD 280-304781/113		280-304781		11/18/2015 16:18	1	TAL DEN	KAM
A:SM 2540D	LCSD 280-304547/2		280-304547		11/17/2015 15:33	1	TAL DEN	MW1

Client: Waste Management Job Number: 280-76731-1

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 280-305238/3		280-305238		11/23/2015 09:15	1	TAL DEN	TLP
A:300.0	MRL 280-305236/3		280-305236		11/23/2015 09:20	1	TAL DEN	AFB

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/13/2015 08:35 Received Date/Time: 11/14/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	200-30771-A-9 MS		480-276660		11/24/2015 20:21	1	TAL BUF	SWO
A:8260C	200-30771-A-9 MS		480-276660		11/24/2015 20:21	1	TAL BUF	SWO
P:5030C	480-90821-H-2 MS		480-275770		11/19/2015 08:30	4	TAL BUF	CDC
A:8260C SIM	480-90821-H-2 MS		480-275770		11/19/2015 08:30	4	TAL BUF	CDC
P:3005A	280-76728-M-1-C MS		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76728-M-1-C MS		280-306558	280-305126	12/03/2015 18:57	1	TAL DEN	CMK
P:3005A	280-76799-A-1-B MS		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76799-A-1-B MS		280-306559	280-305372	12/04/2015 00:29	1	TAL DEN	SJS
P:3005A	280-76728-M-1-C MS		280-306693	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76728-M-1-C MS		280-306693	280-305126	12/04/2015 16:26	1	TAL DEN	CRR
A:300.0	280-76711-A-1 MS		280-305238		11/23/2015 14:33	1	TAL DEN	TLP
A:SM 5310B	280-76730-A-1 MS		280-304731		11/17/2015 18:17	1	TAL DEN	CCJ
A:SM 5310B	280-76835-C-7 MS		280-304731		11/17/2015 21:24	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 11/13/2015 08:35 Received Date/Time: 11/14/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	200-30771-A-9 MSD		480-276660		11/24/2015 20:48	1	TAL BUF	SWO
A:8260C	200-30771-A-9 MSD		480-276660		11/24/2015 20:48	1	TAL BUF	SWO
P:5030C	480-90821-H-2 MSD		480-275770		11/19/2015 08:55	4	TAL BUF	CDC
A:8260C SIM	480-90821-H-2 MSD		480-275770		11/19/2015 08:55	4	TAL BUF	CDC
P:3005A	280-76728-M-1-D MSD		280-306558	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76728-M-1-D MSD		280-306558	280-305126	12/03/2015 19:00	1	TAL DEN	CMK
P:3005A	280-76799-A-1-C MSD		280-306559	280-305372	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76799-A-1-C MSD		280-306559	280-305372	12/04/2015 00:31	1	TAL DEN	SJS
P:3005A	280-76728-M-1-D MSD		280-306693	280-305126	11/25/2015 08:30	1	TAL DEN	MLS
A:6010B	280-76728-M-1-D MSD		280-306693	280-305126	12/04/2015 16:28	1	TAL DEN	CRR
A:300.0	280-76711-A-1 MSD		280-305238		11/23/2015 14:51	1	TAL DEN	TLP
A:SM 5310B	280-76730-A-1 MSD		280-304731		11/17/2015 18:32	1	TAL DEN	CCJ
A:SM 5310B	280-76835-C-7 MSD		280-304731		11/17/2015 21:39	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-76731-1

Laboratory Chronicle

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 11/10/2015 11:15 Received Date/Time: 11/11/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-76711-A-1 DU		280-305238		11/23/2015 14:16	1	TAL DEN	TLP
A:SM 2320B	280-76669-F-11 DU		280-304527		11/16/2015 16:43	1	TAL DEN	NAS

Lab References:
TAL BUF = TestAmerica Buffalo
TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: (303) 736-0100 Fax (303) 431-7171

280-76731 Chain of Custody

Chain of Custody Record

808774773237
808774782551

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Sara, Betsy A	Carrier Tracking No(s): 808774773204 808774773215	COC No: 280-17318-3224.1
Client Contact: Mr. Patrick Madej	Phone: (612) 790-2980	E-Mail: betsy.sara@testamericainc.com		Page: 1 of 1
Company: Waste Management				Job #: 04204017.18
Address: 2615 Davis Street	Due Date Requested: Standard			
City: San Leandro	TAT Requested (days): Standard			
State, Zip: CA, 94577	PO #:			
Phone: (425) 766-2502	WO #:			
Email: Dvanchiarutti@scsengineers.com	Project #: 28002692			
Project Name: WA02/Olympic View Sanitary LF Event Desc: Quarterly GW Appl/II - Mar Jun Sep Dec	SSOW#:			
Site: Washington				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexene, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	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)	TDS/Alks/Cl/SO4/NO3(cad)	Dissolved Metals	Ammonia/TOC	8260B - long list (TA Buffalo)	8260B SIM (TA Buffalo)	Total Metals	TSS	Dissolved Arsenic (direct sub to ARI)	Total Arsenic (direct sub to ARI)	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	D	S	A	A	D	N	D	D		
MW-16	11/11/15	846	G	W	Y	N	X	X	X	X	X	X	X	X	X	11	Short Hold: NO3(cad)
MW-33A		1015															Arsenic - Direct sub to ARI
MW-33C		1110															
MW-24		1245															* *
Trip blank		-	-							X						2	+ L-INF
MW-39		1010	G		Y		X	X	X	X	X	X	X	X	X	11	sample run
MW-15R		830															for all the
MW-36A		915															same parameters!!
MW-4		1225															* *
MW-19C		1115															
MW-32		1305															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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
Sam Graber	11/11/15 1600	SCS		11/12/15 9:30	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.: 763717, 763718, 763715, 763716
Cooler Temperature(s) °C and Other Remarks: 3.7, 0.6, 0.3, 2.3 IR5 0.1 11/12/15

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-329484.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		**Analysis Requested**		Job #: 280-76731-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/1/2015			**Preservation Codes:** A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			**Other:**
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692			
Site: WA02|Olympic View Sanitary LF	SSOW#:			

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)	8260C/5030C (MOD) Appendix II Volatiles	8260C_SIM/5030C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-16 (280-76731-1)	11/11/15	08:46 Pacific		Water			X	X	6	
MW-33C (280-76731-2)	11/11/15	11:10 Pacific		Water			X	X	6	
MW-24 (280-76731-3)	11/11/15	12:45 Pacific		Water			X	X	6	
TRIP BLANK (280-76731-4)	11/11/15	Pacific		Water			X	X	2	
MW-39 (280-76731-5)	11/11/15	10:10 Pacific		Water			X	X	6	
MW-15R (280-76731-6)	11/11/15	08:30 Pacific		Water			X	X	6	
MW-36A (280-76731-7)	11/11/15	09:15 Pacific		Water			X	X	6	
MW-4 (280-76731-8)	11/11/15	12:25 Pacific		Water			X	X	6	
MW-19C (280-76731-9)	11/11/15	11:15 Pacific		Water			X	X	6	
MW-32 (280-76731-10)	11/11/15	13:05 Pacific		Water			X	X	6	
MW-33A (280-76731-11)	11/11/15	10:15 Pacific		Water			X	X	6	

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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	11/13/15 @1450	TAD		11/14/15 0900	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6 #1

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-76731-1

Login Number: 76731

List Source: TestAmerica Denver

List Number: 1

Creator: Dedio, Michael T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	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: 280-76731-1

Login Number: 76731
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 11/14/15 11:49 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	3.6 #1
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.	False	
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: 280-77507-1

Job Description: WA02|Olympic View Sanitary LF

For:
Waste Management
Sun Valley Hauling
9081 Tujunga Avenue
Sun Valley, CA 91352

Attention: Mr. Phil Perley

Approved for release.
Betsy A Sara
Project Manager II
12/24/2015 9:37 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/24/2015

cc: 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 4025.

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: 280-77507-1

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 12/04/2015; the sample 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

Total Magnesium Method 6010B was detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Total Magnesium 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)

The percent recoveries and/or relative percent difference of the MS/MSD performed on sample LP-LCD were outside control limits for Total Sodium Method 6010B because the sample concentration was greater than four times the spike amount. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for Ammonia Method 350.1. 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.

Metals

The Method 6010B Continuing Calibration Verification (CCV) sample was above the control limits for Total Sodium. Because the associated Total Sodium sample results were ND or greater than ten times the result of the CCV, corrective action was deemed unnecessary.

EXECUTIVE SUMMARY - Detections

Client: Waste Management Job Number: 280-77507-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-77507-1	**LP-LCD**					
Specific Conductivity		3929			umhos/cm	Field Sampling
Dissolved Oxygen		7.51			mg/L	Field Sampling
eH		-25.8			millivolts	Field Sampling
Turbidity		4.99			NTU	Field Sampling
Temperature		10.34			Degrees C	Field Sampling
pH		7.19			SU	Field Sampling
Chloride		660		10	mg/L	300.0
Sulfate		280		10	mg/L	300.0
Ammonia (as N)		4.5		0.15	mg/L	350.1
Chemical Oxygen Demand (COD)		170		20	mg/L	410.4
Alkalinity		830		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		830		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		2300		20	mg/L	SM 2540C
Total Organic Carbon - Average		61		2.0	mg/L	SM 5310B
Biochemical Oxygen Demand		3.6		2.5	mg/L	SM5210B
Total Recoverable						
Calcium, Total		59		0.040	mg/L	6010B
Iron, Total		0.46		0.060	mg/L	6010B
Magnesium, Total		38	B	0.050	mg/L	6010B
Manganese, Total		0.82		0.050	mg/L	6010B
Potassium, Total		77		1.0	mg/L	6010B
Sodium, Total		790	^	1.0	mg/L	6010B

METHOD SUMMARY

Client: Waste Management Job Number: 280-77507-1

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	
COD	TAL DEN	MCAWW 410.4	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
BOD, 5 Day	TAL DEN	SM SM5210B	
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: 280-77507-1

Method	Analyst	Analyst ID
SW846 6010B	Scott, Samantha J	SJS
EPA Field Sampling	Promduang, Thaweesin	TP
MCAWW 300.0	Benson, Alex F	AFB
MCAWW 350.1	Moore, Kevin A	KAM
MCAWW 410.4	Jewell, Connie C	CCJ
SM SM 2320B	Simons, Nicole A	NAS
SM SM 2540C	Martinez, Rut S	RSM
SM SM 5310B	Jewell, Connie C	CCJ
SM SM5210B	Spedale, Morgan A	MAS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-77507-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-77507-1	LP-LCD	Water	12/03/2015 0945	12/04/2015 1000

SAMPLE RESULTS

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-77507-1 Date Sampled: 12/03/2015 0945
Client Matrix: Water Date Received: 12/04/2015 1000

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-308098	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-307289	Lab File ID:	25D121615.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 0002			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Total	59		0.040	0.040
Manganese, Total	0.82		0.050	0.050
Potassium, Total	77		1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-308243	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-307289	Lab File ID:	25B121715.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 1503			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Magnesium, Total	38	B	0.050	0.050
Sodium, Total	790	^	1.0	1.0

Analysis Method:	6010B	Analysis Batch:	280-308734	Instrument ID:	MT_025
Prep Method:	3005A	Prep Batch:	280-308357	Lab File ID:	25B122215.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/22/2015 1251			Final Weight/Volume:	50 mL
Prep Date:	12/21/2015 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Iron, Total	0.46		0.060	0.060

General Chemistry

Client Sample ID: LP-LCD

Lab Sample ID: 280-77507-1 Date Sampled: 12/03/2015 0945
Client Matrix: Water Date Received: 12/04/2015 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	660		mg/L	10	10	10	300.0
Analysis Batch: 280-307456	Analysis Date: 12/12/2015 0022						
Sulfate	280		mg/L	10	10	10	300.0
Analysis Batch: 280-307456	Analysis Date: 12/12/2015 0022						
Ammonia (as N)	4.5		mg/L	0.15	0.15	5.0	350.1
Analysis Batch: 280-307510	Analysis Date: 12/11/2015 1336						
Chemical Oxygen Demand (COD)	170		mg/L	20	20	2.0	410.4
Analysis Batch: 280-306805	Analysis Date: 12/07/2015 1008						
Alkalinity	830		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-307468	Analysis Date: 12/10/2015 2028						
Bicarbonate Alkalinity as CaCO3	830		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-307468	Analysis Date: 12/10/2015 2028						
Total Dissolved Solids (TDS)	2300		mg/L	20	20	1.0	SM 2540C
Analysis Batch: 280-306656	Analysis Date: 12/04/2015 1623						
Total Organic Carbon - Average	61		mg/L	2.0	2.0	2.0	SM 5310B
Analysis Batch: 280-307232	Analysis Date: 12/10/2015 0014						
Biochemical Oxygen Demand	3.6		mg/L	2.5	2.5	1.0	SM5210B
Analysis Batch: 280-306650	Analysis Date: 12/04/2015 1543						

Field Service / Mobile Lab

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-77507-1 Date Sampled: 12/03/2015 0945
Client Matrix: Water Date Received: 12/04/2015 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Specific Conductivity	3929		umhos/cm	1.0	Field Sampling	280-306752	12/03/2015 1045
Dissolved Oxygen	7.51		mg/L	1.0	Field Sampling	280-306752	12/03/2015 1045
eH	-25.8		millivolts	1.0	Field Sampling	280-306752	12/03/2015 1045
Turbidity	4.99		NTU	1.0	Field Sampling	280-306752	12/03/2015 1045
Temperature	10.34		Degrees C	1.0	Field Sampling	280-306752	12/03/2015 1045
pH	7.19		SU	1.0	Field Sampling	280-306752	12/03/2015 1045

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-77507-1

Lab Section	Qualifier	Description
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 is outside acceptance limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F1	MS and/or MSD Recovery is outside acceptance limits.

QUALITY CONTROL RESULTS

Client: Waste Management Job Number: 280-77507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-307289					
LCS 280-307289/2-A	Lab Control Sample	R	Water	3005A	
MB 280-307289/1-A	Method Blank	R	Water	3005A	
280-77507-1	LP-LCD	R	Water	3005A	
280-77507-1MS	Matrix Spike	R	Water	3005A	
280-77507-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-308098					
LCS 280-307289/2-A	Lab Control Sample	R	Water	6010B	280-307289
MB 280-307289/1-A	Method Blank	R	Water	6010B	280-307289
280-77507-1	LP-LCD	R	Water	6010B	280-307289
280-77507-1MS	Matrix Spike	R	Water	6010B	280-307289
280-77507-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-307289
Analysis Batch:280-308243					
LCS 280-307289/2-A	Lab Control Sample	R	Water	6010B	280-307289
MB 280-307289/1-A	Method Blank	R	Water	6010B	280-307289
280-77507-1	LP-LCD	R	Water	6010B	280-307289
280-77507-1MS	Matrix Spike	R	Water	6010B	280-307289
280-77507-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-307289
Prep Batch: 280-308357					
LCS 280-308357/2-A	Lab Control Sample	R	Water	3005A	
MB 280-308357/1-A	Method Blank	R	Water	3005A	
280-77507-1	LP-LCD	R	Water	3005A	
280-77507-1MS	Matrix Spike	R	Water	3005A	
280-77507-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-308734					
LCS 280-308357/2-A	Lab Control Sample	R	Water	6010B	280-308357
MB 280-308357/1-A	Method Blank	R	Water	6010B	280-308357
280-77507-1	LP-LCD	R	Water	6010B	280-308357
280-77507-1MS	Matrix Spike	R	Water	6010B	280-308357
280-77507-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-308357

Report Basis
R = Total Recoverable

Client: Waste Management Job Number: 280-77507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-306752					
280-77507-1	LP-LCD	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management Job Number: 280-77507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-306650					
LCS 280-306650/5	Lab Control Sample	T	Water	SM5210B	
LCSD 280-306650/4	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-306650/6	Method Blank	T	Water	SM5210B	
280-77507-1	LP-LCD	T	Water	SM5210B	
280-77508-C-1 DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-306656					
LCS 280-306656/2	Lab Control Sample	T	Water	SM 2540C	
MB 280-306656/1	Method Blank	T	Water	SM 2540C	
280-77507-1	LP-LCD	T	Water	SM 2540C	
280-77522-G-1 DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-306805					
LCS 280-306805/3	Lab Control Sample	T	Water	410.4	
LCSD 280-306805/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-306805/5	Method Blank	T	Water	410.4	
280-77507-1	LP-LCD	T	Water	410.4	
280-77509-B-3 MS	Matrix Spike	T	Water	410.4	
280-77509-B-3 MSD	Matrix Spike Duplicate	T	Water	410.4	
Analysis Batch:280-307232					
LCS 280-307232/19	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-307232/20	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-307232/21	Method Blank	T	Water	SM 5310B	
280-77507-1	LP-LCD	T	Water	SM 5310B	
280-77662-C-1 MS	Matrix Spike	T	Water	SM 5310B	
280-77662-C-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-307233					
LCS 280-307233/19	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-307233/20	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-307233/21	Method Blank	T	Water	SM 5310B	
280-77507-1	LP-LCD	T	Water	SM 5310B	
280-77662-C-1 MS	Matrix Spike	T	Water	SM 5310B	
280-77662-C-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-307456					
LCS 280-307456/4	Lab Control Sample	T	Water	300.0	
LCSD 280-307456/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-307456/6	Method Blank	T	Water	300.0	
280-77507-1	LP-LCD	T	Water	300.0	
280-77729-D-12 DU	Duplicate	T	Water	300.0	
280-77729-D-12 MS	Matrix Spike	T	Water	300.0	
280-77729-D-12 MSD	Matrix Spike Duplicate	T	Water	300.0	

Client: Waste Management Job Number: 280-77507-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-307468					
LCS 280-307468/30	Lab Control Sample	T	Water	SM 2320B	
MB 280-307468/31	Method Blank	T	Water	SM 2320B	
280-77507-1	LP-LCD	T	Water	SM 2320B	
280-77584-G-5 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-307510					
LCS 280-307510/18	Lab Control Sample	T	Water	350.1	
LCSD 280-307510/19	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-307510/20	Method Blank	T	Water	350.1	
280-77020-C-3 MS	Matrix Spike	T	Water	350.1	
280-77020-C-3 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-77507-1	LP-LCD	T	Water	350.1	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-77507-1

Method Blank - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-307289/1-A	Analysis Batch:	280-308098	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25D121615.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/16/2015 2354	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Total	ND		0.040	0.040
Manganese, Total	ND		0.050	0.050
Potassium, Total	ND		1.0	1.0

Method Blank - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-307289/1-A	Analysis Batch:	280-308243	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25B121715.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 1458	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Magnesium, Total	0.0870		0.050	0.050
Sodium, Total	ND	^	1.0	1.0

Client: Waste Management Job Number: 280-77507-1

Lab Control Sample - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-307289/2-A	Analysis Batch:	280-308098	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25D121615.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/16/2015 2359	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Total	50.0	47.3	95	90 - 111	
Manganese, Total	0.500	0.505	101	90 - 110	
Potassium, Total	50.0	55.1	110	89 - 114	

Lab Control Sample - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-307289/2-A	Analysis Batch:	280-308243	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25B121715.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 1501	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Magnesium, Total	50.0	50.3	101	90 - 113	
Sodium, Total	50.0	53.0	106	90 - 115	^

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Analysis Batch:	280-308098	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25D121615.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 0007			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77507-1	Analysis Batch:	280-308098	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25D121615.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 0009			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Total	87	94	48 - 153	3	20		
Manganese, Total	92	97	79 - 121	2	20		
Potassium, Total	103	112	76 - 132	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Analysis Batch:	280-308243	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25B121715.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 1508			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77507-1	Analysis Batch:	280-308243	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-307289	Lab File ID:	25B121715.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/17/2015 1511			Final Weight/Volume:	50 mL
Prep Date:	12/11/2015 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Magnesium, Total	90	96	62 - 146	4	20		
Sodium, Total	49	94	70 - 203	3	20	^ 4	^ 4

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Units: mg/L	MSD Lab Sample ID: 280-77507-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Analysis Date:	12/17/2015 0007		Analysis Date: 12/17/2015 0009
Prep Date:	12/11/2015 0815		Prep Date: 12/11/2015 0815
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	59	50.0	50.0	103	106
Manganese, Total	0.82	0.500	0.500	1.28	1.31
Potassium, Total	77	50.0	50.0	128	133

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307289

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Units: mg/L	MSD Lab Sample ID: 280-77507-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Analysis Date:	12/17/2015 1508		Analysis Date: 12/17/2015 1511
Prep Date:	12/11/2015 0815		Prep Date: 12/11/2015 0815
Leach Date:	N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Magnesium, Total	38	50.0	50.0	82.9	85.9
Sodium, Total	790	50.0	50.0	819 ^ 4	841 ^ 4

Client: Waste Management

Job Number: 280-77507-1

Method Blank - Batch: 280-308357

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-308357/1-A	Analysis Batch:	280-308734	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-308357	Lab File ID:	25B122215.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/22/2015 1247	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/21/2015 0815				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Iron, Total	ND		0.060	0.060

Lab Control Sample - Batch: 280-308357

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-308357/2-A	Analysis Batch:	280-308734	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-308357	Lab File ID:	25B122215.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/22/2015 1249	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/21/2015 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron, Total	1.00	1.03	103	89 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-308357

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Analysis Batch:	280-308734	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-308357	Lab File ID:	25B122215.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/22/2015 1257			Final Weight/Volume:	50 mL
Prep Date:	12/21/2015 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77507-1	Analysis Batch:	280-308734	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-308357	Lab File ID:	25B122215.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/22/2015 1259			Final Weight/Volume:	50 mL
Prep Date:	12/21/2015 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron, Total	106	105	52 - 155	1	20		

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-308357

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-77507-1	Units: mg/L	MSD Lab Sample ID:	280-77507-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/22/2015 1257		Analysis Date:	12/22/2015 1259	
Prep Date:	12/21/2015 0815		Prep Date:	12/21/2015 0815	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron, Total	0.46	1.00	1.00	1.52	1.51

Method Blank - Batch: 280-307456

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-307456/6	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	6.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 1312	Units:	mg/L	Final Weight/Volume:	5 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: 280-307456

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-307456/3	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	3.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 1219	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	2.50	ND	103	50 - 150	
Sulfate	2.50	ND	102	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-307456

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307456/4	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	4.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 1237	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-307456/5	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	5.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 1255	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	100	100	90 - 110	0	10		
Sulfate	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-77507-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-307456

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307456/4	Units: mg/L	LCSD Lab Sample ID:	LCSD 280-307456/5	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/11/2015 1237		Analysis Date:	12/11/2015 1255	
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	100	100	100	100
Sulfate	100	100	100	100

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307456

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-77729-D-12 MS	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	24.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 2200			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-77729-D-12 MSD	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	25.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 2217			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	104	102	80 - 120	1	20		
Sulfate	96	94	80 - 120	1	20		

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307456

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-77729-D-12 MS	Units: mg/L	MSD Lab Sample ID:	280-77729-D-12 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	10		Dilution:	10	
Analysis Date:	12/11/2015 2200		Analysis Date:	12/11/2015 2217	
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	310	250	250	569	565
Sulfate	780	250	250	1020	1010

Duplicate - Batch: 280-307456

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-77729-D-12 DU	Analysis Batch:	280-307456	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	23.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2015 2142	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	310	305	1	15	
Sulfate	780	768	1	15	

Client: Waste Management Job Number: 280-77507-1

Method Blank - Batch: 280-307510

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-307510/20	Analysis Batch:	280-307510	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\101115.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2015 1324	Units:	mg/L	Final Weight/Volume:	
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: 280-307510

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307510/18	Analysis Batch:	280-307510	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\101115.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2015 1320	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-307510/19	Analysis Batch:	280-307510	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\101115.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2015 1322	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	100	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-307510

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307510/18	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-307510/19
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2015 1320			Analysis Date:	12/11/2015 1322
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: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307510

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-77020-C-3 MS	Analysis Batch:	280-307510	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\101115.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/11/2015 1332			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77020-C-3 MSD	Analysis Batch:	280-307510	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\101115.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/11/2015 1334			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
Ammonia (as N)	89	91	90 - 110	1	10	F1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307510

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-77020-C-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-77020-C-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2015 1332			Analysis Date:	12/11/2015 1334
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)	1.5	1.00	1.00	2.36	F1	2.38

Method Blank - Batch: 280-306805 **Method: 410.4**
Preparation: N/A

Lab Sample ID:	MB 280-306805/5	Analysis Batch:	280-306805	Instrument ID:	WC_Genesys20
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:	12/07/2015 1008	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: 280-306805 **Method: 410.4**
Preparation: N/A

LCS Lab Sample ID:	LCS 280-306805/3	Analysis Batch:	280-306805	Instrument ID:	WC_Genesys20
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:	12/07/2015 1008	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-306805/4	Analysis Batch:	280-306805	Instrument ID:	WC_Genesys20
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:	12/07/2015 1008	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)	98	99	90 - 110	1	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-306805 **Method: 410.4**
Preparation: N/A

LCS Lab Sample ID:	LCS 280-306805/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-306805/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/07/2015 1008			Analysis Date:	12/07/2015 1008
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	98.2	99.2

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306805

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-77509-B-3 MS	Analysis Batch:	280-306805	Instrument ID:	WC_Genesys20
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2015 1008			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77509-B-3 MSD	Analysis Batch:	280-306805	Instrument ID:	WC_Genesys20
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/07/2015 1008			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)	97	92	90 - 110	2	11		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-306805

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-77509-B-3 MS	Units: mg/L	MSD Lab Sample ID: 280-77509-B-3 MSD
Client Matrix:	Water		Client Matrix: Water
Dilution:	10		Dilution: 10
Analysis Date:	12/07/2015 1008		Analysis Date: 12/07/2015 1008
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)	550	500	500	1040	1020

Client: Waste Management

Job Number: 280-77507-1

Method Blank - Batch: 280-307468

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-307468/31	Analysis Batch:	280-307468	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121015.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/10/2015 1935	Units:	mg/L	Final Weight/Volume:	
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

Lab Control Sample - Batch: 280-307468

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	LCS 280-307468/30	Analysis Batch:	280-307468	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121015.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/10/2015 1929	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	200	202	101	90 - 110	

Duplicate - Batch: 280-307468

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-77584-G-5 DU	Analysis Batch:	280-307468	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121015.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/10/2015 1944	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	26	25.4	4	10	

Client: Waste Management Job Number: 280-77507-1

Method Blank - Batch: 280-306656

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-306656/1	Analysis Batch:	280-306656	Instrument ID:	WC_Cond_Orion
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:	12/04/2015 1623	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 - Batch: 280-306656

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	LCS 280-306656/2	Analysis Batch:	280-306656	Instrument ID:	WC_Cond_Orion
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:	12/04/2015 1623	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids (TDS)	501	493	98	86 - 110	

Duplicate - Batch: 280-306656

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-77522-G-1 DU	Analysis Batch:	280-306656	Instrument ID:	WC_Cond_Orion
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/04/2015 1623	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)	2500	2560	0.9	10	

Method Blank - Batch: 280-307232

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-307232/21	Analysis Batch:	280-307232	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120915.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2015 2055	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: 280-307232

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307232/19	Analysis Batch:	280-307232	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120915.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2015 2018	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-307232/20	Analysis Batch:	280-307232	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120915.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2015 2036	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	104	103	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-307232

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-307232/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-307232/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/09/2015 2018			Analysis Date:	12/09/2015 2036
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	25.9	25.8

Client: Waste Management

Job Number: 280-77507-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307232

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-77662-C-1 MS	Analysis Batch:	280-307232	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120915.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2015 2143			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-77662-C-1 MSD	Analysis Batch:	280-307232	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120915.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/09/2015 2202			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	107	107	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-307232

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-77662-C-1 MS	Units: mg/L	MSD Lab Sample ID: 280-77662-C-1 MSD
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Analysis Date:	12/09/2015 2143		Analysis Date: 12/09/2015 2202
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	26.8	26.8

Method Blank - Batch: 280-306650

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-306650/6	Analysis Batch:	280-306650	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1543	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/
Lab Control Sample Duplicate Recovery Report - Batch: 280-306650

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-306650/5	Analysis Batch:	280-306650	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1543	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-306650/4	Analysis Batch:	280-306650	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1543	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Biochemical Oxygen Demand	92	89	85 - 115	3	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-306650

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-306650/5	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-306650/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/04/2015 1543			Analysis Date:	12/04/2015 1543
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
Biochemical Oxygen Demand	198	198	182	176

Client: Waste Management

Job Number: 280-77507-1

Duplicate - Batch: 280-306650

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-77508-C-1 DU	Analysis Batch:	280-306650	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1543	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	ND	ND	NC	20	

Client: Waste Management Job Number: 280-77507-1

Laboratory Chronicle

Lab ID: 280-77507-1 **Client ID: LP-LCD**

Sample Date/Time: 12/03/2015 09:45 Received Date/Time: 12/04/2015 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-77507-E-1-A		280-308098	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-A		280-308098	280-307289	12/17/2015 00:02	1	TAL DEN	SJS
P:3005A	280-77507-E-1-A		280-308243	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-A		280-308243	280-307289	12/17/2015 15:03	1	TAL DEN	SJS
P:3005A	280-77507-E-1-D		280-308734	280-308357	12/21/2015 08:15	1	TAL DEN	SUR
A:6010B	280-77507-E-1-D		280-308734	280-308357	12/22/2015 12:51	1	TAL DEN	SJS
A:300.0	280-77507-A-1		280-307456		12/12/2015 00:22	10	TAL DEN	AFB
A:350.1	280-77507-D-1		280-307510		12/11/2015 13:36	5	TAL DEN	KAM
A:410.4	280-77507-D-1		280-306805		12/07/2015 10:08	2	TAL DEN	CCJ
A:SM 2320B	280-77507-A-1		280-307468		12/10/2015 20:28	1	TAL DEN	NAS
A:SM 2540C	280-77507-A-1		280-306656		12/04/2015 16:23	1	TAL DEN	RSM
A:SM 5310B	280-77507-D-1		280-307232		12/10/2015 00:14	2	TAL DEN	CCJ
A:SM5210B	280-77507-B-1		280-306650		12/04/2015 15:43	1	TAL DEN	MAS
A:Field Sampling	280-77507-A-1		280-306752		12/03/2015 10:45	1	TAL DEN	TP

Lab ID: 280-77507-1 MS **Client ID: LP-LCD**

Sample Date/Time: 12/03/2015 09:45 Received Date/Time: 12/04/2015 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-77507-E-1-B MS		280-308098	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-B MS		280-308098	280-307289	12/17/2015 00:07	1	TAL DEN	SJS
P:3005A	280-77507-E-1-B MS		280-308243	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-B MS		280-308243	280-307289	12/17/2015 15:08	1	TAL DEN	SJS
P:3005A	280-77507-E-1-E MS		280-308734	280-308357	12/21/2015 08:15	1	TAL DEN	SUR
A:6010B	280-77507-E-1-E MS		280-308734	280-308357	12/22/2015 12:57	1	TAL DEN	SJS

Lab ID: 280-77507-1 MSD **Client ID: LP-LCD**

Sample Date/Time: 12/03/2015 09:45 Received Date/Time: 12/04/2015 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-77507-E-1-C MSD		280-308098	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-C MSD		280-308098	280-307289	12/17/2015 00:09	1	TAL DEN	SJS
P:3005A	280-77507-E-1-C MSD		280-308243	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	280-77507-E-1-C MSD		280-308243	280-307289	12/17/2015 15:11	1	TAL DEN	SJS
P:3005A	280-77507-E-1-F MSD		280-308734	280-308357	12/21/2015 08:15	1	TAL DEN	SUR
A:6010B	280-77507-E-1-F MSD		280-308734	280-308357	12/22/2015 12:59	1	TAL DEN	SJS

Client: Waste Management Job Number: 280-77507-1

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:3005A	MB 280-307289/1-A		280-308098	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	MB 280-307289/1-A		280-308098	280-307289	12/16/2015 23:54	1	TAL DEN	SJS
P:3005A	MB 280-307289/1-A		280-308243	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	MB 280-307289/1-A		280-308243	280-307289	12/17/2015 14:58	1	TAL DEN	SJS
P:3005A	MB 280-308357/1-A		280-308734	280-308357	12/21/2015 08:15	1	TAL DEN	SUR
A:6010B	MB 280-308357/1-A		280-308734	280-308357	12/22/2015 12:47	1	TAL DEN	SJS
A:300.0	MB 280-307456/6		280-307456		12/11/2015 13:12	1	TAL DEN	AFB
A:350.1	MB 280-307510/20		280-307510		12/11/2015 13:24	1	TAL DEN	KAM
A:410.4	MB 280-306805/5		280-306805		12/07/2015 10:08	1	TAL DEN	CCJ
A:SM 2320B	MB 280-307468/31		280-307468		12/10/2015 19:35	1	TAL DEN	NAS
A:SM 2540C	MB 280-306656/1		280-306656		12/04/2015 16:23	1	TAL DEN	RSM
A:SM 5310B	MB 280-307232/21		280-307232		12/09/2015 20:55	1	TAL DEN	CCJ
A:SM5210B	MB 280-306650/6		280-306650		12/04/2015 15:43	1	TAL DEN	MAS

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 280-307289/2-A		280-308098	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	LCS 280-307289/2-A		280-308098	280-307289	12/16/2015 23:59	1	TAL DEN	SJS
P:3005A	LCS 280-307289/2-A		280-308243	280-307289	12/11/2015 08:15	1	TAL DEN	TEB
A:6010B	LCS 280-307289/2-A		280-308243	280-307289	12/17/2015 15:01	1	TAL DEN	SJS
P:3005A	LCS 280-308357/2-A		280-308734	280-308357	12/21/2015 08:15	1	TAL DEN	SUR
A:6010B	LCS 280-308357/2-A		280-308734	280-308357	12/22/2015 12:49	1	TAL DEN	SJS
A:300.0	LCS 280-307456/4		280-307456		12/11/2015 12:37	1	TAL DEN	AFB
A:350.1	LCS 280-307510/18		280-307510		12/11/2015 13:20	1	TAL DEN	KAM
A:410.4	LCS 280-306805/3		280-306805		12/07/2015 10:08	1	TAL DEN	CCJ
A:SM 2320B	LCS 280-307468/30		280-307468		12/10/2015 19:29	1	TAL DEN	NAS
A:SM 2540C	LCS 280-306656/2		280-306656		12/04/2015 16:23	1	TAL DEN	RSM
A:SM 5310B	LCS 280-307232/19		280-307232		12/09/2015 20:18	1	TAL DEN	CCJ
A:SM5210B	LCS 280-306650/5		280-306650		12/04/2015 15:43	1	TAL DEN	MAS

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 280-307456/5		280-307456		12/11/2015 12:55	1	TAL DEN	AFB
A:350.1	LCSD 280-307510/19		280-307510		12/11/2015 13:22	1	TAL DEN	KAM
A:410.4	LCSD 280-306805/4		280-306805		12/07/2015 10:08	1	TAL DEN	CCJ
A:SM 5310B	LCSD 280-307232/20		280-307232		12/09/2015 20:36	1	TAL DEN	CCJ
A:SM5210B	LCSD 280-306650/4		280-306650		12/04/2015 15:43	1	TAL DEN	MAS

Client: Waste Management Job Number: 280-77507-1

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 280-307456/3		280-307456		12/11/2015 12:19	1	TAL DEN	AFB

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 12/09/2015 08:45 Received Date/Time: 12/09/2015 10:17

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-77729-D-12 MS		280-307456		12/11/2015 22:00	10	TAL DEN	AFB
A:350.1	280-77020-C-3 MS		280-307510		12/11/2015 13:32	1	TAL DEN	KAM
A:410.4	280-77509-B-3 MS		280-306805		12/07/2015 10:08	10	TAL DEN	CCJ
A:SM 5310B	280-77662-C-1 MS		280-307232		12/09/2015 21:43	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 12/09/2015 08:45 Received Date/Time: 12/09/2015 10:17

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-77729-D-12 MSD		280-307456		12/11/2015 22:17	10	TAL DEN	AFB
A:350.1	280-77020-C-3 MSD		280-307510		12/11/2015 13:34	1	TAL DEN	KAM
A:410.4	280-77509-B-3 MSD		280-306805		12/07/2015 10:08	10	TAL DEN	CCJ
A:SM 5310B	280-77662-C-1 MSD		280-307232		12/09/2015 22:02	1	TAL DEN	CCJ

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 12/09/2015 08:45 Received Date/Time: 12/09/2015 10:17

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-77729-D-12 DU		280-307456		12/11/2015 21:42	10	TAL DEN	AFB
A:SM 2320B	280-77584-G-5 DU		280-307468		12/10/2015 19:44	1	TAL DEN	NAS
A:SM 2540C	280-77522-G-1 DU		280-306656		12/04/2015 16:23	1	TAL DEN	RSM
A:SM5210B	280-77508-C-1 DU		280-306650		12/04/2015 15:43	1	TAL DEN	MAS

Lab References:
TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brad Beach	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-31456-972.1
Client Contact: Mr. Charles Luckie	Phone: 360-703-8156	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: Olympic View Transfer Station 9300 Southwest Barney White Ro	Due Date Requested:			
City: Bremerton	TAT Requested (days):			
State, Zip: WA, 98312				
Phone:	PO #: Purchase Order not requir			
Email: cluckie@wm.com	WO #:			
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692-Quarterly Leachate Appll - Mar Jun Sep			
Site: Washington	SSOW#:			

Analysis Requested

280-77507 Chain of Custody

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	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)	Cl/SO4/Alks/TDS	Total Metals	Ammonia/TOC/COD	BOD	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				N	D	S	N		
LP-LCD	12/3/15	0945	G	Water	N		X	X	X	X		short holds: BOD

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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		12/3/15 1000	SCS-FS		12/4/15 1000	TAD
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 498683 | Cooler Temperature(s) °C and Other Remarks: 3.6+0.0 IR#7 DW 12/4/15

12/24/2015

FIELD INFORMATION FORM

Site Name: OVSL

Site No.: 503702 Sample Point: LPLCD (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)

WASTE MANAGEMENT

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
120315	0945				

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: ____ (same codes)

X-Other: ____

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(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)
		1st	1st					
		2nd	2nd					
		3rd	3rd					
		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: TIME Units
120315	7.19	3929	10.34	4.99	7.51	-258	0945

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: offcolor/particulates Odor: Slight Color: Straw Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NO Outlook: Overcast/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
12/3/15	Bradley Beach		SCS-FS

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

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-77507-1

Login Number: 77507
List Number: 1
Creator: White, Denise E

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	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 C

2015 ANNUAL TIME SERIES, TREND TEST AND PREDICTION LIMIT EVALUATION

Olympic View Sanitary Landfill

Annual Statistical Evaluation & Summary

2015 Monitoring Year

Prepared for:

SCS ENGINEERS

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JANUARY 2016

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1. Statistical Trend Analysis

- Trend Results Summary Table (showing status through Q4 2015) (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 2015 REPORT

Trend Test Period: January 2005 through December 2015

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-24 (graph 558) MW-34C (graph 565)

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-16 (graph 92) MW-19C (graph 93) MW-23A (graph 95) MW-24 (graph 96) MW-32 (graph 99) MW-33C (graph 101) MW-34C (graph 103) MW-36A (graph 105) MW-4 (graph 107)
Barium, dissolved	None	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-34A (graph 124) MW-36A (graph 127)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-36A (graph 237)	MW-16 (graph 224)
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	MW-36A (graph 677)
Zinc, dissolved	None	None
Nitrate (as N)	MW-20 (graph 402) MW-35 (graph 412) MW-36A (graph 413)	None
pH	MW-23A (graph 425) MW-42 (graph 438)	None

TABLE 1-1

Specific Conductivity	None	MW-15R (graph 531) MW-19C (graph 533) MW-23A (graph 535) MW-24 (graph 536) MW-29A (graph 537) MW-2B1 (graph 538) MW-32 (graph 539) MW-33A (graph 540) MW-34A (graph 542) MW-34C (graph 543) MW-36A (graph 545) MW-4 (graph 547)
Temperature	MW-15R (graph 575) MW-20 (graph 578) MW-2B1 (graph 582) MW-32 (graph 583) MW-33C (graph 585) MW-34A (graph 586) MW-34C (graph 587) MW-35 (graph 588)	MW-24 (graph 580)
Calcium, dissolved	None	MW-15R (graph 179) MW-23A (graph 183) MW-24 (graph 184) MW-29A (graph 185) MW-2B1 (graph 186) MW-33A (graph 188) MW-34A (graph 190) MW-34C (graph 191) MW-36A (graph 193) MW-9 (graph 198)
Bicarbonate Alkalinity (as CaCO3)	MW-13B (graph 2) MW-35 (graph 16)	MW-15R (graph 3) MW-23A (graph 7) MW-24 (graph 8) MW-2B1 (graph 10) MW-36A (graph 17) MW-4 (graph 19)
Magnesium, dissolved	None	MW-15R (graph 333) MW-23A (graph 337) MW-24 (graph 338) MW-2B1 (graph 340) MW-33A (graph 342) MW-34A (graph 344) MW-34C (graph 345)

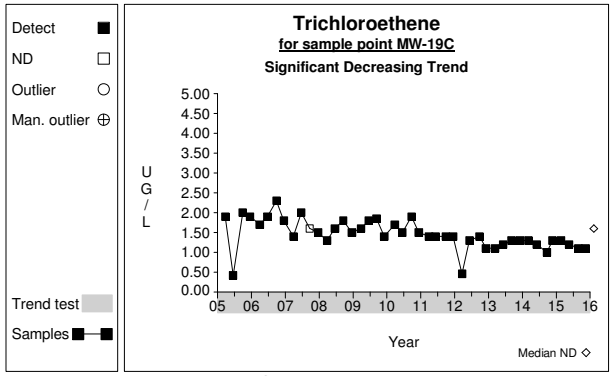
TABLE 1-1

Sulfate	MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-23A (graph 557) MW-36A (graph 567) MW-4 (graph 569)
Sodium, dissolved	MW-20 (graph 512)	MW-15R (graph 509) MW-19C (graph 511) MW-23A (graph 513) MW-24 (graph 514) MW-2B1 (graph 516) MW-34A (graph 520) MW-34C (graph 521)
Chloride	MW-39 (216)	MW-15R (graph 201) MW-16 (graph 202) MW-19C (graph 203) MW-23A (graph 205) MW-2B1 (graph 208) MW-33A (graph 210) MW-34A (graph 212) MW-34C (graph 213) MW-35 (graph 214) MW-36A (graph 215) MW-4 (graph 217)
Potassium, dissolved	MW-20 (graph 446) MW-42 (graph 460)	None
Total Alkalinity as CaCO3	MW-13B (graph 24) MW-35 (graph 38)	MW-15R (graph 25) MW-23A (graph 29) MW-24 (graph 30) MW-2B1 (graph 32) MW-36A (graph 39)
Iron, dissolved	None	MW-19C (graph 291) MW-24 (graph 294) MW-32 (graph 297) MW-34C (graph 301) MW-9 (graph 308)
Manganese, dissolved	None	MW-15R (graph 355) MW-23A (graph 359) MW-24 (graph 360) MW-34C (graph 367)
Ammonia (as N)	None	MW-29A (graph 53)
Total Organic Carbon	None	None

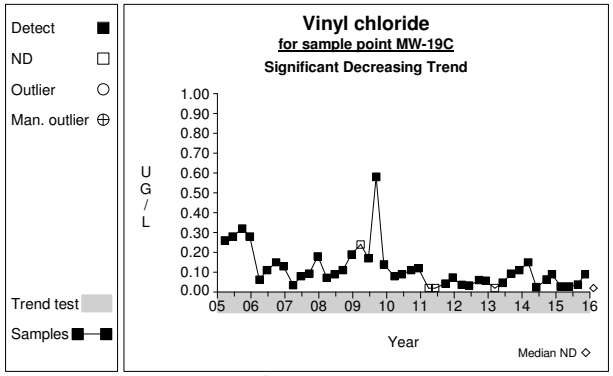
TABLE 1-1

Total Dissolved Solids	None	MW-15R (graph 619) MW-23A (graph 623) MW-24 (graph 624) MW-2B1 (graph 626) MW-33A (graph 628) MW-34C (graph 631)

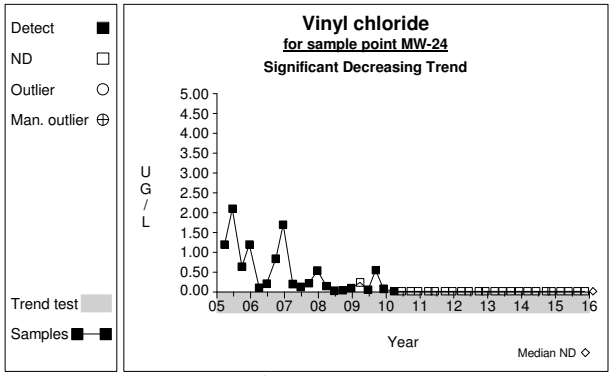
Time Series



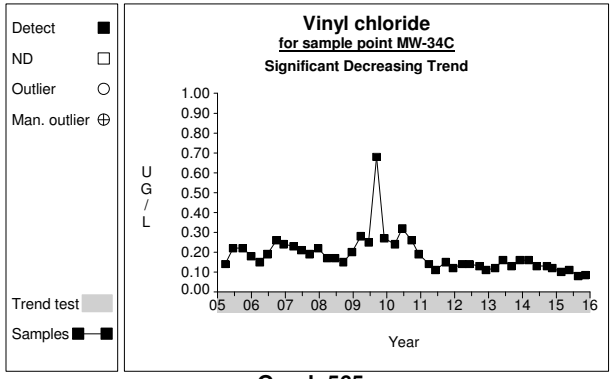
Graph 533



Graph 555

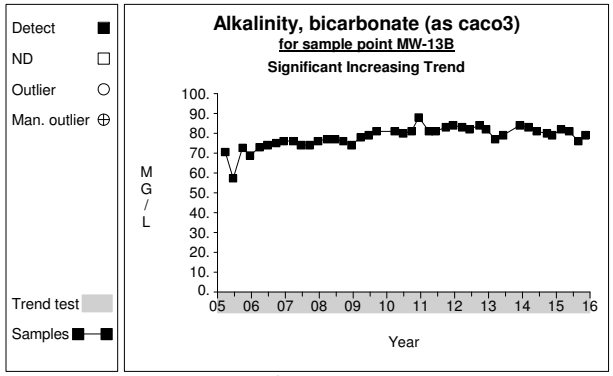


Graph 558

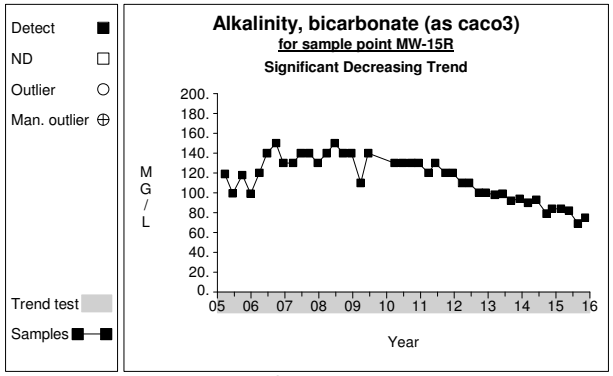


Graph 565

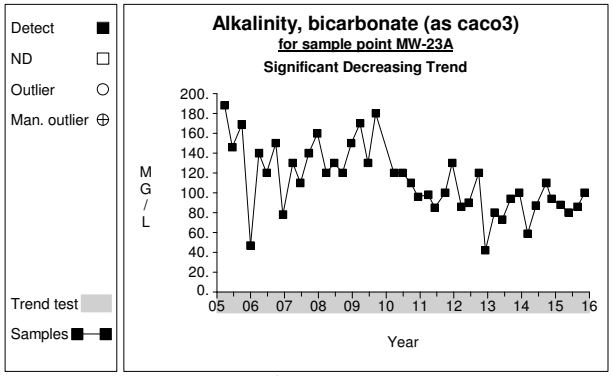
Time Series



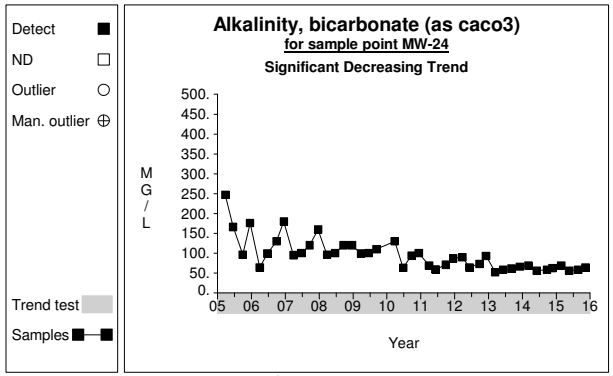
Graph 2



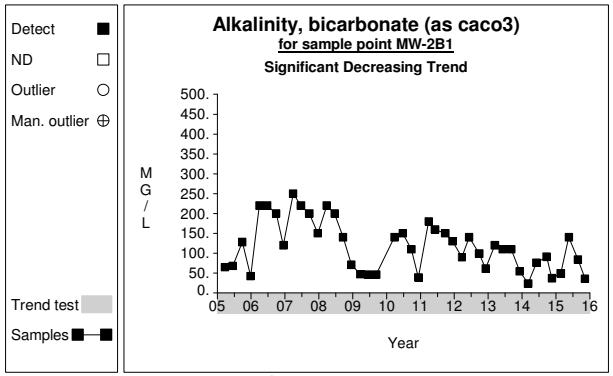
Graph 3



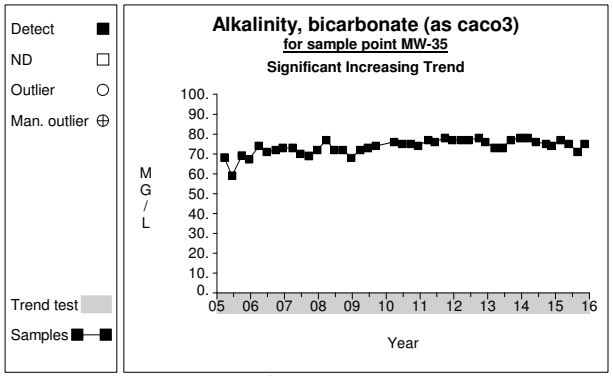
Graph 7



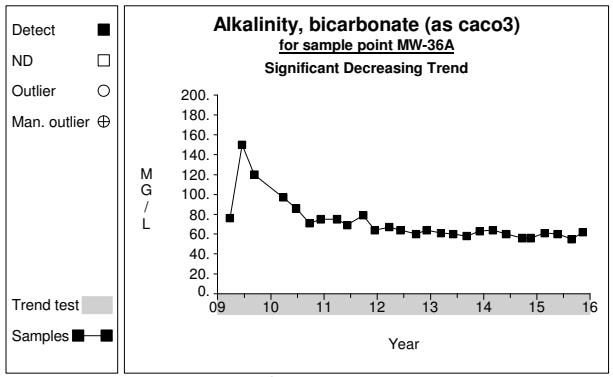
Graph 8



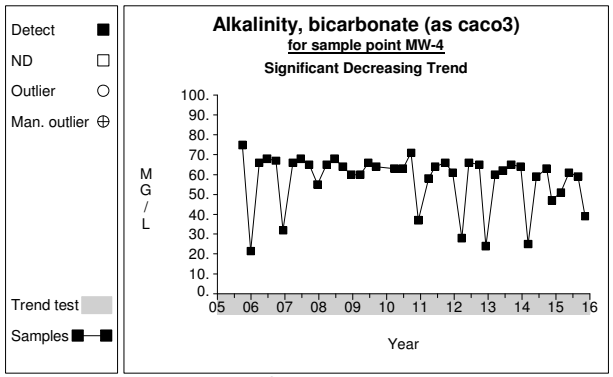
Graph 10



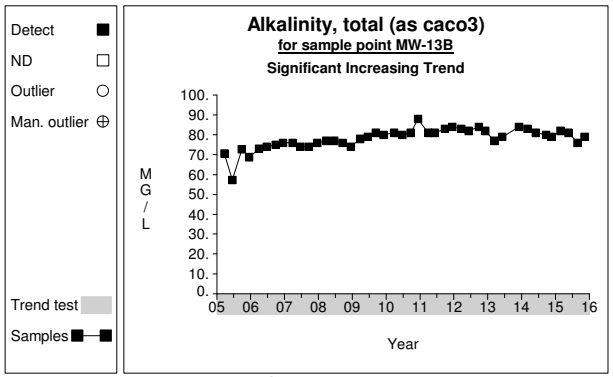
Graph 16



Graph 17

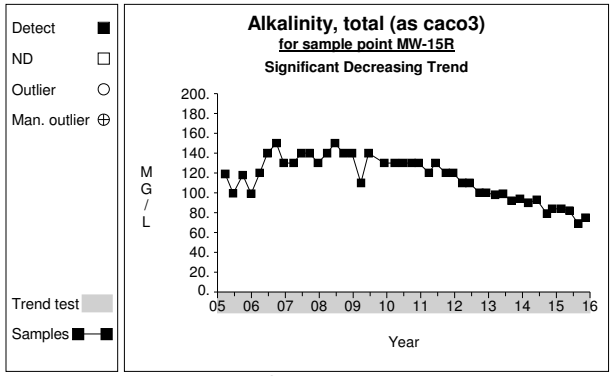


Graph 19

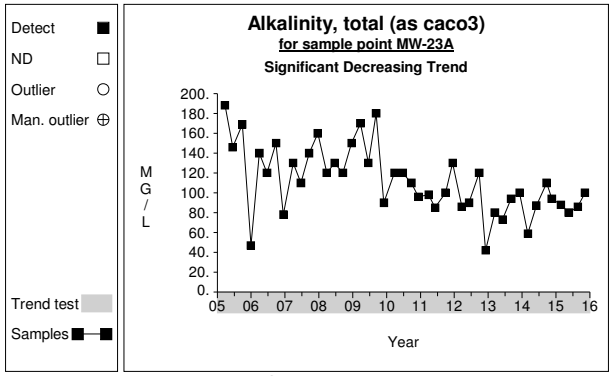


Graph 24

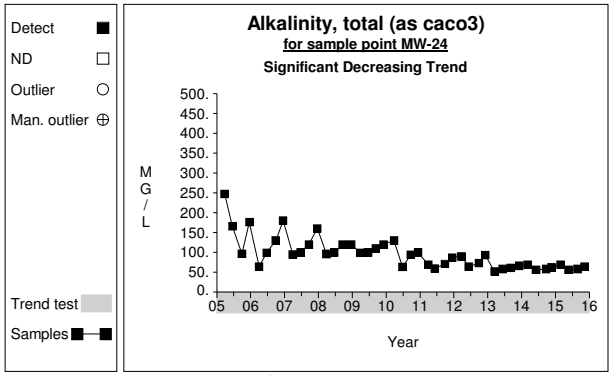
Time Series



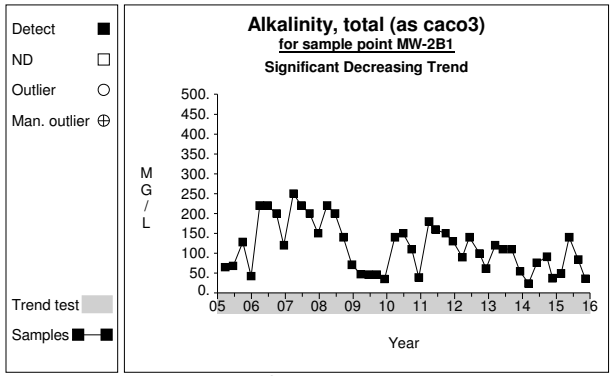
Graph 25



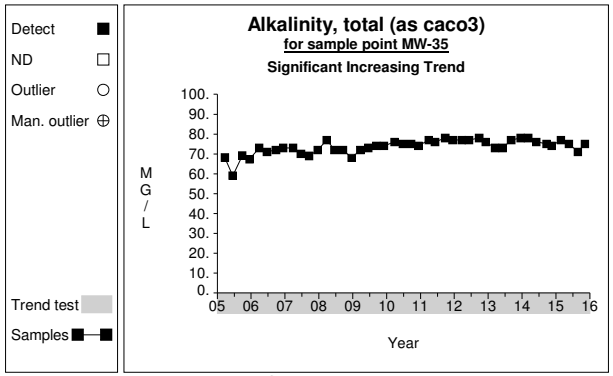
Graph 29



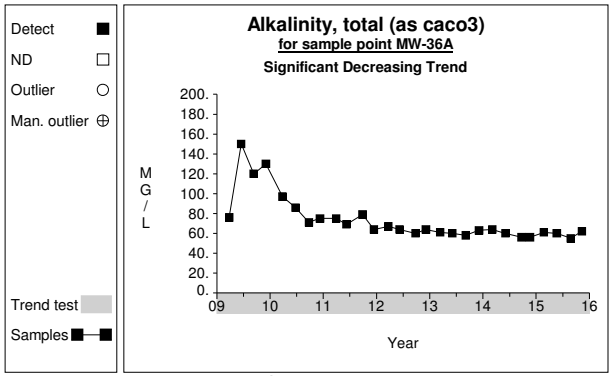
Graph 30



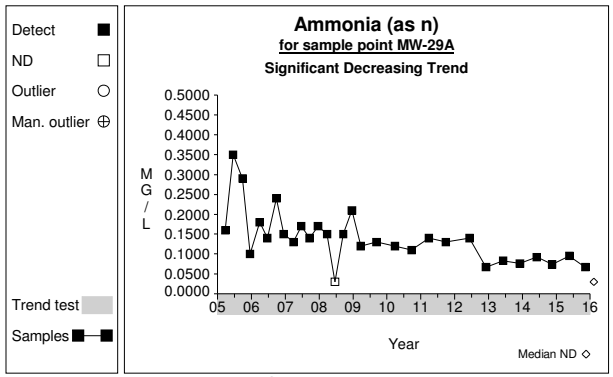
Graph 32



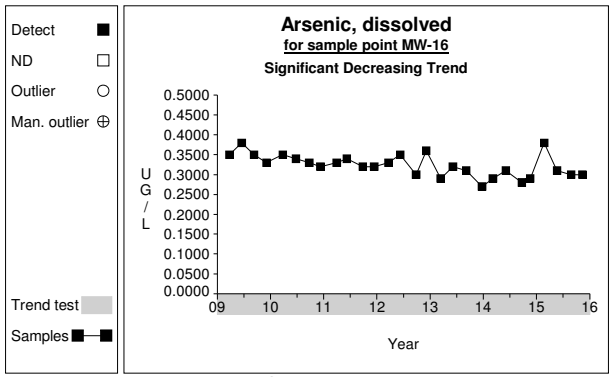
Graph 38



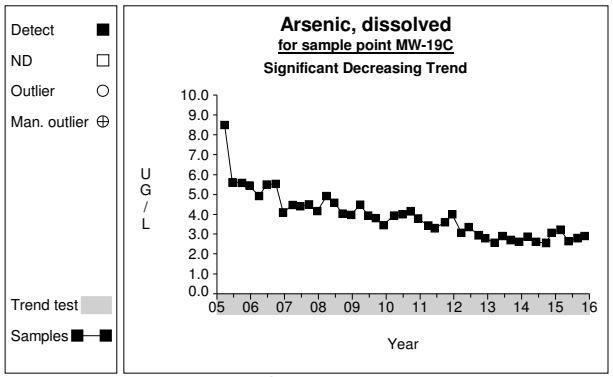
Graph 39



Graph 53

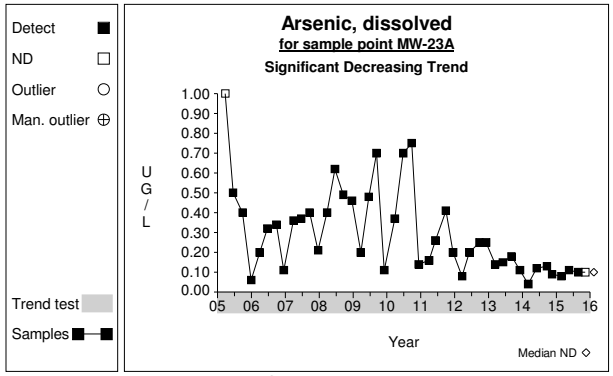


Graph 92

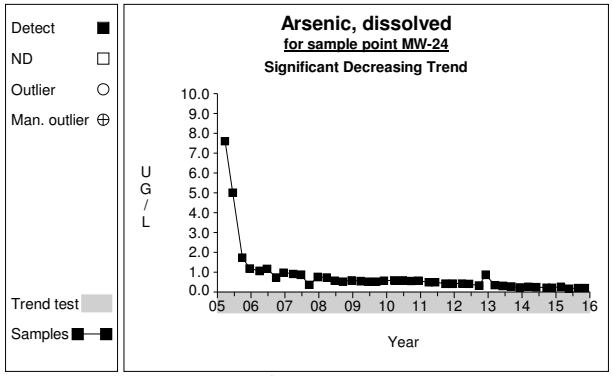


Graph 93

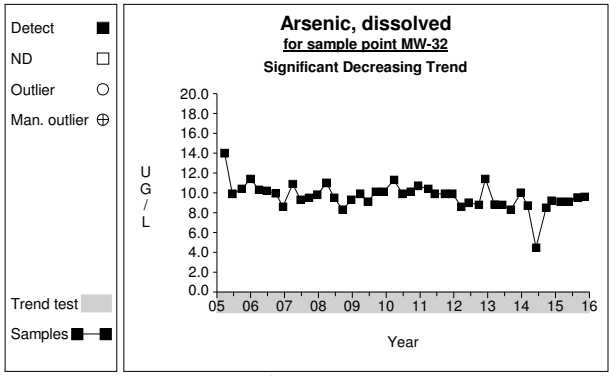
Time Series



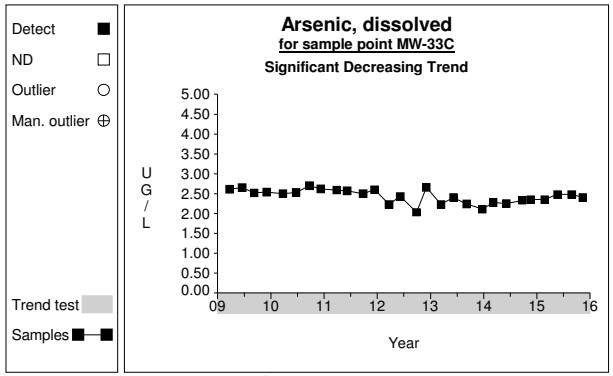
Graph 95



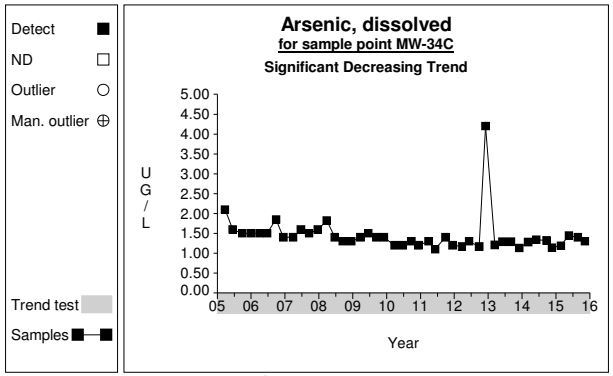
Graph 96



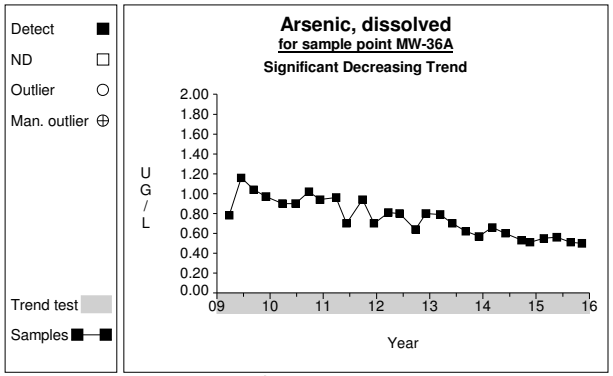
Graph 99



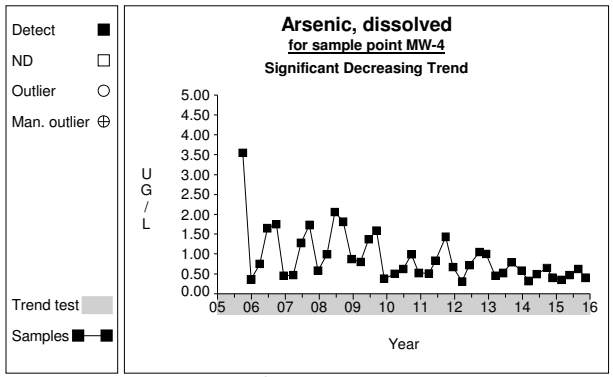
Graph 101



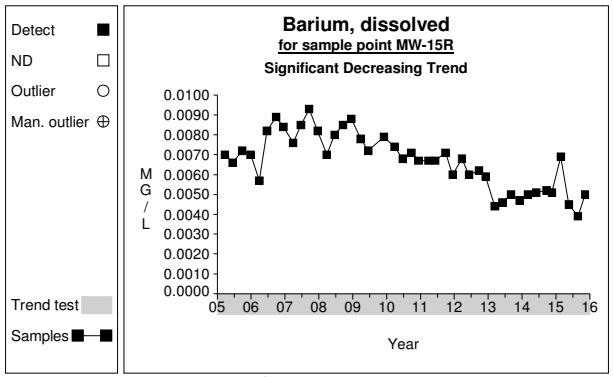
Graph 103



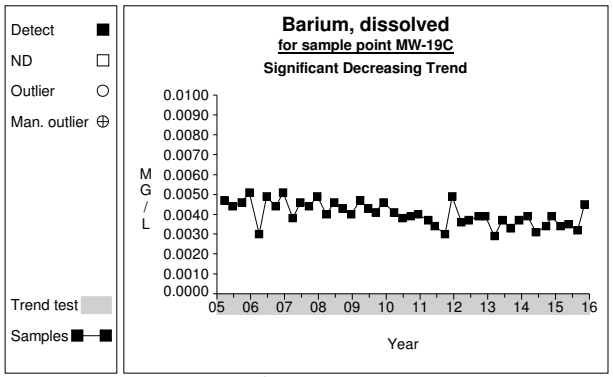
Graph 105



Graph 107

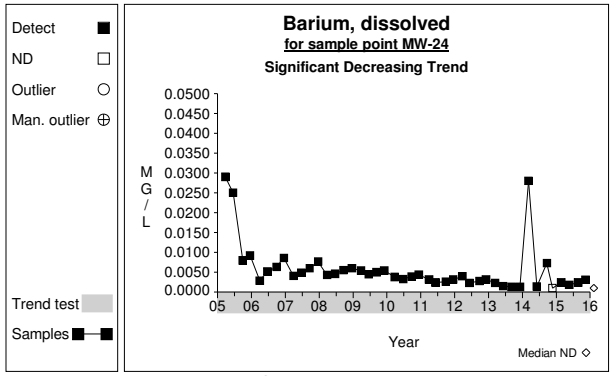


Graph 113

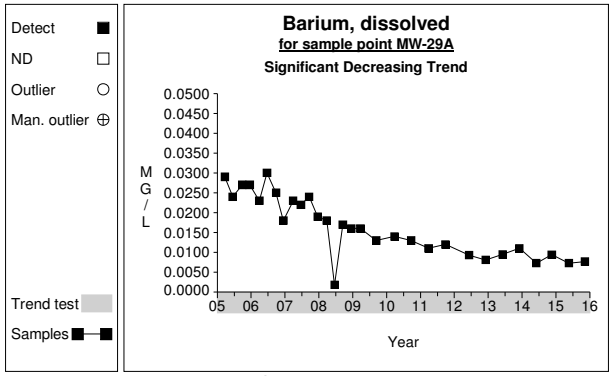


Graph 115

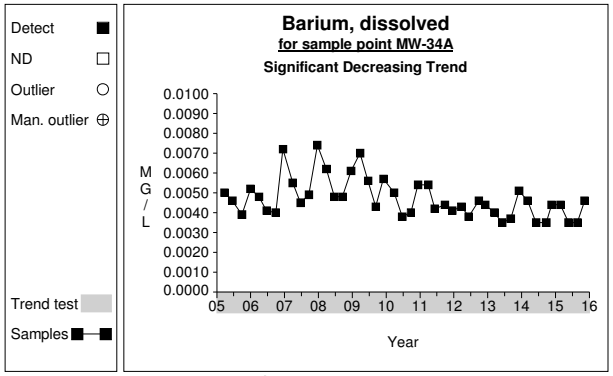
Time Series



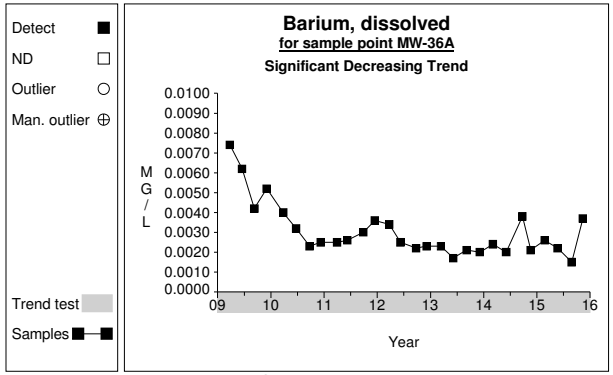
Graph 118



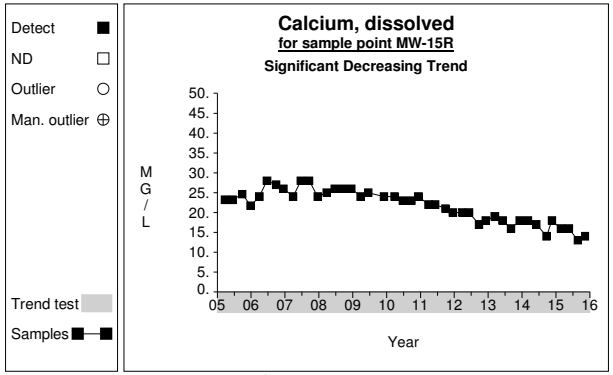
Graph 119



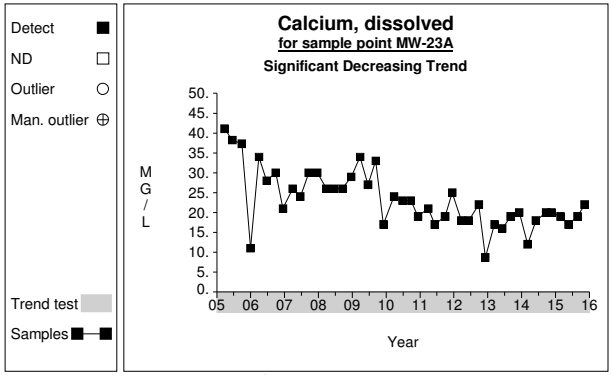
Graph 124



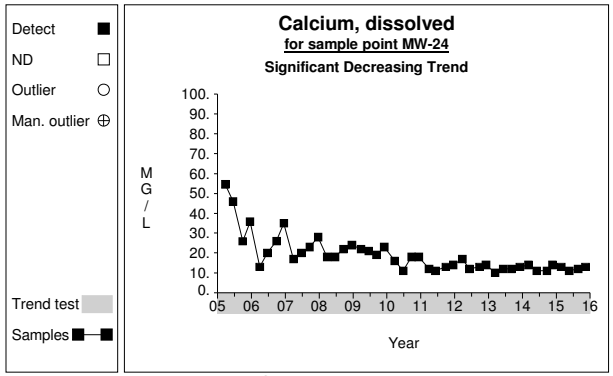
Graph 127



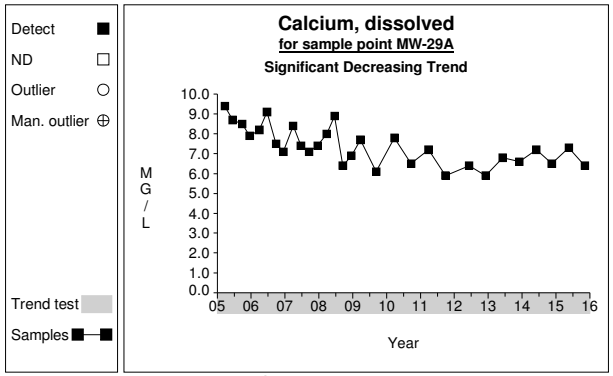
Graph 179



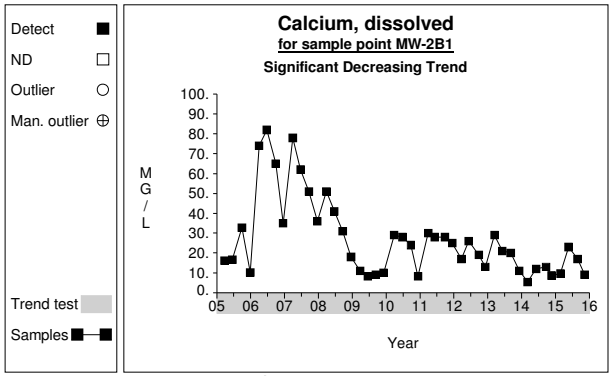
Graph 183



Graph 184

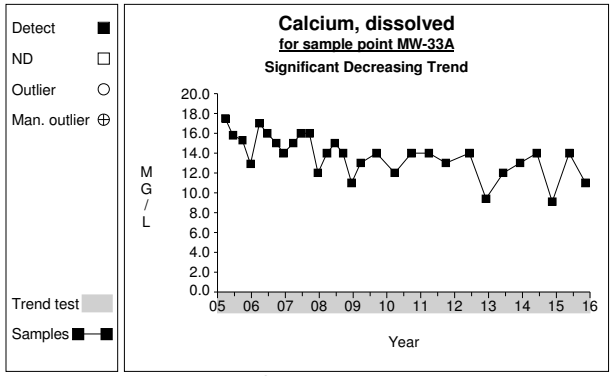


Graph 185

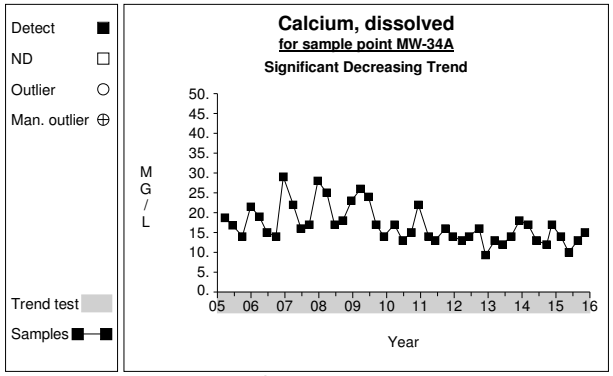


Graph 186

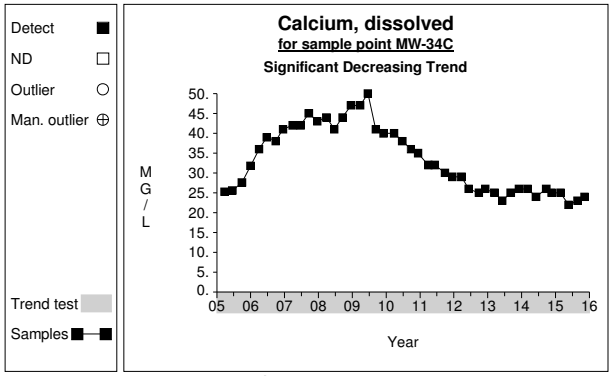
Time Series



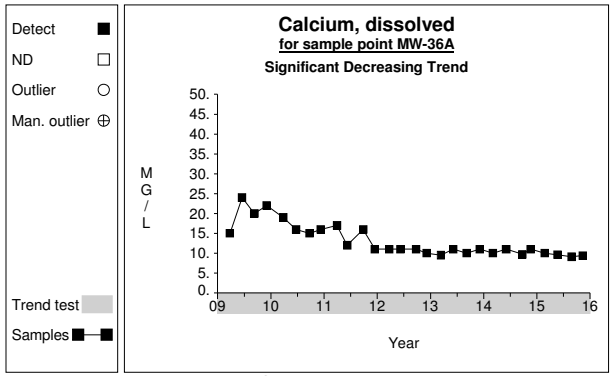
Graph 188



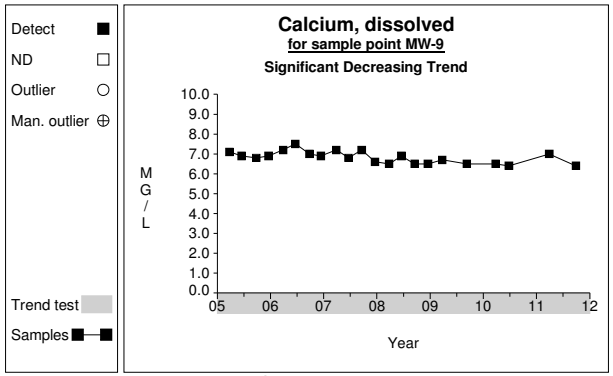
Graph 190



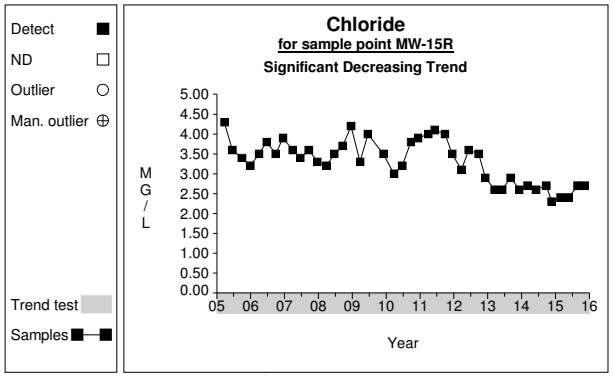
Graph 191



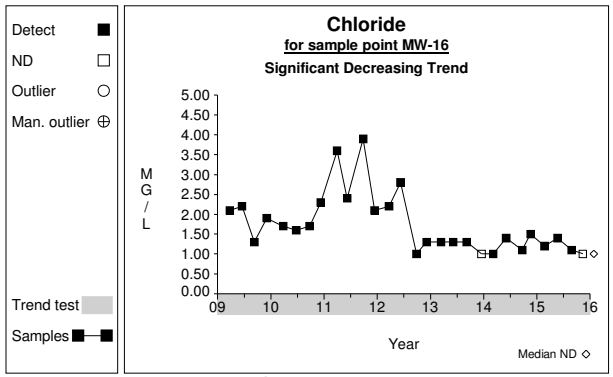
Graph 193



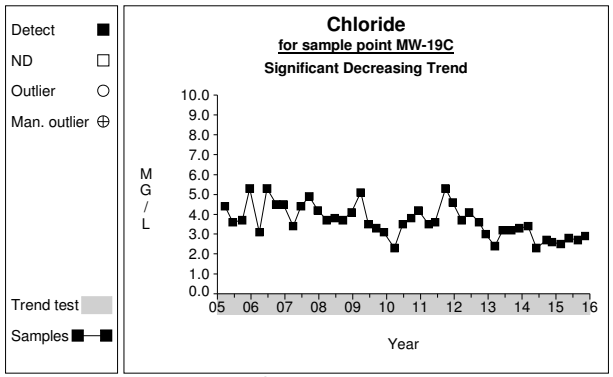
Graph 198



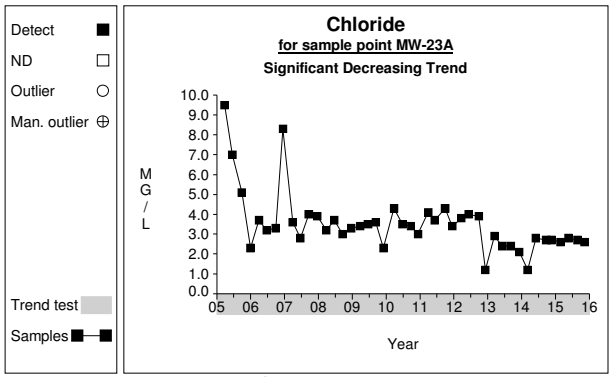
Graph 201



Graph 202

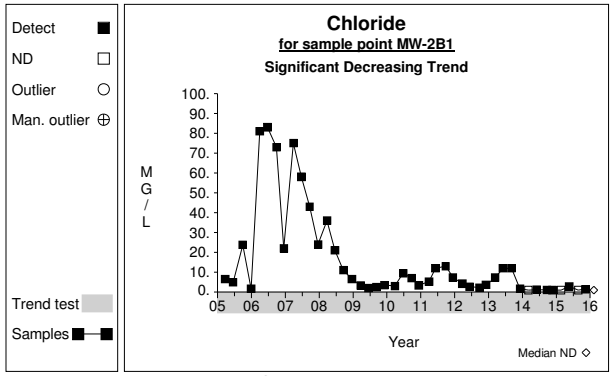


Graph 203

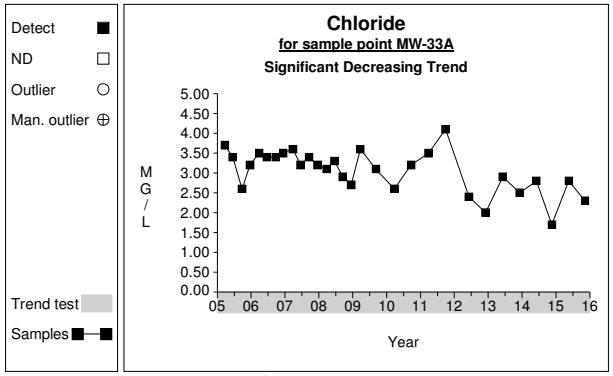


Graph 205

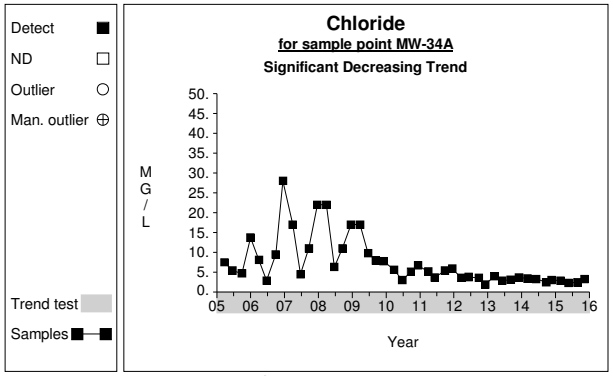
Time Series



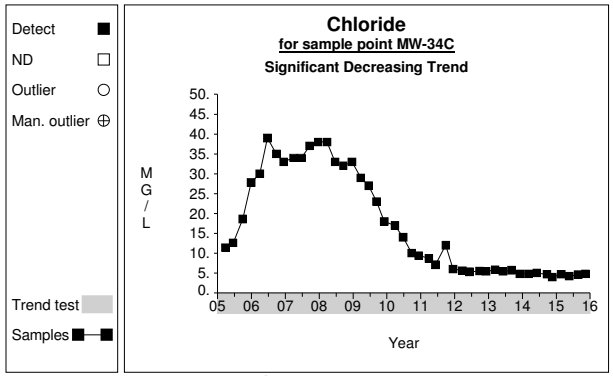
Graph 208



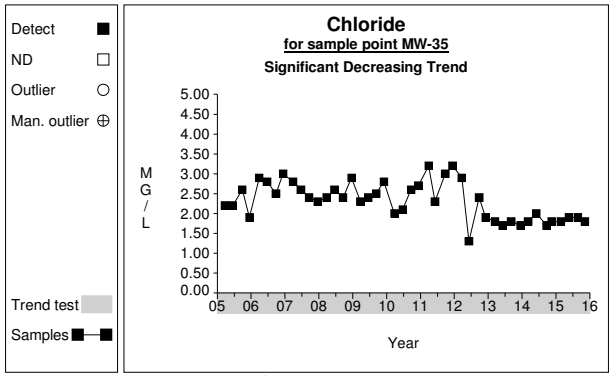
Graph 210



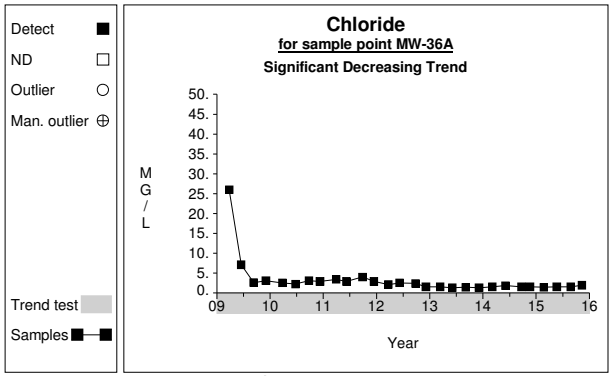
Graph 212



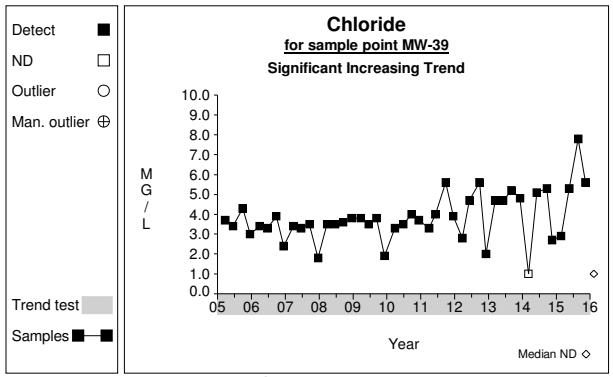
Graph 213



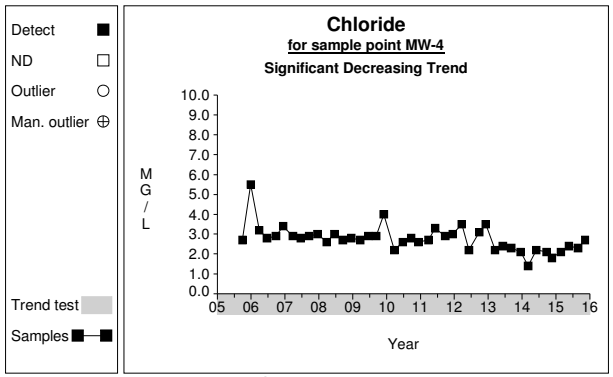
Graph 214



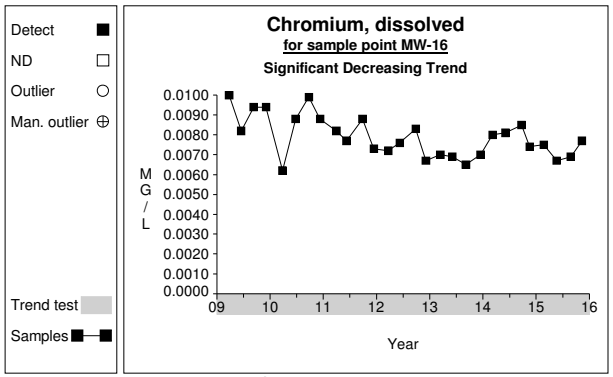
Graph 215



Graph 216

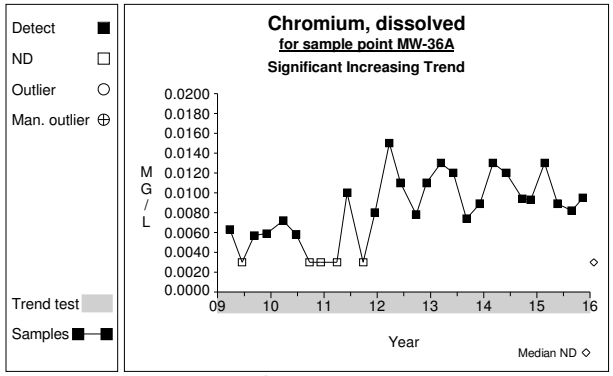


Graph 217

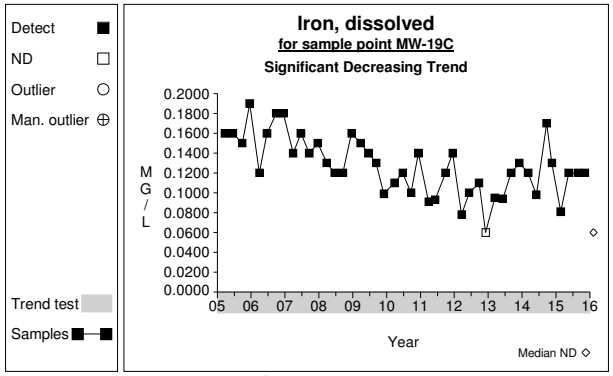


Graph 224

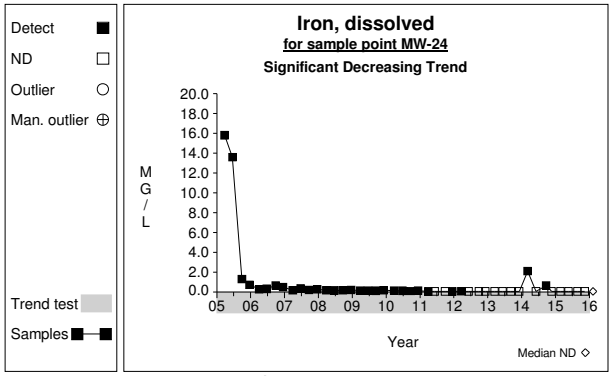
Time Series



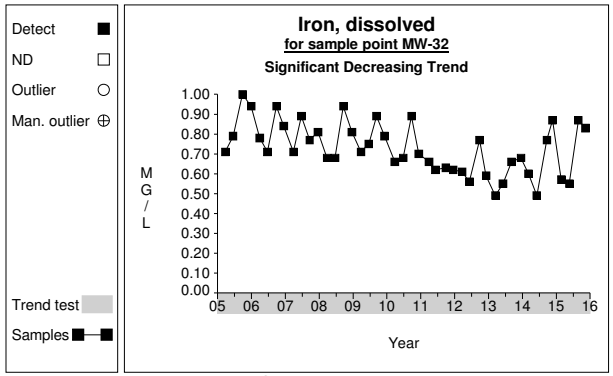
Graph 237



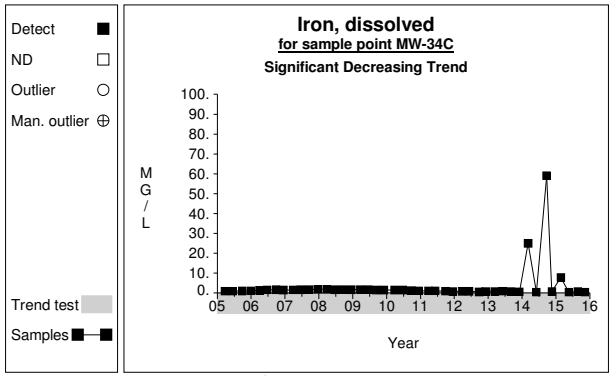
Graph 291



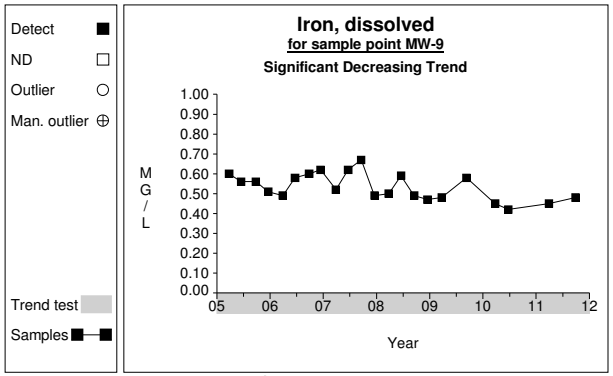
Graph 294



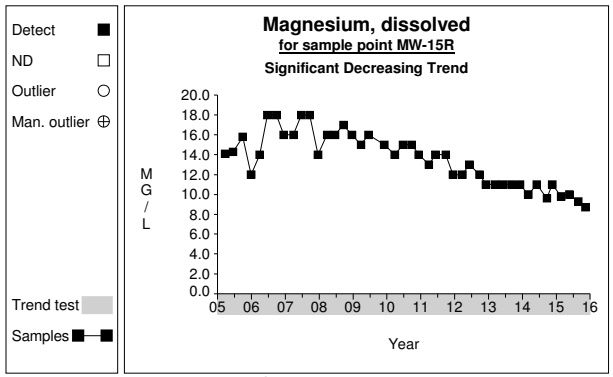
Graph 297



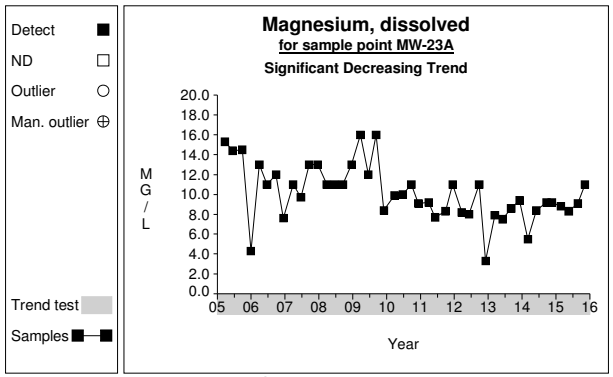
Graph 301



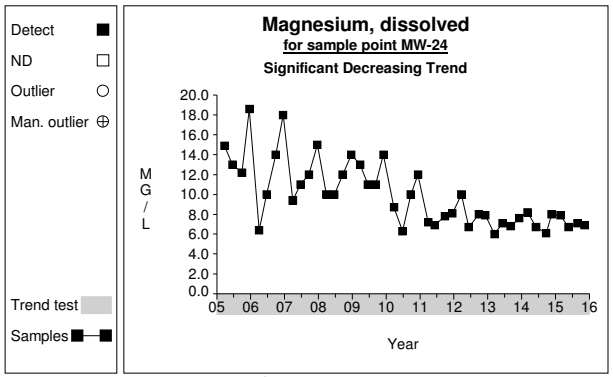
Graph 308



Graph 333

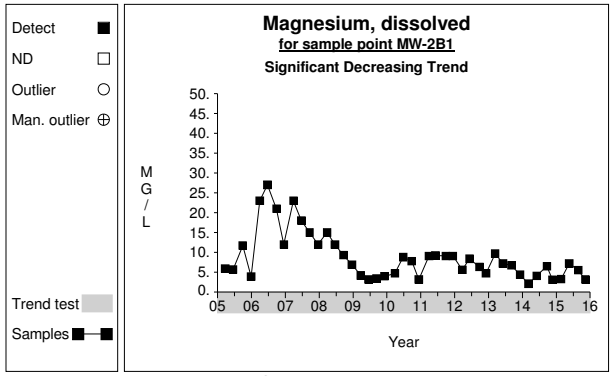


Graph 337

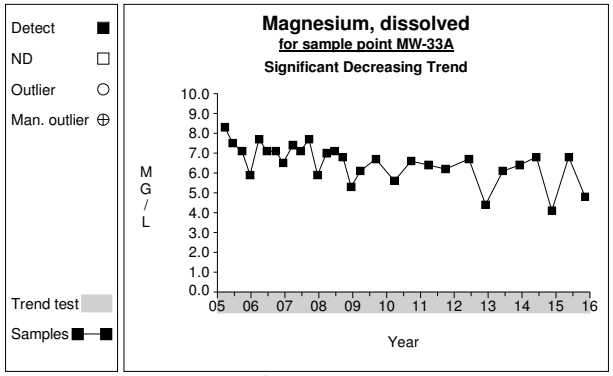


Graph 338

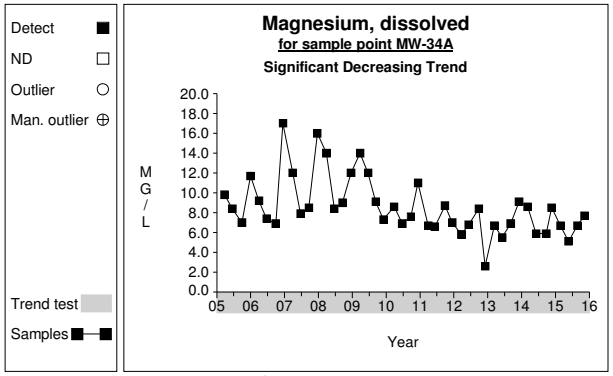
Time Series



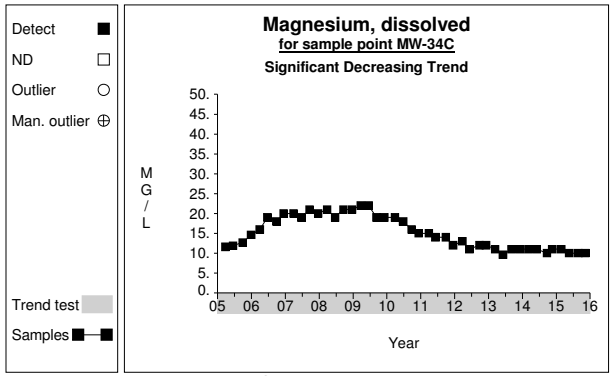
Graph 340



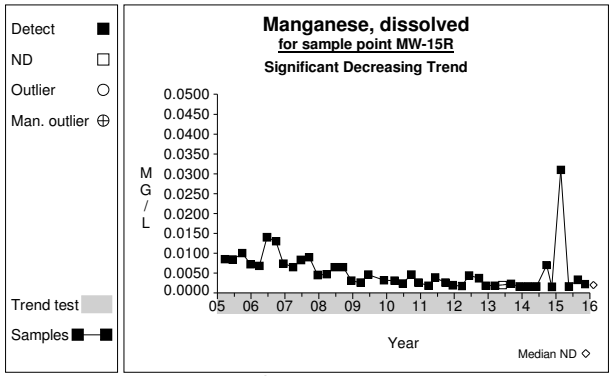
Graph 342



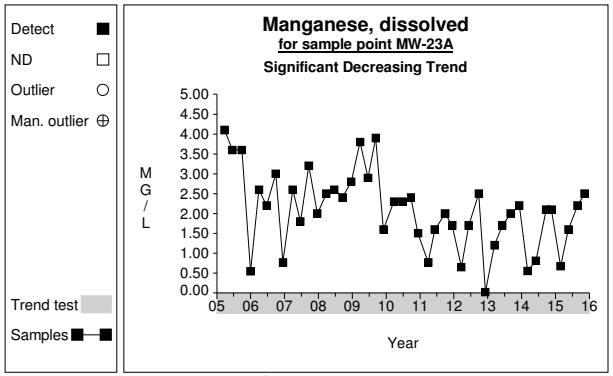
Graph 344



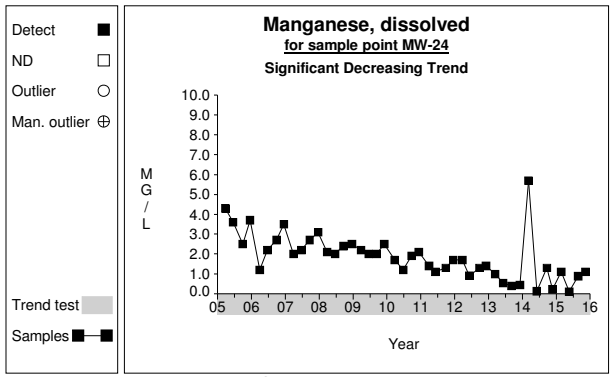
Graph 345



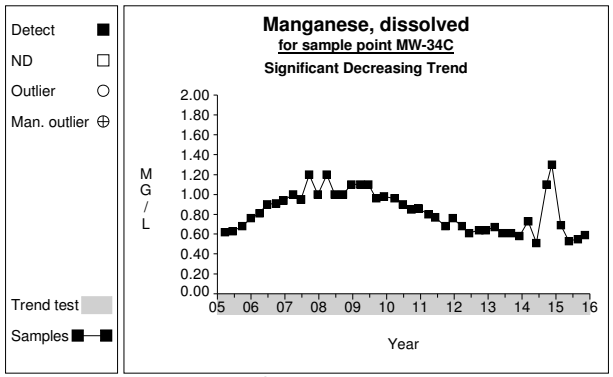
Graph 355



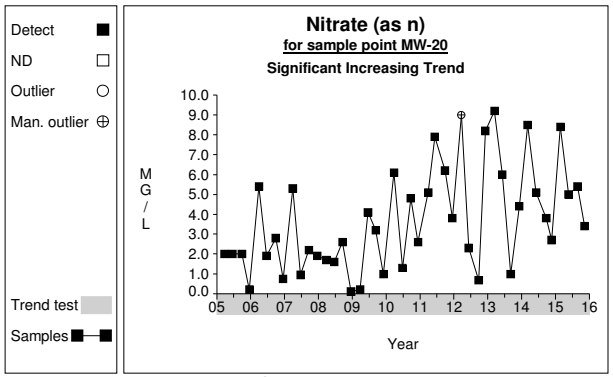
Graph 359



Graph 360

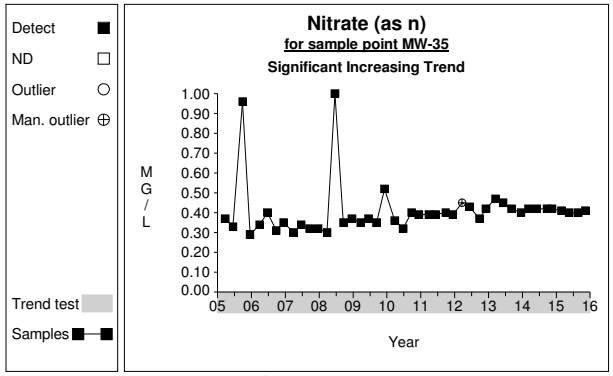


Graph 367

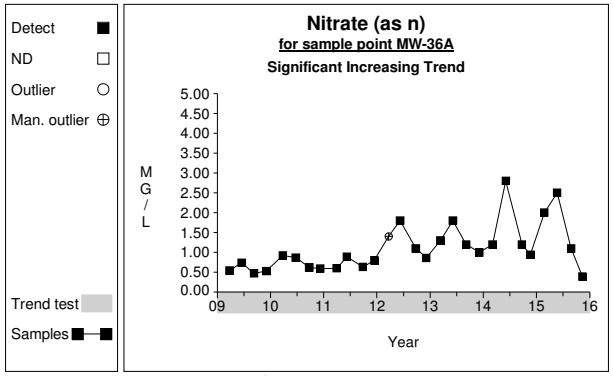


Graph 402

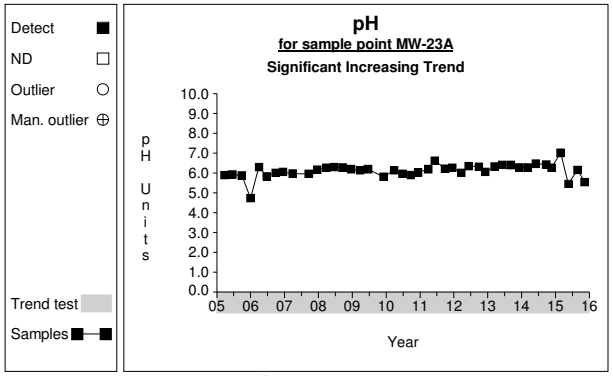
Time Series



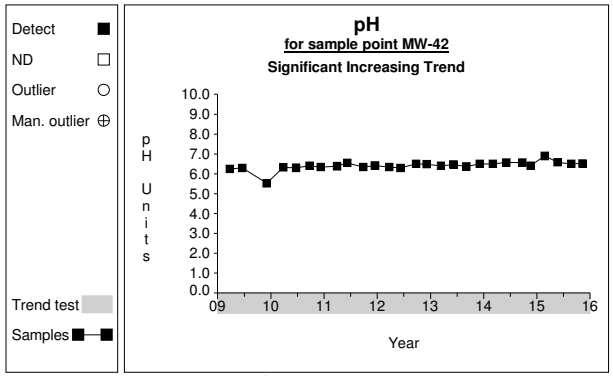
Graph 412



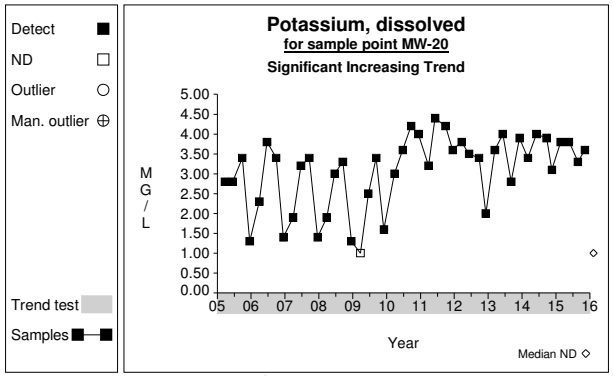
Graph 413



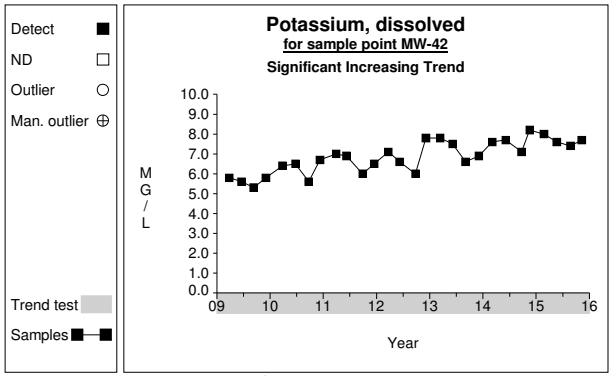
Graph 425



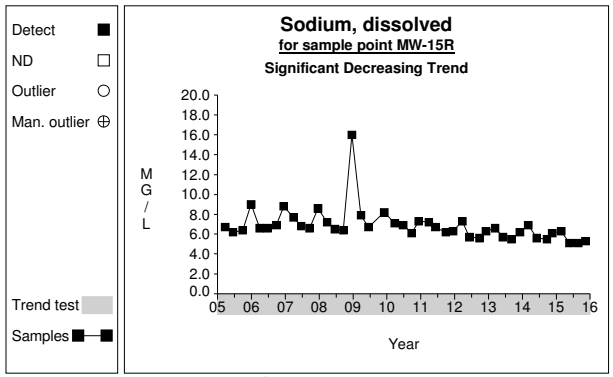
Graph 438



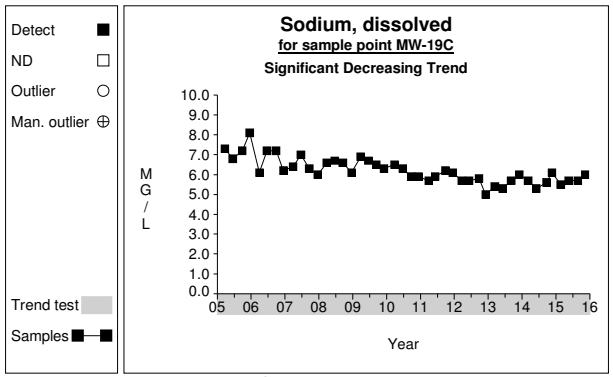
Graph 446



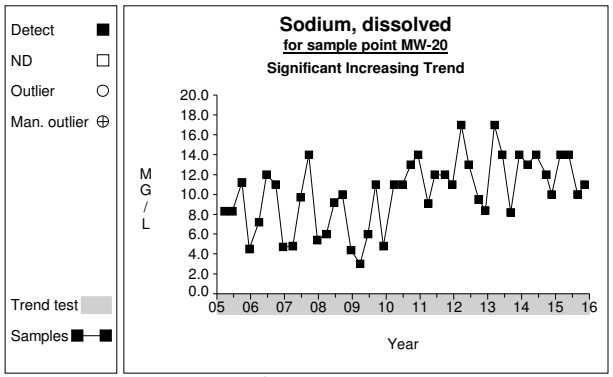
Graph 460



Graph 509

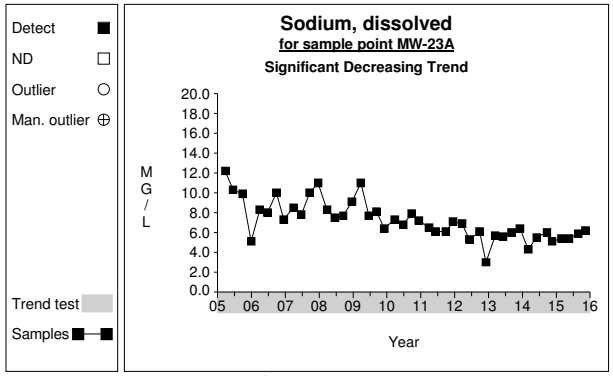


Graph 511

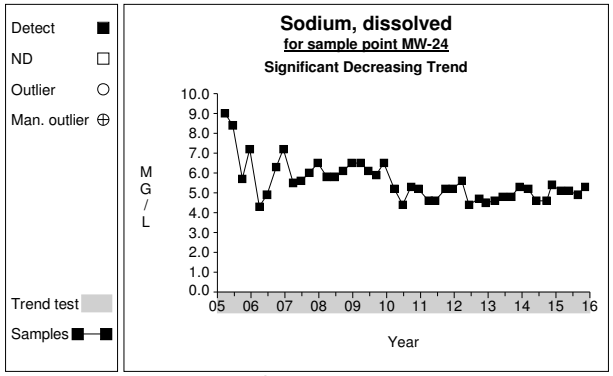


Graph 512

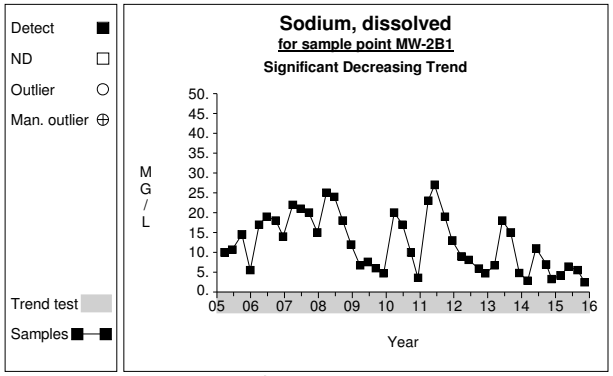
Time Series



Graph 513



Graph 514



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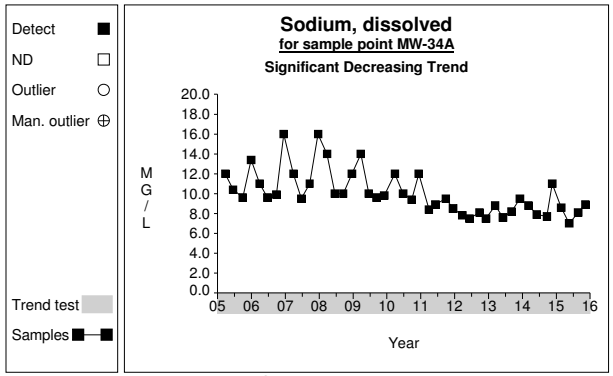
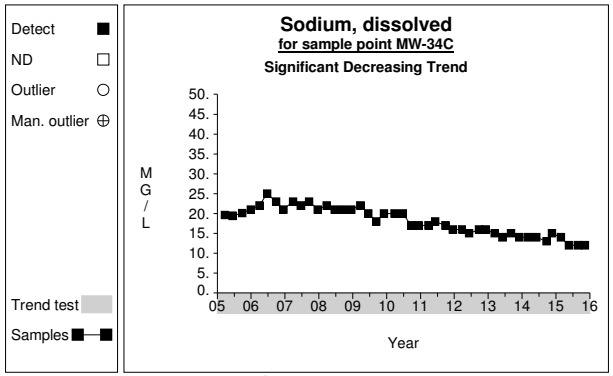


Graph 520



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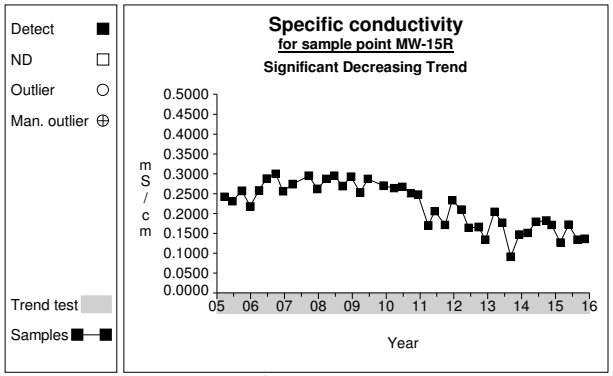

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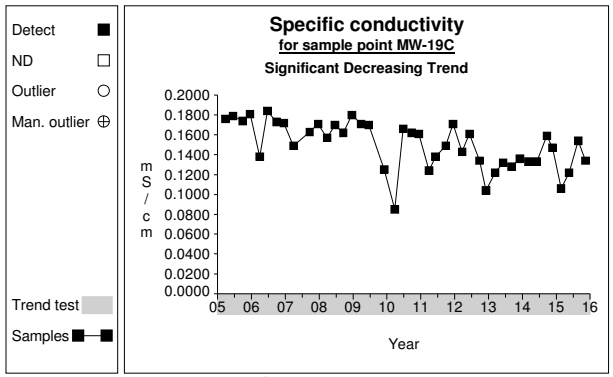

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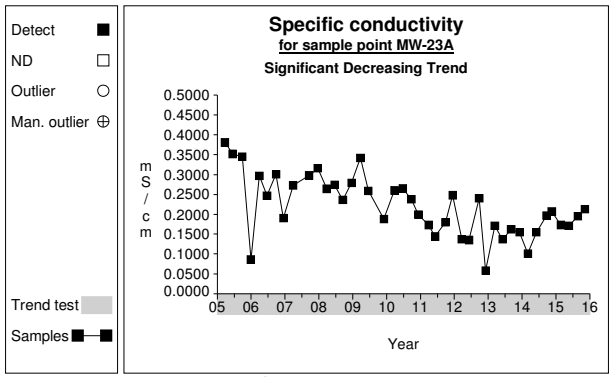
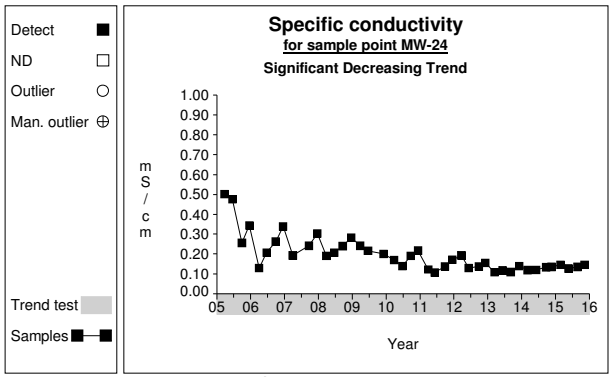
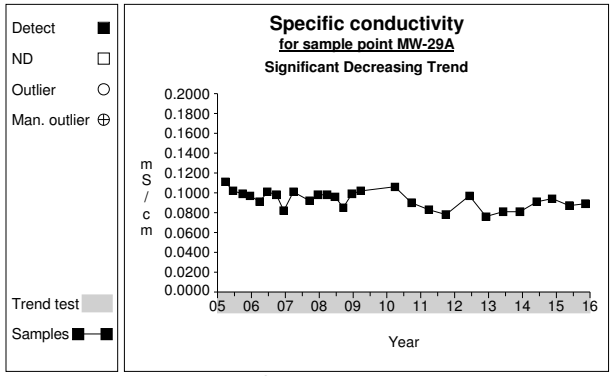


Graph 535

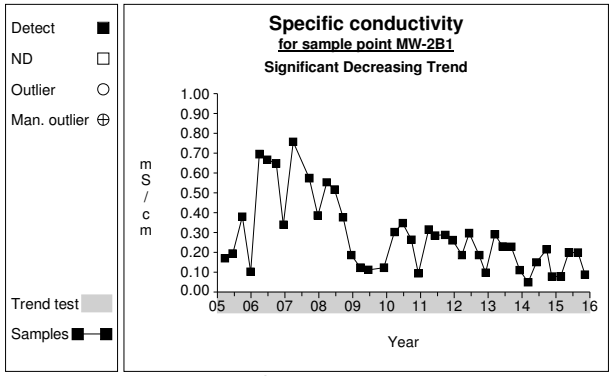


Graph 536

Time Series



Graph 537



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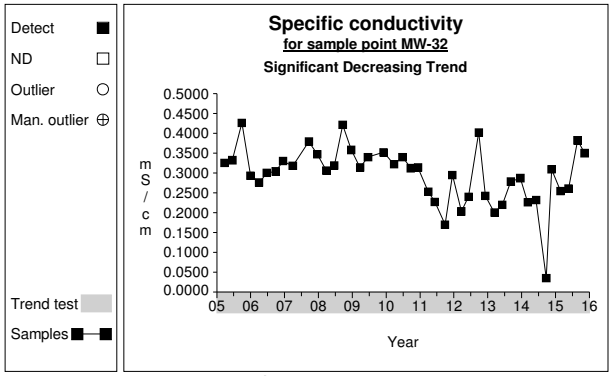

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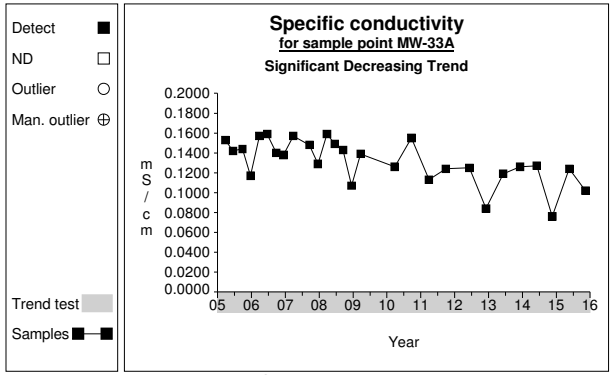

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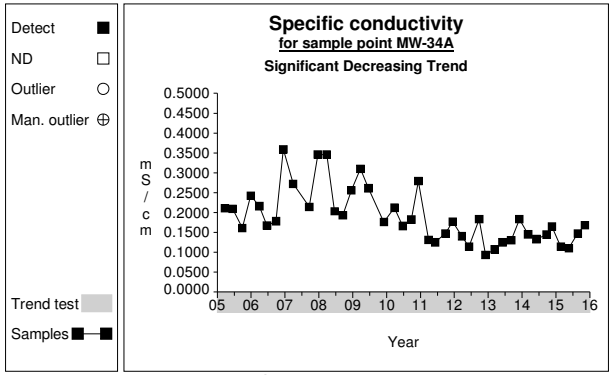

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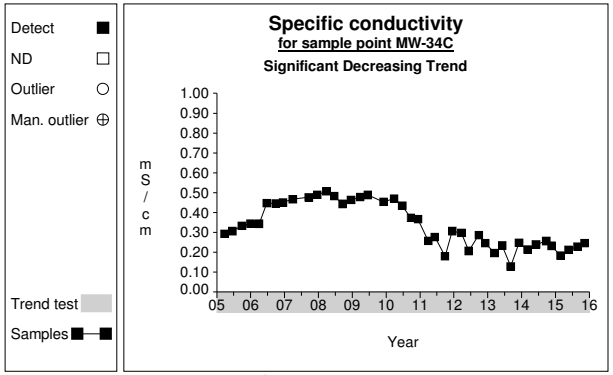

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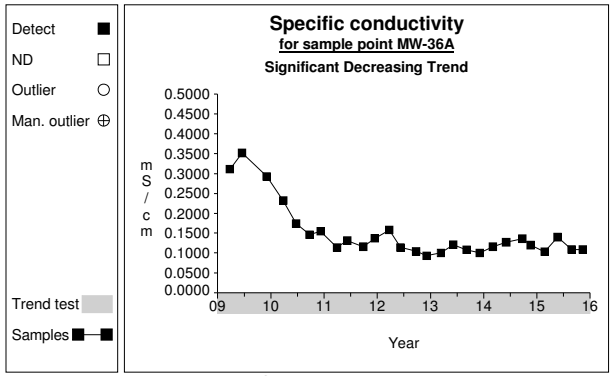
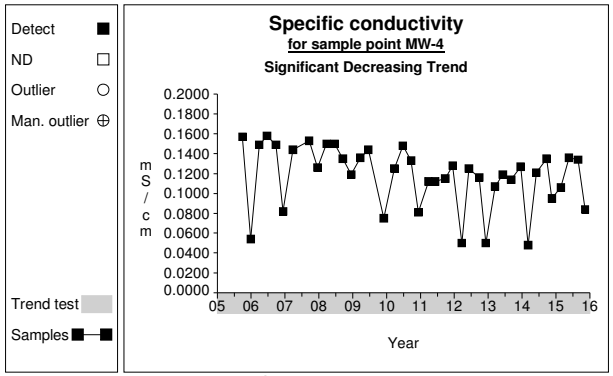


Graph 545



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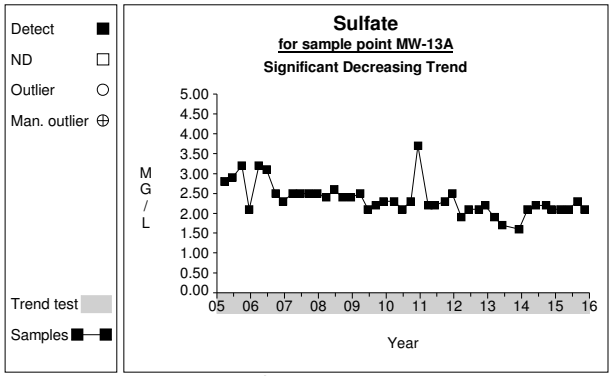
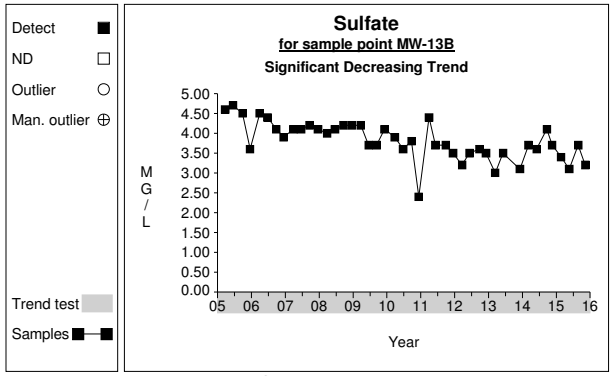


Graph 551

Time Series



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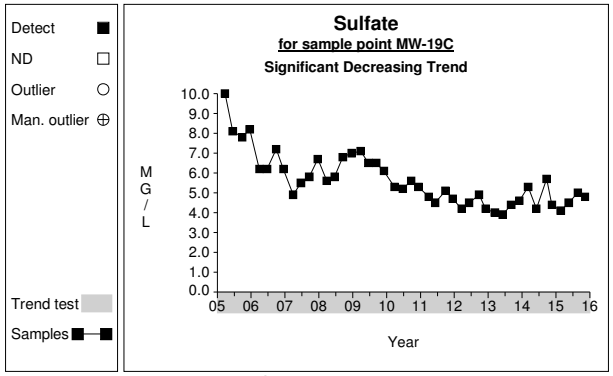
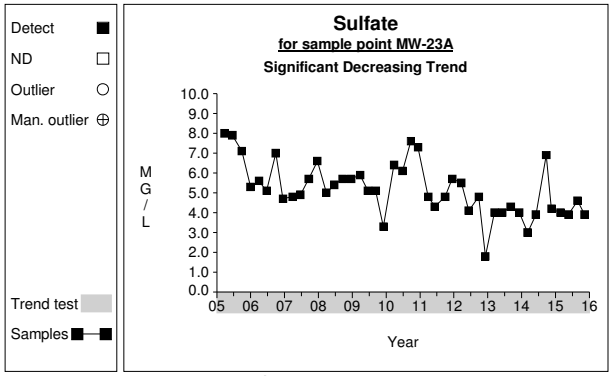
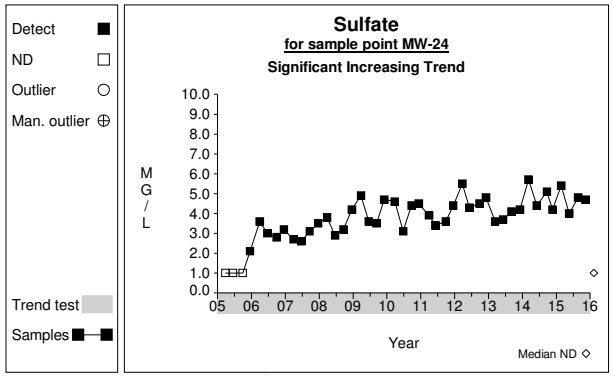


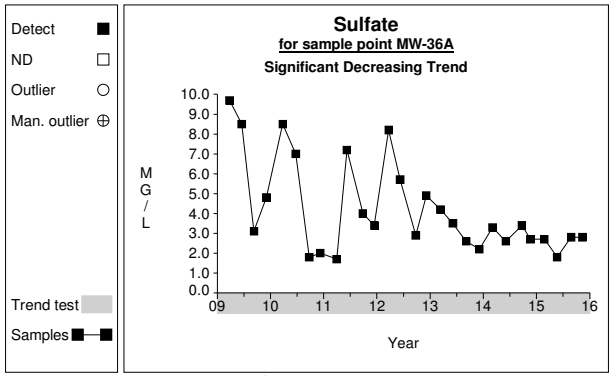
Graph 555



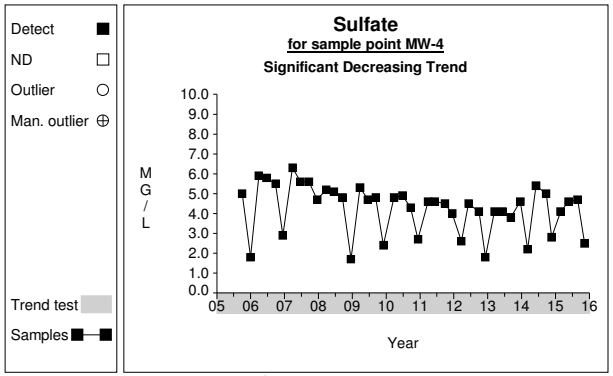
Graph 557



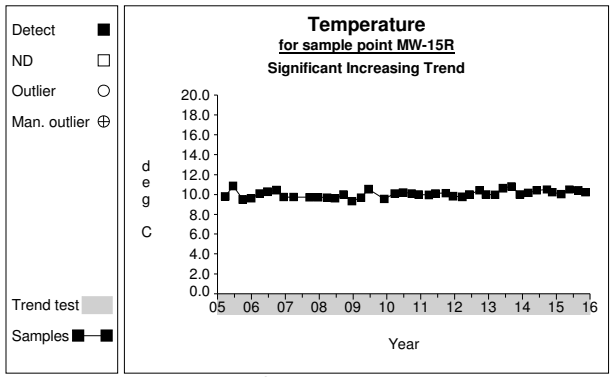
Graph 558



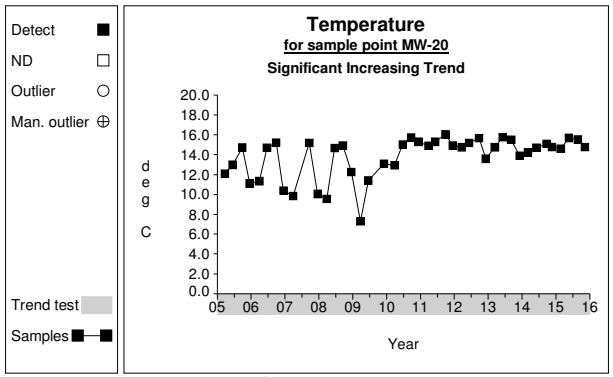
Graph 567



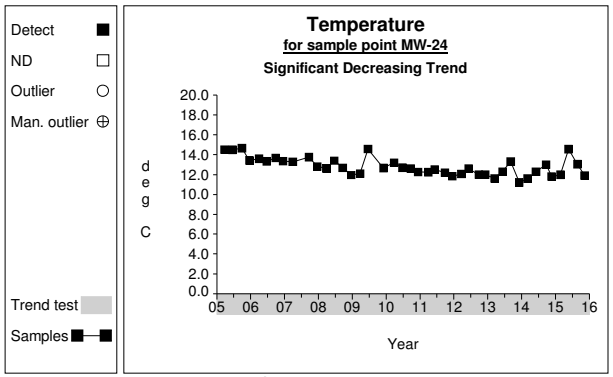
Graph 569



Graph 575

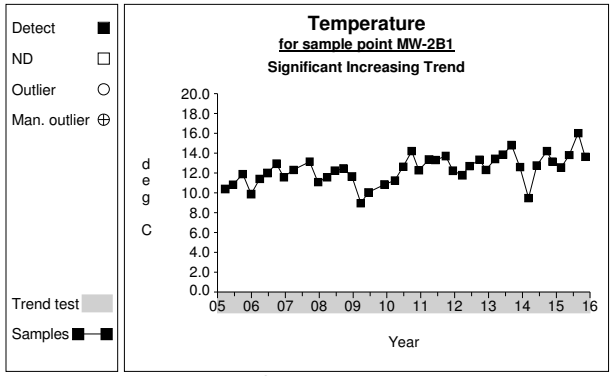


Graph 578

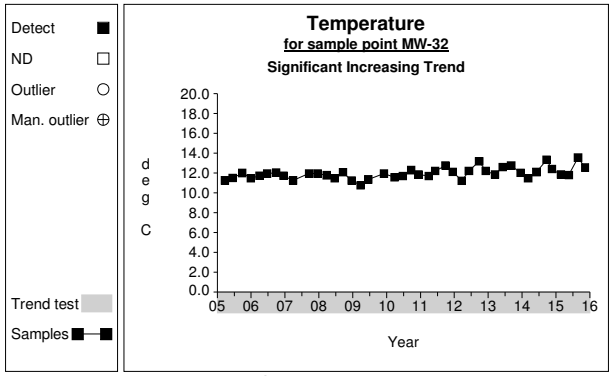


Graph 580

Time Series



Graph 582



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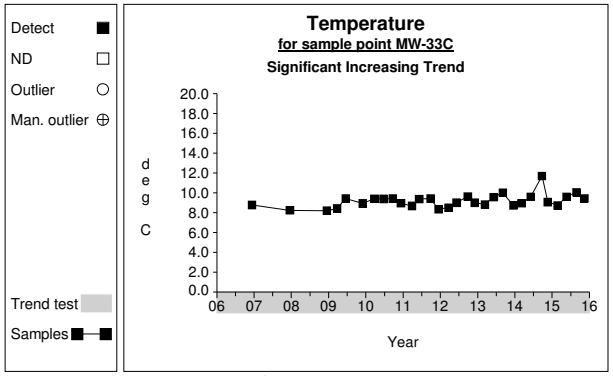
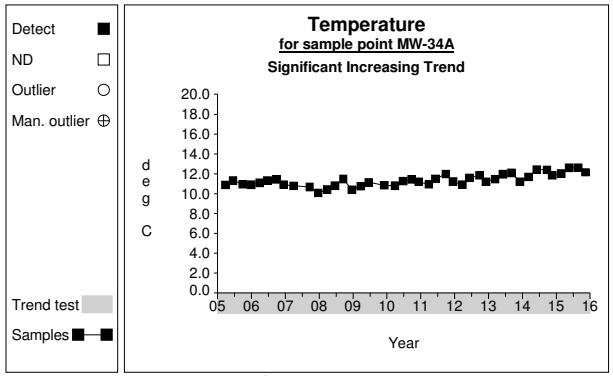


Graph 585



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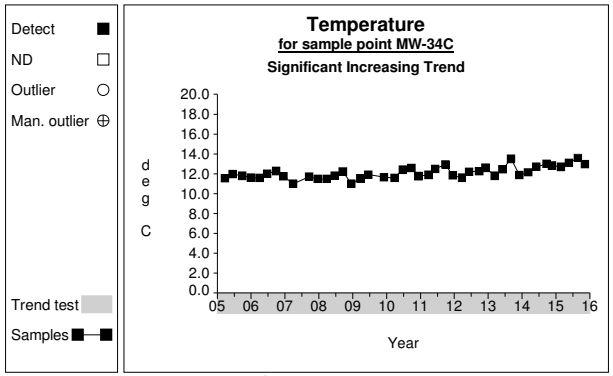

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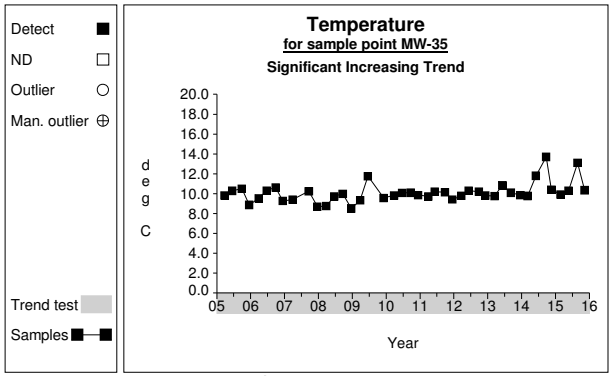

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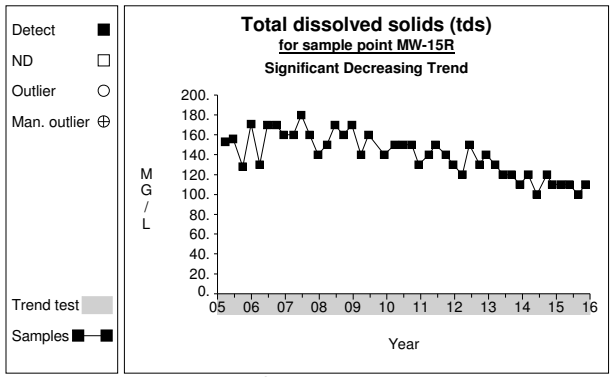
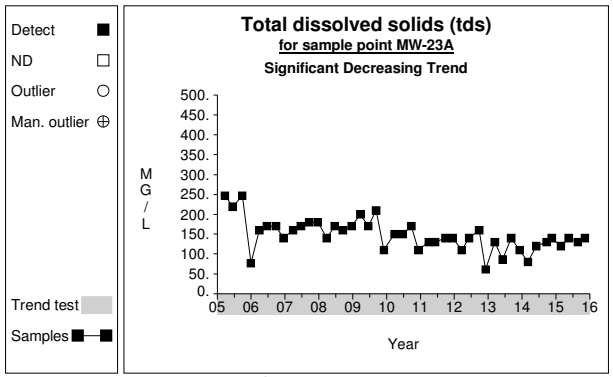
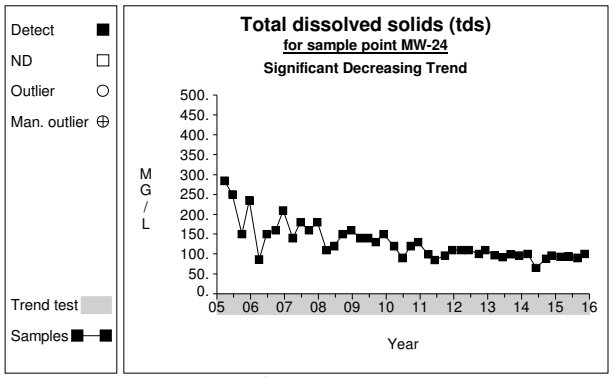


Graph 619

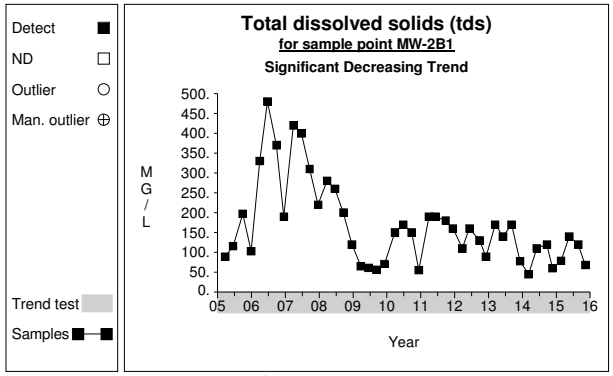


Graph 623

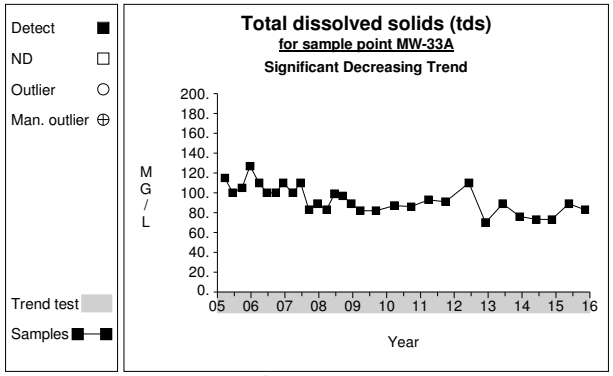


Graph 624

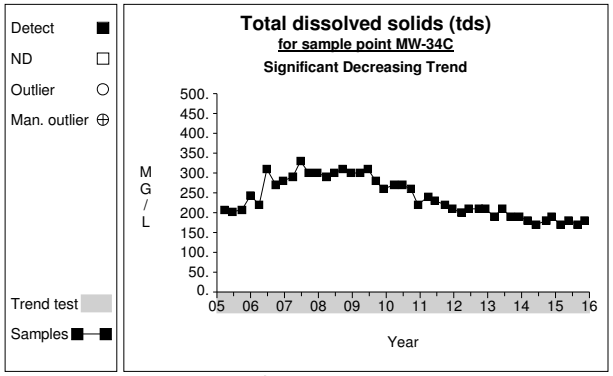
Time Series



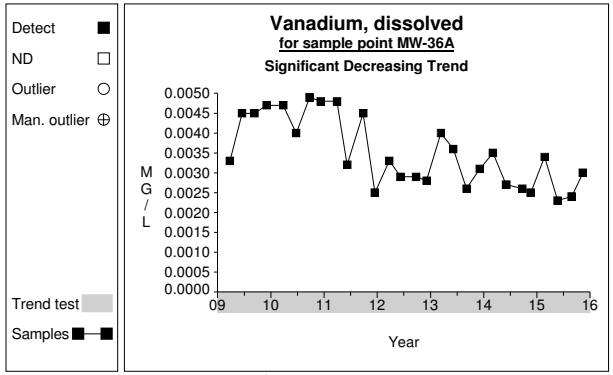
Graph 626



Graph 628



Graph 631



Graph 677

2. Prediction Limits for Detection Monitoring

- 2015 Prediction Limits and Q4 2015 Exeedance Summary Table (Table 2-1)
- Updated Prediction Limits for Use During 2016 Monitoring Year (Table 2-2)
- Upgradient Data used in 2016 Prediction Limit Calculations (Table 2-3)
- Results of Shapiro-Wilk Test for Normality for 2016 Upgradient Data (Table 2-4)
- Comparison of 2015 Prediction Limits with 2016 Prediction Limits (Table 2-5)

TABLE 2-1
SUMMARY OF CURRENT PREDICTION LIMIT EXCEEDANCES
Q4 2015
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 2014
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-39	100	11/11/2015	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-32	160	11/11/2015	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-34C	120	11/09/2015	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-42	210	11/09/2015	96
Alkalinity, total (as caco3)	MG/L	MW-39	100	11/11/2015	96
Alkalinity, total (as caco3)	MG/L	MW-32	160	11/11/2015	96
Alkalinity, total (as caco3)	MG/L	MW-34C	120	11/09/2015	96
Alkalinity, total (as caco3)	MG/L	MW-42	210	11/09/2015	96
Ammonia (as n)	MG/L	MW-39	0.41	11/11/2015	0.34
Ammonia (as n)	MG/L	MW-42	5.4	11/09/2015	0.34
Arsenic, dissolved	UG/L	MW-29A	1.6	11/09/2015	0.38
Arsenic, dissolved	UG/L	MW-32	9.6	11/11/2015	0.38
Arsenic, dissolved	UG/L	MW-33C	2.4	11/11/2015	0.38
Arsenic, dissolved	UG/L	MW-34A	0.4	11/09/2015	0.38
Arsenic, dissolved	UG/L	MW-34C	1.3	11/09/2015	0.38
Arsenic, dissolved	UG/L	MW-36A	0.5	11/11/2015	0.38
Arsenic, dissolved	UG/L	MW-39	1.7	11/11/2015	0.38
Arsenic, dissolved	UG/L	MW-42	1.6	11/09/2015	0.38
Barium, dissolved	MG/L	MW-43	0.0079	11/09/2015	0.0052
Barium, dissolved	MG/L	MW-29A	0.0077	11/09/2015	0.0052
Barium, dissolved	MG/L	MW-32	0.0071	11/11/2015	0.0052
Barium, dissolved	MG/L	MW-34C	0.0077	11/09/2015	0.0052
Barium, dissolved	MG/L	MW-39	0.025	11/11/2015	0.0052
Barium, dissolved	MG/L	MW-42	0.09	11/09/2015	0.0052
Calcium, dissolved	MG/L	MW-32	36	11/11/2015	17.1
Calcium, dissolved	MG/L	MW-34C	24	11/09/2015	17.1
Calcium, dissolved	MG/L	MW-42	35	11/09/2015	17.1

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Chloride	MG/L	MW-32	12	11/11/2015	4.40
Chloride	MG/L	MW-34C	4.8	11/09/2015	4.40
Chloride	MG/L	MW-39	5.6	11/11/2015	4.40
Chloride	MG/L	MW-42	13	11/09/2015	4.40
Cobalt, dissolved	MG/L	MW-39	0.0079	11/11/2015	0.003
Copper, dissolved	MG/L	MW-39	0.0099	11/11/2015	0.0094
Iron, dissolved	MG/L	MW-43	0.19	11/09/2015	0.097
Iron, dissolved	MG/L	MW-29A	3.6	11/09/2015	0.097
Iron, dissolved	MG/L	MW-32	0.83	11/11/2015	0.097
Iron, dissolved	MG/L	MW-33A	0.58	11/11/2015	0.097
Iron, dissolved	MG/L	MW-34C	0.44	11/09/2015	0.097
Iron, dissolved	MG/L	MW-39	39	11/11/2015	0.097
Iron, dissolved	MG/L	MW-42	21	11/09/2015	0.097
Lead, dissolved	MG/L	MW-39	0.0014	11/11/2015	0.001
Magnesium, dissolved	MG/L	MW-32	17	11/11/2015	10.93
Magnesium, dissolved	MG/L	MW-42	13	11/09/2015	10.93
Manganese, dissolved	MG/L	MW-43	0.12	11/09/2015	0.014
Manganese, dissolved	MG/L	MW-29A	1.3	11/09/2015	0.014
Manganese, dissolved	MG/L	MW-32	3	11/11/2015	0.014
Manganese, dissolved	MG/L	MW-33A	0.089	11/11/2015	0.014
Manganese, dissolved	MG/L	MW-33C	0.14	11/11/2015	0.014
Manganese, dissolved	MG/L	MW-34C	0.59	11/09/2015	0.014
Manganese, dissolved	MG/L	MW-39	0.53	11/11/2015	0.014
Manganese, dissolved	MG/L	MW-42	3.9	11/09/2015	0.014
Nickel, dissolved	MG/L	MW-39	0.0053	11/11/2015	0.004
Nitrate (as n)	MG/L	MW-43	2.2	11/09/2015	1.80
pH	pH Units	MW-43	5.58	11/09/2015	5.90 - 8.23
Potassium, dissolved	MG/L	MW-34C	1.3	11/09/2015	1.20
Potassium, dissolved	MG/L	MW-32	1.3	11/11/2015	1.20
Potassium, dissolved	MG/L	MW-33C	1.3	11/11/2015	1.20
Potassium, dissolved	MG/L	MW-42	7.7	11/09/2015	1.20
Sodium, dissolved	MG/L	MW-32	17	11/11/2015	6.20
Sodium, dissolved	MG/L	MW-34A	8.9	11/09/2015	6.20
Sodium, dissolved	MG/L	MW-34C	12	11/09/2015	6.20
Sodium, dissolved	MG/L	MW-39	8.9	11/11/2015	6.20
Sodium, dissolved	MG/L	MW-42	20	11/09/2015	6.20
Specific conductivity	mS/cm	MW-32	0.35	11/11/2015	0.18
Specific conductivity	mS/cm	MW-34C	0.246	11/09/2015	0.18
Specific conductivity	mS/cm	MW-39	0.23	11/11/2015	0.18
Specific conductivity	mS/cm	MW-42	0.479	11/09/2015	0.18
Sulfate	MG/L	MW-42	9.6	11/09/2015	9.90
Sulfate	MG/L	MW-32	16	11/11/2015	9.90
Total dissolved solids (tds)	MG/L	MW-34C	180	11/09/2015	175
Total dissolved solids (tds)	MG/L	MW-32	260	11/11/2015	175
Total dissolved solids (tds)	MG/L	MW-42	250	11/09/2015	175

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Total organic carbon (toc)	MG/L	MW-42	7.2	05/21/2015	6.0
Zinc, dissolved	MG/L	MW-39	0.013	11/11/2015	0.0096

TABLE 2-2
STATISTICAL PREDICTION LIMITS UPDATED FOR 2016 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 2015 (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	154	154			96	0.99
Alkalinity, total (as $CaCO_3$)	MG/L	nonparametric	158	158			96	0.99
Ammonia (as N)	MG/L	nonparametric	154	72			0.300	0.99
Antimony, total	MG/L	nonparametric	38	2			0.0013	0.98
Arsenic, total	MG/L	normal	45	45	0.0002	0.0001	0.0005	
Barium, total	MG/L	normal	38	38	0.0033	0.0005	0.0045	
Beryllium, total	MG/L	nonparametric	38	0			Current RL*	0.98
Cadmium, total	MG/L	nonparametric	38	0			Current RL*	0.98
Calcium, dissolved	MG/L	nonparametric	158	158			17.10	0.99
Chloride	MG/L	nonparametric	158	156			4.40	0.99
Chromium, total	MG/L	nonparametric	38	16			0.009	0.98
Cobalt, total	MG/L	nonparametric	38	0			Current RL*	0.98
Copper, total	MG/L	nonparametric	38	0			Current RL*	0.98
Iron, total	MG/L	nonparametric	38	5			0.31	0.98
Lead, total	MG/L	nonparametric	38	1			0.0014	0.98
Magnesium, dissolved	MG/L	normal	158	158	8.29	1.131	10.98	
Manganese, total	MG/L	nonparametric	38	12			0.062	0.98
Nickel, total	MG/L	nonparametric	38	1			0.0041	0.98
Nitrate (as N)	MG/L	nonparametric	154	154			1.80	0.99
pH	pH Units	normal	149	149	7.06	0.448	5.88 - 8.24	
Potassium, dissolved	MG/L	nonparametric	158	13			1.20	0.99
Selenium, total	MG/L	nonparametric	38	0			Current RL*	0.98
Silver, total	MG/L	nonparametric	38	0			Current RL*	0.98
Sodium, dissolved	MG/L	nonparametric	158	158			6.20	0.99
Specific conductivity	mS/cm	nonparametric	151	151			0.18	0.99
Sulfate	MG/L	nonparametric	158	157			9.90	0.99
Temperature	deg C	nonparametric	151	151			14.32	0.99
Thallium, total	MG/L	nonparametric	38	0			Current RL*	0.98
Total dissolved solids (tds)	MG/L	nonparametric	158	158			175	0.99
Total organic carbon (toc)	MG/L	nonparametric	146	7			6.0	0.99
Vanadium, total	MG/L	normal	38	38	0.0045	0.0007	0.0063	
Zinc, total	MG/L	nonparametric	38	0			0.005	0.98

[1] Distributional Assumption based on Multiple Group Shapiro-Wilk Test (results presented on Table 2-4 herein).

[2] N = number of background data points from the pooled upgradient well data set AFTER removal of outliers (see Table 2-3 for outliers).

[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-13A	03/11/2013		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/05/2013		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	12/03/2013		86.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	03/04/2014		87.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	06/02/2014		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	09/22/2014		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	11/17/2014		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	02/23/2015		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	05/19/2015		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	08/26/2015		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13A	11/10/2015		81.0000	
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	

* - 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-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-13B	03/11/2013		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/05/2013		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/03/2013		84.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/04/2014		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/02/2014		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/22/2014		80.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	11/17/2014		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	02/23/2015		82.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	05/19/2015		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	08/26/2015		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	11/10/2015		79.0000	
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	
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-16	03/12/2013		51.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/04/2013		50.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/05/2013		62.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	12/16/2013		62.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	03/05/2014		57.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	06/02/2014		44.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	09/22/2014		57.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	11/18/2014		57.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	02/23/2015		52.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	05/20/2015		51.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	08/26/2015		51.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-16	11/11/2015		65.0000	
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	

* - 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-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, bicarbonate (as caco3)	MG/L	MW-35	03/13/2013		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/06/2013		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/05/2013		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/16/2013		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/04/2014		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/02/2014		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/22/2014		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	11/17/2014		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	02/25/2015		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	05/19/2015		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	08/26/2015		71.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	11/10/2015		75.0000	
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	
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-13A	03/11/2013		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/05/2013		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	12/03/2013		86.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	03/04/2014		87.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	06/02/2014		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	09/22/2014		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	11/17/2014		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	02/23/2015		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	05/19/2015		82.0000	

* - 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	08/26/2015		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-13A	11/10/2015		81.0000	
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-13B	03/11/2013		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/05/2013		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	12/03/2013		84.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	03/04/2014		83.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	06/02/2014		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	09/22/2014		80.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	11/17/2014		79.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	02/23/2015		82.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	05/19/2015		81.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	08/26/2015		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-13B	11/10/2015		79.0000	
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-16	03/12/2013		51.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/04/2013		50.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/05/2013		62.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	12/16/2013		62.0000	

* - 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-16	03/05/2014		57.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	06/02/2014		44.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	09/22/2014		57.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	11/18/2014		57.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	02/23/2015		52.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	05/20/2015		51.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	08/26/2015		51.0000	
Alkalinity, total (as caco3)	MG/L	MW-16	11/11/2015		65.0000	
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	
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	
Alkalinity, total (as caco3)	MG/L	MW-35	03/13/2013		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/06/2013		73.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/05/2013		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	12/16/2013		78.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	03/04/2014		78.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	06/02/2014		76.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	09/22/2014		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	11/17/2014		74.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	02/25/2015		77.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	05/19/2015		75.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	08/26/2015		71.0000	
Alkalinity, total (as caco3)	MG/L	MW-35	11/10/2015		75.0000	
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	

* - 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-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-13A	03/11/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	06/05/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/03/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	03/04/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	06/02/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/22/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	11/17/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	02/23/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	05/19/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	08/26/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	11/10/2015	ND	0.0300	
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	
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-13B	03/11/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	06/05/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	12/03/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	03/04/2014	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	06/02/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	09/22/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	11/17/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	02/23/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	05/19/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	08/26/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-13B	11/10/2015	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-16	03/12/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	06/04/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	09/05/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	12/16/2013		0.0960	
Ammonia (as n)	MG/L	MW-16	03/05/2014		0.0510	
Ammonia (as n)	MG/L	MW-16	06/02/2014		0.0580	
Ammonia (as n)	MG/L	MW-16	09/22/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	11/18/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	02/23/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	05/20/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	08/26/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-16	11/11/2015	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	
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	

* - 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	12/04/2012	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	03/13/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	06/06/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	09/05/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	12/16/2013	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	03/04/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	06/02/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	09/22/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	11/17/2014	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	02/25/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	05/19/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	08/26/2015	ND	0.0300	
Ammonia (as n)	MG/L	MW-35	11/10/2015	ND	0.0300	
Antimony, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Antimony, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Antimony, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Antimony, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Antimony, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Antimony, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Antimony, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Antimony, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Antimony, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Antimony, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Antimony, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Antimony, total	MG/L	MW-13B	06/02/2014	ND	0.0010	
Antimony, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Antimony, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Antimony, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Antimony, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Antimony, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Antimony, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Antimony, total	MG/L	MW-16	09/05/2013	ND	0.0010	
Antimony, total	MG/L	MW-16	12/16/2013	ND	0.0010	
Antimony, total	MG/L	MW-16	03/05/2014	ND	0.0010	
Antimony, total	MG/L	MW-16	06/02/2014	ND	0.0010	
Antimony, total	MG/L	MW-16	09/22/2014	ND	0.0010	
Antimony, total	MG/L	MW-16	11/18/2014	ND	0.0010	
Antimony, total	MG/L	MW-16	02/23/2015		0.0011	
Antimony, total	MG/L	MW-16	05/20/2015	ND	0.0010	
Antimony, total	MG/L	MW-16	08/26/2015	ND	0.0010	
Antimony, total	MG/L	MW-16	11/11/2015		0.0013	
Antimony, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Antimony, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Antimony, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Antimony, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Antimony, total	MG/L	MW-35	09/22/2014	ND	0.0010	
Antimony, total	MG/L	MW-35	11/17/2014	ND	0.0010	
Antimony, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Antimony, total	MG/L	MW-35	05/19/2015	ND	0.0010	
Antimony, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Antimony, total	MG/L	MW-35	11/10/2015	ND	0.0010	
Arsenic, total	MG/L	MW-13A	03/22/2005	ND	0.0050	*
Arsenic, total	MG/L	MW-13A	06/15/2005		0.0002	
Arsenic, total	MG/L	MW-13A	09/27/2005		0.0002	
Arsenic, total	MG/L	MW-13A	12/15/2005		0.0002	
Arsenic, total	MG/L	MW-13A	12/03/2013		0.0002	
Arsenic, total	MG/L	MW-13A	03/04/2014		0.0002	
Arsenic, total	MG/L	MW-13A	06/02/2014		0.0002	
Arsenic, total	MG/L	MW-13A	09/22/2014		0.0002	
Arsenic, total	MG/L	MW-13A	11/17/2014		0.0002	
Arsenic, total	MG/L	MW-13A	02/23/2015		0.0002	
Arsenic, total	MG/L	MW-13A	05/19/2015		0.0002	
Arsenic, total	MG/L	MW-13A	08/26/2015		0.0002	
Arsenic, total	MG/L	MW-13A	11/10/2015		0.0002	
Arsenic, total	MG/L	MW-13B	03/22/2005	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	
Arsenic, total	MG/L	MW-13B	06/15/2005		0.0004	
Arsenic, total	MG/L	MW-13B	09/27/2005		0.0004	
Arsenic, total	MG/L	MW-13B	12/15/2005		0.0004	
Arsenic, total	MG/L	MW-13B	12/03/2013		0.0003	
Arsenic, total	MG/L	MW-13B	03/04/2014		0.0003	
Arsenic, total	MG/L	MW-13B	06/02/2014		0.0003	
Arsenic, total	MG/L	MW-13B	09/22/2014		0.0003	
Arsenic, total	MG/L	MW-13B	11/17/2014		0.0003	
Arsenic, total	MG/L	MW-13B	02/23/2015		0.0004	
Arsenic, total	MG/L	MW-13B	05/19/2015		0.0003	
Arsenic, total	MG/L	MW-13B	08/26/2015		0.0003	
Arsenic, total	MG/L	MW-13B	11/10/2015		0.0003	
Arsenic, total	MG/L	MW-16	12/23/2013		0.0003	
Arsenic, total	MG/L	MW-16	03/05/2014		0.0004	
Arsenic, total	MG/L	MW-16	06/02/2014		0.0003	
Arsenic, total	MG/L	MW-16	09/22/2014		0.0003	
Arsenic, total	MG/L	MW-16	11/18/2014		0.0004	
Arsenic, total	MG/L	MW-16	02/23/2015		0.0004	
Arsenic, total	MG/L	MW-16	05/20/2015		0.0003	
Arsenic, total	MG/L	MW-16	08/26/2015		0.0003	
Arsenic, total	MG/L	MW-16	11/11/2015		0.0003	
Arsenic, total	MG/L	MW-35	03/22/2005	ND	0.0050	*
Arsenic, total	MG/L	MW-35	06/14/2005		0.0001	
Arsenic, total	MG/L	MW-35	09/27/2005		0.0001	
Arsenic, total	MG/L	MW-35	12/15/2005		0.0001	
Arsenic, total	MG/L	MW-35	12/23/2013		0.0001	
Arsenic, total	MG/L	MW-35	03/04/2014		0.0001	
Arsenic, total	MG/L	MW-35	06/02/2014		0.0001	
Arsenic, total	MG/L	MW-35	09/22/2014		0.0001	
Arsenic, total	MG/L	MW-35	11/17/2014		0.0001	
Arsenic, total	MG/L	MW-35	02/25/2015		0.0001	
Arsenic, total	MG/L	MW-35	05/19/2015		0.0001	
Arsenic, total	MG/L	MW-35	08/26/2015		0.0001	
Arsenic, total	MG/L	MW-35	11/10/2015		0.0001	
Barium, total	MG/L	MW-13A	12/03/2013		0.0030	
Barium, total	MG/L	MW-13A	03/04/2014		0.0029	
Barium, total	MG/L	MW-13A	06/02/2014		0.0029	
Barium, total	MG/L	MW-13A	09/22/2014		0.0027	
Barium, total	MG/L	MW-13A	11/17/2014		0.0026	
Barium, total	MG/L	MW-13A	02/23/2015		0.0024	
Barium, total	MG/L	MW-13A	05/19/2015		0.0023	
Barium, total	MG/L	MW-13A	08/26/2015		0.0033	
Barium, total	MG/L	MW-13A	11/10/2015		0.0030	
Barium, total	MG/L	MW-13B	12/03/2013		0.0035	
Barium, total	MG/L	MW-13B	03/04/2014		0.0032	
Barium, total	MG/L	MW-13B	06/02/2014		0.0031	
Barium, total	MG/L	MW-13B	09/22/2014		0.0033	
Barium, total	MG/L	MW-13B	11/17/2014		0.0037	
Barium, total	MG/L	MW-13B	02/23/2015		0.0034	
Barium, total	MG/L	MW-13B	05/19/2015		0.0033	
Barium, total	MG/L	MW-13B	08/26/2015		0.0039	
Barium, total	MG/L	MW-13B	11/10/2015		0.0036	
Barium, total	MG/L	MW-16	09/05/2013		0.0041	
Barium, total	MG/L	MW-16	12/16/2013		0.0043	
Barium, total	MG/L	MW-16	03/05/2014		0.0036	
Barium, total	MG/L	MW-16	06/02/2014		0.0025	
Barium, total	MG/L	MW-16	09/22/2014		0.0033	
Barium, total	MG/L	MW-16	11/18/2014		0.0039	
Barium, total	MG/L	MW-16	02/23/2015		0.0036	
Barium, total	MG/L	MW-16	05/20/2015		0.0034	
Barium, total	MG/L	MW-16	08/26/2015		0.0038	
Barium, total	MG/L	MW-16	11/11/2015		0.0043	
Barium, total	MG/L	MW-35	09/05/2013		0.0034	
Barium, total	MG/L	MW-35	12/16/2013		0.0031	
Barium, total	MG/L	MW-35	03/04/2014		0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

TABLE 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, total	MG/L	MW-35	06/02/2014		0.0034	
Barium, total	MG/L	MW-35	09/22/2014		0.0034	
Barium, total	MG/L	MW-35	11/17/2014		0.0034	
Barium, total	MG/L	MW-35	02/25/2015		0.0030	
Barium, total	MG/L	MW-35	05/19/2015		0.0031	
Barium, total	MG/L	MW-35	08/26/2015		0.0029	
Barium, total	MG/L	MW-35	11/10/2015		0.0030	
Beryllium, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Beryllium, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Beryllium, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13B	06/02/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Beryllium, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Beryllium, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Beryllium, total	MG/L	MW-16	09/05/2013	ND	0.0010	
Beryllium, total	MG/L	MW-16	12/16/2013	ND	0.0010	
Beryllium, total	MG/L	MW-16	03/05/2014	ND	0.0010	
Beryllium, total	MG/L	MW-16	06/02/2014	ND	0.0010	
Beryllium, total	MG/L	MW-16	09/22/2014	ND	0.0010	
Beryllium, total	MG/L	MW-16	11/18/2014	ND	0.0010	
Beryllium, total	MG/L	MW-16	02/23/2015	ND	0.0010	
Beryllium, total	MG/L	MW-16	05/20/2015	ND	0.0010	
Beryllium, total	MG/L	MW-16	08/26/2015	ND	0.0010	
Beryllium, total	MG/L	MW-16	11/11/2015	ND	0.0010	
Beryllium, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Beryllium, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Beryllium, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Beryllium, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Beryllium, total	MG/L	MW-35	09/22/2014	ND	0.0010	
Beryllium, total	MG/L	MW-35	11/17/2014	ND	0.0010	
Beryllium, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Beryllium, total	MG/L	MW-35	05/19/2015	ND	0.0010	
Beryllium, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Beryllium, total	MG/L	MW-35	11/10/2015	ND	0.0010	
Cadmium, total	MG/L	MW-13A	12/03/2013	ND	0.0002	
Cadmium, total	MG/L	MW-13A	03/04/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13A	06/02/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13A	09/22/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13A	11/17/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13A	02/23/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13A	05/19/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13A	08/26/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13A	11/10/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13B	12/03/2013	ND	0.0002	
Cadmium, total	MG/L	MW-13B	03/04/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13B	06/02/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13B	09/22/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13B	11/17/2014	ND	0.0002	
Cadmium, total	MG/L	MW-13B	02/23/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13B	05/19/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13B	08/26/2015	ND	0.0002	
Cadmium, total	MG/L	MW-13B	11/10/2015	ND	0.0002	
Cadmium, total	MG/L	MW-16	09/05/2013	ND	0.0002	
Cadmium, total	MG/L	MW-16	12/16/2013	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, total	MG/L	MW-16	03/05/2014	ND	0.0002	
Cadmium, total	MG/L	MW-16	06/02/2014	ND	0.0002	
Cadmium, total	MG/L	MW-16	09/22/2014	ND	0.0002	
Cadmium, total	MG/L	MW-16	11/18/2014	ND	0.0002	
Cadmium, total	MG/L	MW-16	02/23/2015	ND	0.0002	
Cadmium, total	MG/L	MW-16	05/20/2015	ND	0.0002	
Cadmium, total	MG/L	MW-16	08/26/2015	ND	0.0002	
Cadmium, total	MG/L	MW-16	11/11/2015	ND	0.0002	
Cadmium, total	MG/L	MW-35	09/05/2013	ND	0.0002	
Cadmium, total	MG/L	MW-35	12/16/2013	ND	0.0002	
Cadmium, total	MG/L	MW-35	03/04/2014	ND	0.0002	
Cadmium, total	MG/L	MW-35	06/02/2014	ND	0.0002	
Cadmium, total	MG/L	MW-35	09/22/2014	ND	0.0002	
Cadmium, total	MG/L	MW-35	11/17/2014	ND	0.0002	
Cadmium, total	MG/L	MW-35	02/25/2015	ND	0.0002	
Cadmium, total	MG/L	MW-35	05/19/2015	ND	0.0002	
Cadmium, total	MG/L	MW-35	08/26/2015	ND	0.0002	
Cadmium, total	MG/L	MW-35	11/10/2015	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	
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-13A	03/11/2013		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/05/2013		16.0000	
Calcium, dissolved	MG/L	MW-13A	12/03/2013		16.0000	
Calcium, dissolved	MG/L	MW-13A	03/04/2014		16.0000	
Calcium, dissolved	MG/L	MW-13A	06/02/2014		16.0000	
Calcium, dissolved	MG/L	MW-13A	09/22/2014		15.0000	
Calcium, dissolved	MG/L	MW-13A	11/17/2014		15.0000	
Calcium, dissolved	MG/L	MW-13A	02/23/2015		15.0000	
Calcium, dissolved	MG/L	MW-13A	05/19/2015		16.0000	
Calcium, dissolved	MG/L	MW-13A	08/26/2015		15.0000	
Calcium, dissolved	MG/L	MW-13A	11/10/2015		15.0000	
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	

* - 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-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-13B	03/11/2013		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/05/2013		17.0000	
Calcium, dissolved	MG/L	MW-13B	12/03/2013		17.0000	
Calcium, dissolved	MG/L	MW-13B	03/04/2014		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/02/2014		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/22/2014		15.0000	
Calcium, dissolved	MG/L	MW-13B	11/17/2014		16.0000	
Calcium, dissolved	MG/L	MW-13B	02/23/2015		17.0000	
Calcium, dissolved	MG/L	MW-13B	05/19/2015		17.0000	
Calcium, dissolved	MG/L	MW-13B	08/26/2015		16.0000	
Calcium, dissolved	MG/L	MW-13B	11/10/2015		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-16	03/12/2013		10.0000	
Calcium, dissolved	MG/L	MW-16	06/04/2013		10.0000	
Calcium, dissolved	MG/L	MW-16	09/05/2013		11.0000	
Calcium, dissolved	MG/L	MW-16	12/16/2013		11.0000	
Calcium, dissolved	MG/L	MW-16	03/05/2014		9.8000	
Calcium, dissolved	MG/L	MW-16	06/02/2014		8.8000	
Calcium, dissolved	MG/L	MW-16	09/22/2014		9.9000	
Calcium, dissolved	MG/L	MW-16	11/18/2014		11.0000	
Calcium, dissolved	MG/L	MW-16	02/23/2015		9.5000	
Calcium, dissolved	MG/L	MW-16	05/20/2015		10.0000	

* - 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-16	08/26/2015		9.8000	
Calcium, dissolved	MG/L	MW-16	11/11/2015		12.0000	
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	
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	
Calcium, dissolved	MG/L	MW-35	03/13/2013		14.0000	
Calcium, dissolved	MG/L	MW-35	06/06/2013		13.0000	
Calcium, dissolved	MG/L	MW-35	09/05/2013		13.0000	
Calcium, dissolved	MG/L	MW-35	12/16/2013		14.0000	
Calcium, dissolved	MG/L	MW-35	03/04/2014		14.0000	
Calcium, dissolved	MG/L	MW-35	06/02/2014		14.0000	
Calcium, dissolved	MG/L	MW-35	09/22/2014		13.0000	
Calcium, dissolved	MG/L	MW-35	11/17/2014		14.0000	
Calcium, dissolved	MG/L	MW-35	02/25/2015		15.0000	
Calcium, dissolved	MG/L	MW-35	05/19/2015		13.0000	
Calcium, dissolved	MG/L	MW-35	08/26/2015		13.0000	
Calcium, dissolved	MG/L	MW-35	11/10/2015		15.0000	
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	

* - 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-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-13A	03/11/2013		3.0000	
Chloride	MG/L	MW-13A	06/05/2013		1.7000	
Chloride	MG/L	MW-13A	12/03/2013		1.7000	
Chloride	MG/L	MW-13A	03/04/2014		1.7000	
Chloride	MG/L	MW-13A	06/02/2014		2.0000	
Chloride	MG/L	MW-13A	09/22/2014		1.7000	
Chloride	MG/L	MW-13A	11/17/2014		1.9000	
Chloride	MG/L	MW-13A	02/23/2015		1.8000	
Chloride	MG/L	MW-13A	05/19/2015		1.9000	
Chloride	MG/L	MW-13A	08/26/2015		2.1000	
Chloride	MG/L	MW-13A	11/10/2015		1.9000	
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	
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-13B	03/11/2013		2.1000	
Chloride	MG/L	MW-13B	06/05/2013		2.0000	
Chloride	MG/L	MW-13B	12/03/2013		1.9000	
Chloride	MG/L	MW-13B	03/04/2014		1.9000	
Chloride	MG/L	MW-13B	06/02/2014		2.1000	
Chloride	MG/L	MW-13B	09/22/2014		1.9000	
Chloride	MG/L	MW-13B	11/17/2014		2.1000	
Chloride	MG/L	MW-13B	02/23/2015		2.0000	
Chloride	MG/L	MW-13B	05/19/2015		2.0000	

* - 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	08/26/2015		2.1000	
Chloride	MG/L	MW-13B	11/10/2015		2.0000	
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-16	03/12/2013		1.3000	
Chloride	MG/L	MW-16	06/04/2013		1.3000	
Chloride	MG/L	MW-16	09/05/2013		1.3000	
Chloride	MG/L	MW-16	12/16/2013	ND	1.0000	
Chloride	MG/L	MW-16	03/05/2014		1.0000	
Chloride	MG/L	MW-16	06/02/2014		1.4000	
Chloride	MG/L	MW-16	09/22/2014		1.1000	
Chloride	MG/L	MW-16	11/18/2014		1.5000	
Chloride	MG/L	MW-16	02/23/2015		1.2000	
Chloride	MG/L	MW-16	05/20/2015		1.4000	
Chloride	MG/L	MW-16	08/26/2015		1.1000	
Chloride	MG/L	MW-16	11/11/2015	ND	1.0000	
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	
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	
Chloride	MG/L	MW-35	03/13/2013		1.8000	
Chloride	MG/L	MW-35	06/06/2013		1.7000	
Chloride	MG/L	MW-35	09/05/2013		1.8000	

* - 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	12/16/2013		1.7000	
Chloride	MG/L	MW-35	03/04/2014		1.8000	
Chloride	MG/L	MW-35	06/02/2014		2.0000	
Chloride	MG/L	MW-35	09/22/2014		1.7000	
Chloride	MG/L	MW-35	11/17/2014		1.8000	
Chloride	MG/L	MW-35	02/25/2015		1.8000	
Chloride	MG/L	MW-35	05/19/2015		1.9000	
Chloride	MG/L	MW-35	08/26/2015		1.9000	
Chloride	MG/L	MW-35	11/10/2015		1.8000	
Chromium, total	MG/L	MW-13A	12/03/2013	ND	0.0030	
Chromium, total	MG/L	MW-13A	03/04/2014	ND	0.0030	
Chromium, total	MG/L	MW-13A	06/02/2014	ND	0.0030	
Chromium, total	MG/L	MW-13A	09/22/2014	ND	0.0030	
Chromium, total	MG/L	MW-13A	11/17/2014	ND	0.0030	
Chromium, total	MG/L	MW-13A	02/23/2015	ND	0.0030	
Chromium, total	MG/L	MW-13A	05/19/2015	ND	0.0030	
Chromium, total	MG/L	MW-13A	08/26/2015	ND	0.0030	
Chromium, total	MG/L	MW-13A	11/10/2015	ND	0.0030	
Chromium, total	MG/L	MW-13B	12/03/2013		0.0030	
Chromium, total	MG/L	MW-13B	03/04/2014		0.0032	
Chromium, total	MG/L	MW-13B	06/02/2014		0.0033	
Chromium, total	MG/L	MW-13B	09/22/2014	ND	0.0030	
Chromium, total	MG/L	MW-13B	11/17/2014		0.0032	
Chromium, total	MG/L	MW-13B	02/23/2015	ND	0.0030	
Chromium, total	MG/L	MW-13B	05/19/2015		0.0030	
Chromium, total	MG/L	MW-13B	08/26/2015	ND	0.0030	
Chromium, total	MG/L	MW-13B	11/10/2015		0.0033	
Chromium, total	MG/L	MW-16	09/05/2013		0.0063	
Chromium, total	MG/L	MW-16	12/16/2013		0.0080	
Chromium, total	MG/L	MW-16	03/05/2014		0.0085	
Chromium, total	MG/L	MW-16	06/02/2014		0.0087	
Chromium, total	MG/L	MW-16	09/22/2014		0.0073	
Chromium, total	MG/L	MW-16	11/18/2014		0.0077	
Chromium, total	MG/L	MW-16	02/23/2015		0.0090	
Chromium, total	MG/L	MW-16	05/20/2015		0.0070	
Chromium, total	MG/L	MW-16	08/26/2015		0.0064	
Chromium, total	MG/L	MW-16	11/11/2015		0.0071	
Chromium, total	MG/L	MW-35	09/05/2013	ND	0.0030	
Chromium, total	MG/L	MW-35	12/16/2013	ND	0.0030	
Chromium, total	MG/L	MW-35	03/04/2014	ND	0.0030	
Chromium, total	MG/L	MW-35	06/02/2014	ND	0.0030	
Chromium, total	MG/L	MW-35	09/22/2014	ND	0.0030	
Chromium, total	MG/L	MW-35	11/17/2014	ND	0.0030	
Chromium, total	MG/L	MW-35	02/25/2015	ND	0.0030	
Chromium, total	MG/L	MW-35	05/19/2015	ND	0.0030	
Chromium, total	MG/L	MW-35	08/26/2015	ND	0.0030	
Chromium, total	MG/L	MW-35	11/10/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13A	12/03/2013	ND	0.0030	
Cobalt, total	MG/L	MW-13A	03/04/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13A	06/02/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13A	09/22/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13A	11/17/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13A	02/23/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13A	05/19/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13A	08/26/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13A	11/10/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13B	12/03/2013	ND	0.0030	
Cobalt, total	MG/L	MW-13B	03/04/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13B	06/02/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13B	09/22/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13B	11/17/2014	ND	0.0030	
Cobalt, total	MG/L	MW-13B	02/23/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13B	05/19/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13B	08/26/2015	ND	0.0030	
Cobalt, total	MG/L	MW-13B	11/10/2015	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, total	MG/L	MW-16	09/05/2013	ND	0.0030	
Cobalt, total	MG/L	MW-16	12/16/2013	ND	0.0030	
Cobalt, total	MG/L	MW-16	03/05/2014	ND	0.0030	
Cobalt, total	MG/L	MW-16	06/02/2014	ND	0.0030	
Cobalt, total	MG/L	MW-16	09/22/2014	ND	0.0030	
Cobalt, total	MG/L	MW-16	11/18/2014	ND	0.0030	
Cobalt, total	MG/L	MW-16	02/23/2015	ND	0.0030	
Cobalt, total	MG/L	MW-16	05/20/2015	ND	0.0030	
Cobalt, total	MG/L	MW-16	08/26/2015	ND	0.0030	
Cobalt, total	MG/L	MW-16	11/11/2015	ND	0.0030	
Cobalt, total	MG/L	MW-35	09/05/2013	ND	0.0030	
Cobalt, total	MG/L	MW-35	12/16/2013	ND	0.0030	
Cobalt, total	MG/L	MW-35	03/04/2014	ND	0.0030	
Cobalt, total	MG/L	MW-35	06/02/2014	ND	0.0030	
Cobalt, total	MG/L	MW-35	09/22/2014	ND	0.0030	
Cobalt, total	MG/L	MW-35	11/17/2014	ND	0.0030	
Cobalt, total	MG/L	MW-35	02/25/2015	ND	0.0030	
Cobalt, total	MG/L	MW-35	05/19/2015	ND	0.0030	
Cobalt, total	MG/L	MW-35	08/26/2015	ND	0.0030	
Cobalt, total	MG/L	MW-35	11/10/2015	ND	0.0030	
Copper, total	MG/L	MW-13A	12/03/2013	ND	0.0020	
Copper, total	MG/L	MW-13A	03/04/2014	ND	0.0020	
Copper, total	MG/L	MW-13A	06/02/2014	ND	0.0020	
Copper, total	MG/L	MW-13A	09/22/2014	ND	0.0020	
Copper, total	MG/L	MW-13A	11/17/2014	ND	0.0020	
Copper, total	MG/L	MW-13A	02/23/2015	ND	0.0020	
Copper, total	MG/L	MW-13A	05/19/2015	ND	0.0020	
Copper, total	MG/L	MW-13A	08/26/2015	ND	0.0020	
Copper, total	MG/L	MW-13A	11/10/2015	ND	0.0020	
Copper, total	MG/L	MW-13B	12/03/2013	ND	0.0020	
Copper, total	MG/L	MW-13B	03/04/2014	ND	0.0020	
Copper, total	MG/L	MW-13B	06/02/2014	ND	0.0020	
Copper, total	MG/L	MW-13B	09/22/2014	ND	0.0020	
Copper, total	MG/L	MW-13B	11/17/2014	ND	0.0020	
Copper, total	MG/L	MW-13B	02/23/2015	ND	0.0020	
Copper, total	MG/L	MW-13B	05/19/2015	ND	0.0020	
Copper, total	MG/L	MW-13B	08/26/2015	ND	0.0020	
Copper, total	MG/L	MW-13B	11/10/2015	ND	0.0020	
Copper, total	MG/L	MW-16	09/05/2013	ND	0.0020	
Copper, total	MG/L	MW-16	12/16/2013	ND	0.0020	
Copper, total	MG/L	MW-16	03/05/2014	ND	0.0020	
Copper, total	MG/L	MW-16	06/02/2014	ND	0.0020	
Copper, total	MG/L	MW-16	09/22/2014	ND	0.0020	
Copper, total	MG/L	MW-16	11/18/2014	ND	0.0020	
Copper, total	MG/L	MW-16	02/23/2015	ND	0.0020	
Copper, total	MG/L	MW-16	05/20/2015	ND	0.0020	
Copper, total	MG/L	MW-16	08/26/2015	ND	0.0020	
Copper, total	MG/L	MW-16	11/11/2015	ND	0.0020	
Copper, total	MG/L	MW-35	09/05/2013	ND	0.0020	
Copper, total	MG/L	MW-35	12/16/2013	ND	0.0020	
Copper, total	MG/L	MW-35	03/04/2014	ND	0.0020	
Copper, total	MG/L	MW-35	06/02/2014	ND	0.0020	
Copper, total	MG/L	MW-35	09/22/2014	ND	0.0020	
Copper, total	MG/L	MW-35	11/17/2014	ND	0.0020	
Copper, total	MG/L	MW-35	02/25/2015	ND	0.0020	
Copper, total	MG/L	MW-35	05/19/2015	ND	0.0020	
Copper, total	MG/L	MW-35	08/26/2015	ND	0.0020	
Copper, total	MG/L	MW-35	11/10/2015	ND	0.0020	
Iron, total	MG/L	MW-13A	12/03/2013	ND	0.0600	
Iron, total	MG/L	MW-13A	03/04/2014	ND	0.0600	
Iron, total	MG/L	MW-13A	06/02/2014	ND	0.0600	
Iron, total	MG/L	MW-13A	09/22/2014	ND	0.0600	
Iron, total	MG/L	MW-13A	11/17/2014	ND	0.0600	
Iron, total	MG/L	MW-13A	02/23/2015	ND	0.0600	
Iron, total	MG/L	MW-13A	05/19/2015	ND	0.0600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

TABLE 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Iron, total	MG/L	MW-13A	08/26/2015	ND	0.0600	
Iron, total	MG/L	MW-13A	11/10/2015	ND	0.0600	
Iron, total	MG/L	MW-13B	12/03/2013	ND	0.0600	
Iron, total	MG/L	MW-13B	03/04/2014	ND	0.0600	
Iron, total	MG/L	MW-13B	06/02/2014	ND	0.0600	
Iron, total	MG/L	MW-13B	09/22/2014	ND	0.0600	
Iron, total	MG/L	MW-13B	11/17/2014	ND	0.0600	
Iron, total	MG/L	MW-13B	02/23/2015	ND	0.0600	
Iron, total	MG/L	MW-13B	05/19/2015	ND	0.0600	
Iron, total	MG/L	MW-13B	08/26/2015	ND	0.0600	
Iron, total	MG/L	MW-13B	11/10/2015	ND	0.0600	
Iron, total	MG/L	MW-16	09/05/2013		0.1200	
Iron, total	MG/L	MW-16	12/16/2013		0.0680	
Iron, total	MG/L	MW-16	03/05/2014		0.2000	
Iron, total	MG/L	MW-16	06/02/2014	ND	0.0600	
Iron, total	MG/L	MW-16	09/22/2014	ND	0.0600	
Iron, total	MG/L	MW-16	11/18/2014		0.1800	
Iron, total	MG/L	MW-16	02/23/2015		0.3100	
Iron, total	MG/L	MW-16	05/20/2015	ND	0.0600	
Iron, total	MG/L	MW-16	08/26/2015	ND	0.0600	
Iron, total	MG/L	MW-16	11/11/2015	ND	0.0600	
Iron, total	MG/L	MW-35	09/05/2013	ND	0.0600	
Iron, total	MG/L	MW-35	12/16/2013	ND	0.0600	
Iron, total	MG/L	MW-35	03/04/2014	ND	0.0600	
Iron, total	MG/L	MW-35	06/02/2014	ND	0.0600	
Iron, total	MG/L	MW-35	09/22/2014	ND	0.0600	
Iron, total	MG/L	MW-35	11/17/2014	ND	0.0600	
Iron, total	MG/L	MW-35	02/25/2015	ND	0.0600	
Iron, total	MG/L	MW-35	05/19/2015	ND	0.0600	
Iron, total	MG/L	MW-35	08/26/2015	ND	0.0600	
Iron, total	MG/L	MW-35	11/10/2015	ND	0.0600	
Lead, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Lead, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Lead, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Lead, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Lead, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Lead, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Lead, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Lead, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Lead, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Lead, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Lead, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Lead, total	MG/L	MW-13B	06/02/2014	ND	0.0010	
Lead, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Lead, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Lead, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Lead, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Lead, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Lead, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Lead, total	MG/L	MW-16	09/05/2013	ND	0.0010	
Lead, total	MG/L	MW-16	12/16/2013	ND	0.0010	
Lead, total	MG/L	MW-16	03/05/2014	ND	0.0010	
Lead, total	MG/L	MW-16	06/02/2014	ND	0.0010	
Lead, total	MG/L	MW-16	09/22/2014		0.0014	
Lead, total	MG/L	MW-16	11/18/2014	ND	0.0010	
Lead, total	MG/L	MW-16	02/23/2015	ND	0.0010	
Lead, total	MG/L	MW-16	05/20/2015	ND	0.0010	
Lead, total	MG/L	MW-16	08/26/2015	ND	0.0010	
Lead, total	MG/L	MW-16	11/11/2015	ND	0.0010	
Lead, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Lead, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Lead, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Lead, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Lead, total	MG/L	MW-35	09/22/2014	ND	0.0010	
Lead, total	MG/L	MW-35	11/17/2014	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, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Lead, total	MG/L	MW-35	05/19/2015	ND	0.0010	
Lead, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Lead, total	MG/L	MW-35	11/10/2015	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	
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-13A	03/11/2013		9.4000	
Magnesium, dissolved	MG/L	MW-13A	06/05/2013		9.8000	
Magnesium, dissolved	MG/L	MW-13A	12/03/2013		9.4000	
Magnesium, dissolved	MG/L	MW-13A	03/04/2014		9.8000	
Magnesium, dissolved	MG/L	MW-13A	06/02/2014		9.2000	
Magnesium, dissolved	MG/L	MW-13A	09/22/2014		8.7000	
Magnesium, dissolved	MG/L	MW-13A	11/17/2014		9.3000	
Magnesium, dissolved	MG/L	MW-13A	02/23/2015		9.2000	
Magnesium, dissolved	MG/L	MW-13A	05/19/2015		9.5000	
Magnesium, dissolved	MG/L	MW-13A	08/26/2015		9.3000	
Magnesium, dissolved	MG/L	MW-13A	11/10/2015		9.1000	
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	

* - 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-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-13B	03/11/2013		8.6000	
Magnesium, dissolved	MG/L	MW-13B	06/05/2013		8.9000	
Magnesium, dissolved	MG/L	MW-13B	12/03/2013		8.9000	
Magnesium, dissolved	MG/L	MW-13B	03/04/2014		8.7000	
Magnesium, dissolved	MG/L	MW-13B	06/02/2014		8.3000	
Magnesium, dissolved	MG/L	MW-13B	09/22/2014		7.7000	
Magnesium, dissolved	MG/L	MW-13B	11/17/2014		8.7000	
Magnesium, dissolved	MG/L	MW-13B	02/23/2015		8.6000	
Magnesium, dissolved	MG/L	MW-13B	05/19/2015		8.9000	
Magnesium, dissolved	MG/L	MW-13B	08/26/2015		8.8000	
Magnesium, dissolved	MG/L	MW-13B	11/10/2015		8.6000	
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-16	03/12/2013		5.6000	
Magnesium, dissolved	MG/L	MW-16	06/04/2013		5.8000	
Magnesium, dissolved	MG/L	MW-16	09/05/2013		6.0000	
Magnesium, dissolved	MG/L	MW-16	12/16/2013		5.9000	
Magnesium, dissolved	MG/L	MW-16	03/05/2014		6.6000	
Magnesium, dissolved	MG/L	MW-16	06/02/2014		5.0000	
Magnesium, dissolved	MG/L	MW-16	09/22/2014		5.5000	
Magnesium, dissolved	MG/L	MW-16	11/18/2014		6.4000	
Magnesium, dissolved	MG/L	MW-16	02/23/2015		5.7000	
Magnesium, dissolved	MG/L	MW-16	05/20/2015		5.7000	
Magnesium, dissolved	MG/L	MW-16	08/26/2015		5.9000	
Magnesium, dissolved	MG/L	MW-16	11/11/2015		6.7000	
Magnesium, dissolved	MG/L	MW-35	03/22/2005		8.6000	
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	

* - 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	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	
Magnesium, dissolved	MG/L	MW-35	03/13/2013		9.2000	
Magnesium, dissolved	MG/L	MW-35	06/06/2013		8.5000	
Magnesium, dissolved	MG/L	MW-35	09/05/2013		8.1000	
Magnesium, dissolved	MG/L	MW-35	12/16/2013		8.4000	
Magnesium, dissolved	MG/L	MW-35	03/04/2014		9.2000	
Magnesium, dissolved	MG/L	MW-35	06/02/2014		8.6000	
Magnesium, dissolved	MG/L	MW-35	09/22/2014		8.2000	
Magnesium, dissolved	MG/L	MW-35	11/17/2014		8.7000	
Magnesium, dissolved	MG/L	MW-35	02/25/2015		9.3000	
Magnesium, dissolved	MG/L	MW-35	05/19/2015		8.5000	
Magnesium, dissolved	MG/L	MW-35	08/26/2015		9.0000	
Magnesium, dissolved	MG/L	MW-35	11/10/2015		9.3000	
Manganese, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Manganese, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Manganese, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Manganese, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Manganese, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Manganese, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Manganese, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Manganese, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Manganese, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Manganese, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Manganese, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Manganese, total	MG/L	MW-13B	06/02/2014		0.0020	
Manganese, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Manganese, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Manganese, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Manganese, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Manganese, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Manganese, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Manganese, total	MG/L	MW-16	09/05/2013		0.0160	
Manganese, total	MG/L	MW-16	12/16/2013		0.0130	
Manganese, total	MG/L	MW-16	03/05/2014		0.0200	
Manganese, total	MG/L	MW-16	06/02/2014		0.0049	
Manganese, total	MG/L	MW-16	09/22/2014		0.0140	
Manganese, total	MG/L	MW-16	11/18/2014		0.0320	
Manganese, total	MG/L	MW-16	02/23/2015		0.0620	
Manganese, total	MG/L	MW-16	05/20/2015		0.0035	
Manganese, total	MG/L	MW-16	08/26/2015		0.0012	
Manganese, total	MG/L	MW-16	11/11/2015		0.0014	
Manganese, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Manganese, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Manganese, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Manganese, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Manganese, total	MG/L	MW-35	09/22/2014	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, total	MG/L	MW-35	11/17/2014	ND	0.0010	
Manganese, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Manganese, total	MG/L	MW-35	05/19/2015		0.0014	
Manganese, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Manganese, total	MG/L	MW-35	11/10/2015	ND	0.0010	
Nickel, total	MG/L	MW-13A	12/03/2013	ND	0.0040	
Nickel, total	MG/L	MW-13A	03/04/2014	ND	0.0040	
Nickel, total	MG/L	MW-13A	06/02/2014	ND	0.0040	
Nickel, total	MG/L	MW-13A	09/22/2014	ND	0.0040	
Nickel, total	MG/L	MW-13A	11/17/2014	ND	0.0040	
Nickel, total	MG/L	MW-13A	02/23/2015	ND	0.0040	
Nickel, total	MG/L	MW-13A	05/19/2015	ND	0.0040	
Nickel, total	MG/L	MW-13A	08/26/2015	ND	0.0040	
Nickel, total	MG/L	MW-13A	11/10/2015	ND	0.0040	
Nickel, total	MG/L	MW-13B	12/03/2013	ND	0.0040	
Nickel, total	MG/L	MW-13B	03/04/2014	ND	0.0040	
Nickel, total	MG/L	MW-13B	06/02/2014	ND	0.0040	
Nickel, total	MG/L	MW-13B	09/22/2014	ND	0.0040	
Nickel, total	MG/L	MW-13B	11/17/2014	ND	0.0040	
Nickel, total	MG/L	MW-13B	02/23/2015	ND	0.0040	
Nickel, total	MG/L	MW-13B	05/19/2015	ND	0.0040	
Nickel, total	MG/L	MW-13B	08/26/2015	ND	0.0040	
Nickel, total	MG/L	MW-13B	11/10/2015	ND	0.0040	
Nickel, total	MG/L	MW-16	09/05/2013	ND	0.0040	
Nickel, total	MG/L	MW-16	12/16/2013	ND	0.0040	
Nickel, total	MG/L	MW-16	03/05/2014	ND	0.0040	
Nickel, total	MG/L	MW-16	06/02/2014	ND	0.0040	
Nickel, total	MG/L	MW-16	09/22/2014	ND	0.0040	
Nickel, total	MG/L	MW-16	11/18/2014	ND	0.0040	
Nickel, total	MG/L	MW-16	02/23/2015		0.0041	
Nickel, total	MG/L	MW-16	05/20/2015	ND	0.0040	
Nickel, total	MG/L	MW-16	08/26/2015	ND	0.0040	
Nickel, total	MG/L	MW-16	11/11/2015	ND	0.0040	
Nickel, total	MG/L	MW-35	09/05/2013	ND	0.0040	
Nickel, total	MG/L	MW-35	12/16/2013	ND	0.0040	
Nickel, total	MG/L	MW-35	03/04/2014	ND	0.0040	
Nickel, total	MG/L	MW-35	06/02/2014	ND	0.0040	
Nickel, total	MG/L	MW-35	09/22/2014	ND	0.0040	
Nickel, total	MG/L	MW-35	11/17/2014	ND	0.0040	
Nickel, total	MG/L	MW-35	02/25/2015	ND	0.0040	
Nickel, total	MG/L	MW-35	05/19/2015	ND	0.0040	
Nickel, total	MG/L	MW-35	08/26/2015	ND	0.0040	
Nickel, total	MG/L	MW-35	11/10/2015	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	
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	

* - 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	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-13A	03/11/2013		0.4600	
Nitrate (as n)	MG/L	MW-13A	06/05/2013		0.4900	
Nitrate (as n)	MG/L	MW-13A	12/03/2013		0.4700	
Nitrate (as n)	MG/L	MW-13A	03/04/2014		0.4800	
Nitrate (as n)	MG/L	MW-13A	06/02/2014		0.4800	
Nitrate (as n)	MG/L	MW-13A	09/22/2014		0.4400	
Nitrate (as n)	MG/L	MW-13A	11/17/2014		0.4600	
Nitrate (as n)	MG/L	MW-13A	02/23/2015		0.4700	
Nitrate (as n)	MG/L	MW-13A	05/19/2015		0.4500	
Nitrate (as n)	MG/L	MW-13A	08/26/2015		0.4100	
Nitrate (as n)	MG/L	MW-13A	11/10/2015		0.4400	
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-13B	03/11/2013		0.4300	
Nitrate (as n)	MG/L	MW-13B	06/05/2013		0.4900	
Nitrate (as n)	MG/L	MW-13B	12/03/2013		0.5100	
Nitrate (as n)	MG/L	MW-13B	03/04/2014		0.4500	
Nitrate (as n)	MG/L	MW-13B	06/02/2014		0.5300	
Nitrate (as n)	MG/L	MW-13B	09/22/2014		0.4500	
Nitrate (as n)	MG/L	MW-13B	11/17/2014		0.4700	
Nitrate (as n)	MG/L	MW-13B	02/23/2015		0.4500	
Nitrate (as n)	MG/L	MW-13B	05/19/2015		0.4500	
Nitrate (as n)	MG/L	MW-13B	08/26/2015		0.4400	
Nitrate (as n)	MG/L	MW-13B	11/10/2015		0.4500	
Nitrate (as n)	MG/L	MW-16	03/24/2009		0.2800	

* - 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	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	
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-16	03/12/2013		1.6000	
Nitrate (as n)	MG/L	MW-16	06/04/2013		1.5000	
Nitrate (as n)	MG/L	MW-16	09/05/2013		0.7200	
Nitrate (as n)	MG/L	MW-16	12/16/2013		0.7500	
Nitrate (as n)	MG/L	MW-16	03/05/2014		0.5500	
Nitrate (as n)	MG/L	MW-16	06/02/2014		1.2000	
Nitrate (as n)	MG/L	MW-16	09/22/2014		0.3600	
Nitrate (as n)	MG/L	MW-16	11/18/2014		0.2800	
Nitrate (as n)	MG/L	MW-16	02/23/2015		0.2600	
Nitrate (as n)	MG/L	MW-16	05/20/2015		0.5500	
Nitrate (as n)	MG/L	MW-16	08/26/2015		0.3800	
Nitrate (as n)	MG/L	MW-16	11/11/2015		0.1900	
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	
Nitrate (as n)	MG/L	MW-35	03/13/2013		0.4700	
Nitrate (as n)	MG/L	MW-35	06/06/2013		0.4500	
Nitrate (as n)	MG/L	MW-35	09/05/2013		0.4200	
Nitrate (as n)	MG/L	MW-35	12/16/2013		0.4000	
Nitrate (as n)	MG/L	MW-35	03/04/2014		0.4200	
Nitrate (as n)	MG/L	MW-35	06/02/2014		0.4200	

* - 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-35	09/22/2014		0.4200	
Nitrate (as n)	MG/L	MW-35	11/17/2014		0.4200	
Nitrate (as n)	MG/L	MW-35	02/25/2015		0.4100	
Nitrate (as n)	MG/L	MW-35	05/19/2015		0.4000	
Nitrate (as n)	MG/L	MW-35	08/26/2015		0.4000	
Nitrate (as n)	MG/L	MW-35	11/10/2015		0.4100	
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	
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-13A	03/11/2013		7.1800	
pH	pH Units	MW-13A	06/05/2013		7.3300	
pH	pH Units	MW-13A	12/03/2013		7.1600	
pH	pH Units	MW-13A	03/04/2014		7.4800	
pH	pH Units	MW-13A	06/02/2014		7.2600	
pH	pH Units	MW-13A	09/22/2014		7.2600	
pH	pH Units	MW-13A	11/17/2014		6.9900	
pH	pH Units	MW-13A	05/19/2015		7.0300	
pH	pH Units	MW-13A	08/26/2015		7.0700	
pH	pH Units	MW-13A	11/10/2015		6.6800	
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	

* - 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-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-13B	03/11/2013		7.4200	
pH	pH Units	MW-13B	06/05/2013		7.2700	
pH	pH Units	MW-13B	12/03/2013		7.3400	
pH	pH Units	MW-13B	03/04/2014		7.4000	
pH	pH Units	MW-13B	06/02/2014		7.3500	
pH	pH Units	MW-13B	09/22/2014		7.6800	
pH	pH Units	MW-13B	11/17/2014		7.0800	
pH	pH Units	MW-13B	05/19/2015		7.6500	
pH	pH Units	MW-13B	08/26/2015		7.5900	
pH	pH Units	MW-13B	11/10/2015		7.2800	
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-16	03/12/2013		6.3500	
pH	pH Units	MW-16	06/04/2013		6.4500	
pH	pH Units	MW-16	09/05/2013		6.6200	
pH	pH Units	MW-16	12/16/2013		6.3200	
pH	pH Units	MW-16	03/05/2014		6.5000	
pH	pH Units	MW-16	06/02/2014		6.6100	
pH	pH Units	MW-16	09/22/2014		6.4000	
pH	pH Units	MW-16	11/18/2014		6.3800	
pH	pH Units	MW-16	02/23/2015		6.4800	
pH	pH Units	MW-16	05/20/2015		6.5100	
pH	pH Units	MW-16	08/26/2015		6.3500	
pH	pH Units	MW-16	11/11/2015		6.1300	
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	
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	

* - 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	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	
pH	pH Units	MW-35	03/13/2013		7.0600	
pH	pH Units	MW-35	06/06/2013		7.3700	
pH	pH Units	MW-35	09/05/2013		7.1000	
pH	pH Units	MW-35	12/16/2013		7.1500	
pH	pH Units	MW-35	03/04/2014		7.5300	
pH	pH Units	MW-35	06/02/2014		7.1700	
pH	pH Units	MW-35	09/22/2014		6.6200	
pH	pH Units	MW-35	11/17/2014		7.4800	
pH	pH Units	MW-35	02/25/2015		7.7700	
pH	pH Units	MW-35	05/19/2015		6.7200	
pH	pH Units	MW-35	08/26/2015		7.2500	
pH	pH Units	MW-35	11/10/2015		6.9200	
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-13A	03/11/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/05/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	12/03/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	03/04/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	06/02/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	09/22/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	11/17/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	02/23/2015	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-13A	05/19/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	08/26/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-13A	11/10/2015	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	
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-13B	03/11/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/05/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	12/03/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	03/04/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	06/02/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	09/22/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	11/17/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	02/23/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	05/19/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	08/26/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-13B	11/10/2015	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-16	03/12/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/04/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	09/05/2013	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-16	12/16/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	03/05/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	06/02/2014		1.2000	
Potassium, dissolved	MG/L	MW-16	09/22/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	11/18/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	02/23/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	05/20/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	08/26/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-16	11/11/2015	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	
Potassium, dissolved	MG/L	MW-35	03/13/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/06/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/05/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	12/16/2013	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	03/04/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	06/02/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	09/22/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	11/17/2014	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	02/25/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	05/19/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	08/26/2015	ND	1.0000	
Potassium, dissolved	MG/L	MW-35	11/10/2015	ND	1.0000	
Selenium, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Selenium, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Selenium, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Selenium, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Selenium, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Selenium, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Selenium, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Selenium, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Selenium, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Selenium, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Selenium, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Selenium, total	MG/L	MW-13B	06/02/2014	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, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Selenium, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Selenium, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Selenium, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Selenium, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Selenium, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Selenium, total	MG/L	MW-16	09/05/2013	ND	0.0010	
Selenium, total	MG/L	MW-16	12/16/2013	ND	0.0010	
Selenium, total	MG/L	MW-16	03/05/2014	ND	0.0010	
Selenium, total	MG/L	MW-16	06/02/2014	ND	0.0010	
Selenium, total	MG/L	MW-16	09/22/2014	ND	0.0010	
Selenium, total	MG/L	MW-16	11/18/2014	ND	0.0010	
Selenium, total	MG/L	MW-16	02/23/2015	ND	0.0010	
Selenium, total	MG/L	MW-16	05/20/2015	ND	0.0010	
Selenium, total	MG/L	MW-16	08/26/2015	ND	0.0010	
Selenium, total	MG/L	MW-16	11/11/2015	ND	0.0010	
Selenium, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Selenium, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Selenium, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Selenium, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Selenium, total	MG/L	MW-35	09/22/2014	ND	0.0010	
Selenium, total	MG/L	MW-35	11/17/2014	ND	0.0010	
Selenium, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Selenium, total	MG/L	MW-35	05/19/2015	ND	0.0010	
Selenium, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Selenium, total	MG/L	MW-35	11/10/2015	ND	0.0010	
Silver, total	MG/L	MW-13A	12/03/2013	ND	0.0020	
Silver, total	MG/L	MW-13A	03/04/2014	ND	0.0020	
Silver, total	MG/L	MW-13A	06/02/2014	ND	0.0020	
Silver, total	MG/L	MW-13A	09/22/2014	ND	0.0020	
Silver, total	MG/L	MW-13A	11/17/2014	ND	0.0020	
Silver, total	MG/L	MW-13A	02/23/2015	ND	0.0020	
Silver, total	MG/L	MW-13A	05/19/2015	ND	0.0020	
Silver, total	MG/L	MW-13A	08/26/2015	ND	0.0020	
Silver, total	MG/L	MW-13A	11/10/2015	ND	0.0020	
Silver, total	MG/L	MW-13B	12/03/2013	ND	0.0020	
Silver, total	MG/L	MW-13B	03/04/2014	ND	0.0020	
Silver, total	MG/L	MW-13B	06/02/2014	ND	0.0020	
Silver, total	MG/L	MW-13B	09/22/2014	ND	0.0020	
Silver, total	MG/L	MW-13B	11/17/2014	ND	0.0020	
Silver, total	MG/L	MW-13B	02/23/2015	ND	0.0020	
Silver, total	MG/L	MW-13B	05/19/2015	ND	0.0020	
Silver, total	MG/L	MW-13B	08/26/2015	ND	0.0020	
Silver, total	MG/L	MW-13B	11/10/2015	ND	0.0020	
Silver, total	MG/L	MW-16	09/05/2013	ND	0.0020	
Silver, total	MG/L	MW-16	12/16/2013	ND	0.0020	
Silver, total	MG/L	MW-16	03/05/2014	ND	0.0020	
Silver, total	MG/L	MW-16	06/02/2014	ND	0.0020	
Silver, total	MG/L	MW-16	09/22/2014	ND	0.0020	
Silver, total	MG/L	MW-16	11/18/2014	ND	0.0020	
Silver, total	MG/L	MW-16	02/23/2015	ND	0.0020	
Silver, total	MG/L	MW-16	05/20/2015	ND	0.0020	
Silver, total	MG/L	MW-16	08/26/2015	ND	0.0020	
Silver, total	MG/L	MW-16	11/11/2015	ND	0.0020	
Silver, total	MG/L	MW-35	09/05/2013	ND	0.0020	
Silver, total	MG/L	MW-35	12/16/2013	ND	0.0020	
Silver, total	MG/L	MW-35	03/04/2014	ND	0.0020	
Silver, total	MG/L	MW-35	06/02/2014	ND	0.0020	
Silver, total	MG/L	MW-35	09/22/2014	ND	0.0020	
Silver, total	MG/L	MW-35	11/17/2014	ND	0.0020	
Silver, total	MG/L	MW-35	02/25/2015	ND	0.0020	
Silver, total	MG/L	MW-35	05/19/2015	ND	0.0020	
Silver, total	MG/L	MW-35	08/26/2015	ND	0.0020	
Silver, total	MG/L	MW-35	11/10/2015	ND	0.0020	
Sodium, dissolved	MG/L	MW-13A	03/22/2005		5.4000	

* - 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-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-13A	03/11/2013		5.7000	
Sodium, dissolved	MG/L	MW-13A	06/05/2013		5.6000	
Sodium, dissolved	MG/L	MW-13A	12/03/2013		5.5000	
Sodium, dissolved	MG/L	MW-13A	03/04/2014		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/02/2014		5.2000	
Sodium, dissolved	MG/L	MW-13A	09/22/2014		5.2000	
Sodium, dissolved	MG/L	MW-13A	11/17/2014		5.4000	
Sodium, dissolved	MG/L	MW-13A	02/23/2015		5.2000	
Sodium, dissolved	MG/L	MW-13A	05/19/2015		5.5000	
Sodium, dissolved	MG/L	MW-13A	08/26/2015		5.3000	
Sodium, dissolved	MG/L	MW-13A	11/10/2015		5.4000	
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	
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	

* - 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	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-13B	03/11/2013		5.3000	
Sodium, dissolved	MG/L	MW-13B	06/05/2013		5.4000	
Sodium, dissolved	MG/L	MW-13B	12/03/2013		5.4000	
Sodium, dissolved	MG/L	MW-13B	03/04/2014		5.1000	
Sodium, dissolved	MG/L	MW-13B	06/02/2014		4.9000	
Sodium, dissolved	MG/L	MW-13B	09/22/2014		5.0000	
Sodium, dissolved	MG/L	MW-13B	11/17/2014		5.3000	
Sodium, dissolved	MG/L	MW-13B	02/23/2015		5.0000	
Sodium, dissolved	MG/L	MW-13B	05/19/2015		5.5000	
Sodium, dissolved	MG/L	MW-13B	08/26/2015		5.2000	
Sodium, dissolved	MG/L	MW-13B	11/10/2015		5.2000	
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-16	03/12/2013		5.1000	
Sodium, dissolved	MG/L	MW-16	06/04/2013		5.3000	
Sodium, dissolved	MG/L	MW-16	09/05/2013		6.2000	
Sodium, dissolved	MG/L	MW-16	12/16/2013		5.7000	
Sodium, dissolved	MG/L	MW-16	03/05/2014		4.9000	
Sodium, dissolved	MG/L	MW-16	06/02/2014		4.5000	
Sodium, dissolved	MG/L	MW-16	09/22/2014		4.9000	
Sodium, dissolved	MG/L	MW-16	11/18/2014		4.8000	
Sodium, dissolved	MG/L	MW-16	02/23/2015		4.7000	
Sodium, dissolved	MG/L	MW-16	05/20/2015		4.6000	
Sodium, dissolved	MG/L	MW-16	08/26/2015		4.9000	
Sodium, dissolved	MG/L	MW-16	11/11/2015		5.7000	
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	

* - 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	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	
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	
Sodium, dissolved	MG/L	MW-35	03/13/2013		4.9000	
Sodium, dissolved	MG/L	MW-35	06/06/2013		4.9000	
Sodium, dissolved	MG/L	MW-35	09/05/2013		4.9000	
Sodium, dissolved	MG/L	MW-35	12/16/2013		5.9000	
Sodium, dissolved	MG/L	MW-35	03/04/2014		5.1000	
Sodium, dissolved	MG/L	MW-35	06/02/2014		4.9000	
Sodium, dissolved	MG/L	MW-35	09/22/2014		5.1000	
Sodium, dissolved	MG/L	MW-35	11/17/2014		5.2000	
Sodium, dissolved	MG/L	MW-35	02/25/2015		5.2000	
Sodium, dissolved	MG/L	MW-35	05/19/2015		4.8000	
Sodium, dissolved	MG/L	MW-35	08/26/2015		5.1000	
Sodium, dissolved	MG/L	MW-35	11/10/2015		5.5000	
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-13A	03/11/2013		0.1450	
Specific conductivity	mS/cm	MW-13A	06/05/2013		0.1470	
Specific conductivity	mS/cm	MW-13A	12/03/2013		0.1560	
Specific conductivity	mS/cm	MW-13A	03/04/2014		0.1410	
Specific conductivity	mS/cm	MW-13A	06/02/2014		0.1540	
Specific conductivity	mS/cm	MW-13A	09/22/2014		0.1660	
Specific conductivity	mS/cm	MW-13A	11/17/2014		0.1720	
Specific conductivity	mS/cm	MW-13A	02/23/2015		0.1650	

* - 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-13A	05/19/2015		0.1640	
Specific conductivity	mS/cm	MW-13A	08/26/2015		0.1660	
Specific conductivity	mS/cm	MW-13A	11/10/2015		0.1690	
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	
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-13B	03/11/2013		0.1440	
Specific conductivity	mS/cm	MW-13B	06/05/2013		0.1440	
Specific conductivity	mS/cm	MW-13B	12/03/2013		0.1540	
Specific conductivity	mS/cm	MW-13B	03/04/2014		0.1390	
Specific conductivity	mS/cm	MW-13B	06/02/2014		0.1540	
Specific conductivity	mS/cm	MW-13B	09/22/2014		0.1670	
Specific conductivity	mS/cm	MW-13B	11/17/2014		0.1720	
Specific conductivity	mS/cm	MW-13B	02/23/2015		0.1640	
Specific conductivity	mS/cm	MW-13B	05/19/2015		0.1650	
Specific conductivity	mS/cm	MW-13B	08/26/2015		0.1640	
Specific conductivity	mS/cm	MW-13B	11/10/2015		0.1690	
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-16	03/12/2013		0.1180	
Specific conductivity	mS/cm	MW-16	06/04/2013		0.1030	
Specific conductivity	mS/cm	MW-16	09/05/2013		0.1100	
Specific conductivity	mS/cm	MW-16	12/16/2013		0.0960	
Specific conductivity	mS/cm	MW-16	03/05/2014		0.0990	
Specific conductivity	mS/cm	MW-16	06/02/2014		0.0940	

* - 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-16	09/22/2014		0.1220	
Specific conductivity	mS/cm	MW-16	11/18/2014		0.1260	
Specific conductivity	mS/cm	MW-16	02/23/2015		0.0800	
Specific conductivity	mS/cm	MW-16	05/20/2015		0.1010	
Specific conductivity	mS/cm	MW-16	08/26/2015		0.0970	
Specific conductivity	mS/cm	MW-16	11/11/2015		0.1360	
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	
Specific conductivity	mS/cm	MW-35	03/13/2013		0.1320	
Specific conductivity	mS/cm	MW-35	06/06/2013		0.1330	
Specific conductivity	mS/cm	MW-35	09/05/2013		0.1320	
Specific conductivity	mS/cm	MW-35	12/16/2013		0.1210	
Specific conductivity	mS/cm	MW-35	03/04/2014		0.1290	
Specific conductivity	mS/cm	MW-35	06/02/2014		0.1400	
Specific conductivity	mS/cm	MW-35	09/22/2014		0.1610	
Specific conductivity	mS/cm	MW-35	11/17/2014		0.1600	
Specific conductivity	mS/cm	MW-35	02/25/2015		0.1520	
Specific conductivity	mS/cm	MW-35	05/19/2015		0.1350	
Specific conductivity	mS/cm	MW-35	08/26/2015		0.1530	
Specific conductivity	mS/cm	MW-35	11/10/2015		0.1560	
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	
Sulfate	MG/L	MW-13A	12/17/2008		2.4000	
Sulfate	MG/L	MW-13A	03/24/2009		2.5000	

* - 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	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-13A	03/11/2013		1.9000	
Sulfate	MG/L	MW-13A	06/05/2013		1.7000	
Sulfate	MG/L	MW-13A	12/03/2013		1.6000	
Sulfate	MG/L	MW-13A	03/04/2014		2.1000	
Sulfate	MG/L	MW-13A	06/02/2014		2.2000	
Sulfate	MG/L	MW-13A	09/22/2014		2.2000	
Sulfate	MG/L	MW-13A	11/17/2014		2.1000	
Sulfate	MG/L	MW-13A	02/23/2015		2.1000	
Sulfate	MG/L	MW-13A	05/19/2015		2.1000	
Sulfate	MG/L	MW-13A	08/26/2015		2.3000	
Sulfate	MG/L	MW-13A	11/10/2015		2.1000	
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-13B	03/11/2013		3.0000	
Sulfate	MG/L	MW-13B	06/05/2013		3.5000	
Sulfate	MG/L	MW-13B	12/03/2013		3.1000	
Sulfate	MG/L	MW-13B	03/04/2014		3.7000	
Sulfate	MG/L	MW-13B	06/02/2014		3.6000	
Sulfate	MG/L	MW-13B	09/22/2014		4.1000	
Sulfate	MG/L	MW-13B	11/17/2014		3.7000	

* - 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-13B	02/23/2015		3.4000	
Sulfate	MG/L	MW-13B	05/19/2015		3.1000	
Sulfate	MG/L	MW-13B	08/26/2015		3.7000	
Sulfate	MG/L	MW-13B	11/10/2015		3.2000	
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	
Sulfate	MG/L	MW-16	03/12/2013		1.9000	
Sulfate	MG/L	MW-16	06/04/2013		2.7000	
Sulfate	MG/L	MW-16	09/05/2013		1.7000	
Sulfate	MG/L	MW-16	12/16/2013		2.3000	
Sulfate	MG/L	MW-16	03/05/2014		2.8000	
Sulfate	MG/L	MW-16	06/02/2014		3.8000	
Sulfate	MG/L	MW-16	09/22/2014		2.9000	
Sulfate	MG/L	MW-16	11/18/2014		3.3000	
Sulfate	MG/L	MW-16	02/23/2015		2.9000	
Sulfate	MG/L	MW-16	05/20/2015		2.1000	
Sulfate	MG/L	MW-16	08/26/2015		3.4000	
Sulfate	MG/L	MW-16	11/11/2015		2.8000	
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	
Sulfate	MG/L	MW-35	03/13/2013		2.3000	

* - 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	06/06/2013		2.0000	
Sulfate	MG/L	MW-35	09/05/2013		2.1000	
Sulfate	MG/L	MW-35	12/16/2013		2.6000	
Sulfate	MG/L	MW-35	03/04/2014		2.7000	
Sulfate	MG/L	MW-35	06/02/2014		2.5000	
Sulfate	MG/L	MW-35	09/22/2014		3.2000	
Sulfate	MG/L	MW-35	11/17/2014		2.5000	
Sulfate	MG/L	MW-35	02/25/2015		2.4000	
Sulfate	MG/L	MW-35	05/19/2015		2.3000	
Sulfate	MG/L	MW-35	08/26/2015		2.4000	
Sulfate	MG/L	MW-35	11/10/2015		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-13A	03/11/2013		9.2200	
Temperature	deg C	MW-13A	06/05/2013		11.9600	
Temperature	deg C	MW-13A	12/03/2013		8.9300	
Temperature	deg C	MW-13A	03/04/2014		8.9800	
Temperature	deg C	MW-13A	06/02/2014		11.1500	
Temperature	deg C	MW-13A	09/22/2014		10.5800	
Temperature	deg C	MW-13A	11/17/2014		9.4000	
Temperature	deg C	MW-13A	02/23/2015		9.4100	
Temperature	deg C	MW-13A	05/19/2015		9.8900	
Temperature	deg C	MW-13A	08/26/2015		10.6900	
Temperature	deg C	MW-13A	11/10/2015		9.4900	
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	
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	

* - 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-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-13B	03/11/2013		9.1500	
Temperature	deg C	MW-13B	06/05/2013		11.4100	
Temperature	deg C	MW-13B	12/03/2013		9.4400	
Temperature	deg C	MW-13B	03/04/2014		9.0000	
Temperature	deg C	MW-13B	06/02/2014		14.3200	
Temperature	deg C	MW-13B	09/22/2014		11.0200	
Temperature	deg C	MW-13B	11/17/2014		9.4000	
Temperature	deg C	MW-13B	02/23/2015		9.7600	
Temperature	deg C	MW-13B	05/19/2015		10.2300	
Temperature	deg C	MW-13B	08/26/2015		10.5300	
Temperature	deg C	MW-13B	11/10/2015		9.5900	
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-16	03/12/2013		9.0200	
Temperature	deg C	MW-16	06/04/2013		9.4700	
Temperature	deg C	MW-16	09/05/2013		9.3600	
Temperature	deg C	MW-16	12/16/2013		9.0400	
Temperature	deg C	MW-16	03/05/2014		9.4000	
Temperature	deg C	MW-16	06/02/2014		9.5600	
Temperature	deg C	MW-16	09/22/2014		10.7300	
Temperature	deg C	MW-16	11/18/2014		8.9000	
Temperature	deg C	MW-16	02/23/2015		9.0200	
Temperature	deg C	MW-16	05/20/2015		9.3000	
Temperature	deg C	MW-16	08/26/2015		9.4800	
Temperature	deg C	MW-16	11/11/2015		9.0100	
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	

* - 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	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	
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	
Temperature	deg C	MW-35	03/13/2013		9.7500	
Temperature	deg C	MW-35	06/06/2013		10.8300	
Temperature	deg C	MW-35	09/05/2013		10.0900	
Temperature	deg C	MW-35	12/16/2013		9.8400	
Temperature	deg C	MW-35	03/04/2014		9.7600	
Temperature	deg C	MW-35	06/02/2014		11.7900	
Temperature	deg C	MW-35	09/22/2014		13.7000	
Temperature	deg C	MW-35	11/17/2014		10.4000	
Temperature	deg C	MW-35	02/25/2015		9.9000	
Temperature	deg C	MW-35	05/19/2015		10.3000	
Temperature	deg C	MW-35	08/26/2015		13.0900	
Temperature	deg C	MW-35	11/10/2015		10.3400	
Thallium, total	MG/L	MW-13A	12/03/2013	ND	0.0010	
Thallium, total	MG/L	MW-13A	03/04/2014	ND	0.0010	
Thallium, total	MG/L	MW-13A	06/02/2014	ND	0.0010	
Thallium, total	MG/L	MW-13A	09/22/2014	ND	0.0010	
Thallium, total	MG/L	MW-13A	11/17/2014	ND	0.0010	
Thallium, total	MG/L	MW-13A	02/23/2015	ND	0.0010	
Thallium, total	MG/L	MW-13A	05/19/2015	ND	0.0010	
Thallium, total	MG/L	MW-13A	08/26/2015	ND	0.0010	
Thallium, total	MG/L	MW-13A	11/10/2015	ND	0.0010	
Thallium, total	MG/L	MW-13B	12/03/2013	ND	0.0010	
Thallium, total	MG/L	MW-13B	03/04/2014	ND	0.0010	
Thallium, total	MG/L	MW-13B	06/02/2014	ND	0.0010	
Thallium, total	MG/L	MW-13B	09/22/2014	ND	0.0010	
Thallium, total	MG/L	MW-13B	11/17/2014	ND	0.0010	
Thallium, total	MG/L	MW-13B	02/23/2015	ND	0.0010	
Thallium, total	MG/L	MW-13B	05/19/2015	ND	0.0010	
Thallium, total	MG/L	MW-13B	08/26/2015	ND	0.0010	
Thallium, total	MG/L	MW-13B	11/10/2015	ND	0.0010	
Thallium, total	MG/L	MW-16	09/05/2013	ND	0.0010	
Thallium, total	MG/L	MW-16	12/16/2013	ND	0.0010	
Thallium, total	MG/L	MW-16	03/05/2014	ND	0.0010	
Thallium, total	MG/L	MW-16	06/02/2014	ND	0.0010	
Thallium, total	MG/L	MW-16	09/22/2014	ND	0.0010	
Thallium, total	MG/L	MW-16	11/18/2014	ND	0.0010	
Thallium, total	MG/L	MW-16	02/23/2015	ND	0.0010	
Thallium, total	MG/L	MW-16	05/20/2015	ND	0.0010	
Thallium, total	MG/L	MW-16	08/26/2015	ND	0.0010	
Thallium, total	MG/L	MW-16	11/11/2015	ND	0.0010	
Thallium, total	MG/L	MW-35	09/05/2013	ND	0.0010	
Thallium, total	MG/L	MW-35	12/16/2013	ND	0.0010	
Thallium, total	MG/L	MW-35	03/04/2014	ND	0.0010	
Thallium, total	MG/L	MW-35	06/02/2014	ND	0.0010	
Thallium, total	MG/L	MW-35	09/22/2014	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, total	MG/L	MW-35	11/17/2014	ND	0.0010	
Thallium, total	MG/L	MW-35	02/25/2015	ND	0.0010	
Thallium, total	MG/L	MW-35	05/19/2015	ND	0.0010	
Thallium, total	MG/L	MW-35	08/26/2015	ND	0.0010	
Thallium, total	MG/L	MW-35	11/10/2015	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	
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-13A	03/11/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/05/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	12/03/2013		98.0000	
Total dissolved solids (tds)	MG/L	MW-13A	03/04/2014		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	06/02/2014		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	09/22/2014		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	11/17/2014		110.0000	
Total dissolved solids (tds)	MG/L	MW-13A	02/23/2015		99.0000	
Total dissolved solids (tds)	MG/L	MW-13A	05/19/2015		100.0000	
Total dissolved solids (tds)	MG/L	MW-13A	08/26/2015		97.0000	
Total dissolved solids (tds)	MG/L	MW-13A	11/10/2015		100.0000	
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	

* - 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-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-13B	03/11/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/05/2013		98.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/03/2013		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/04/2014		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/02/2014		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/22/2014		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	11/17/2014		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	02/23/2015		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	05/19/2015		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	08/26/2015		98.0000	
Total dissolved solids (tds)	MG/L	MW-13B	11/10/2015		100.0000	
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	
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-16	03/12/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/04/2013		68.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/05/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-16	12/16/2013		92.0000	
Total dissolved solids (tds)	MG/L	MW-16	03/05/2014		82.0000	
Total dissolved solids (tds)	MG/L	MW-16	06/02/2014		79.0000	
Total dissolved solids (tds)	MG/L	MW-16	09/22/2014		93.0000	
Total dissolved solids (tds)	MG/L	MW-16	11/18/2014		100.0000	
Total dissolved solids (tds)	MG/L	MW-16	02/23/2015		80.0000	
Total dissolved solids (tds)	MG/L	MW-16	05/20/2015		99.0000	
Total dissolved solids (tds)	MG/L	MW-16	08/26/2015		93.0000	
Total dissolved solids (tds)	MG/L	MW-16	11/11/2015		99.0000	
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	

* - 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-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 dissolved solids (tds)	MG/L	MW-35	03/13/2013		96.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/06/2013		90.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/05/2013		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/16/2013		95.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/04/2014		94.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/02/2014		92.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/22/2014		99.0000	
Total dissolved solids (tds)	MG/L	MW-35	11/17/2014		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	02/25/2015		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	05/19/2015		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	08/26/2015		99.0000	
Total dissolved solids (tds)	MG/L	MW-35	11/10/2015		98.0000	
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	
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	

* - 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-13A	03/11/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/05/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	12/03/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	03/04/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	06/02/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	09/22/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	11/17/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13A	05/19/2015	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-13B	03/11/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/05/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	12/03/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	03/04/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	06/02/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	09/22/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	11/17/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-13B	05/19/2015	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-16	03/12/2013	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-16	06/04/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/05/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	12/16/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	03/05/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	06/02/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	09/22/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	11/18/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-16	05/20/2015	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	
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	
Total organic carbon (toc)	MG/L	MW-35	03/13/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/06/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/05/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	12/16/2013	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	03/04/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	06/02/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	09/22/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	11/17/2014	ND	1.0000	
Total organic carbon (toc)	MG/L	MW-35	05/19/2015	ND	1.0000	
Vanadium, total	MG/L	MW-13A	12/03/2013		0.0042	
Vanadium, total	MG/L	MW-13A	03/04/2014		0.0042	
Vanadium, total	MG/L	MW-13A	06/02/2014		0.0048	
Vanadium, total	MG/L	MW-13A	09/22/2014		0.0039	
Vanadium, total	MG/L	MW-13A	11/17/2014		0.0042	
Vanadium, total	MG/L	MW-13A	02/23/2015		0.0042	
Vanadium, total	MG/L	MW-13A	05/19/2015		0.0034	
Vanadium, total	MG/L	MW-13A	08/26/2015		0.0039	
Vanadium, total	MG/L	MW-13A	11/10/2015		0.0040	
Vanadium, total	MG/L	MW-13B	12/03/2013		0.0058	
Vanadium, total	MG/L	MW-13B	03/04/2014		0.0057	
Vanadium, total	MG/L	MW-13B	06/02/2014		0.0057	
Vanadium, total	MG/L	MW-13B	09/22/2014		0.0050	
Vanadium, total	MG/L	MW-13B	11/17/2014		0.0055	
Vanadium, total	MG/L	MW-13B	02/23/2015		0.0054	
Vanadium, total	MG/L	MW-13B	05/19/2015		0.0054	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

TABLE 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Vanadium, total	MG/L	MW-13B	08/26/2015		0.0056	
Vanadium, total	MG/L	MW-13B	11/10/2015		0.0058	
Vanadium, total	MG/L	MW-16	09/05/2013		0.0034	
Vanadium, total	MG/L	MW-16	12/16/2013		0.0039	
Vanadium, total	MG/L	MW-16	03/05/2014		0.0042	
Vanadium, total	MG/L	MW-16	06/02/2014		0.0042	
Vanadium, total	MG/L	MW-16	09/22/2014		0.0042	
Vanadium, total	MG/L	MW-16	11/18/2014		0.0040	
Vanadium, total	MG/L	MW-16	02/23/2015		0.0051	
Vanadium, total	MG/L	MW-16	05/20/2015		0.0042	
Vanadium, total	MG/L	MW-16	08/26/2015		0.0032	
Vanadium, total	MG/L	MW-16	11/11/2015		0.0034	
Vanadium, total	MG/L	MW-35	09/05/2013		0.0042	
Vanadium, total	MG/L	MW-35	12/16/2013		0.0046	
Vanadium, total	MG/L	MW-35	03/04/2014		0.0047	
Vanadium, total	MG/L	MW-35	06/02/2014		0.0042	
Vanadium, total	MG/L	MW-35	09/22/2014		0.0044	
Vanadium, total	MG/L	MW-35	11/17/2014		0.0042	
Vanadium, total	MG/L	MW-35	02/25/2015		0.0048	
Vanadium, total	MG/L	MW-35	05/19/2015		0.0042	
Vanadium, total	MG/L	MW-35	08/26/2015		0.0041	
Vanadium, total	MG/L	MW-35	11/10/2015		0.0043	
Zinc, total	MG/L	MW-13A	12/03/2013	ND	0.0050	
Zinc, total	MG/L	MW-13A	03/04/2014	ND	0.0050	
Zinc, total	MG/L	MW-13A	06/02/2014	ND	0.0050	
Zinc, total	MG/L	MW-13A	09/22/2014	ND	0.0050	
Zinc, total	MG/L	MW-13A	11/17/2014	ND	0.0050	
Zinc, total	MG/L	MW-13A	02/23/2015	ND	0.0050	
Zinc, total	MG/L	MW-13A	05/19/2015	ND	0.0050	
Zinc, total	MG/L	MW-13A	08/26/2015	ND	0.0050	
Zinc, total	MG/L	MW-13A	11/10/2015	ND	0.0050	
Zinc, total	MG/L	MW-13B	12/03/2013	ND	0.0050	
Zinc, total	MG/L	MW-13B	03/04/2014	ND	0.0050	
Zinc, total	MG/L	MW-13B	06/02/2014	ND	0.0050	
Zinc, total	MG/L	MW-13B	09/22/2014	ND	0.0050	
Zinc, total	MG/L	MW-13B	11/17/2014	ND	0.0050	
Zinc, total	MG/L	MW-13B	02/23/2015	ND	0.0050	
Zinc, total	MG/L	MW-13B	05/19/2015	ND	0.0050	
Zinc, total	MG/L	MW-13B	08/26/2015	ND	0.0050	
Zinc, total	MG/L	MW-13B	11/10/2015	ND	0.0050	
Zinc, total	MG/L	MW-16	09/05/2013	ND	0.0050	
Zinc, total	MG/L	MW-16	12/16/2013	ND	0.0050	
Zinc, total	MG/L	MW-16	03/05/2014	ND	0.0050	
Zinc, total	MG/L	MW-16	06/02/2014	ND	0.0050	
Zinc, total	MG/L	MW-16	09/22/2014	ND	0.0050	
Zinc, total	MG/L	MW-16	11/18/2014	ND	0.0050	
Zinc, total	MG/L	MW-16	02/23/2015	ND	0.0050	
Zinc, total	MG/L	MW-16	05/20/2015	ND	0.0050	
Zinc, total	MG/L	MW-16	08/26/2015	ND	0.0050	
Zinc, total	MG/L	MW-16	11/11/2015	ND	0.0050	
Zinc, total	MG/L	MW-35	09/05/2013	ND	0.0050	
Zinc, total	MG/L	MW-35	12/16/2013	ND	0.0050	
Zinc, total	MG/L	MW-35	03/04/2014	ND	0.0050	
Zinc, total	MG/L	MW-35	06/02/2014	ND	0.0050	
Zinc, total	MG/L	MW-35	09/22/2014	ND	0.0050	
Zinc, total	MG/L	MW-35	11/17/2014	ND	0.0050	
Zinc, total	MG/L	MW-35	02/25/2015	ND	0.0050	
Zinc, total	MG/L	MW-35	05/19/2015	ND	0.0050	
Zinc, total	MG/L	MW-35	08/26/2015	ND	0.0050	
Zinc, total	MG/L	MW-35	11/10/2015	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)	154	1.000	3.618	4.696	2.326	nonpar
Alkalinity, total (as caco3)	158	1.000	3.726	4.703	2.326	nonpar
Ammonia (as n)	72	0.468	8.003	7.564	2.326	nonpar
Antimony, total	2	0.053				nonpar
Arsenic, total	45	1.000	1.740	1.740	2.326	normal
Barium, total	38	1.000	0.303	0.304	2.326	normal
Beryllium, total	0	0.000				nonpar
Cadmium, total	0	0.000				nonpar
Calcium, dissolved	158	1.000	7.996	7.744	2.326	nonpar
Chloride	156	0.987	4.129	3.360	2.326	nonpar
Chromium, total	16	0.421	0.710	0.710	2.326	nonpar
Cobalt, total	0	0.000				nonpar
Copper, total	0	0.000				nonpar
Iron, total	5	0.132	1.206	1.455	2.326	nonpar
Lead, total	1	0.026				nonpar
Magnesium, dissolved	158	1.000	2.035	1.844	2.326	normal
Manganese, total	12	0.316	2.107	2.043	2.326	nonpar
Nickel, total	1	0.026				nonpar
Nitrate (as n)	154	1.000	13.831	12.420	2.326	nonpar
pH	149	1.000	0.160	0.698	2.326	normal
Potassium, dissolved	13	0.082	0.153	0.091	2.326	nonpar
Selenium, total	0	0.000				nonpar
Silver, total	0	0.000				nonpar
Sodium, dissolved	158	1.000	3.781	3.612	2.326	nonpar
Specific conductivity	151	1.000	7.673	7.786	2.326	nonpar
Sulfate	157	0.994	5.918	5.362	2.326	nonpar
Temperature	151	1.000	6.985	5.486	2.326	nonpar
Thallium, total	0	0.000				nonpar
Total dissolved solids (tds)	158	1.000	6.026	4.928	2.326	nonpar
Total organic carbon (toc)	7	0.048	0.146	1.287	2.326	nonpar
Vanadium, total	38	1.000	1.935	1.935	2.326	normal
Zinc, total	0	0.000				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 (2016) PREDICTION LIMITS† TO PREVIOUS YEAR (2015) PREDICTION LIMITS
Olympic View Sanitary Landfill

Constituent	2015 Pred. Limit	unit	Distributional Assumption	Constituent	2016 Pred. Limit	unit	Distributional Assumption
Alkalinity, bicarbonate (as caco3)	96	mg/L	nonparametric	Alkalinity, bicarbonate (as CaCO3)	96	mg/L	nonparametric
Alkalinity, total (as caco3)	96	mg/L	nonparametric	Alkalinity, total (as CaCO3)	96	mg/L	nonparametric
Ammonia (as n)	0.34	mg/L	nonparametric	Ammonia (as N)	0.30	mg/L	nonparametric
Antimony, dissolved	Current RL*	mg/L	nonparametric	Antimony, total	0.0013	mg/L	nonparametric
Arsenic, dissolved	0.38	ugL	nonparametric	Arsenic, total	0.50	ugL	normal
Barium, dissolved	0.0052	mg/L	nonparametric	Barium, total	0.0045	mg/L	normal
Beryllium, dissolved	Current RL*	mg/L	nonparametric	Beryllium, total	Current RL*	mg/L	nonparametric
Cadmium, dissolved	Current RL*	mg/L	nonparametric	Cadmium, total	Current RL*	mg/L	nonparametric
Calcium, dissolved	17.1	mg/L	nonparametric	Calcium, dissolved	17.1	mg/L	nonparametric
Chloride	4.40	mg/L	nonparametric	Chloride	4.40	mg/L	nonparametric
Chromium, dissolved	0.033	mg/L	nonparametric	Chromium, total	0.009	mg/L	nonparametric
Cobalt, dissolved	Current RL*	mg/L	nonparametric	Cobalt, total	Current RL*	mg/L	nonparametric
Copper, dissolved	0.0094	mg/L	nonparametric	Copper, total	Current RL*	mg/L	nonparametric
Iron, dissolved	0.097	mg/L	nonparametric	Iron, total	0.31	mg/L	nonparametric
Lead, dissolved	Current RL*	mg/L	nonparametric	Lead, total	0.0014	mg/L	nonparametric
Magnesium, dissolved	10.93	mg/L	normal	Magnesium, dissolved	10.98	mg/L	normal
Manganese, dissolved	0.014	mg/L	nonparametric	Manganese, total	0.062	mg/L	nonparametric
Nickel, dissolved	Current RL*	mg/L	nonparametric	Nickel, total	0.0041	mg/L	nonparametric
Nitrate (as n)	1.80	mg/L	nonparametric	Nitrate (as N)	1.80	mg/L	nonparametric
pH	5.90 - 8.23	units	normal	pH	5.88 - 8.24	units	normal
Potassium, dissolved	1.20	mg/L	nonparametric	Potassium, dissolved	1.20	mg/L	nonparametric
Selenium, dissolved	0.0033	mg/L	nonparametric	Selenium, total	Current RL*	mg/L	nonparametric
Silver, dissolved	Current RL*	mg/L	nonparametric	Silver, total	Current RL*	mg/L	nonparametric
Sodium, dissolved	6.20	mg/L	nonparametric	Sodium, dissolved	6.20	mg/L	nonparametric
Specific conductivity	0.18	mS/cm	nonparametric	Specific conductivity	0.18	mS/cm	nonparametric
Sulfate	9.90	mg/L	nonparametric	Sulfate	9.90	mg/L	nonparametric
Temperature	14.32	deg C	nonparametric	Temperature	14.32	deg C	nonparametric
Thallium, dissolved	Current RL*	mg/L	nonparametric	Thallium, total	Current RL*	mg/L	nonparametric
Total dissolved solids (tds)	175	mg/L	nonparametric	Total dissolved solids (tds)	175	mg/L	nonparametric
Total organic carbon (toc)	6.0	mg/L	nonparametric	Total organic carbon (toc)	6.0	mg/L	nonparametric
Vanadium, dissolved	0.0066	mg/L	nonparametric	Vanadium, total	0.0063	mg/L	normal
Zinc, dissolved	0.0096	mg/L	nonparametric	Zinc, total	0.005	mg/L	nonparametric

† Note that 2016 Prediction Limits for Trace Metals are now based on "total" analyses vs "dissolved" previously

* for background data sets with all non-detected values, a nonparametric prediction limit is the current constituent-specific laboratory reporting limit (RL)

mg/L = milligrams per liter

ug/L = micrograms per liter

mS/cm = milliSiemens per centimeter

deg C = degrees Celsius

3. Annual UCL Calculations using Preliminary Groundwater Cleanup Goals

- 2015 Annual Preliminary Groundwater Cleanup Goals Statistical Evaluation Summary (Table 3-1)

TABLE 3-1: 2015 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, 2013 through December 31, 2015

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%	0.23	0.21	ug/L	LN	0.462	ug/L	No	No
MW-15R	Compliance	Iron, dissolved	11[7]	9.1%	0.082	0.082	mg/L	A	0.30	mg/L	No	No
MW-15R	Compliance	Manganese, dissolved	12	92%	0.031	0.009	mg/L	Z	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	8.3%	0.029	0.029	ug/L	A	0.20	ug/L	No	No
MW-15R	Compliance	Ammonia as N	12	8.3%	0.036	0.036	mg/L	A	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%	0.50	0.45	ug/L	Z	0.462	ug/L	No	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	8.3%	0.0019	0.0019	mg/L	A	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	17%	0.03	0.03	ug/L	A	0.20	ug/L	No	No
MW-34A	Compliance	Ammonia as N	12	0%	0.03 (ND)	0.03	mg/L	B	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%	1.44	1.33	ug/L	LN	0.462	ug/L	Yes	Yes (▼)
MW-34C	Compliance	Iron, dissolved	9[8]	100%	0.88	0.75	mg/L	LN	0.30	mg/L	Yes	Yes (▼)
MW-34C	Compliance	Manganese, dissolved	12	100%	1.3	0.82	mg/L	Z	0.05	mg/L	Yes	Yes (▼)
MW-34C	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No

TABLE 3-1: 2015 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, 2013 through December 31, 2015

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%	0.16	0.14	ug/L	LN	0.20	ug/L	No	Yes (▼)
MW-34C	Compliance	Ammonia as N	12	8.3%	0.03	0.03	mg/L	A	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%	2.18	1.82	ug/L	Z	0.462	ug/L	Yes	No
MW-39	Compliance	Iron, dissolved	12	100%	41.0	36.8	mg/L	Z	0.30	mg/L	Yes	No
MW-39	Compliance	Manganese, dissolved	12	100%	0.53	0.48	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	0.40	mg/L	Z	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	0%	0.84 (ND)	0.84	ug/L	B	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	mg/L	LN	0.30	mg/L	Yes	No
MW-42	Compliance	Manganese, dissolved	12	100%	5.3	4.9	mg/L	N	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	8.3%	0.48	0.48	ug/L	A	1.0	ug/L	No	No
MW-42	Compliance	Vinyl Chloride	12	92%	0.16	0.15	ug/L	LN	0.20	ug/L	No	No
MW-42	Compliance	Ammonia as N	11[9]	100%	8.4	6.9	mg/L	LN	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: 2015 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, 2013 through December 31, 2015

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-43	Compliance	Arsenic, dissolved	12	17%	0.05	0.05	ug/L	A	0.462	ug/L	No	No
MW-43	Compliance	Iron, dissolved	12	83%	0.87	0.54	mg/L	N	0.30	mg/L	Yes	No
MW-43	Compliance	Manganese, dissolved	12	100%	0.26	0.18	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	8.3%	0.036	0.036	ug/L	A	0.20	ug/L	No	No
MW-43	Compliance	Ammonia as N	12	67%	0.12	0.12	mg/L	A***	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%	1.6	1.54	ug/L	Z	0.462	ug/L	Yes	No
MW-29A	Downgradient	Iron, dissolved	6	100%	4.4	4.27	mg/L	LN	0.30	mg/L	Yes	No
MW-29A	Downgradient	Manganese, dissolved	6	100%	1.5	1.41	mg/L	N	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%	0.095	0.09	mg/L	LN	0.19	mg/L	No	Yes (▼)
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%	10	9.3	ug/L	Z	0.462	ug/L	Yes	Yes (▼)
MW-32	Downgradient	Iron, dissolved	12	100%	0.87	0.75	mg/L	LN	0.30	mg/L	Yes	Yes (▼)
MW-32	Downgradient	Manganese, dissolved	12	100%	3.0	2.5	mg/L	LN	0.05	mg/L	Yes	No
MW-32	Downgradient	cis-1,2-dichloroethene	12	8.3%	0.81 (ND)	0.81	ug/L	A*	35	ug/L	No	No
MW-32	Downgradient	Ethyl ether	11	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-32	Downgradient	Trichloroethene	12	83%	0.68	0.68	ug/L	A***	1.0	ug/L	No	No
MW-32	Downgradient	Vinyl Chloride	12	100%	0.57	0.46	ug/L	LN	0.20	ug/L	Yes	No

TABLE 3-1: 2015 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, 2013 through December 31, 2015

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	11	27%	0.04	0.04	mg/L	A	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%	0.20	0.17	ug/L	LN	0.462	ug/L	No	No
MW-33A	Downgradient	Iron, dissolved	6	100%	5.1	5.1	mg/L	A**	0.30	mg/L	Yes	No
MW-33A	Downgradient	Manganese, dissolved	6	100%	0.11	0.11	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	67%	0.21	0.21	mg/L	A	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%	2.48	2.38	ug/L	LN	0.462	ug/L	Yes	Yes (▼)
MW-33C	Downgradient	Iron, dissolved	12	25%	0.38	0.38	mg/L	A	0.3	mg/L	Yes	No
MW-33C	Downgradient	Manganese, dissolved	12	100%	0.20	0.15	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	0%	0.03 (ND)	0.03	mg/L	B	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%	0.79	0.64	ug/L	LN	0.462	ug/L	Yes	Yes (▼)
MW-36A	Downgradient	Iron, dissolved	12	25%	0.13	0.13	mg/L	A	0.3	mg/L	No	No
MW-36A	Downgradient	Manganese, dissolved	12	33%	0.0063	0.0063	mg/L	A	0.05	mg/L	No	No

TABLE 3-1: 2015 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, 2013 through December 31, 2015

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	8.3%	0.063	0.063	ug/L	A	0.20	ug/L	No	No
MW-36A	Downgradient	Ammonia as N	12	0%	0.03 (ND)	0.03	mg/L	B	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 2015; arrows indicated increasing (▲) or decreasing (▼) trends.

[7] For MW-15R, outlier of 0.49 mg/L from 2-24-15 sampling event was removed prior to UCL calculation

[8] For MW-34C, outliers of 25 mg/L on 3-4-14, 59 mg/L on 9-23-14, and 7.8 mg/L on 2-24-15 were removed prior to UCL calculation

[9] For MW-42, outlier of 59 mg/L from 9-3-13 was removed prior to UCL calculation

A = Detection frequency of data set too low and/or N too few 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.

A*** = MTCAStat suggests use of the Z-score method but then cites inability to calculate due to presence of censored values; 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.

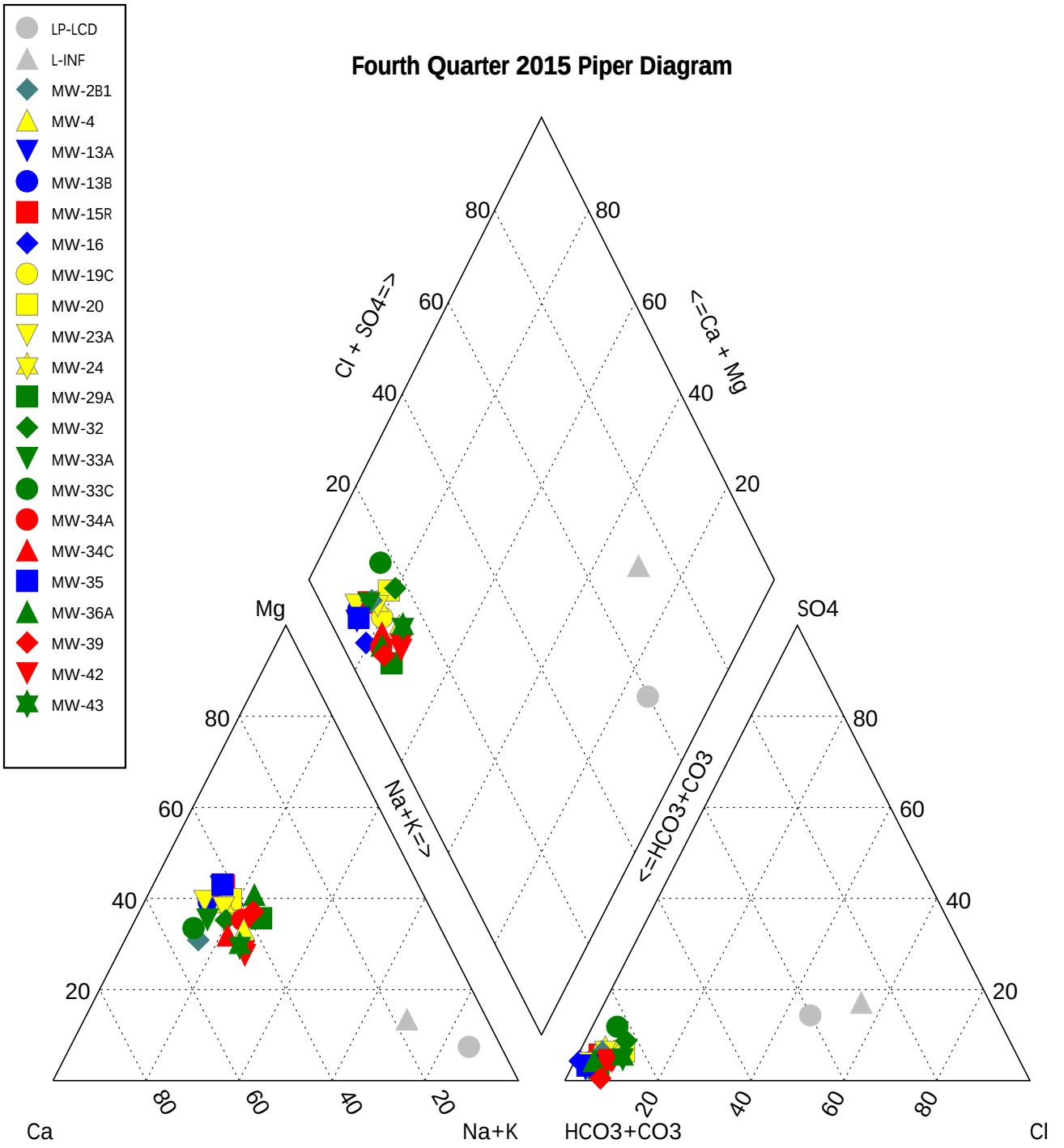
LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.

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.

APPENDIX D

FOURTH QUARTER 2015
GROUNDWATER GEOCHEMICAL EVALUATION



DESCRIPTION: Piper Diagram, Fourth Quarter 2015 Monitoring Report

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.19
	CLIENT: Waste Management Closed Sites	DATE: December 2015

Cation/Anion Balance

Location	MW-13A
Sample Date	11/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.001	<3.640465E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.4	0.2348871	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	15	0.7485404	
Mg	0.08229	9.1	0.7488171	
		Sum of Cations	1.757858	meq/L
Cl	0.02821	1.9	5.359253E-02	
SO4	0.02082	2.1	0.04375	
NO3	0.01613	0.44	7.096774E-03	
HCO3	0.01639	97.2	1.592995	
		Sum of Anions	1.697434	meq/L
Balance (% difference) *			1.748713	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-13B
Sample Date	11/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.001	<3.640465E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.2	0.2261875	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	17	0.8483458	
Mg	0.08229	8.6	0.7076734	
		Sum of Cations	1.80782	meq/L
Cl	0.02821	2	5.641319E-02	
SO4	0.02082	3.2	6.666667E-02	
NO3	0.01613	0.45	7.258064E-03	
HCO3	0.01639	94.8	1.553662	
		Sum of Anions	1.684	meq/L
Balance (% difference) *			3.545998	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-15R
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.0022	8.009021E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.3	0.2305373	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	14	0.6986377	
Mg	0.08229	8.7	0.715902	
		Sum of Cations	1.670734	meq/L
Cl	0.02821	2.7	7.615781E-02	
SO4	0.02082	4.5	0.09375	
NO3	0.01613	0.18	2.903226E-03	
HCO3	0.01639	90	1.474995	
		Sum of Anions	1.647806	meq/L
Balance (% difference) *			0.6908846	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-16
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.001	<3.640465E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.7	0.2479364	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	12	0.5988323	
Mg	0.08229	6.7	0.5513269	
		Sum of Cations	1.423708	meq/L
Cl	0.02821	<1	<2.820659E-02	
SO4	0.02082	2.8	5.833333E-02	
NO3	0.01613	0.19	3.064516E-03	
HCO3	0.01639	78	1.278329	
		Sum of Anions	1.367934	meq/L
Balance (% difference) *			1.997921	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-19C
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	1.3	4.732604E-02	
Fe	0.03581	0.12	0	
Na	0.04350	6	0.2609856	
K	0.02258	<1.5	<3.836484E-02	
Ca	0.04990	13	0.648735	
Mg	0.08229	6.7	0.5513269	
		Sum of Cations	1.546738	meq/L
Cl	0.02821	2.9	8.179913E-02	
SO4	0.02082	4.8	0.1	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	84	1.376662	
		Sum of Anions	1.559268	meq/L
Balance (% difference) *			-0.4033994	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-20
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.14	5.09665E-03	
Fe	0.03581	<0.06	<0	
Na	0.04350	11	0.4784737	
K	0.02258	3.6	9.207562E-02	
Ca	0.04990	26	1.29747	
Mg	0.08229	15	1.234314	
		Sum of Cations	3.10743	meq/L
Cl	0.02821	9.5	0.2679626	
SO4	0.02082	8.7	0.18125	
NO3	0.01613	3.4	5.483871E-02	
HCO3	0.01639	144	2.359993	
		Sum of Anions	2.864044	meq/L
Balance (% difference) *			4.075808	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-23A
Sample Date	11/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	2.5	9.101161E-02	
Fe	0.03581	0.81	0	
Na	0.04350	6.2	0.2696851	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	22	1.097859	
Mg	0.08229	11	0.9051635	
		Sum of Cations	2.389296	meq/L
Cl	0.02821	2.6	7.333715E-02	
SO4	0.02082	3.9	0.08125	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	120	1.966661	
		Sum of Anions	2.122054	meq/L
Balance (% difference) *			5.923763	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-24
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	1.1	4.004511E-02	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.3	0.2305373	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	13	0.648735	
Mg	0.08229	6.9	0.5677844	
		Sum of Cations	1.512678	meq/L
Cl	0.02821	2.7	7.615781E-02	
SO4	0.02082	4.7	9.791666E-02	
NO3	0.01613	0.14	2.258064E-03	
HCO3	0.01639	76.8	1.258663	
		Sum of Anions	1.434995	meq/L
Balance (% difference) *			2.635407	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-29A
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	1.3	4.732604E-02	
Fe	0.03581	3.6	0	
Na	0.04350	4.7	0.2044387	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	6.4	0.3193772	
Mg	0.08229	3.7	0.3044641	
		Sum of Cations	0.9011827	meq/L
Cl	0.02821	2	5.641319E-02	
SO4	0.02082	1.2	0.025	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	52.8	0.8653306	
		Sum of Anions	0.9475502	meq/L
Balance (% difference) *			-2.508074	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-2B1
Sample Date	11/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.64	2.329897E-02	
Fe	0.03581	<0.06	<0	
Na	0.04350	2.5	0.108744	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	9.1	0.4541145	
Mg	0.08229	3.2	0.2633203	
		Sum of Cations	0.8750544	meq/L
Cl	0.02821	1.4	3.948923E-02	
SO4	0.02082	2.4	0.05	
NO3	0.01613	1.3	2.096774E-02	
HCO3	0.01639	43.2	0.7079978	
		Sum of Anions	0.8184547	meq/L
Balance (% difference) *			3.34215	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-32
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	3	0.1092139	
Fe	0.03581	0.83	0	
Na	0.04350	17	0.7394593	
K	0.02258	<1.3	<3.324953E-02	
Ca	0.04990	36	1.796497	
Mg	0.08229	17	1.398889	
		Sum of Cations	4.077309	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	192	3.146657	
		Sum of Anions	3.819276	meq/L
Balance (% difference) *			3.267654	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-33A
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.089	3.240013E-03	
Fe	0.03581	0.58	0	
Na	0.04350	3.4	0.1478919	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	11	0.5489296	
Mg	0.08229	4.8	0.3949805	
		Sum of Cations	1.120618	meq/L
Cl	0.02821	2.3	6.487516E-02	
SO4	0.02082	2.1	0.04375	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	57.6	0.9439971	
		Sum of Anions	1.053429	meq/L
Balance (% difference) *			3.090535	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-33C
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.14	5.09665E-03	
Fe	0.03581	<0.06	<0	
Na	0.04350	4.2	0.1826899	
K	0.02258	<1.3	<3.324953E-02	
Ca	0.04990	17	0.8483458	
Mg	0.08229	6.5	0.5348694	
		Sum of Cations	1.604251	meq/L
Cl	0.02821	3	8.461978E-02	
SO4	0.02082	8.9	0.1854167	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	79.2	1.297996	
		Sum of Anions	1.568839	meq/L
Balance (% difference) *			1.116016	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-34A
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.0019	<6.916883E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	8.9	0.3871287	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	15	0.7485404	
Mg	0.08229	7.7	0.6336145	
		Sum of Cations	1.794929	meq/L
Cl	0.02821	3.3	9.308176E-02	
SO4	0.02082	2.3	4.791667E-02	
NO3	0.01613	1.4	2.258064E-02	
HCO3	0.01639	97.2	1.592995	
		Sum of Anions	1.756574	meq/L
Balance (% difference) *			1.079972	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-34C
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.59	2.147874E-02	
Fe	0.03581	0.44	0	
Na	0.04350	12	0.5219713	
K	0.02258	<1.3	<3.324953E-02	
Ca	0.04990	24	1.197665	
Mg	0.08229	10	0.822876	
		Sum of Cations	2.59724	meq/L
Cl	0.02821	4.8	0.1353917	
SO4	0.02082	5.9	0.1229167	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	144	2.359993	
		Sum of Anions	2.619107	meq/L
Balance (% difference) *			-0.4192112	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-35
Sample Date	11/10/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.001	<3.640465E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	5.5	0.2392368	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	15	0.7485404	
Mg	0.08229	9.3	0.7652746	
		Sum of Cations	1.778665	meq/L
Cl	0.02821	1.8	5.077187E-02	
SO4	0.02082	2.5	5.208334E-02	
NO3	0.01613	0.41	6.612903E-03	
HCO3	0.01639	90	1.474995	
		Sum of Anions	1.584463	meq/L
Balance (% difference) *			5.774423	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-36A
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	<0.001	<3.640465E-05	
Fe	0.03581	<0.06	<0	
Na	0.04350	6.2	0.2696851	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	9.4	0.4690853	
Mg	0.08229	6.4	0.5266406	
		Sum of Cations	1.291024	meq/L
Cl	0.02821	1.9	5.359253E-02	
SO4	0.02082	2.8	5.833333E-02	
NO3	0.01613	0.39	6.290322E-03	
HCO3	0.01639	74.4	1.219329	
		Sum of Anions	1.337546	meq/L
Balance (% difference) *			-1.769847	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-39
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.53	1.929446E-02	
Fe	0.03581	39	0	
Na	0.04350	8.9	0.3871287	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	13	0.648735	
Mg	0.08229	7.6	0.6253857	
		Sum of Cations	1.70612	meq/L
Cl	0.02821	5.6	0.1579569	
SO4	0.02082	<1	<2.083333E-02	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	120	1.966661	
		Sum of Anions	2.146257	meq/L
Balance (% difference) *			-11.42507	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-4
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.24	8.737114E-03	
Fe	0.03581	<0.06	<0	
Na	0.04350	4.7	0.2044387	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	8	0.3992215	
Mg	0.08229	3.8	0.3126929	
		Sum of Cations	0.9506668	meq/L
Cl	0.02821	2.7	7.615781E-02	
SO4	0.02082	2.5	5.208334E-02	
NO3	0.01613	0.79	1.274194E-02	
HCO3	0.01639	46.8	0.7669976	
		Sum of Anions	0.9079807	meq/L
Balance (% difference) *			2.296622	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-42
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	3.9	0.1419781	
Fe	0.03581	21	0	
Na	0.04350	20	0.8699521	
K	0.02258	7.7	0.1969395	
Ca	0.04990	35	1.746594	
Mg	0.08229	13	1.069739	
		Sum of Cations	4.025202	meq/L
Cl	0.02821	13	0.3666857	
SO4	0.02082	9.6	0.2	
NO3	0.01613	<0.05	<8.064516E-04	
HCO3	0.01639	252	4.129987	
		Sum of Anions	4.697479	meq/L
Balance (% difference) *			-7.707228	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	MW-43
Sample Date	11/9/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.12	4.368557E-03	
Fe	0.03581	0.19	0	
Na	0.04350	3.6	0.1565914	
K	0.02258	<1	<2.557656E-02	
Ca	0.04990	6.5	0.3243675	
Mg	0.08229	2.6	0.2139477	
		Sum of Cations	0.7248517	meq/L
Cl	0.02821	2.1	5.923384E-02	
SO4	0.02082	1.5	0.03125	
NO3	0.01613	2.2	3.548387E-02	
HCO3	0.01639	31.2	0.5113317	
		Sum of Anions	0.6372995	meq/L
Balance (% difference) *			6.427499	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	L-INF
Sample Date	11/11/2015

Major Ions	Conversion Factor +	mg/l	meq/l	
Mn	0.0364	0.13	4.732604E-03	
Fe	0.03581	0.15	0	
Na	0.04350	510	22.18378	
K	0.02258	76	1.943819	
Ca	0.04990	120	5.988323	
Mg	0.08229	57	4.690393	
		Sum of Cations	34.81105	meq/L
Cl	0.02821	640	18.05222	
SO4	0.02082	270	5.625	
NO3	0.01613	49	0.7903225	
HCO3	0.01639	552	9.046638	
		Sum of Anions	33.51418	meq/L
Balance (% difference) *			1.898074	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

APPENDIX E

LANDFILL GAS MONITORING RESULTS

Table E1. Historical Results of Methane (CH_4) Measurements
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/15/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/29/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/7/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
3/30/2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.2	0.0
12/29/2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
9/24/2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/16/2014	0.0	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
3/28/2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	3.7	0.0
12/13/2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0
7/13/2013	0.0	0.0	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	2.7	0.0
5/13/2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/13/2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
11/12/2012	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	0.1	0.0
8/12/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.0	0.0
5/18/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0	0.0	0.2	0.0
3/12/2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0
12/22/2011	0.0	0.0	0.0	—	0.0	—	0.0	—	0.0	0.0	—	0.0	0.0	—	0.0	1.5	0.0
9/27/2011	0.0	0.0	0.0	—	0.0	—	0.0	—	0.0	0.0	—	0.0	0.0	—	0.0	0.3	0.0
6/29/2011	0.1	0.0	0.0	—	0.0	—	0.0	—	0.0	0.0	—	0.0	0.0	—	0.0	1.0	0.0
3/16/2011	0.0	0.0	0.0	—	0.0	—	0.0	—	0.0	0.0	—	0.0	0.0	—	0.0	0.0	0.0
12/22/2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/27/2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/29/2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/16/2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
12/8/2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
9/4/2009	0.0	0.0	0.0	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
6/5/2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/3/2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1
12/1/2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
9/5/2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0
6/23/2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
3/5/2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0
12/28/2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0
9/30/2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0
6/15/2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0
3/30/2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	1.6

Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CH4>0.3% vol.
— Screened interval submerged

Table E2. Historical Results of Carbon Dioxide (CO_2) Measurements
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Port Orchard, Washington

Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/15/2015	6.4	2.3	1.9	1.6	0.9	0.7	2.6	2.0	1.2	1.0	1.0	3.9	3.5	1.6	5.9	3.5	3.8
9/29/2015	10.8	6.2	1.6	1.5	0.6	0.7	2.0	2.6	0.9	1.0	1.3	2.9	1.9	0.2	8.7	9.4	4.0
5/7/2015	7.9	3.6	2.6	1.7	0.9	0.8	3.6	—	1.1	2.4	—	3.4	3.3	0.0	6.1	5.0	4.5
3/30/2015	6.2	2.0	2.4	1.7	0.9	0.8	3.3	—	1.3	1.4	—	0.8	3.3	3.4	5.7	6.5	3.8
12/29/2014	8.3	2.6	2.6	1.8	1.0	0.9	3.2	3.5	1.3	1.2	1.7	3.6	3.5	0.1	6.8	7.3	3.9
9/24/2014	11.2	6.1	2.0	1.6	0.8	0.7	3.4	3.0	1.2	1.3	1.6	2.9	3.3	1.3	9.3	10.1	4.2
6/16/2014	8.9	4.0	2.9	1.8	1.2	1.0	4.2	—	2.0	1.7	—	3.7	3.3	1.1	6.6	6.1	5.0
3/28/2014	5.9	2.0	1.8	1.8	0.8	0.9	2.5	—	1.9	2.2	—	3.3	3.5	3.2	6.4	2.2	3.3
12/13/2013	9.6	5.4	2.6	1.7	1.1	0.9	3.5	3.6	1.7	1.9	1.7	3.9	3.8	3.7	8.5	9.5	5.1
7/13/2013	9.6	4.5	2.9	1.5	1.1	0.7	3.9	0.4	1.8	1.7	0.4	3.5	3.1	3.1	7.8	7.8	7.4
5/13/2013	6.2	2.6	2.3	1.7	0.8	0.7	2.4	2.2	1.9	1.0	0.8	2.3	2.6	0.1	5.3	4.0	5.0
2/13/2013	4.2	2.5	1.7	1.5	0.7	0.7	1.8	2.4	1.1	0.9	0.8	2.3	2.4	0.8	5.1	6.2	3.9
11/20/2012	8.3	2.8	1.9	1.6	0.9	0.7	2.2	2.9	1.3	1.2	1.2	2.9	2.1	3.0	7.5	3.5	4.8
8/20/2012	9.6	4.6	2.5	1.4	0.8	0.6	2.8	2.8	1.8	1.5	—	3.5	2.1	1.6	7.9	1.7	6.1
5/18/2012	6.0	3.1	2.6	1.7	0.8	0.6	2.1	—	2.2	1.1	—	2.6	1.7	1.1	5.7	3.4	5.1
3/12/2012	4.2	1.7	2.3	1.7	0.7	0.7	1.7	2.4	1.9	1.9	0.1	3.0	3.2	2.8	—	6.2	4.4
12/22/2011	1.5	5.5	3.2	—	1.3	—	1.3	—	1.4	1.0	—	2.0	2.0	—	5.1	5.2	4.6
9/27/2011	9.7	4.7	1.7	—	0.7	—	1.8	—	0.7	0.7	—	2.9	1.8	—	8.9	8.8	2.4
6/29/2011	6.6	3.0	3.0	—	0.7	—	2.1	—	2.3	0.9	—	3.4	3.0	—	6.4	3.9	6.2
3/16/2011	1.5	0.5	2.1	—	0.7	—	1.4	—	2.4	1.7	—	3	3.1	—	0.3	0.3	3.8
12/22/2010	8.3	2.4	2.3	1.7	3.2	2.8	2.4	2.1	2.2	1.8	1.0	3.9	3.5	19.5	3.4	1.3	6.7
9/27/2010	11.0	4.1	2.1	1.5	0.9	1.0	2.0	0.4	1.9	1.3	0.7	1.1	3.2	20.7	10.2	0.8	7.4
6/29/2010	8.0	0.2	3.5	1.6	0.9	0.7	2.5	1.6	2.3	2.2	0.7	2.7	3.0	14.9	7.3	0.2	9.3
3/16/2010	5.1	2.1	2.5	1.7	0.2	0.7	1.9	1.7	1.5	1.3	1.4	1.2	3.2	15.6	6.0	1.9	7.0
12/8/2009	6.9	6.1	2.3	1.7	0.1	0.4	1.8	0.2	1.5	1.8	0.2	1.5	3.3	3.3	10.0	2.8	7.1
9/4/2009	11.3	6.8	2.7	2.0	0.9	0.9	2.6	2.0	2.4	2.7	2.2	3.4	3.8	13.9	11.7	5.1	1.9
6/5/2009	7.6	4.9	3.2	1.9	0.6	0.6	2.2	1.6	2.3	2.3	1.5	2.9	3.8	12.4	8.2	2.4	2.0
3/3/2009	7.7	2.8	2.1	1.4	0.6	0.6	1.6	1.4	1.5	1.4	1.3	2.1	4.0	3.6	8.0	2.4	1.1
12/1/2008	9.2	7.0	0.7	0.7	2.9	1.7	2.0	1.6	2.3	2.3	1.8	2.9	4.2	12.4	9.9	2.9	1.8
9/5/2008	10.3	6.2	3.0	1.9	1.0	0.8	2.8	2.1	3.1	2.6	2.3	4.2	4.7	3.9	9.8	14.3	1.9
6/23/2008	8.5	4.6	2.9	1.6	0.8	0.7	2.5	1.8	1.8	2.0	1.0	3.4	4.4	4.3	7.5	12.4	2.3
3/5/2008	4.9	2.6	2.3	1.6	0.6	0.7	2.0	1.7	1.0	0.8	1.1	2.3	4.7	5.0	6.6	8.9	1.2
12/28/2007	7.7	1.2	2.2	1.8	0.9	0.8	2.3	1.9	5.3	5.3	2.2	2.9	5.7	4.2	8.2	8.5	1.5
9/30/2007	11.7	7.1	2.4	1.6	1.0	0.7	2.7	1.7	2.7	3.1	2.2	4.4	5.9	6.0	11.0	18.1	1.5
6/15/2007	8.1	4.3	3.2	1.7	0.9	0.7	2.7	1.5	2.7	2.5	0.6	3.6	6.6	6.6	8.1	12.5	1.8
3/30/2007	4.7	0.8	2.5	2.0	0.7	0.7	1.8	1.5	2.2	2.1	1.1	2.7	7.5	8.2	0.1	8.8	19.1

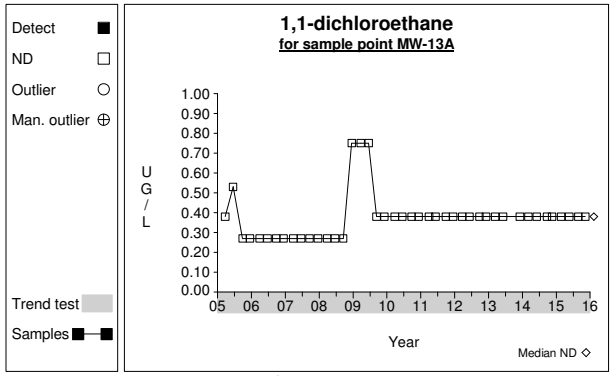
Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Detected CO2>0.3% vol.
— Screened interval submerged

Table E3. Historical Results of Oxygen (O_2) Measurements
2015 Annual Monitoring Report
Olympic View Sanitary Landfill, Port Orchard, Washington

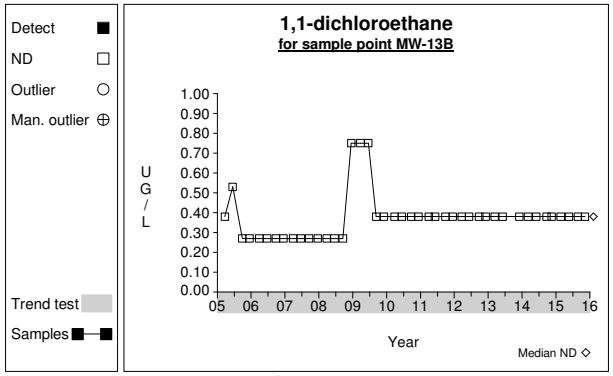
Date Monitored	OV-GP-07	OV-GP-08	OV-GP-9S	OV-GP-9D	OV-GP10S	OV-GP10D	OV-GP11S	OV-GP11D	OV-GP12S	OV-GP12M	OV-GP12D	OV-GP13S	OV-GP13M	OV-GP13D	OV-GP14	OV-GP15	OV-GP16
12/15/2015	5.9	3.7	18.6	19.7	20.1	19.3	18.3	17.5	20.7	20.3	18.8	16.6	17.3	19.0	5.0	5.7	16.1
9/29/2015	7.0	7.8	19.8	19.6	20.4	19.6	19.2	18.5	19.9	19.6	16.2	17.4	18.4	20.4	7.4	5.0	16.6
5/7/2015	4.1	7.0	19.0	19.4	20.2	18.9	17.6	—	18.9	18.3	—	16.9	16.6	20.7	5.5	5.5	16.0
3/30/2015	4.5	9.4	18.6	19.0	20.3	18.9	17.7	—	19.3	18.3	—	19.7	17.1	17.7	5.0	0.1	16.3
12/29/2014	3.6	5.3	18.5	19.6	20.5	19.8	17.9	14.4	20.1	19.5	16.4	17.5	17.5	20.7	5.7	0.0	16.4
9/24/2014	8.3	8.6	19.9	19.6	20.4	19.4	18.6	17.4	19.5	18.7	15.2	18.5	17.7	19.5	7.0	3.2	17.7
6/16/2014	3.7	5.7	18.5	18.8	20.0	18.5	16.9	—	19.1	18.8	—	17.7	17.3	20.1	5.9	0.0	16.9
3/28/2014	4.8	3.3	19.0	19.5	20.9	18.8	18.7	—	18.7	18.2	—	18.3	18.1	18.2	5.5	5.8	16.8
12/13/2013	4.9	6.3	19.4	19.6	20.1	19.3	17.6	11.5	18.5	17.8	16.6	17.6	17.3	17.3	3.9	1.2	16.1
7/13/2013	4.4	5.8	18.5	19.1	20.0	19.2	16.9	20.2	17.3	16.3	19.1	17.0	17.7	18.0	0.0	0.0	13.6
5/13/2013	4.5	8.4	18.8	19.0	20.1	18.7	18.2	15.7	19.6	20.0	18.7	18.2	17.9	20.8	6.2	7.2	15.4
2/13/2013	4.0	7.4	19.2	18.2	20.4	18.4	18.9	14.2	20.5	20.2	18.1	18.6	17.1	20.2	5.8	0.3	15.9
11/20/2012	4.8	4.5	18.0	19.5	20.2	19.7	18.9	14.0	18.9	18.9	16.8	17.9	18.9	18.1	5.2	7.2	13.8
8/20/2012	5.0	6.7	18.5	18.4	19.3	18.6	17.9	12.5	18.3	18.0	—	16.9	17.5	18.4	4.3	19.1	15.3
5/18/2012	4.2	5.8	17.7	18.7	19.8	19.3	18.1	—	19.2	19.3	—	18.0	19.1	19.8	5.5	13.0	15.0
3/12/2012	3.5	5.4	18.6	19.0	20.1	18.6	19.1	15.4	18.0	17.7	21.4	18.2	17.6	18.3	—	0.0	15.6
12/22/2011	20.0	5.7	17.6	—	19.8	—	18.9	—	19.6	19.3	—	17.7	18.4	—	6.7	12.4	15.2
9/27/2011	8.9	10.8	19.9	—	20.6	—	20.0	—	20.4	19.9	—	18.3	18.8	—	7.6	4.4	18.8
6/29/2011	3.6	6.5	17.9	—	20.2	—	18.7	—	19.4	19.8	—	17.2	14.9	—	4.8	6.5	14.8
3/16/2011	20.1	20.7	18.3	—	20.5	—	16.5	—	16.7	17.4	—	16.6	15	—	20.6	20.4	15.3
12/22/2010	1.8	2.4	16.3	17.8	11.1	10.1	16.5	16.4	16.1	16.1	18.8	14.7	14.5	19.5	18.6	19.4	11.2
9/27/2010	6.6	9.7	18.5	19.0	20.5	20.6	19.1	20.5	19.0	19.0	19.4	17.5	15.3	20.7	8.2	20.3	12.6
6/29/2010	3.5	20.1	16.6	18.0	19.3	18.3	17.3	18.1	16.8	16.8	18.4	15.8	13.4	14.9	4.5	19.6	9.2
3/16/2010	3.0	8.5	18.4	19.3	21.6	19.3	18.0	18.9	20.9	20.9	18.0	17.0	12.7	15.6	2.8	10.0	10.4
12/8/2009	2.5	6.0	16.6	18.8	21.3	21.6	19.3	21.7	17.9	17.9	20.1	17.9	15.2	15.7	1.8	5.3	10.4
9/4/2009	7.5	6.4	19.8	19.8	21.1	20.2	20.1	19.6	15.9	15.9	14.3	17.3	14.3	13.9	3.0	3.3	19.3
6/5/2009	2.4	3.4	17.0	18.3	20.1	18.9	18.3	19.0	16.3	16.3	17.0	15.3	12.6	12.4	3.0	6.2	18.9
3/3/2009	2.9	7.5	18.8	18.9	20.4	18.9	18.8	19.3	19.0	19.0	16.7	16.3	13.4	13.7	2.7	0.0	19.5
12/1/2008	1.4	1.0	20.2	19.6	17.6	19.1	18.9	19.1	16.5	16.5	15.2	16.4	13.1	12.4	1.6	0.0	18.8
9/5/2008	6.8	8.0	18.9	19.3	20.5	19.7	19.1	19.4	17.1	17.1	14.4	15.8	11.7	13.0	5.0	0.0	19.5
6/23/2008	6.0	10.8	18.5	19.3	20.1	19.3	18.9	19.2	17.5	17.5	18.1	16.3	11.3	10.5	4.3	0.0	19.1
3/5/2008	4.0	13.6	19.3	19.5	20.2	18.7	18.8	18.2	20.0	20.0	18.4	15.4	8.8	8.5	5.5	0.0	20.3
12/28/2007	3.9	5.7	17.7	18.9	20.3	19.0	18.8	18.5	15.0	15.0	15.3	14.7	6.0	10.6	2.2	0.3	19.6
9/30/2007	6.2	5.7	19.7	19.3	20.0	19.5	19.2	19.6	16.4	13.9	12.2	14.5	7.8	6.5	4.3	0.0	19.7
6/15/2007	4.8	7.2	18.4	18.8	20.1	18.9	18.1	18.8	17.7	17.7	18.4	15.3	6.6	5.5	3.7	0.0	20.0
3/30/2007	4.6	6.8	17.7	18.1	19.9	18.4	17.7	16.7	17.1	17.1	17.0	12.7	2.5	2.1	20.9	0.0	18.8

Notes:
OV-GP = Gas Probe
S = Shallow Monitoring Zone
M = Middle Monitoring Zone
D = Deep Monitoring Zone
Depressed O2<20.3% vol.
— Screened interval submerged

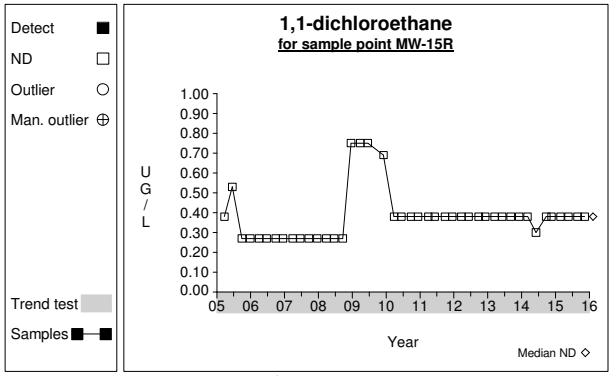
Time Series



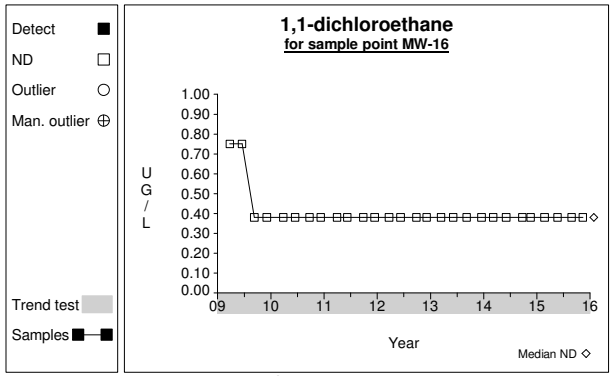
Graph 1



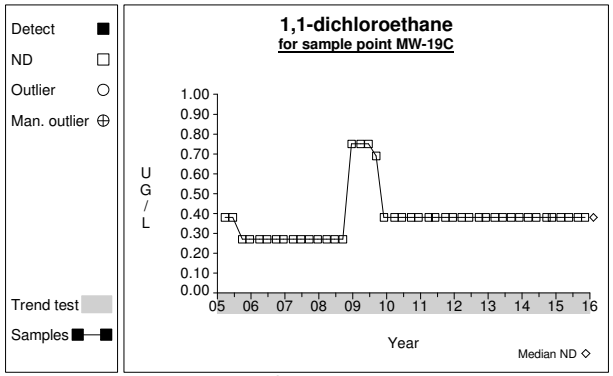
Graph 2



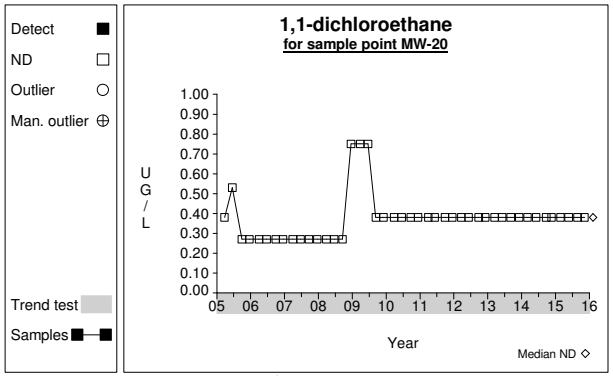
Graph 3



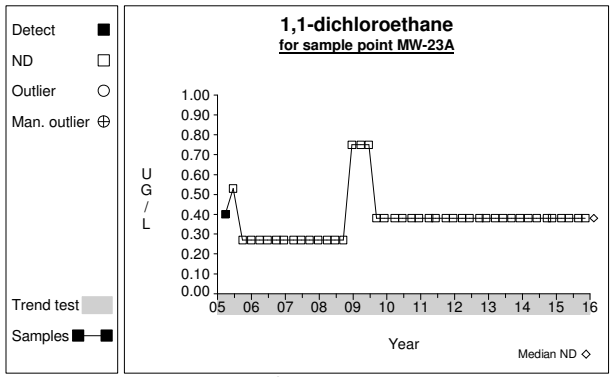
Graph 4



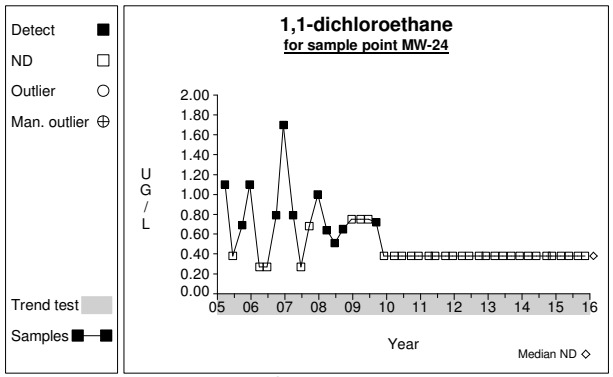
Graph 5



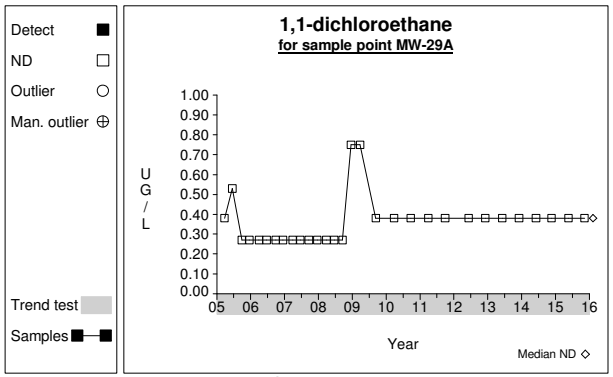
Graph 6



Graph 7

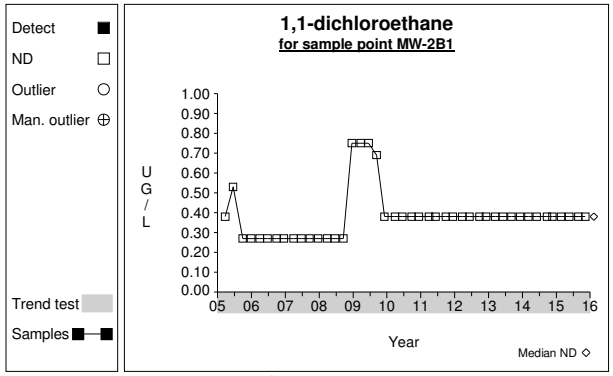


Graph 8

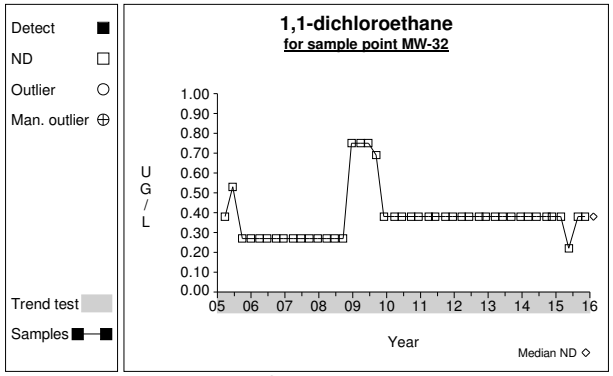


Graph 9

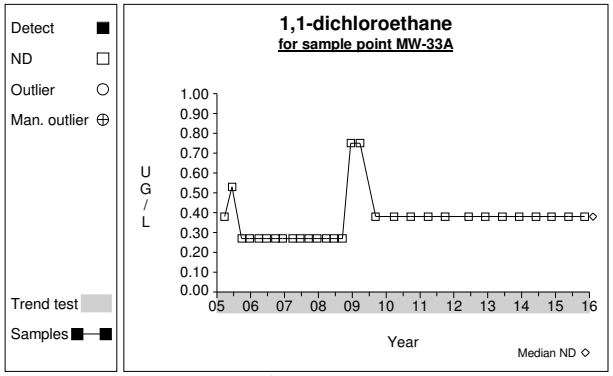
Time Series



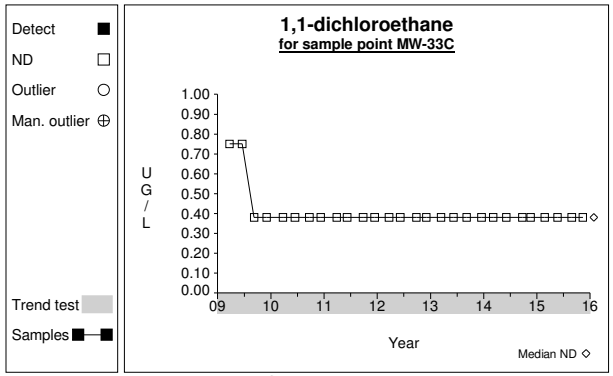
Graph 10



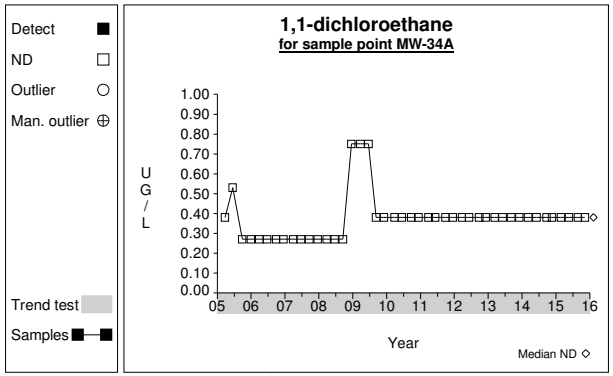
Graph 11



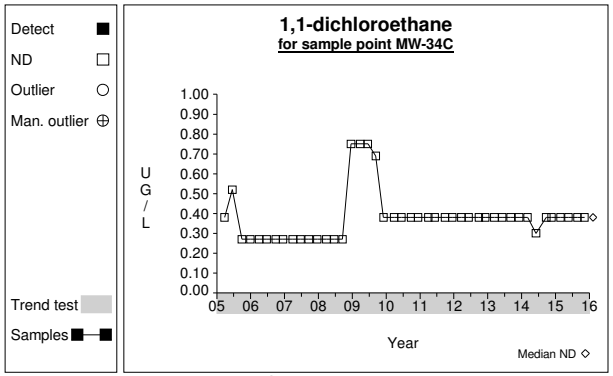
Graph 12



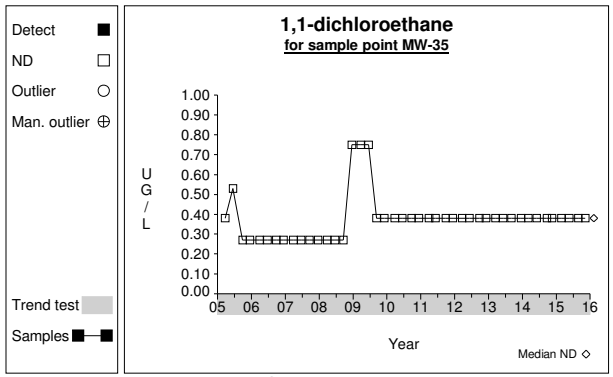
Graph 13



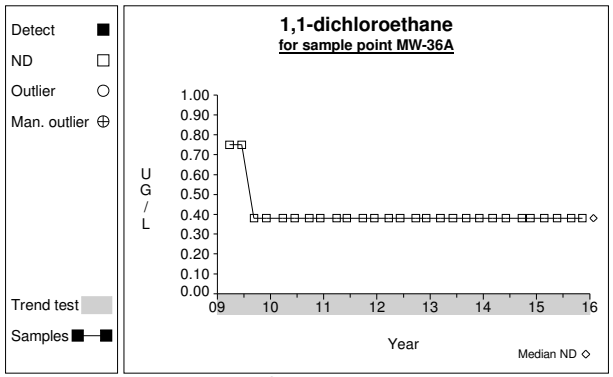
Graph 14



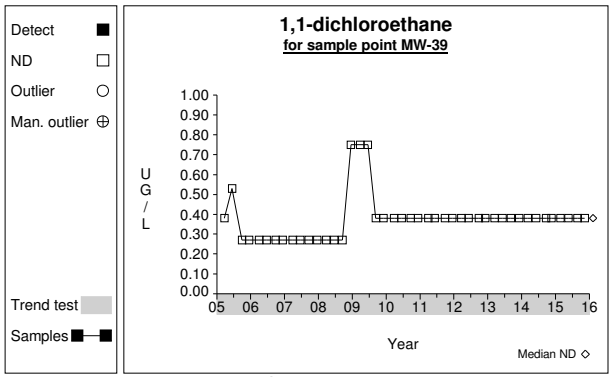
Graph 15



Graph 16

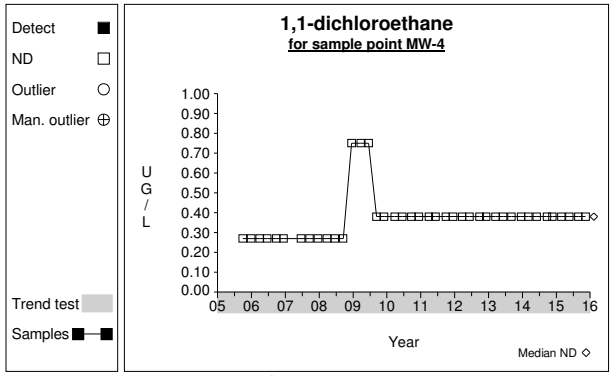


Graph 17

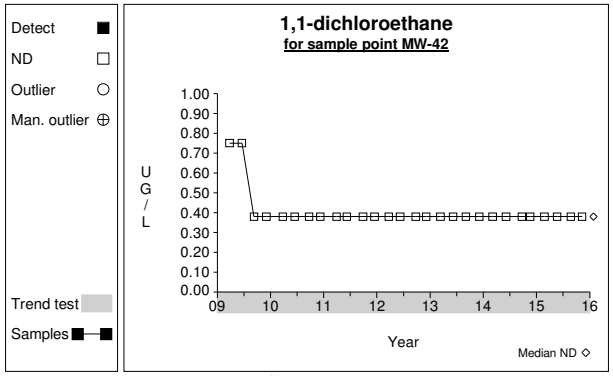


Graph 18

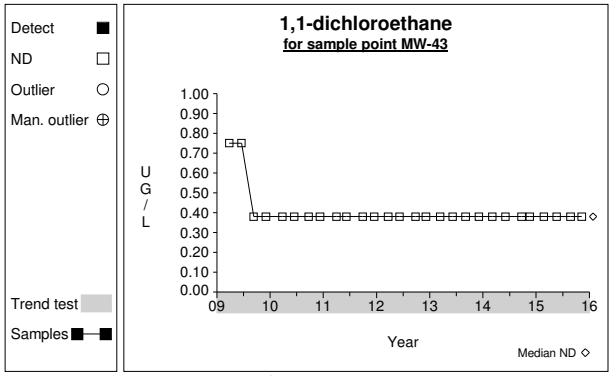
Time Series



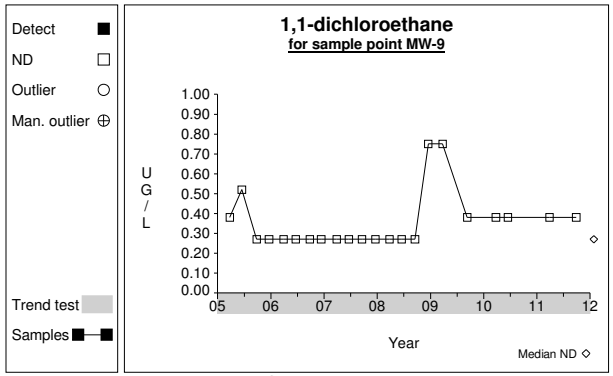
Graph 19



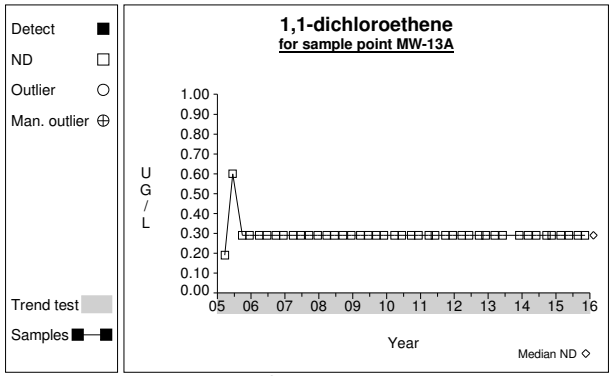
Graph 20



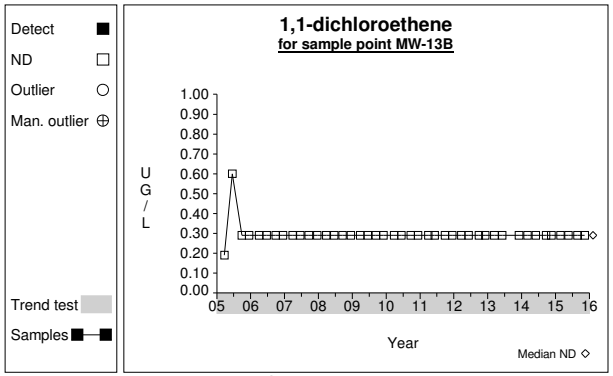
Graph 21



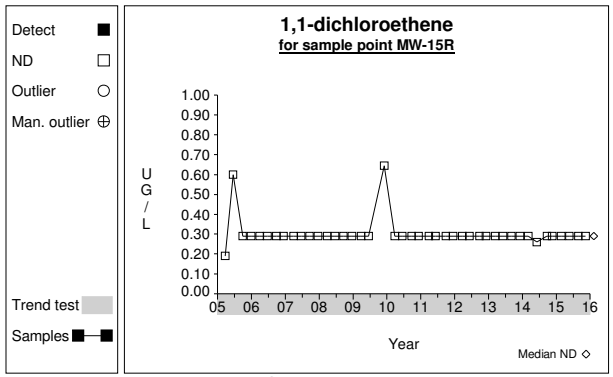
Graph 22



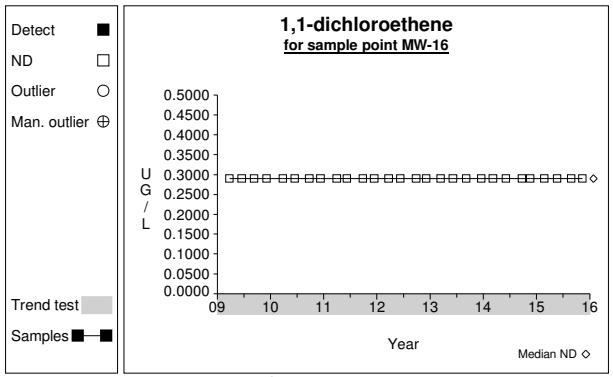
Graph 23



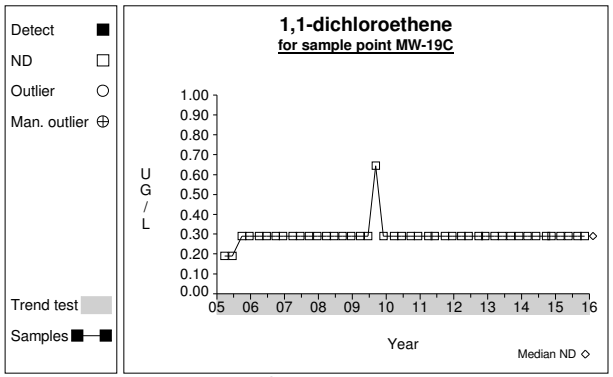
Graph 24



Graph 25

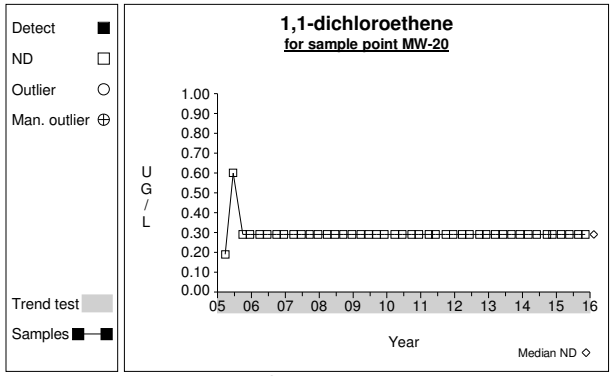


Graph 26

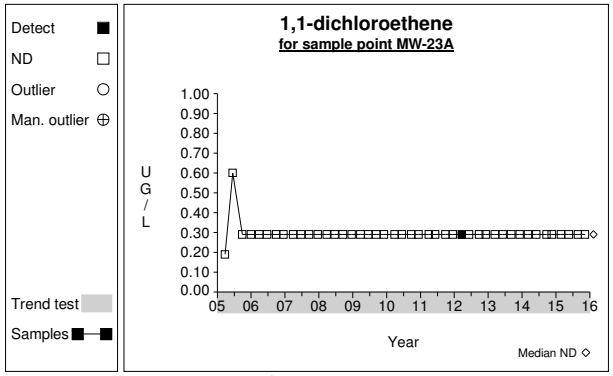


Graph 27

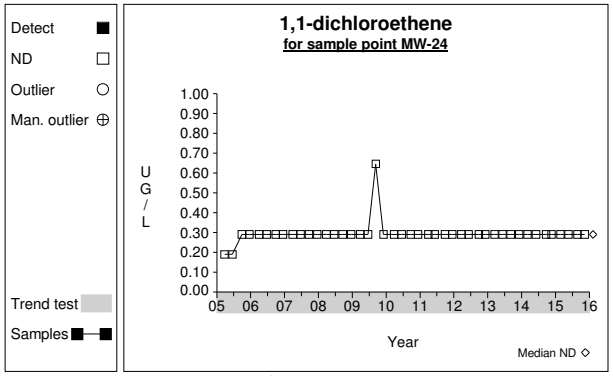
Time Series



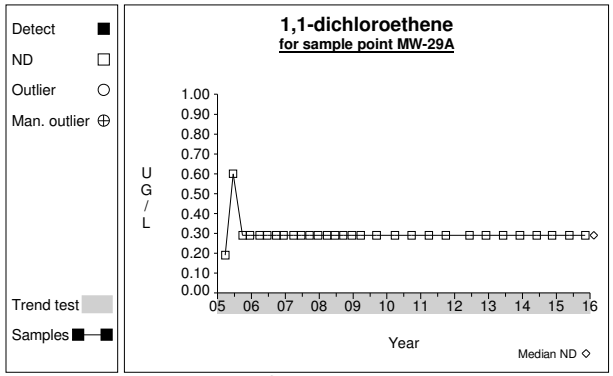
Graph 28



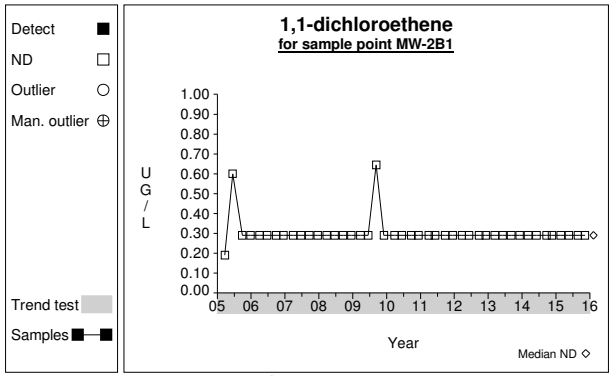
Graph 29



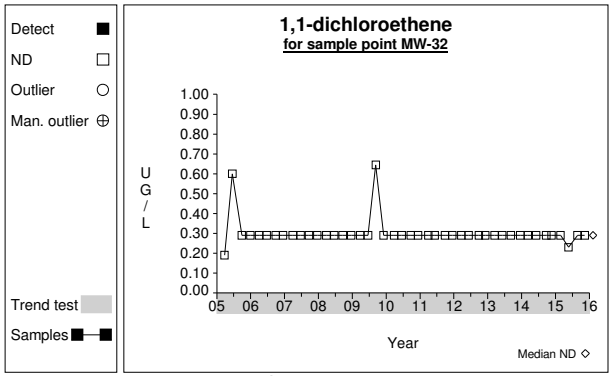
Graph 30



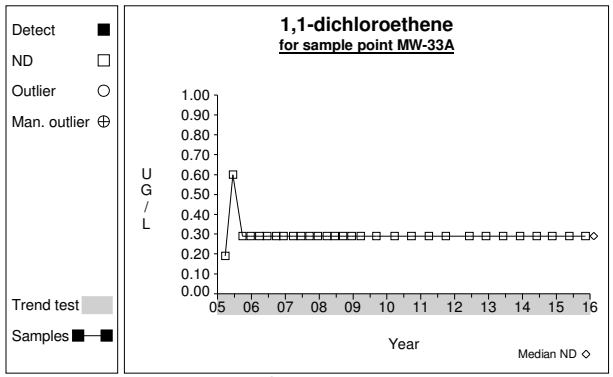
Graph 31



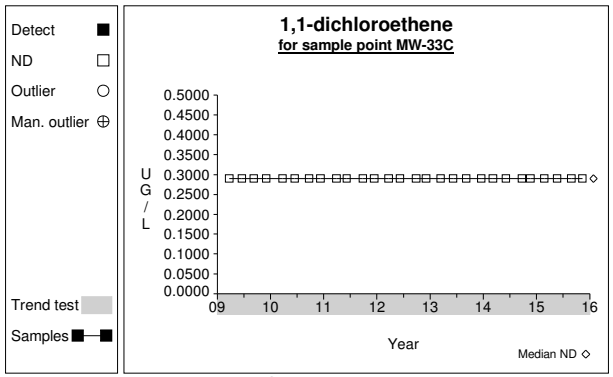
Graph 32



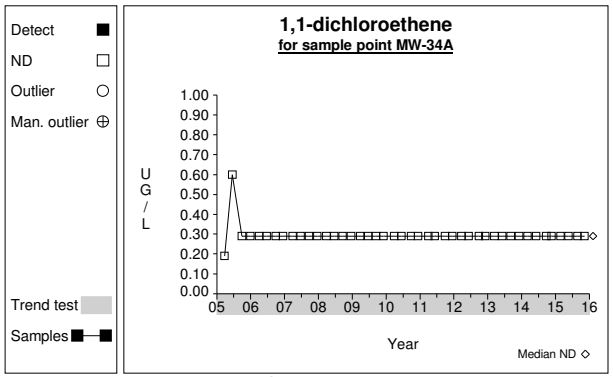
Graph 33



Graph 34

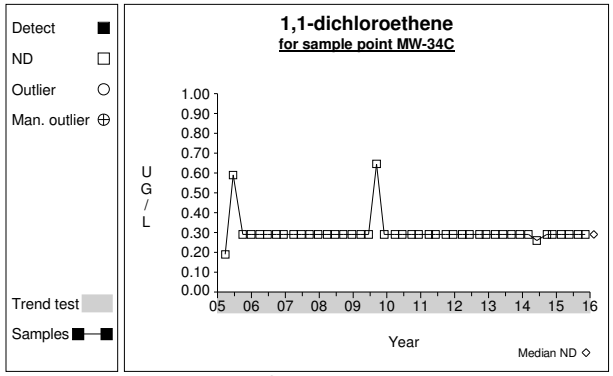


Graph 35

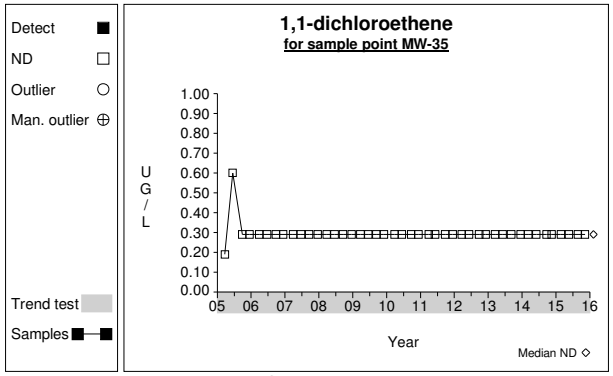


Graph 36

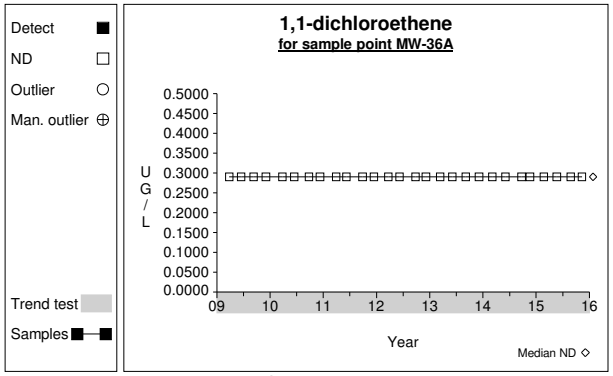
Time Series



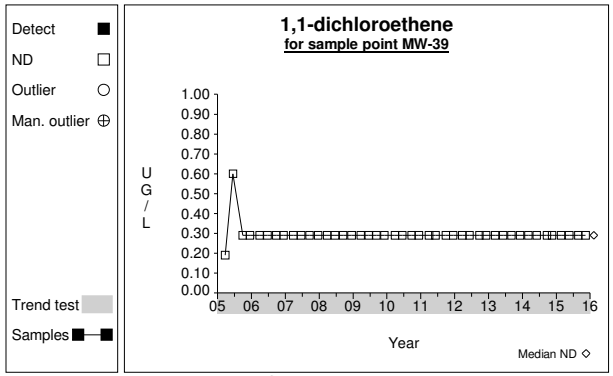
Graph 37



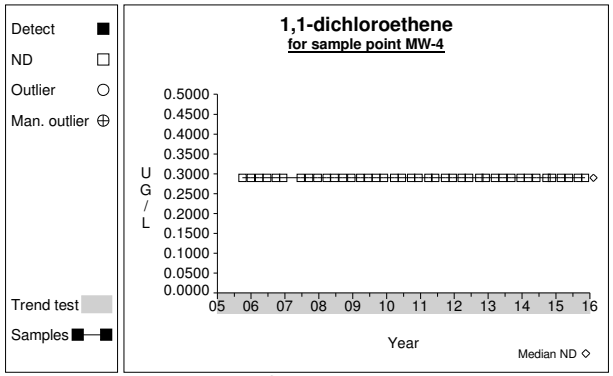
Graph 38



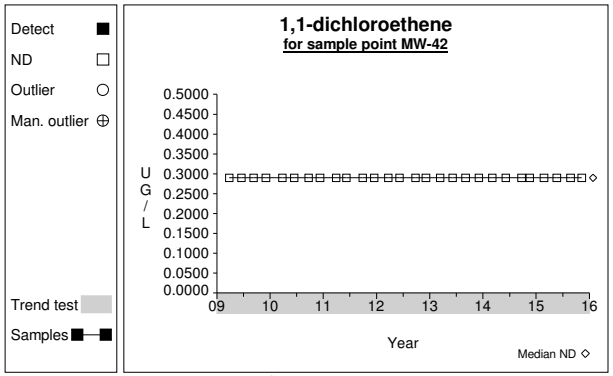
Graph 39



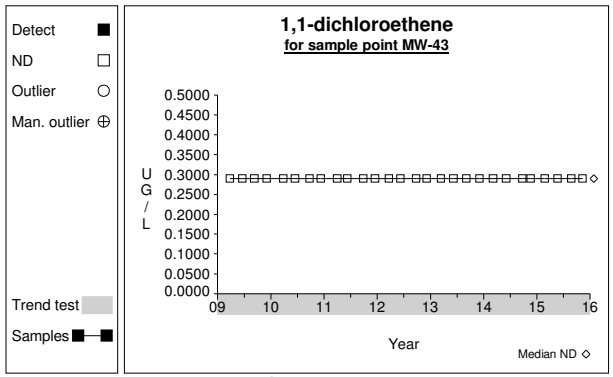
Graph 40



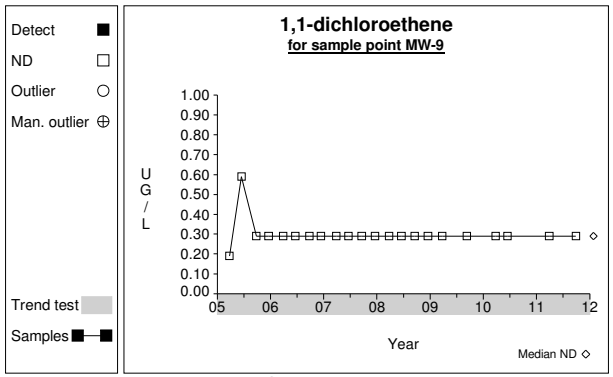
Graph 41



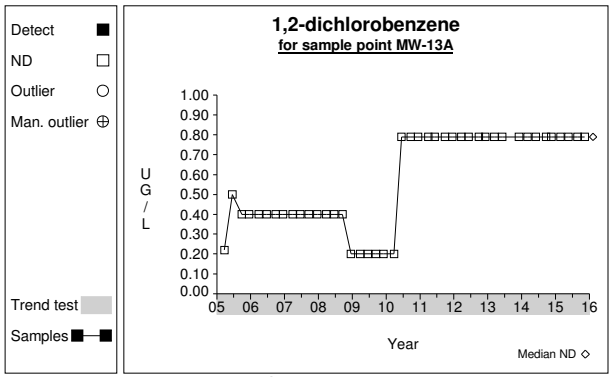
Graph 42



Graph 43

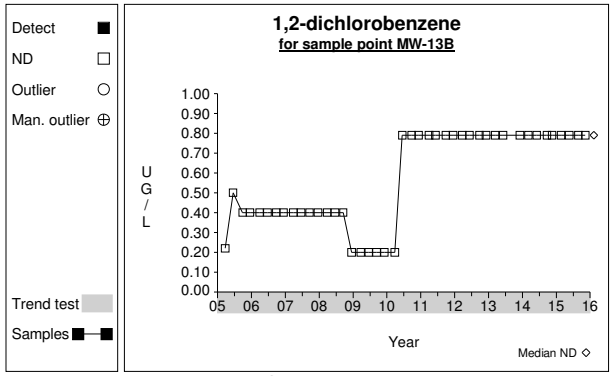


Graph 44

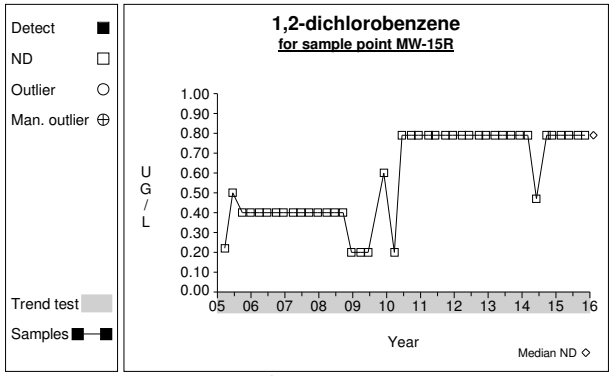


Graph 45

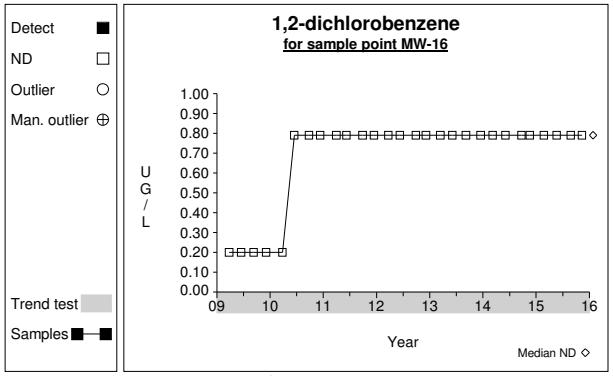
Time Series



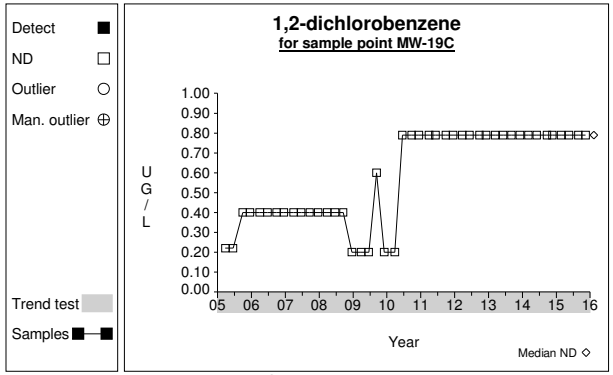
Graph 46



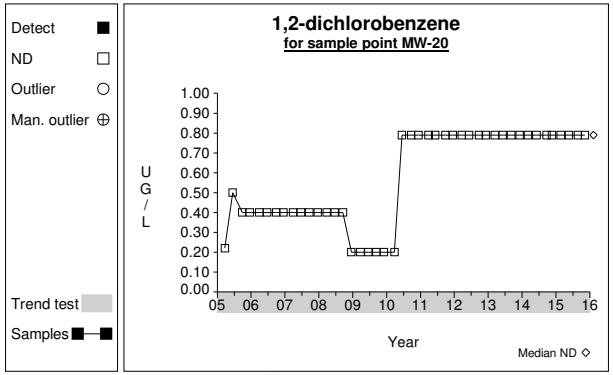
Graph 47



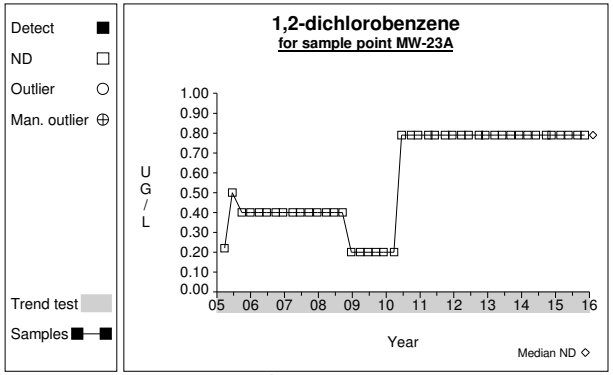
Graph 48



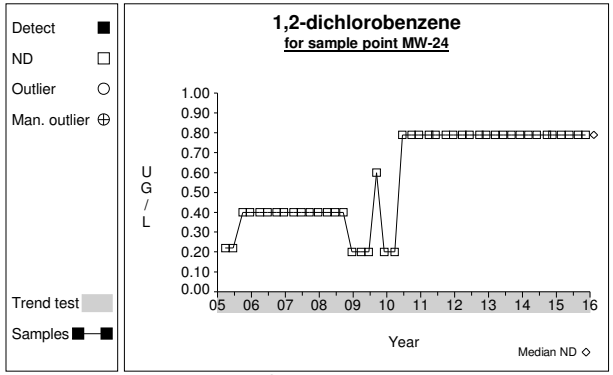
Graph 49



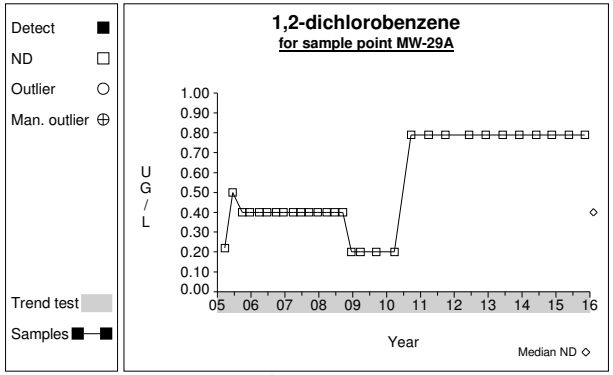
Graph 50



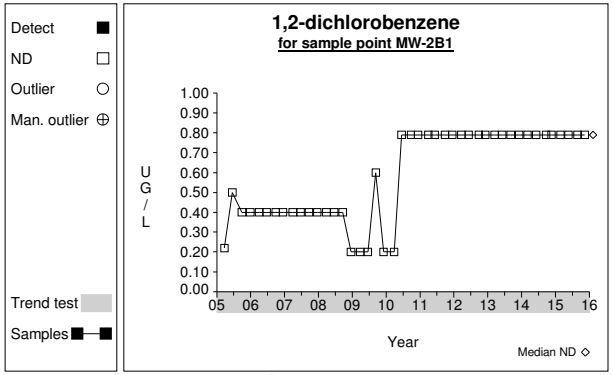
Graph 51



Graph 52

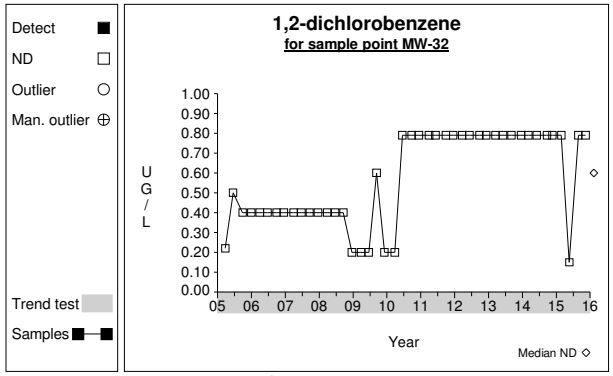


Graph 53

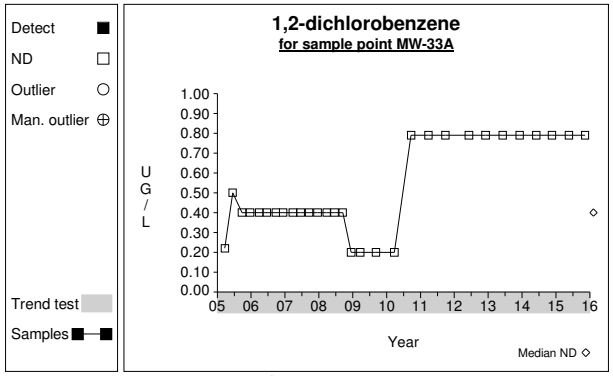


Graph 54

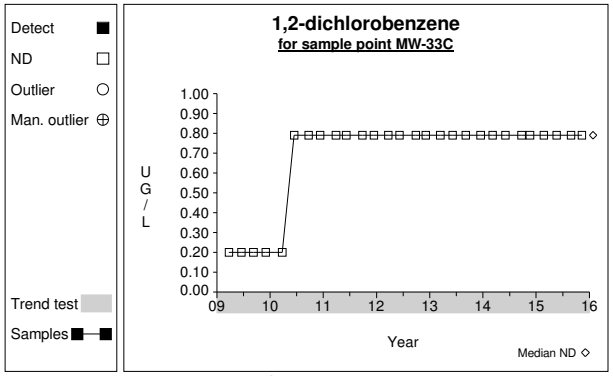
Time Series



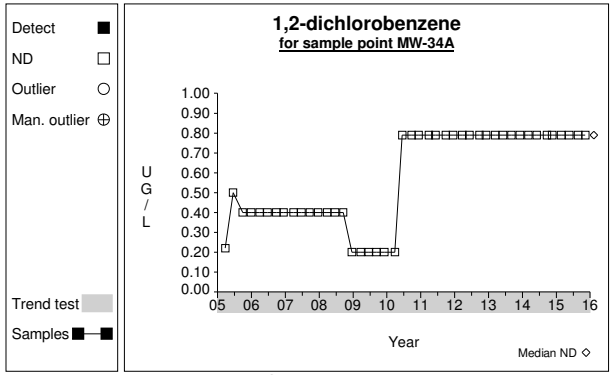
Graph 55



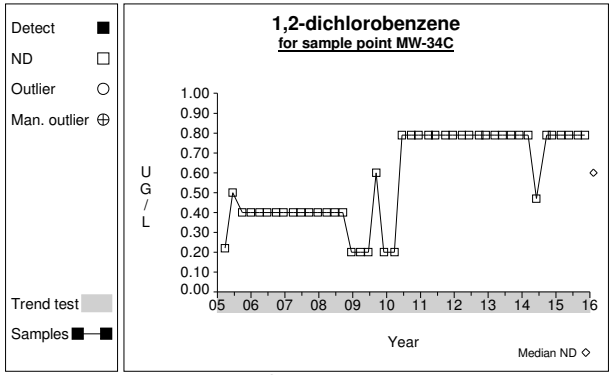
Graph 56



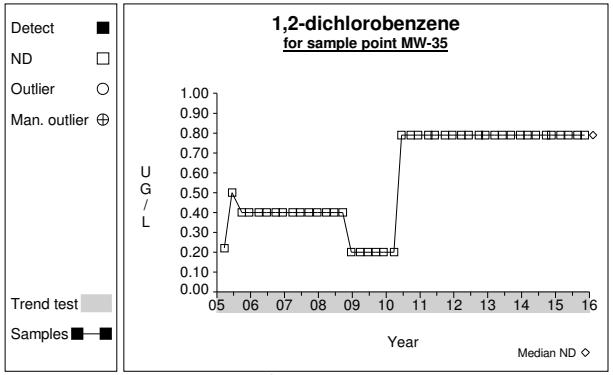
Graph 57



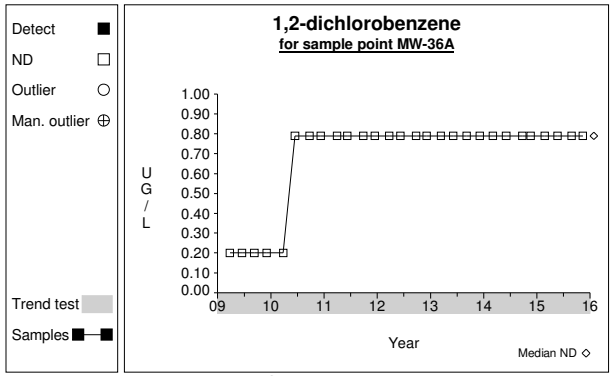
Graph 58



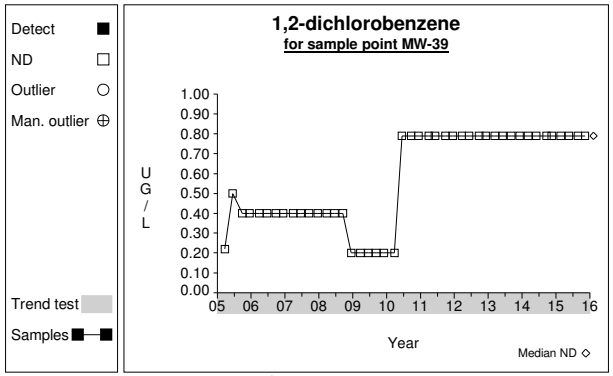
Graph 59



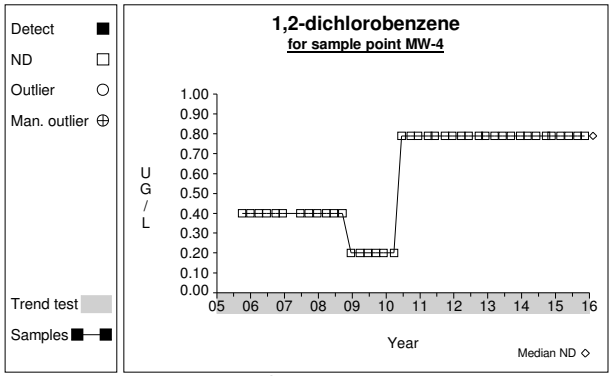
Graph 60



Graph 61

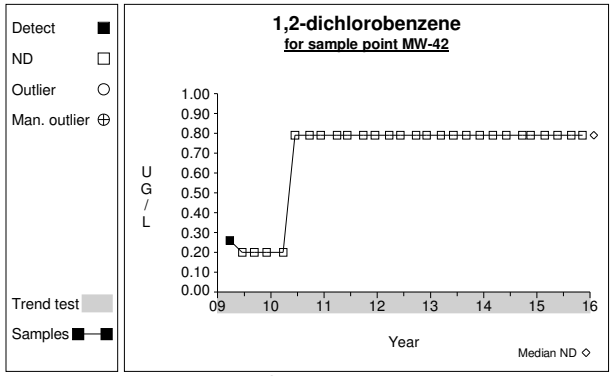


Graph 62

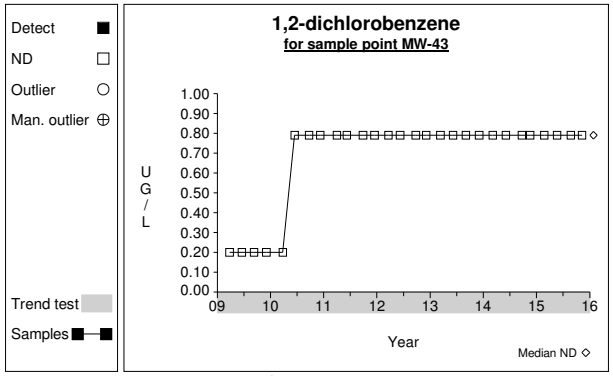


Graph 63

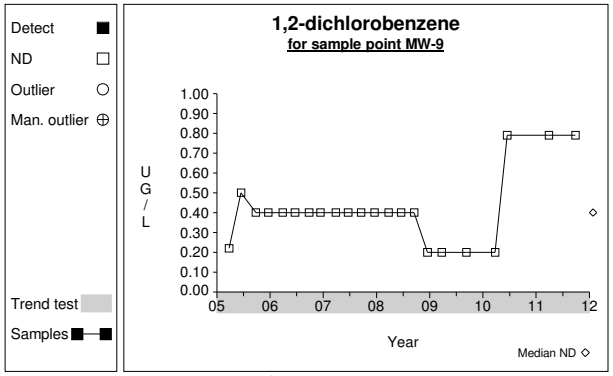
Time Series



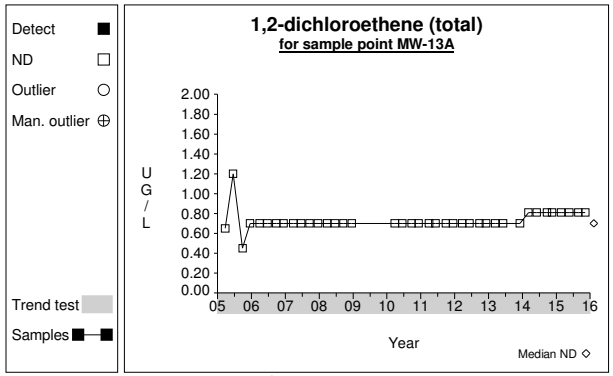
Graph 64



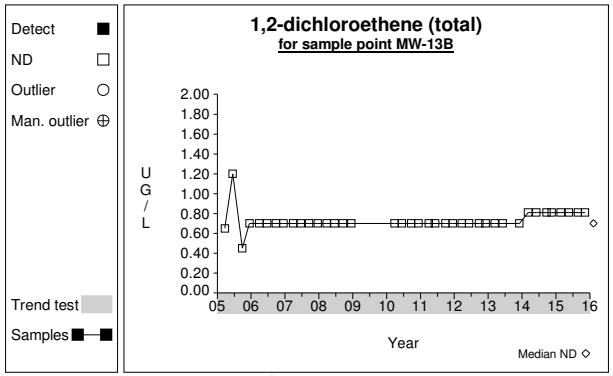
Graph 65



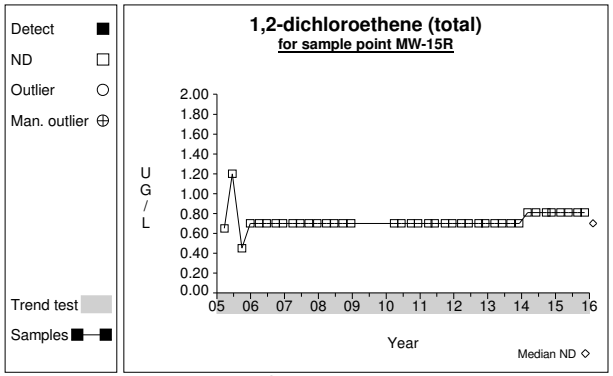
Graph 66



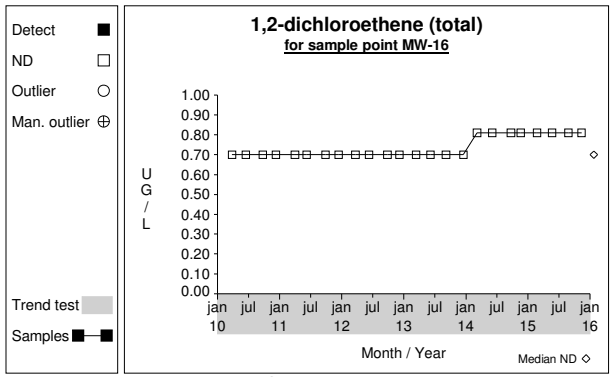
Graph 67



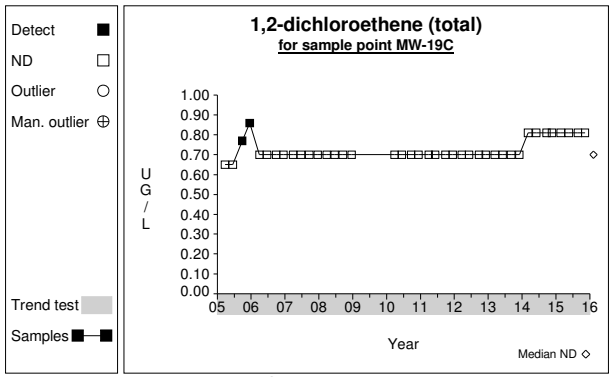
Graph 68



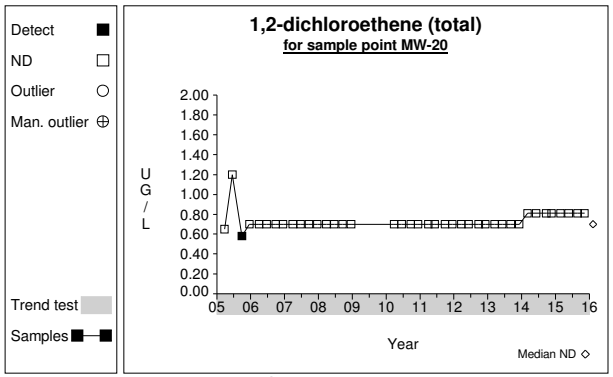
Graph 69



Graph 70

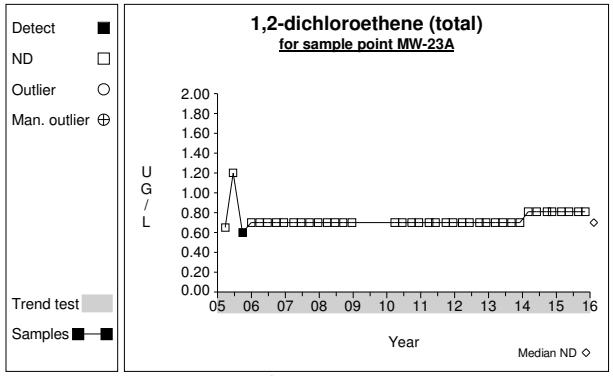


Graph 71

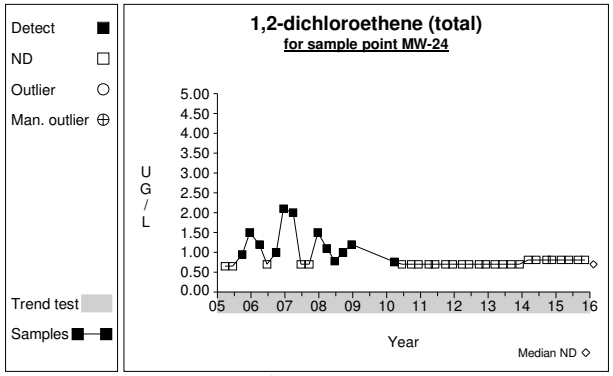


Graph 72

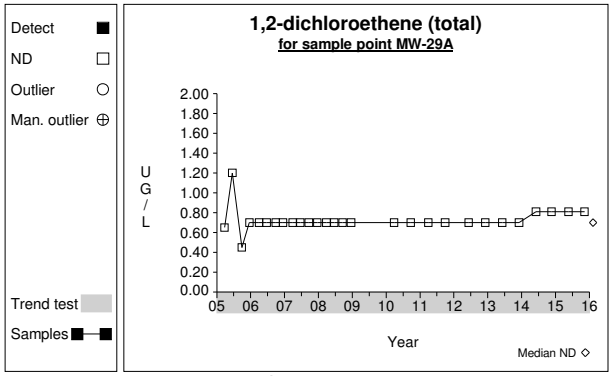
Time Series



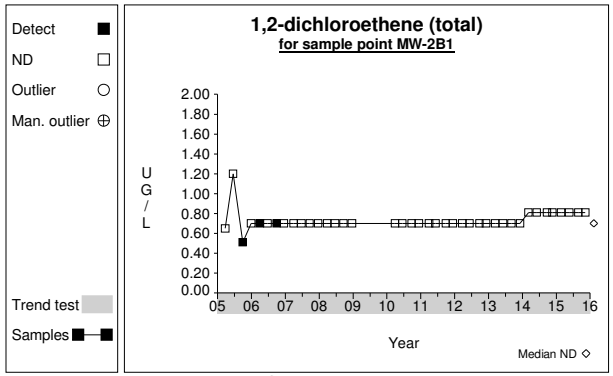
Graph 73



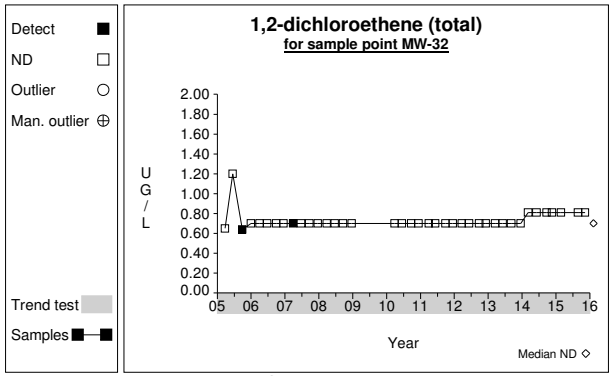
Graph 74



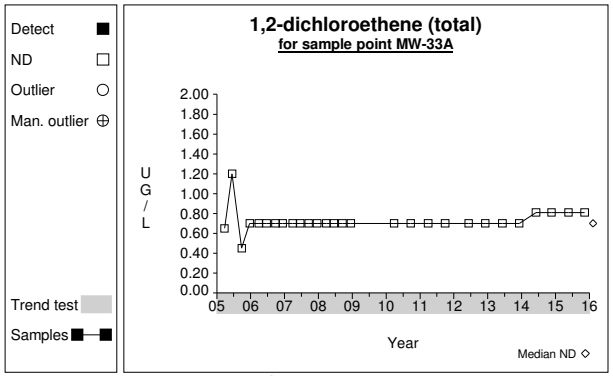
Graph 75



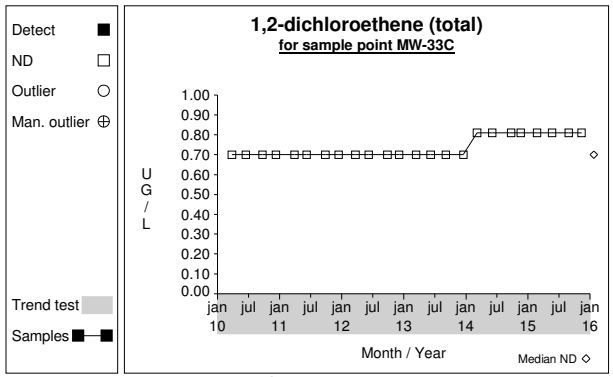
Graph 76



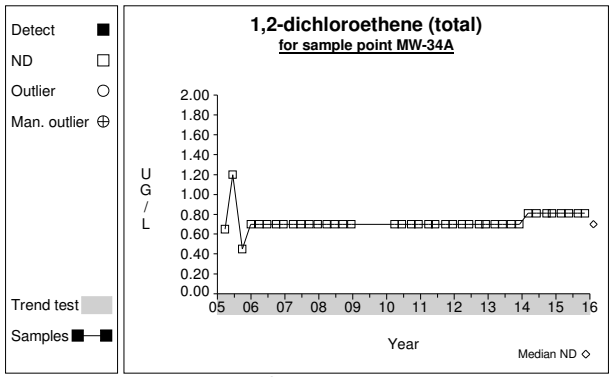
Graph 77



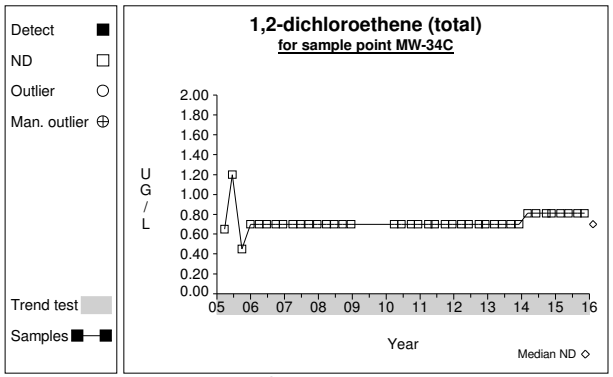
Graph 78



Graph 79

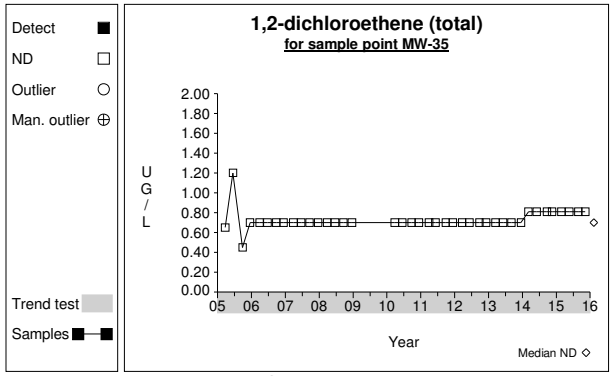


Graph 80

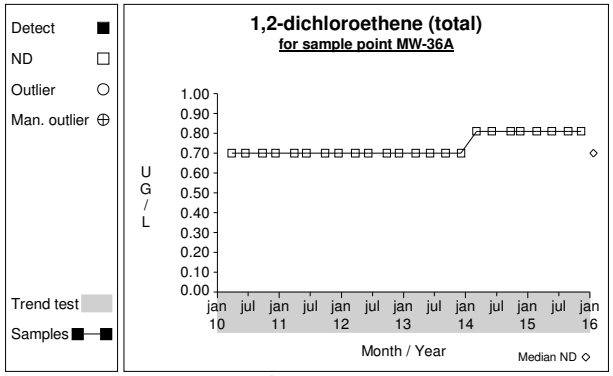


Graph 81

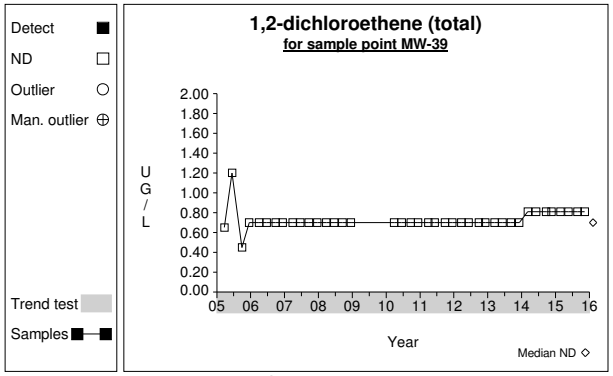
Time Series



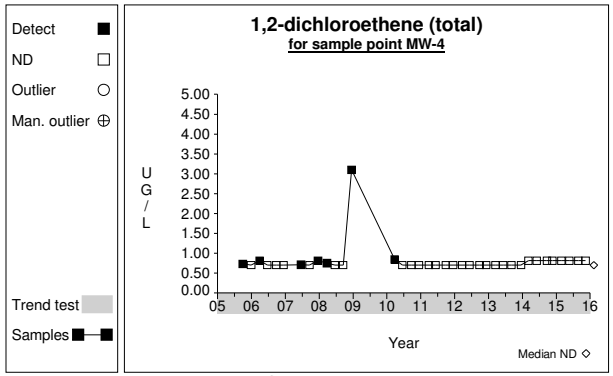
Graph 82



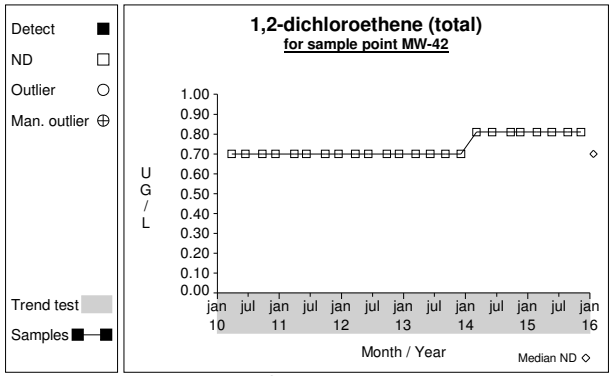
Graph 83



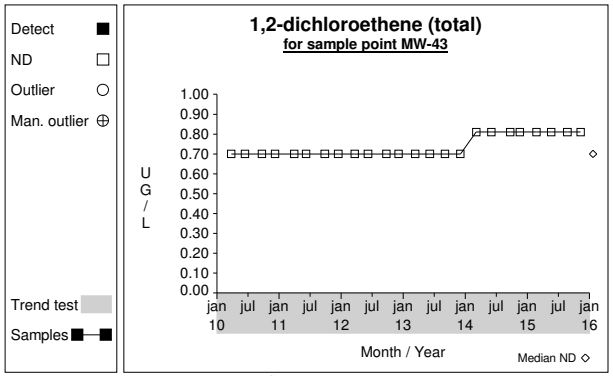
Graph 84



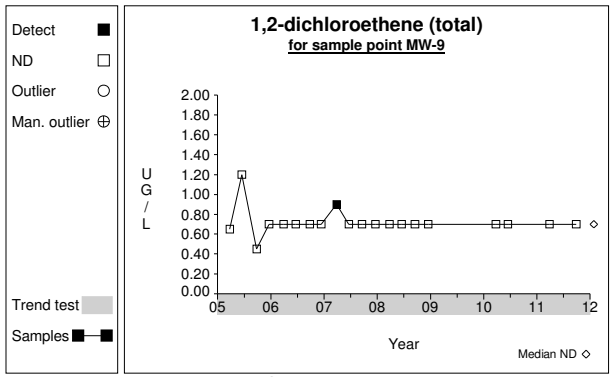
Graph 85



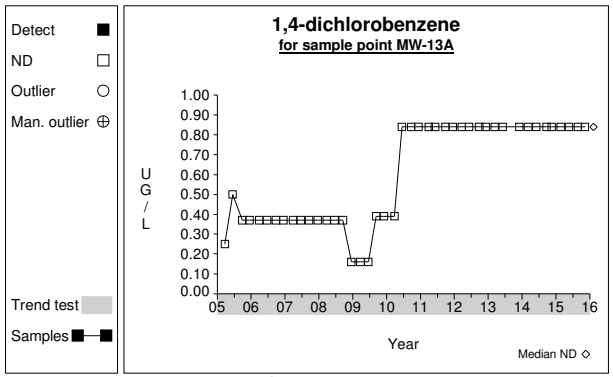
Graph 86



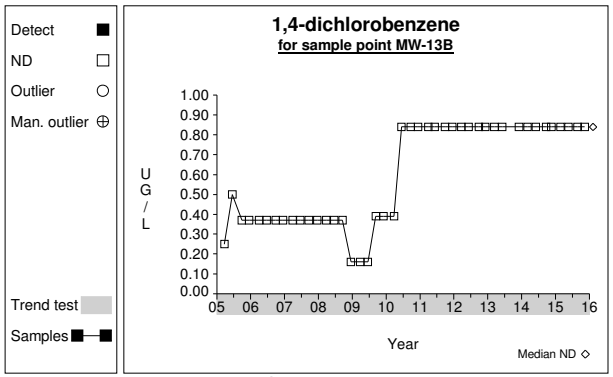
Graph 87



Graph 88

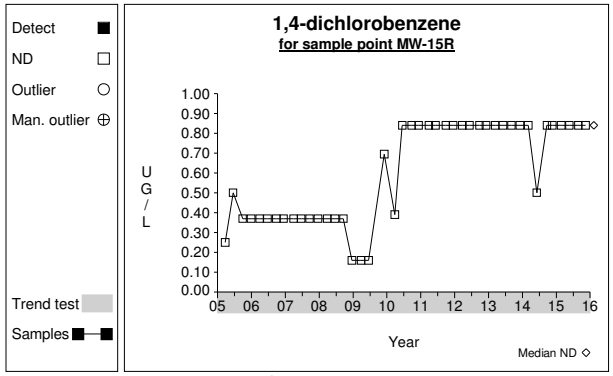


Graph 89

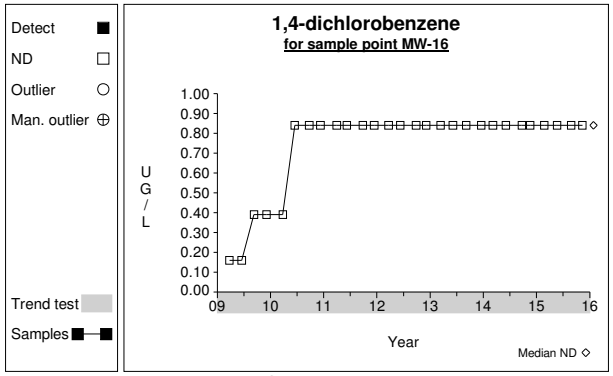


Graph 90

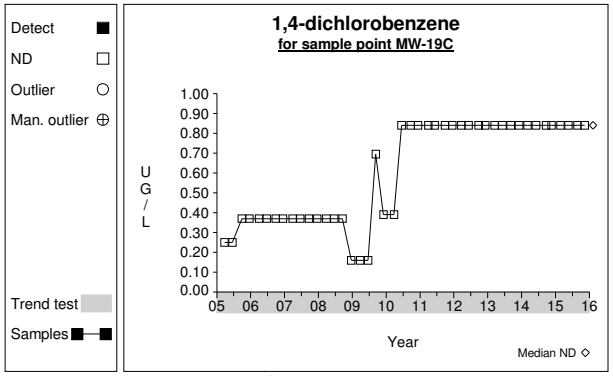
Time Series



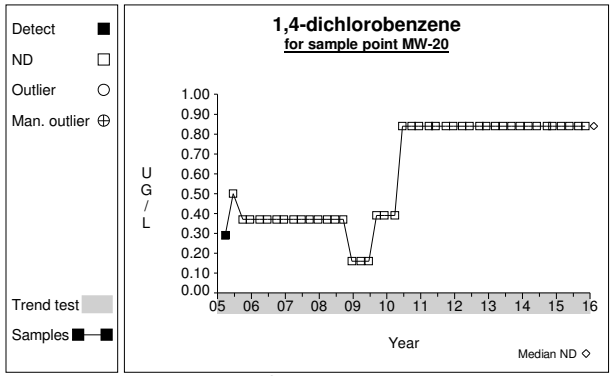
Graph 91



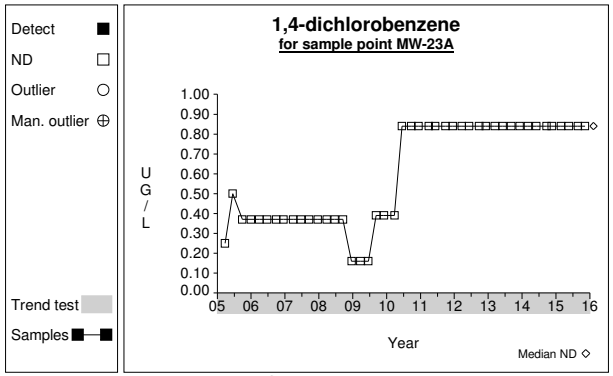
Graph 92



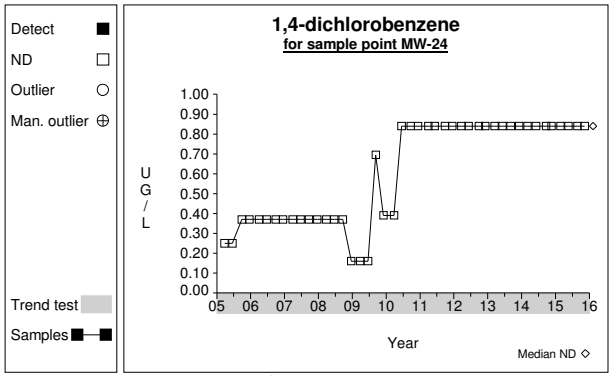
Graph 93



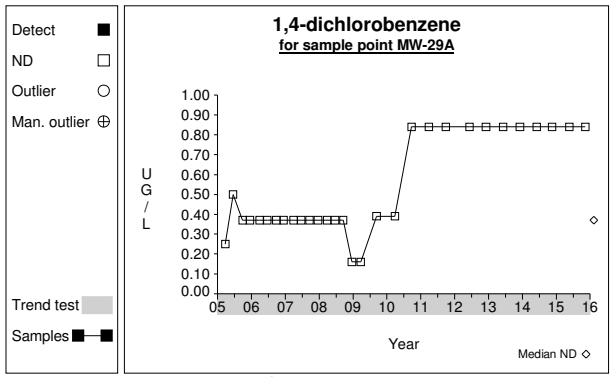
Graph 94



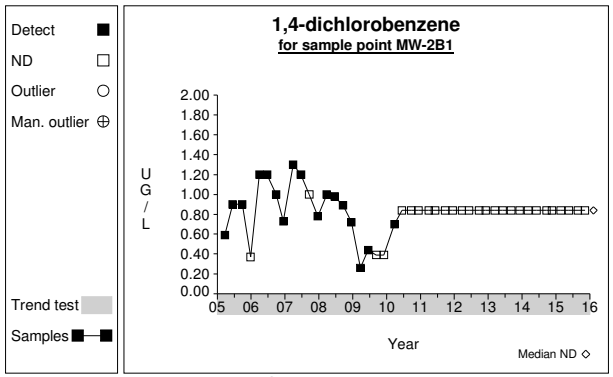
Graph 95



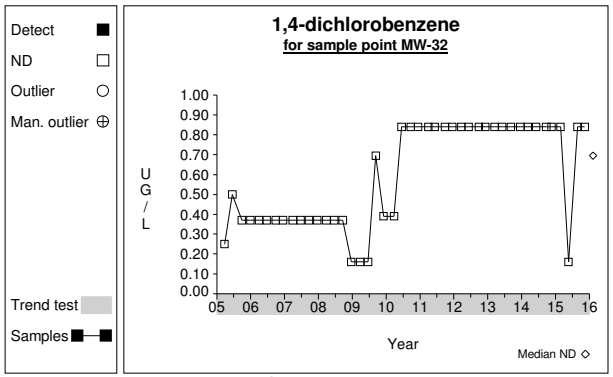
Graph 96



Graph 97

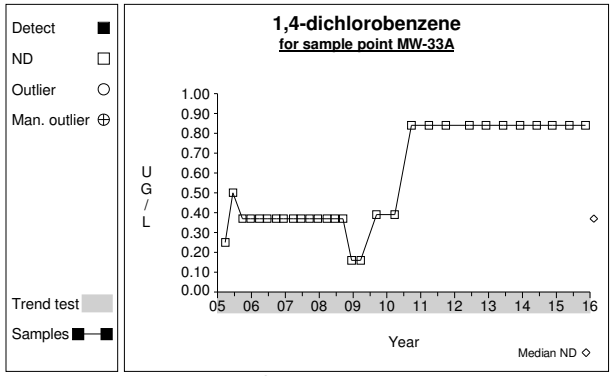


Graph 98

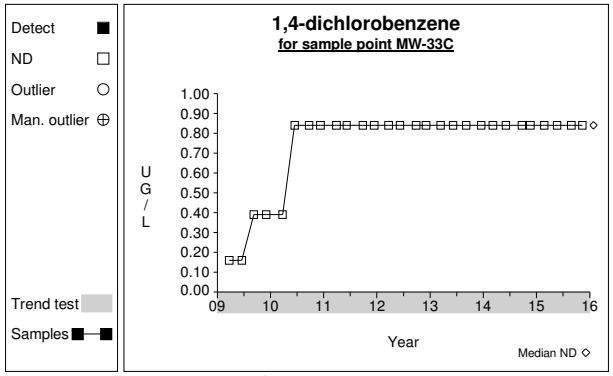


Graph 99

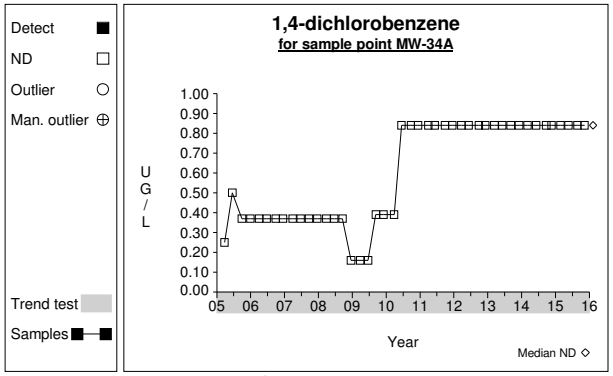
Time Series



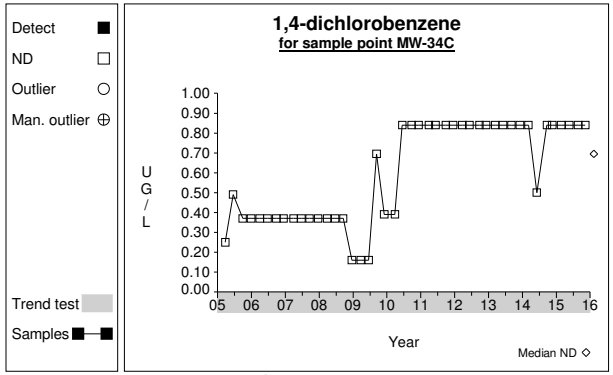
Graph 100



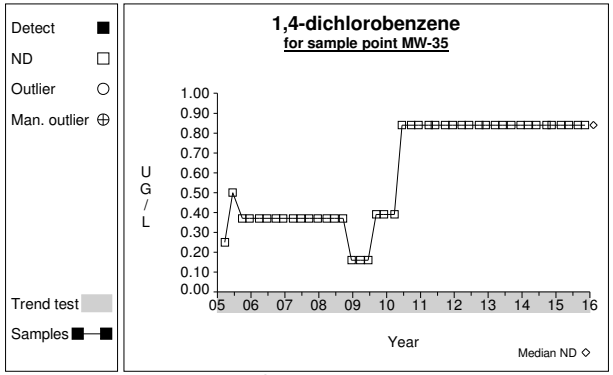
Graph 101



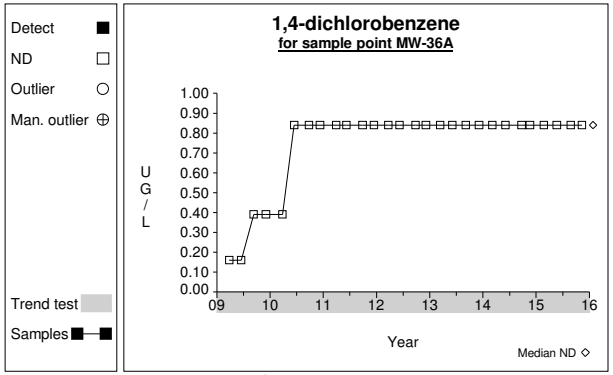
Graph 102



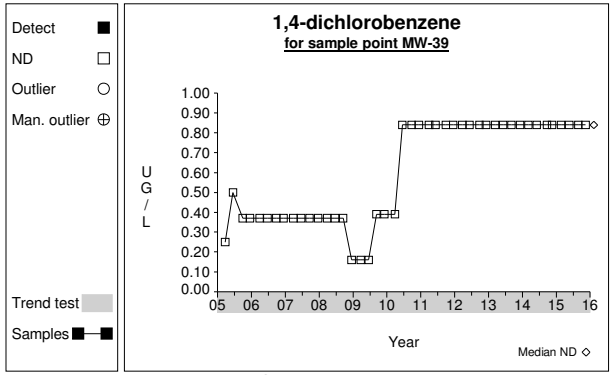
Graph 103



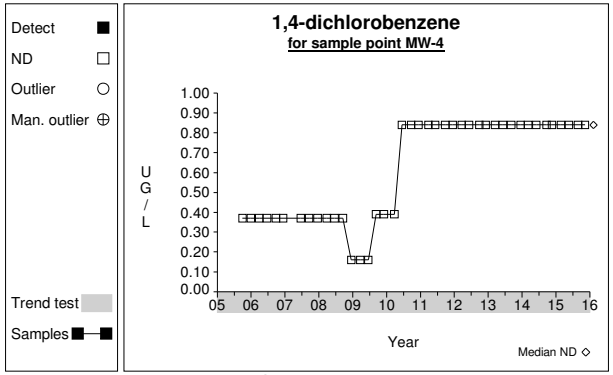
Graph 104



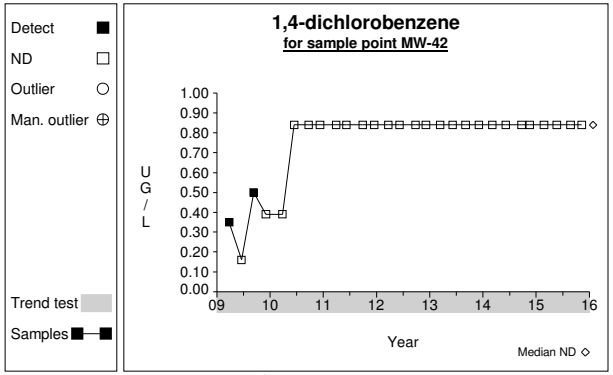
Graph 105



Graph 106

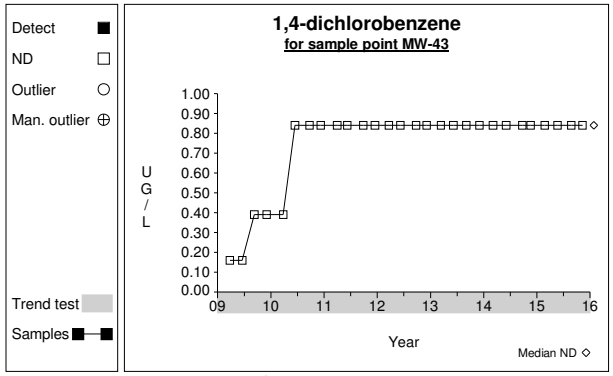


Graph 107

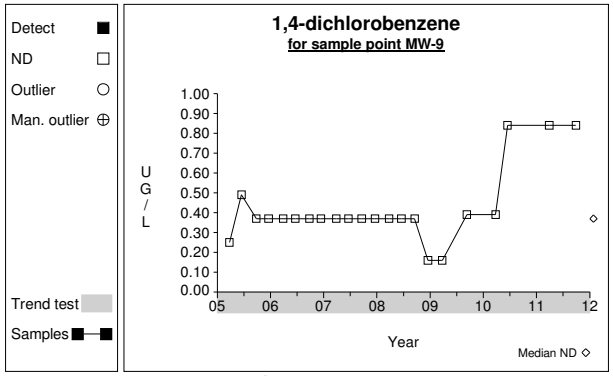


Graph 108

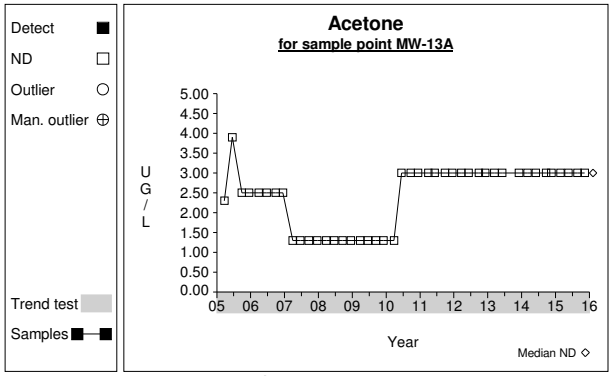
Time Series



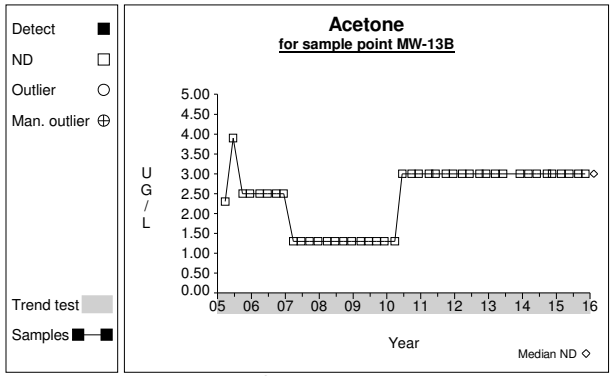
Graph 109



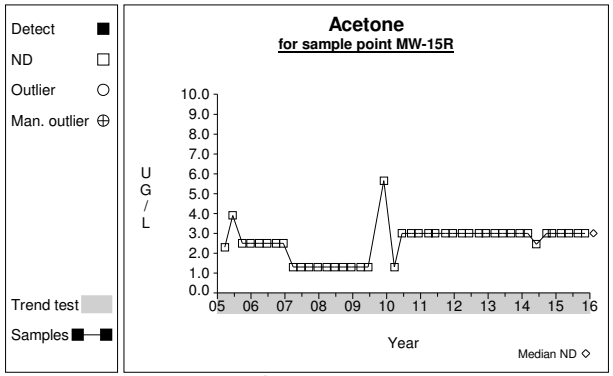
Graph 110



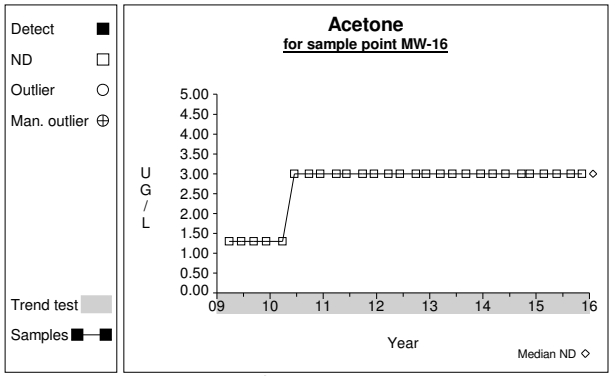
Graph 111



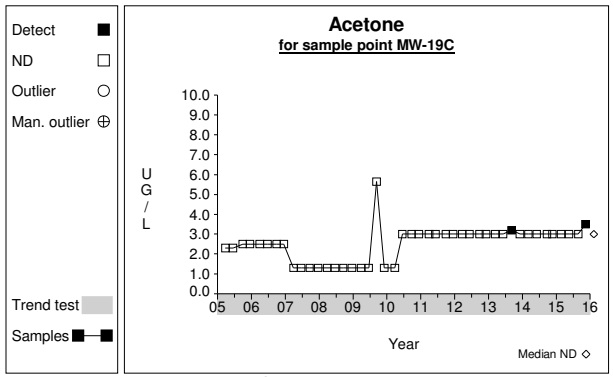
Graph 112



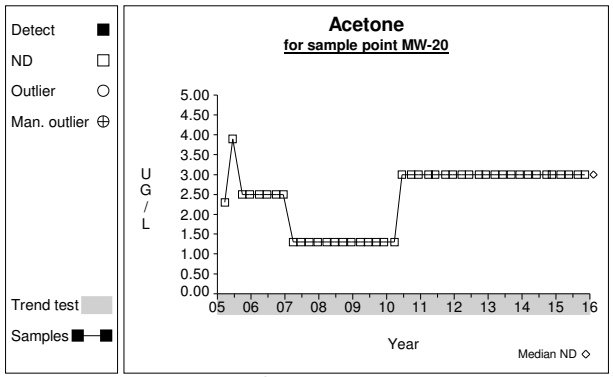
Graph 113



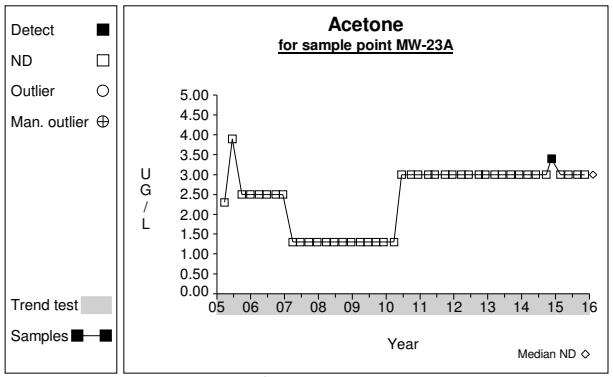
Graph 114



Graph 115

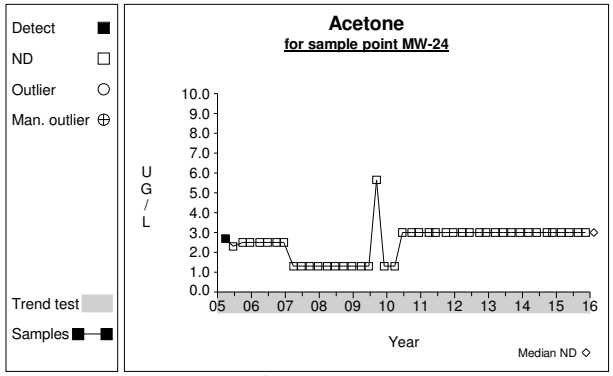


Graph 116

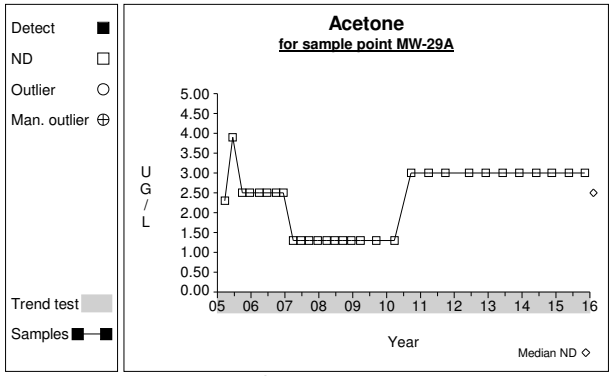


Graph 117

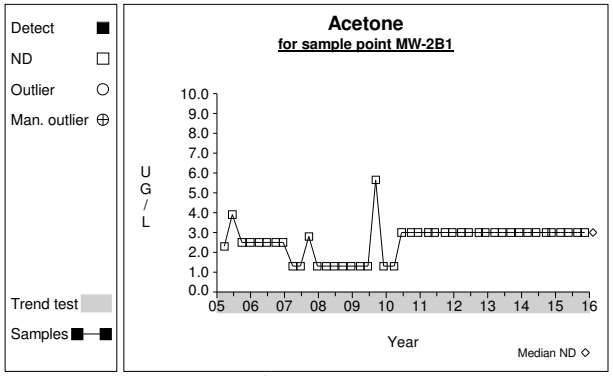
Time Series



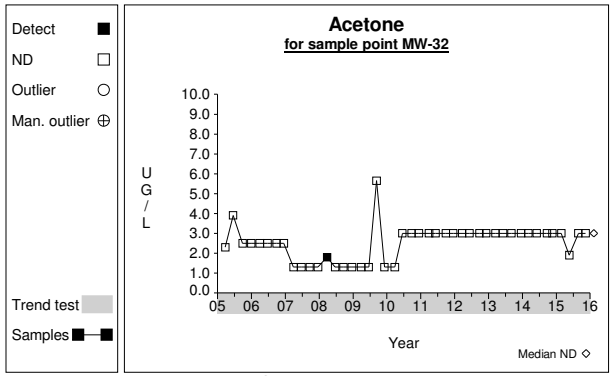
Graph 118



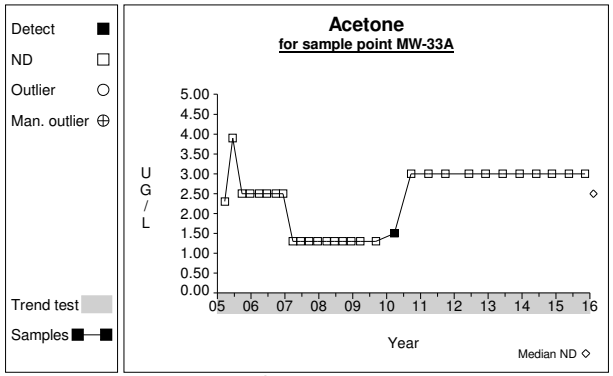
Graph 119



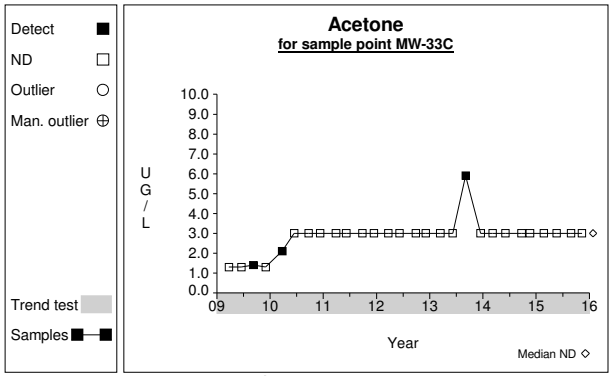
Graph 120



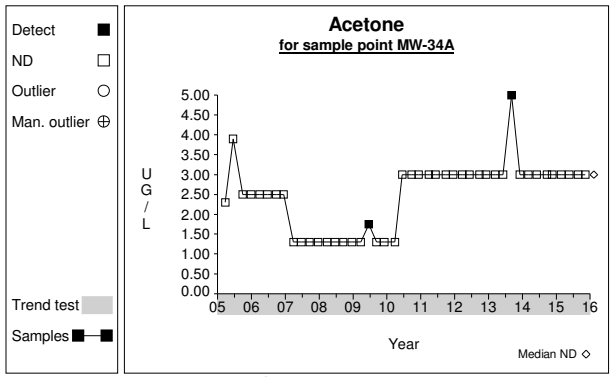
Graph 121



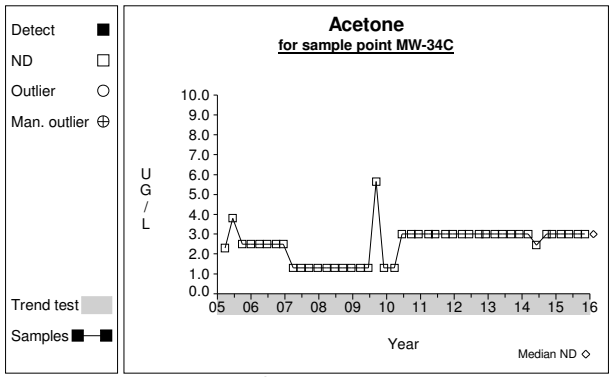
Graph 122



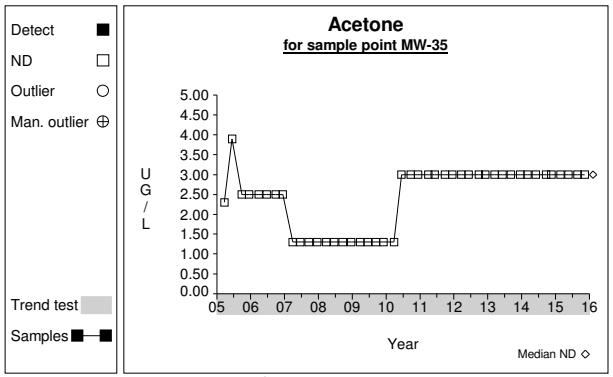
Graph 123



Graph 124

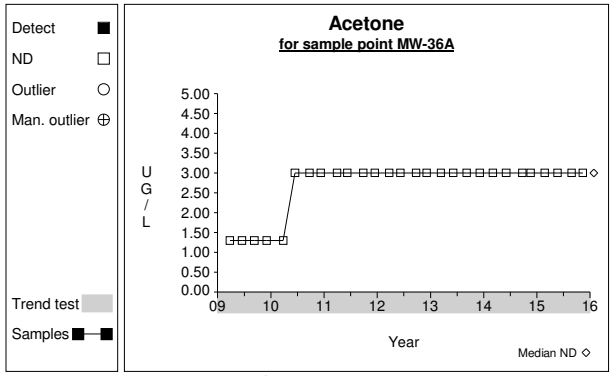


Graph 125

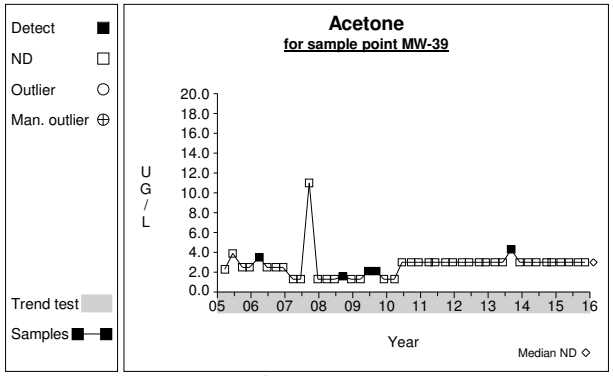


Graph 126

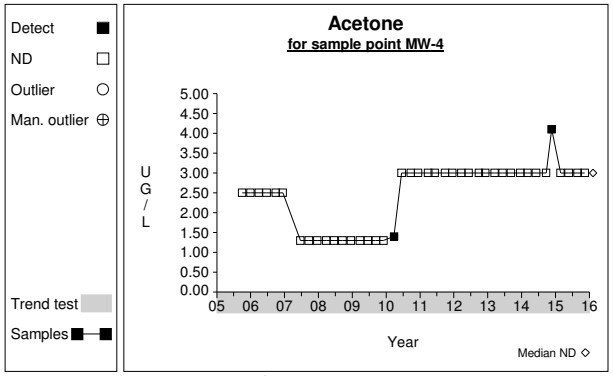
Time Series



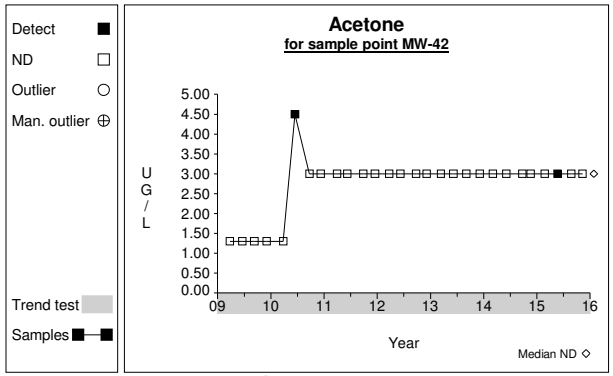
Graph 127



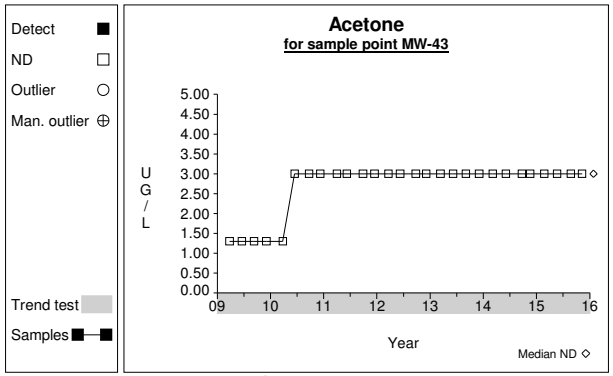
Graph 128



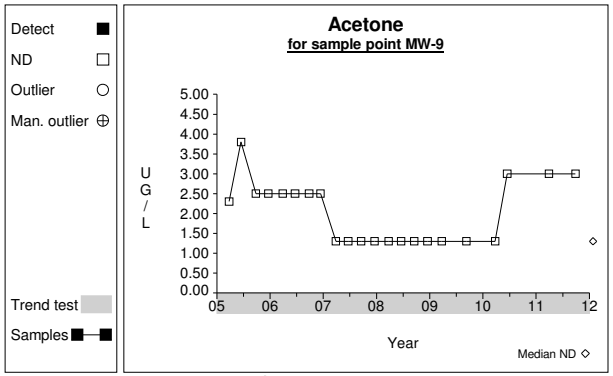
Graph 129



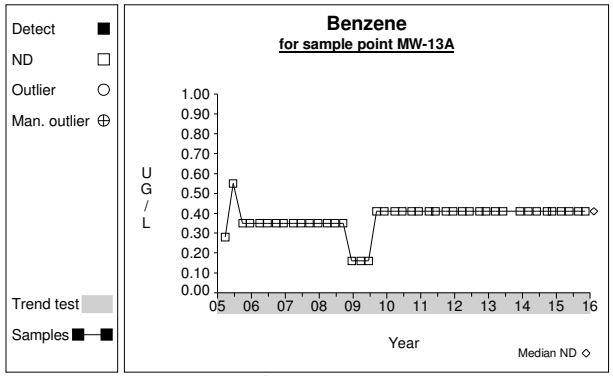
Graph 130



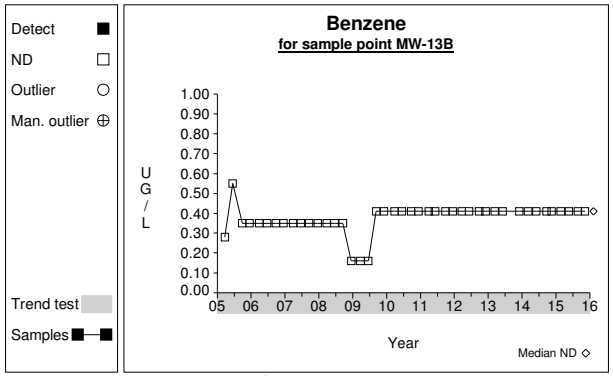
Graph 131



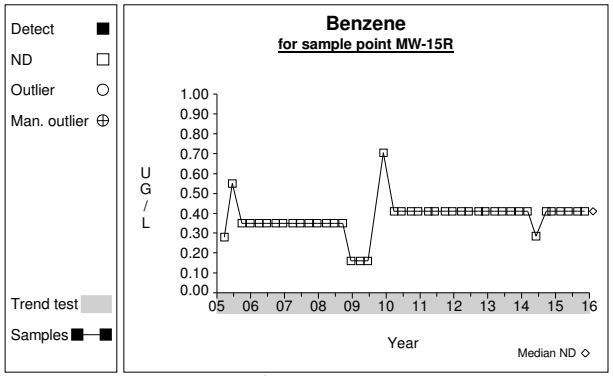
Graph 132



Graph 133

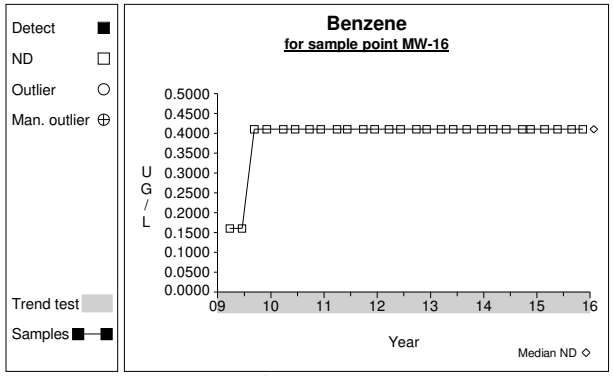


Graph 134

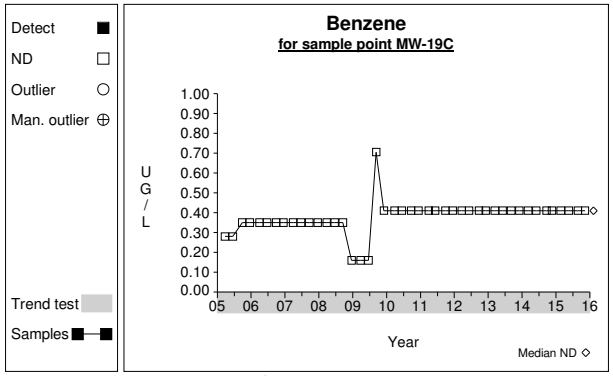


Graph 135

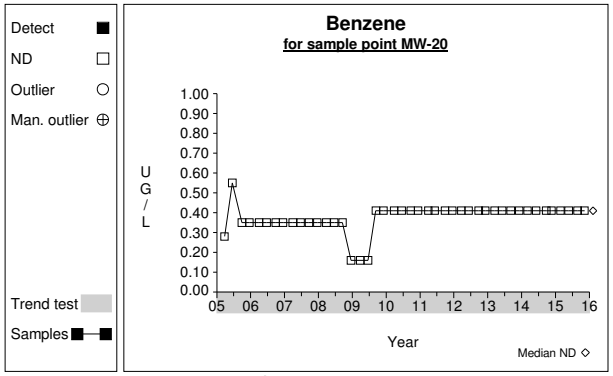
Time Series



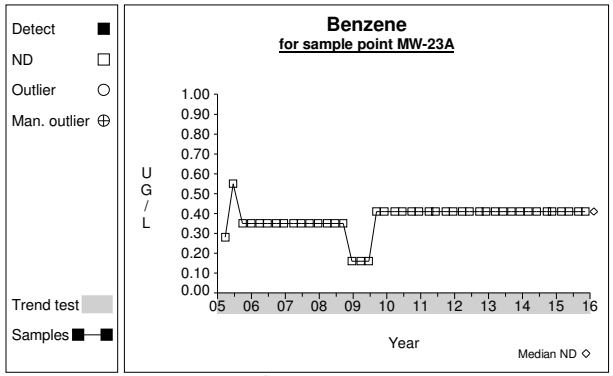
Graph 136



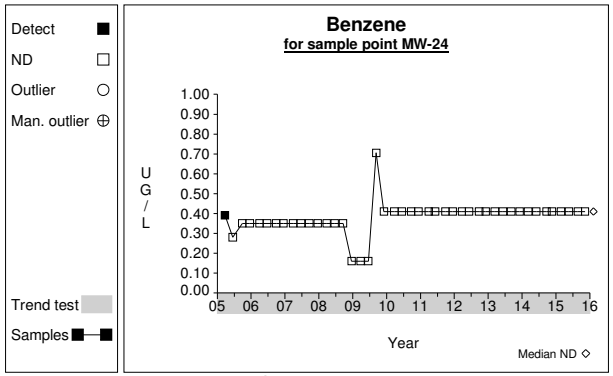
Graph 137



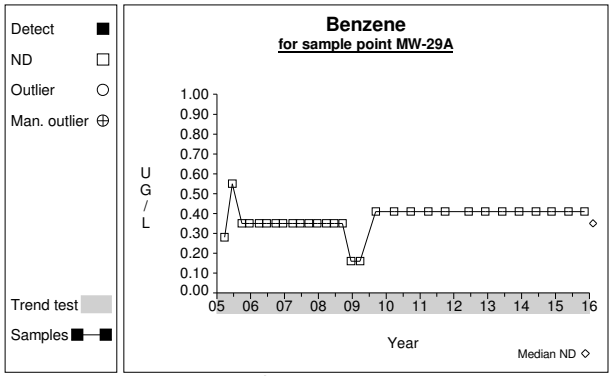
Graph 138



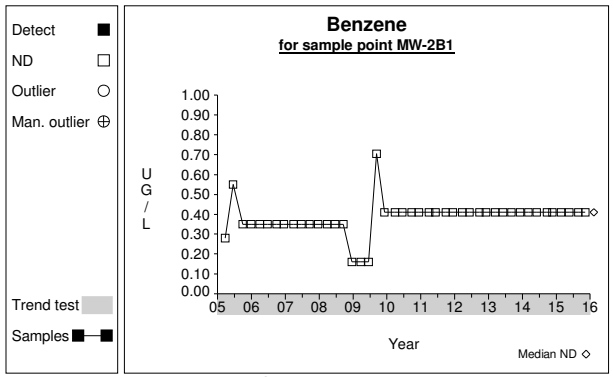
Graph 139



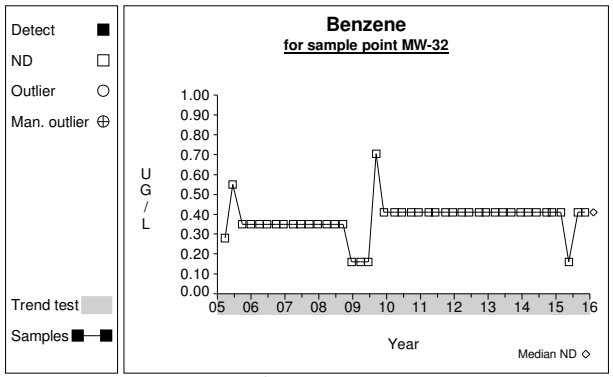
Graph 140



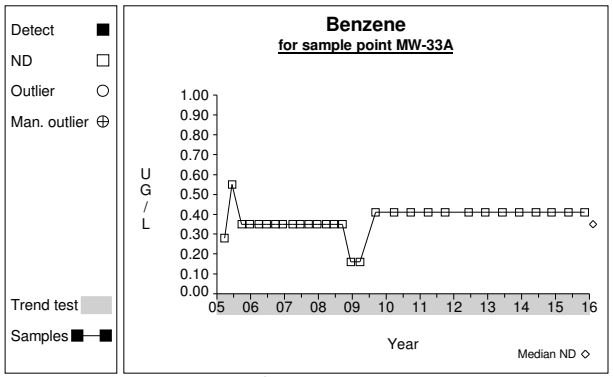
Graph 141



Graph 142

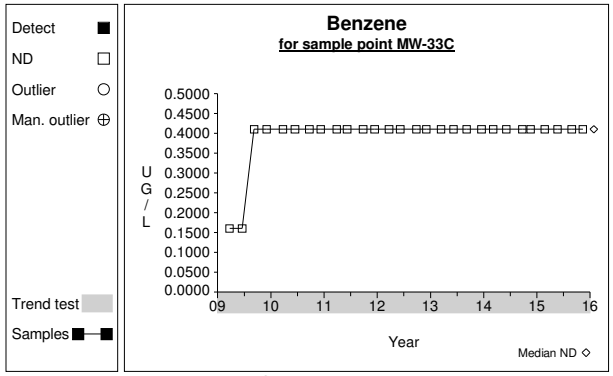


Graph 143

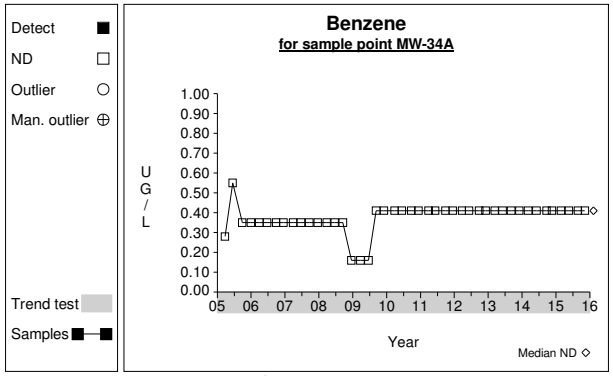


Graph 144

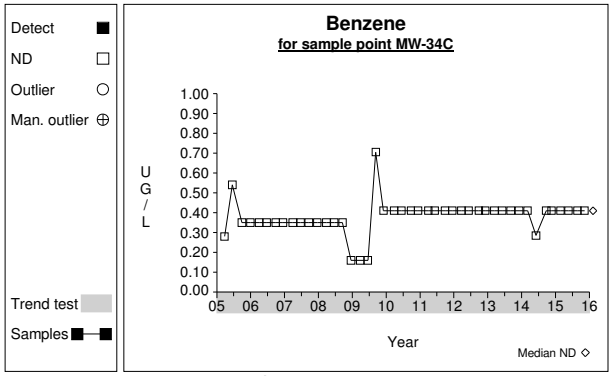
Time Series



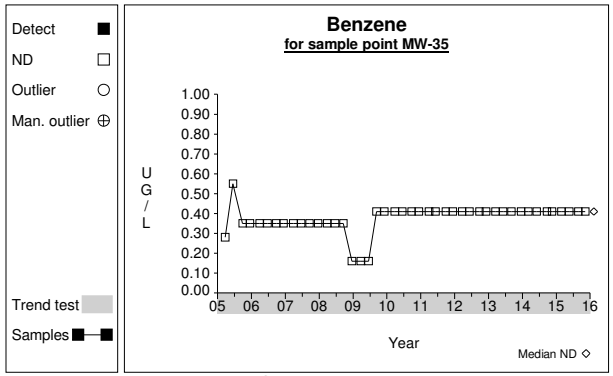
Graph 145



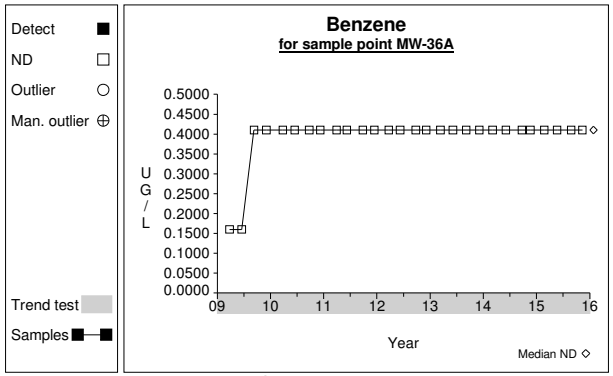
Graph 146



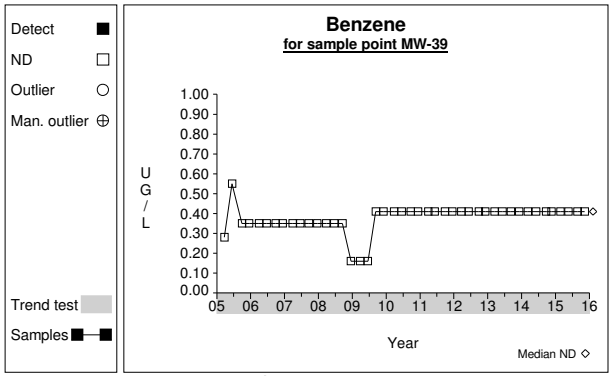
Graph 147



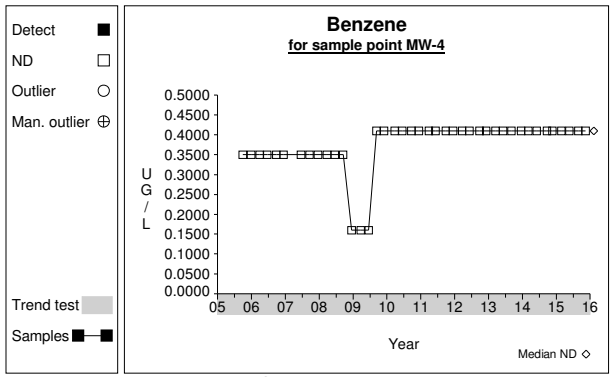
Graph 148



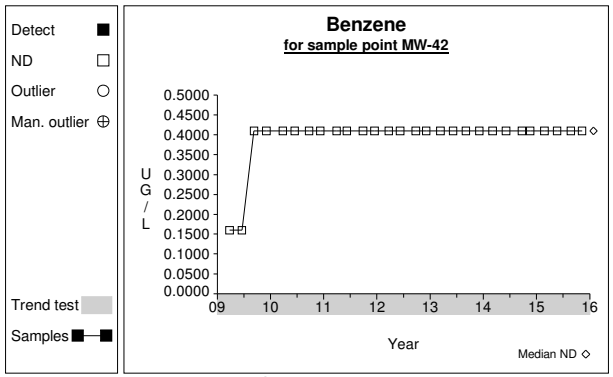
Graph 149



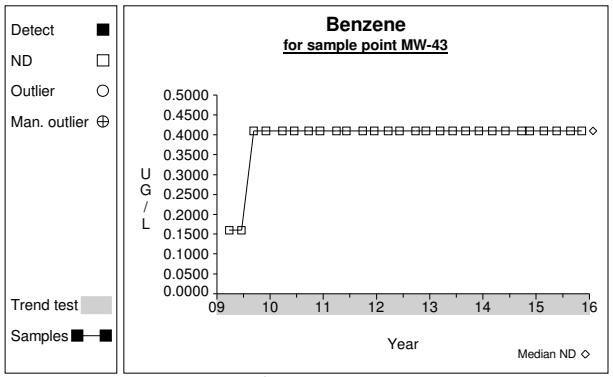
Graph 150



Graph 151

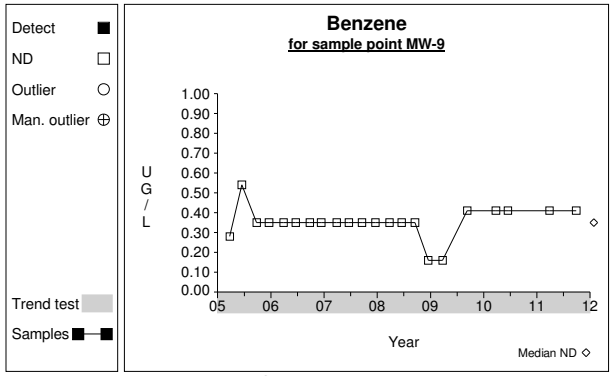


Graph 152

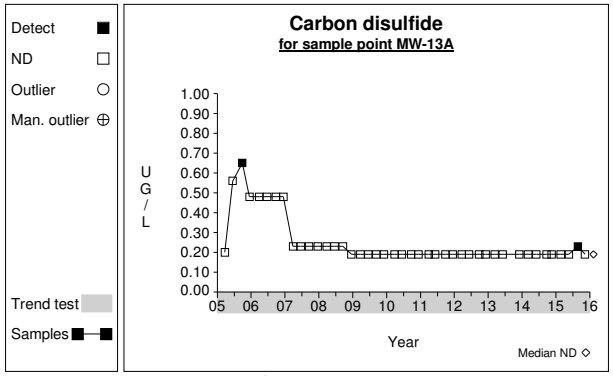


Graph 153

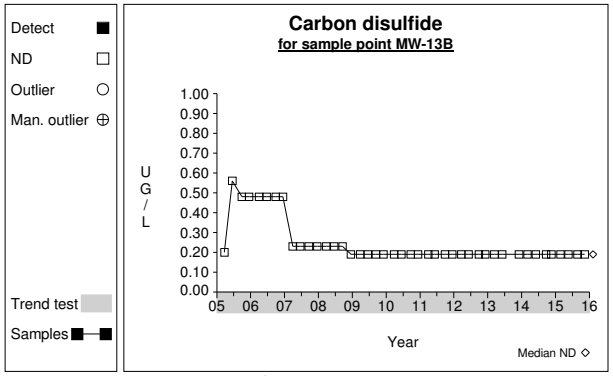
Time Series



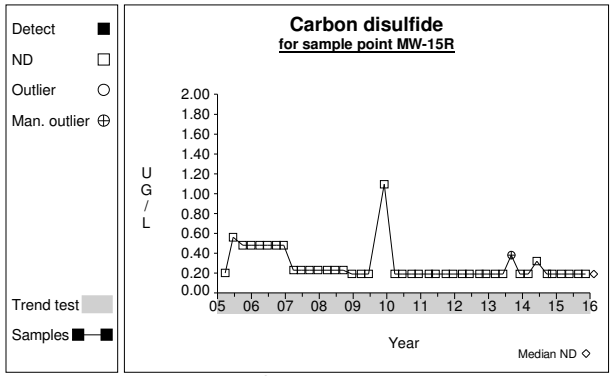
Graph 154



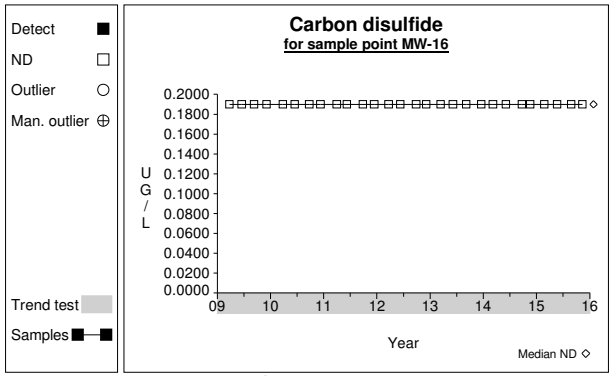
Graph 155



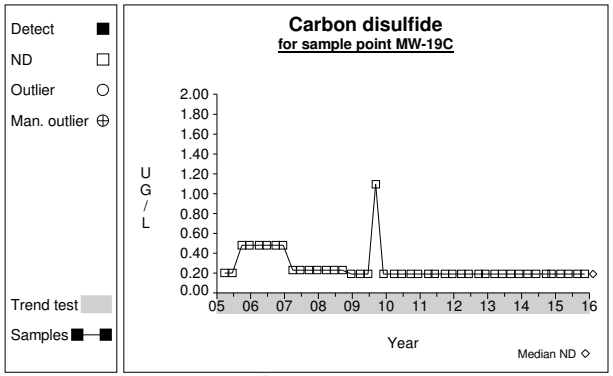
Graph 156



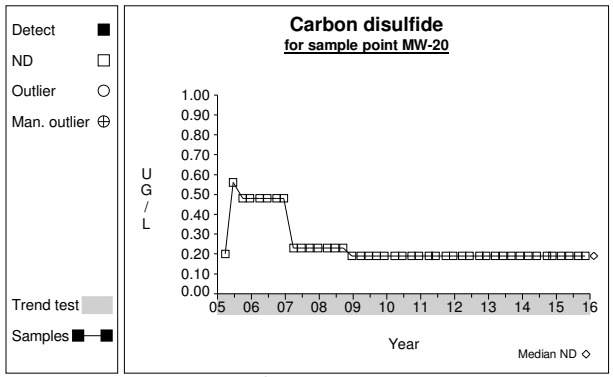
Graph 157



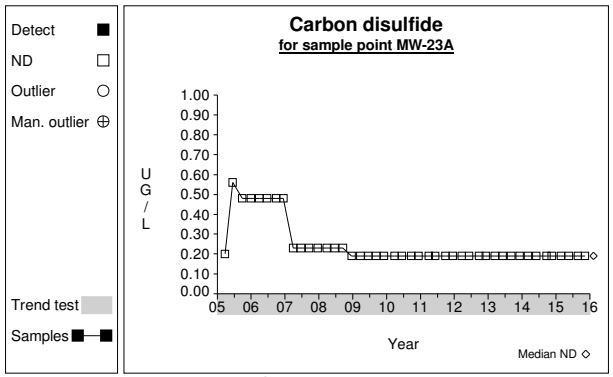
Graph 158



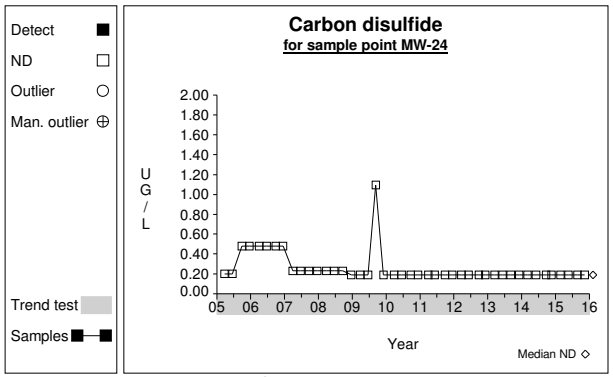
Graph 159



Graph 160

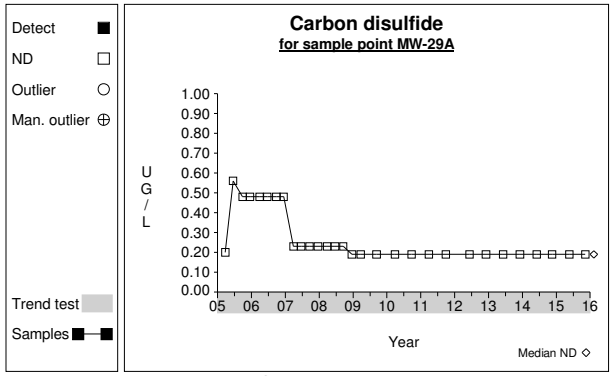


Graph 161

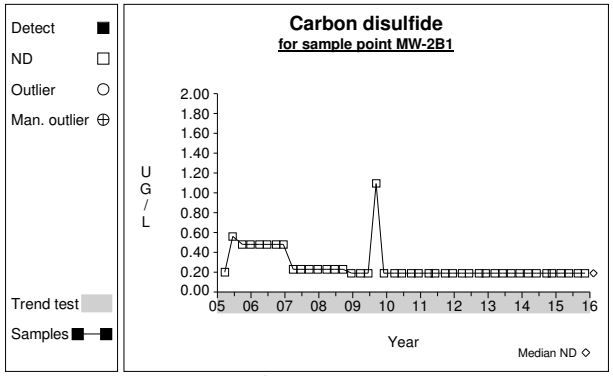


Graph 162

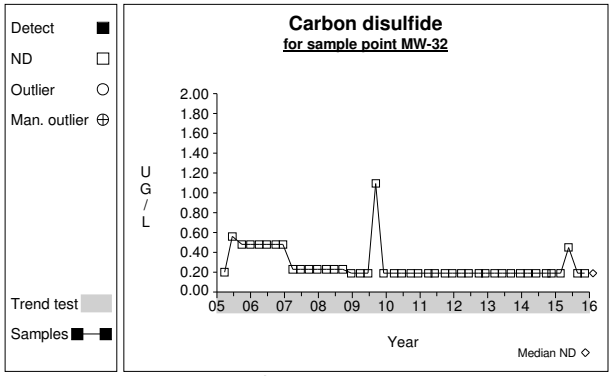
Time Series



Graph 163



Graph 164



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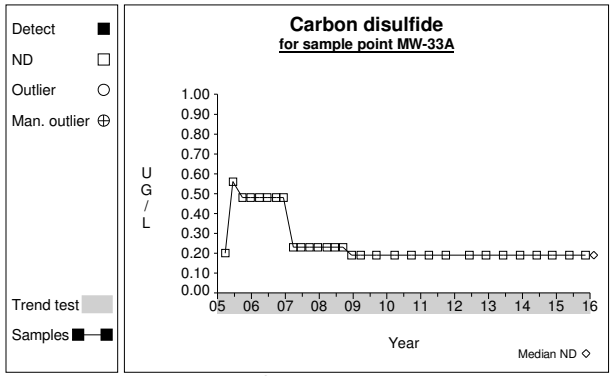
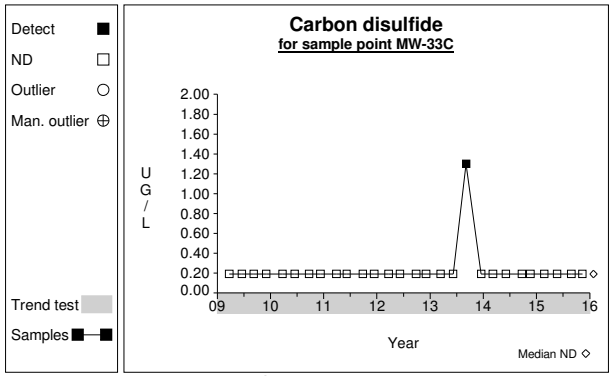
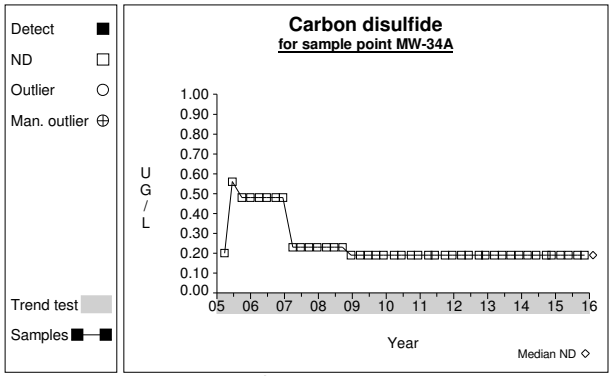


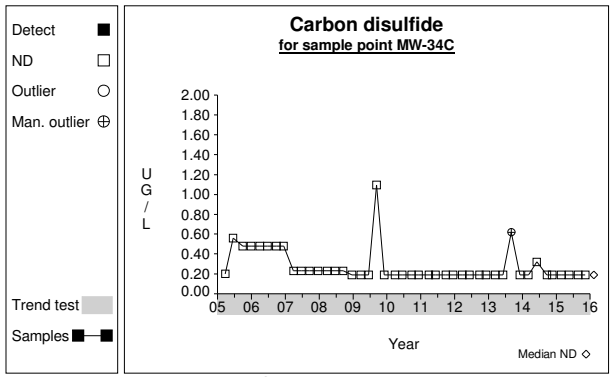
Graph 166



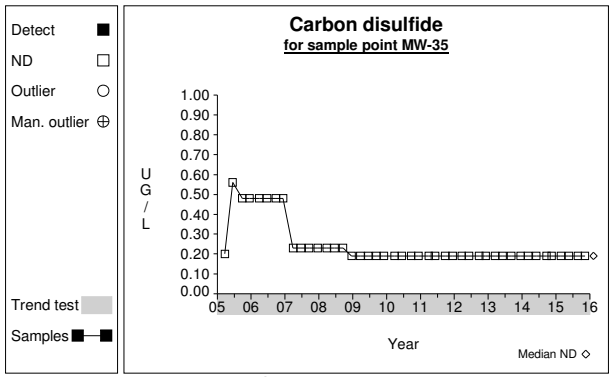
Graph 167



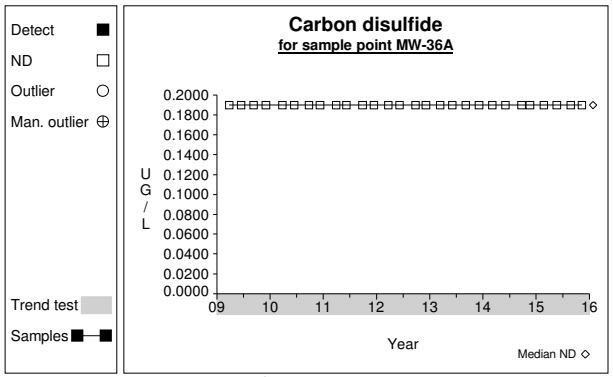
Graph 168



Graph 169

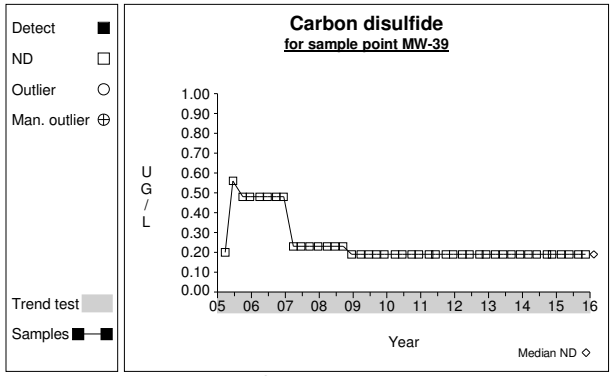


Graph 170

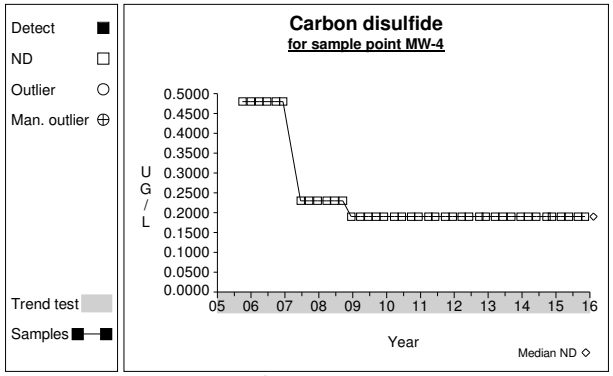


Graph 171

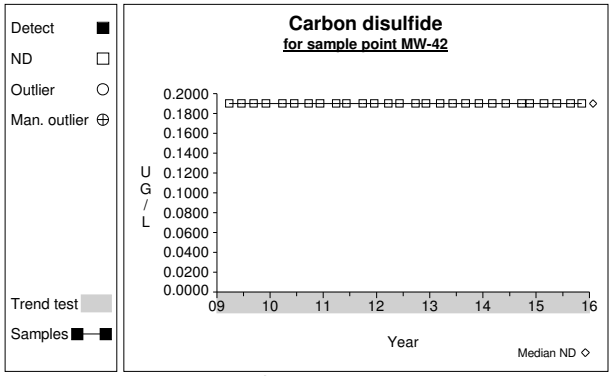
Time Series



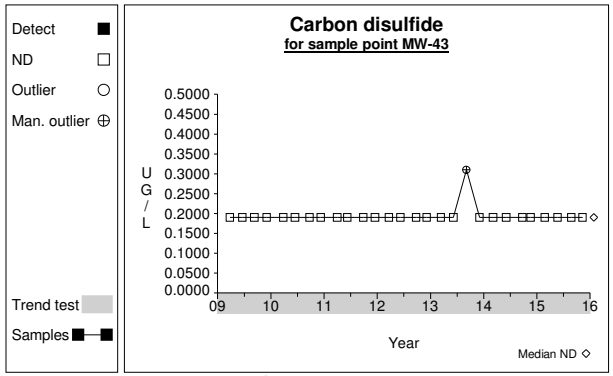
Graph 172



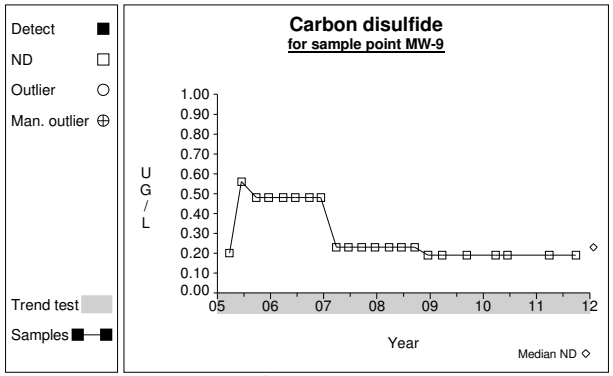
Graph 173



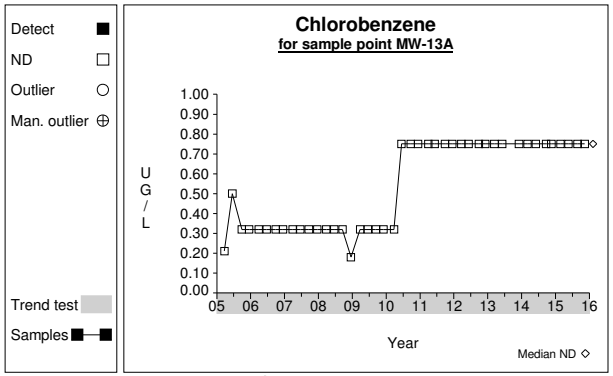
Graph 174



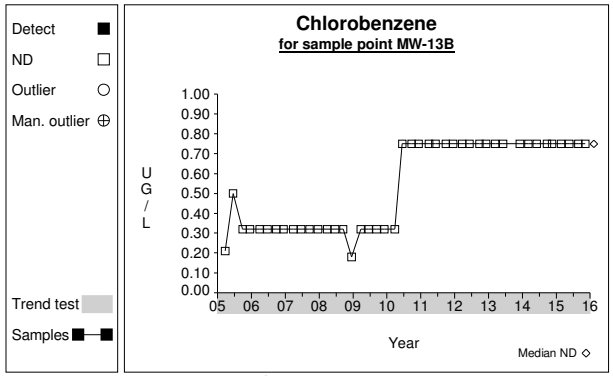
Graph 175



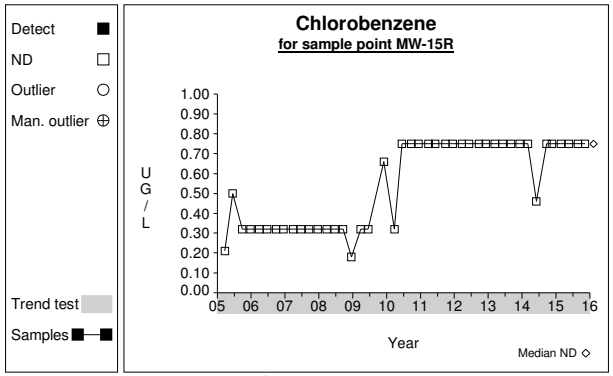
Graph 176



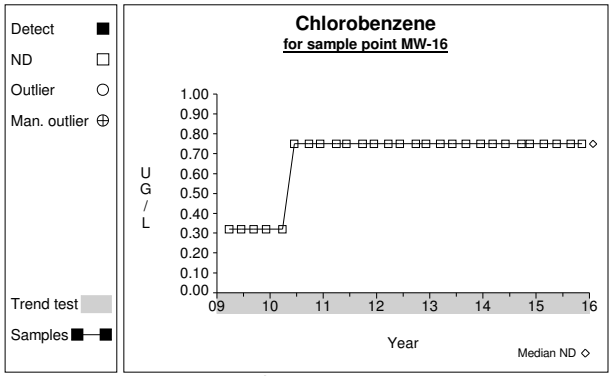
Graph 177



Graph 178

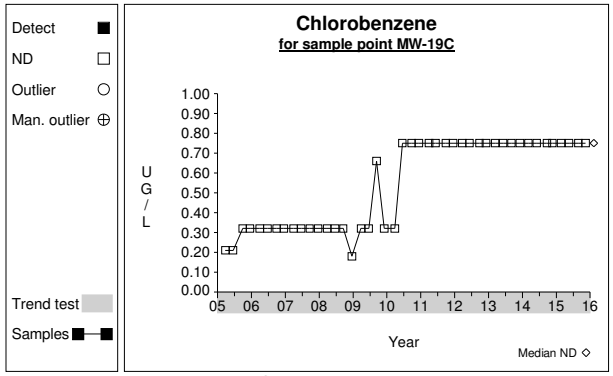


Graph 179

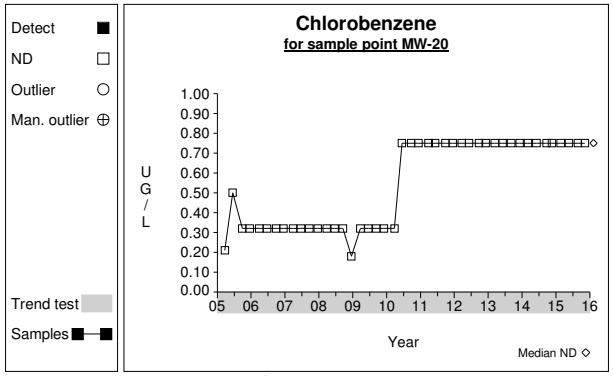


Graph 180

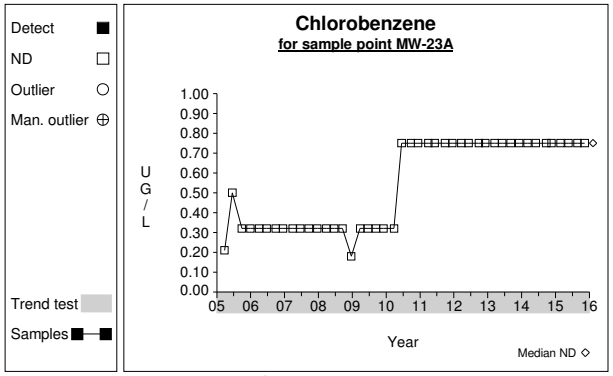
Time Series



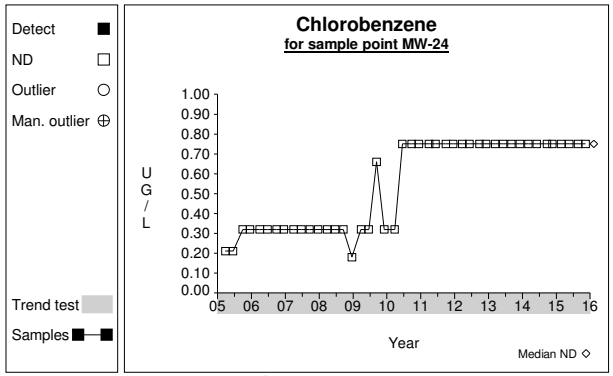
Graph 181



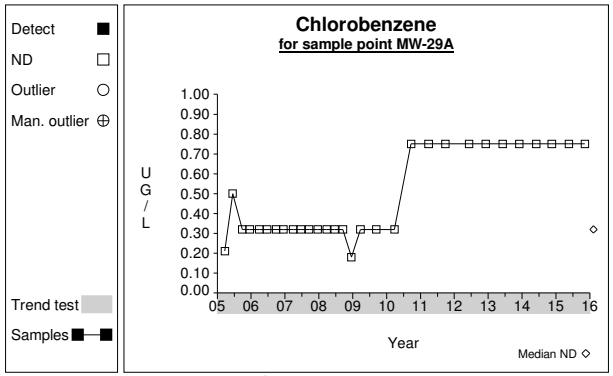
Graph 182



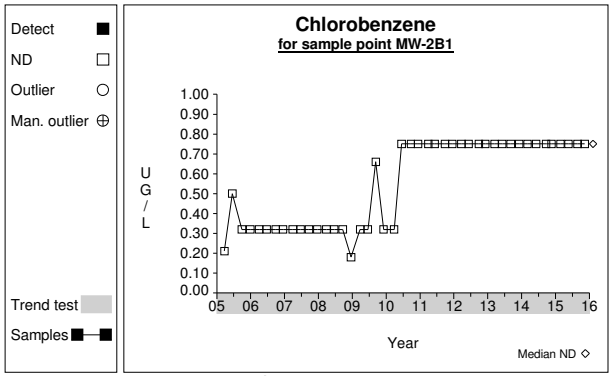
Graph 183



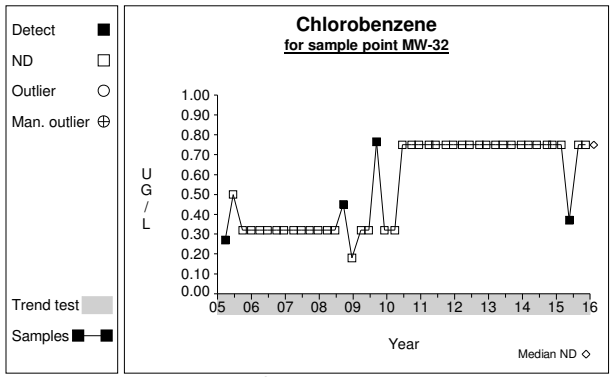
Graph 184



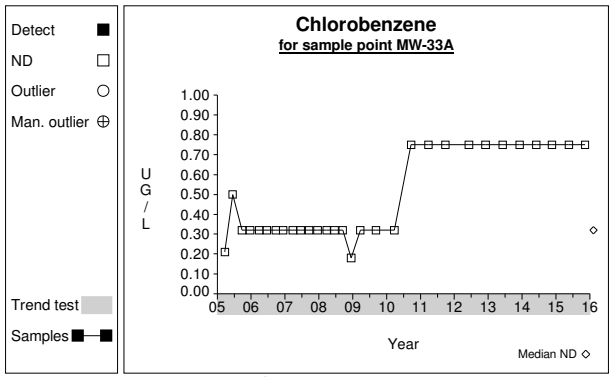
Graph 185



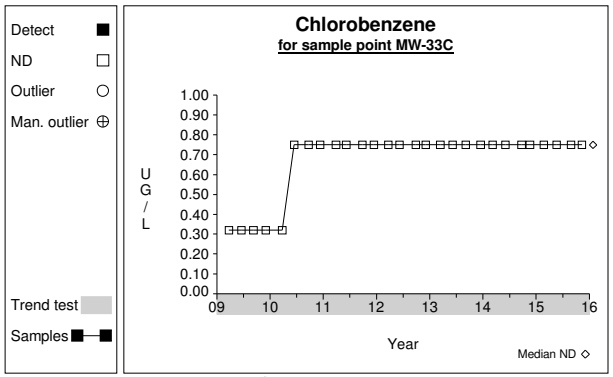
Graph 186



Graph 187

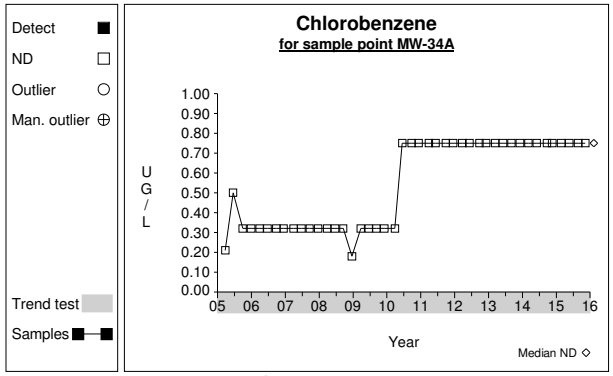


Graph 188

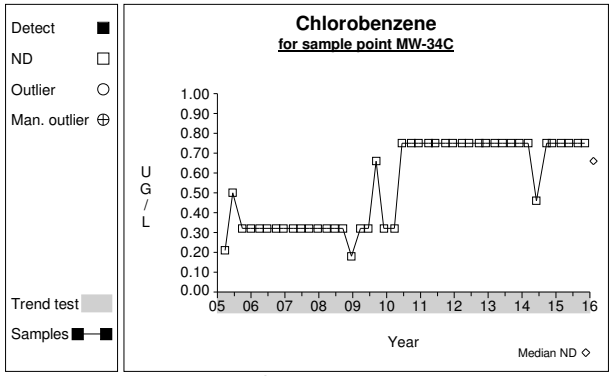


Graph 189

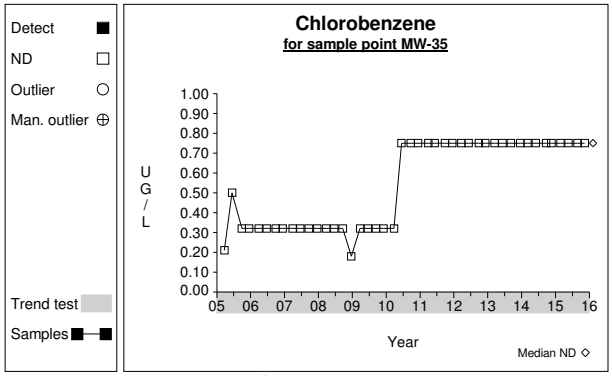
Time Series



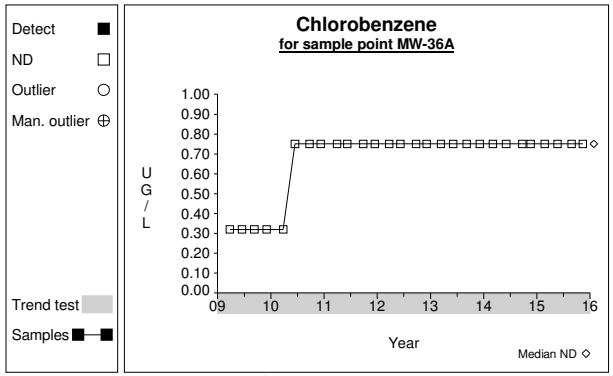
Graph 190



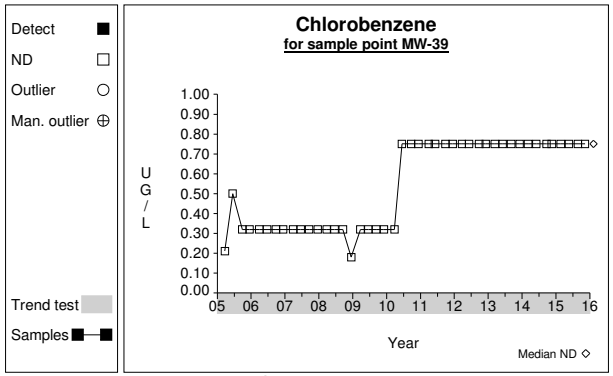
Graph 191



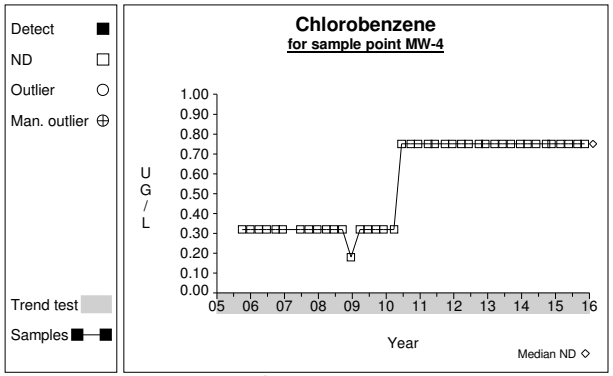
Graph 192



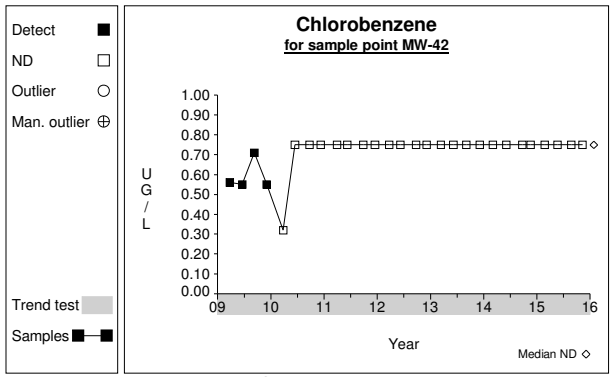
Graph 193



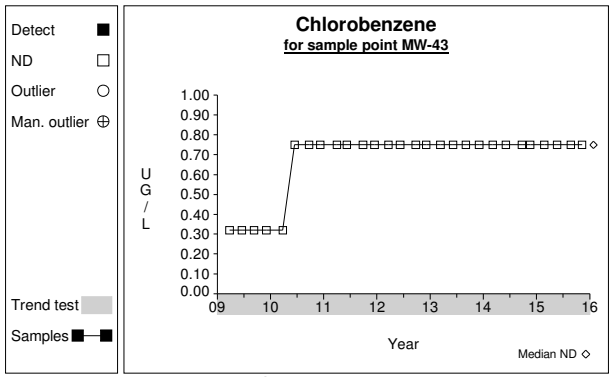
Graph 194



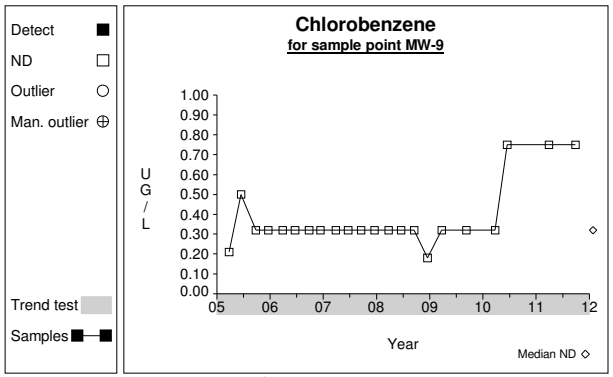
Graph 195



Graph 196

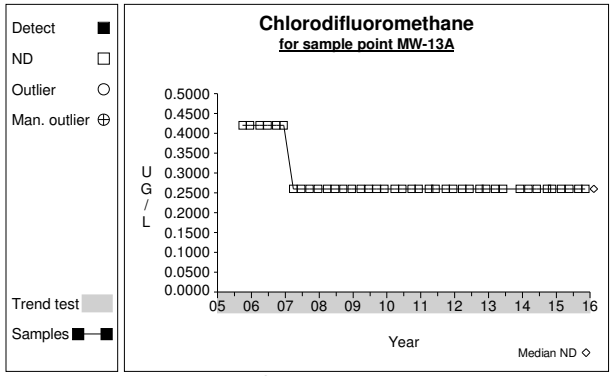


Graph 197

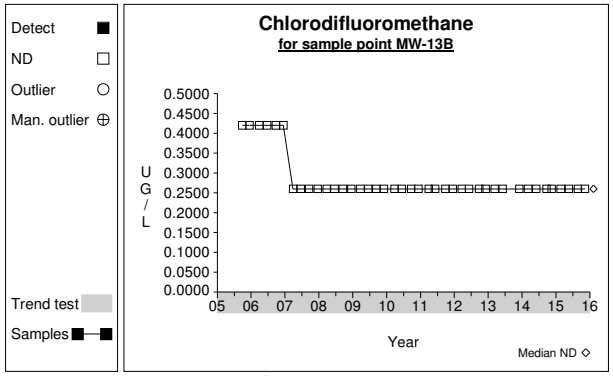


Graph 198

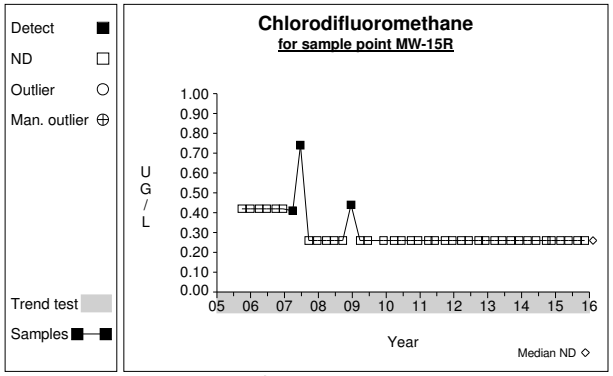
Time Series



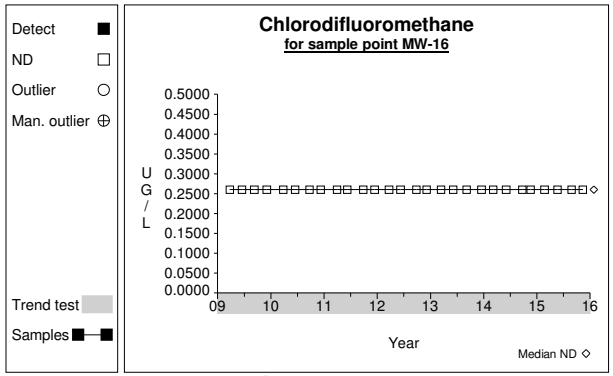
Graph 199



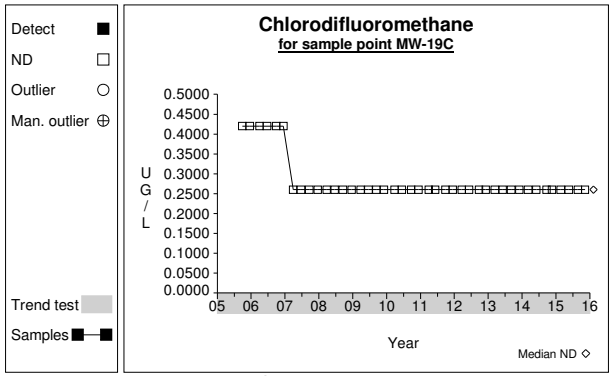
Graph 200



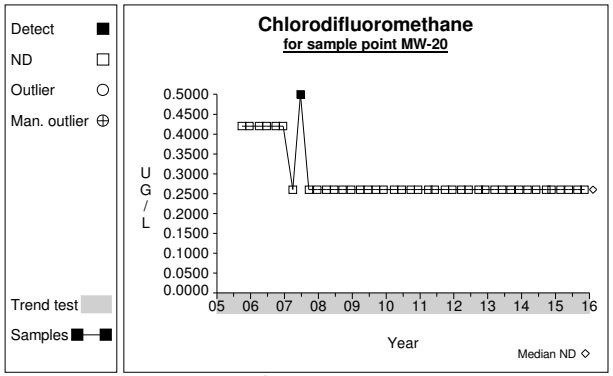
Graph 201



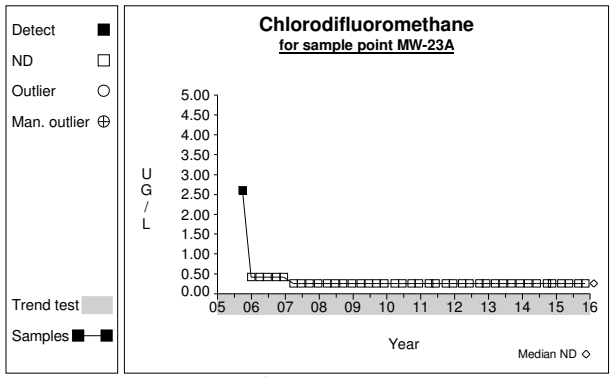
Graph 202



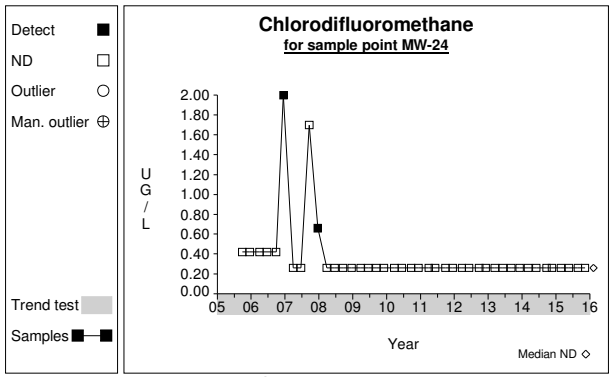
Graph 203



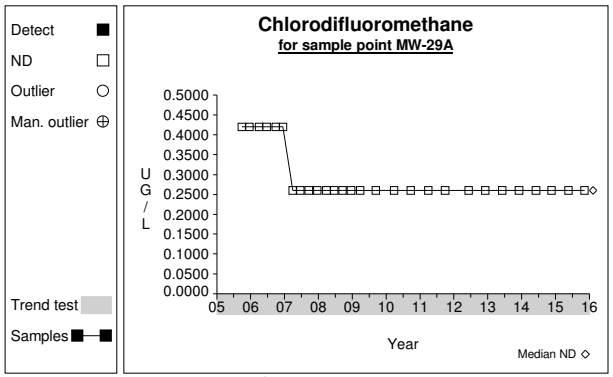
Graph 204



Graph 205

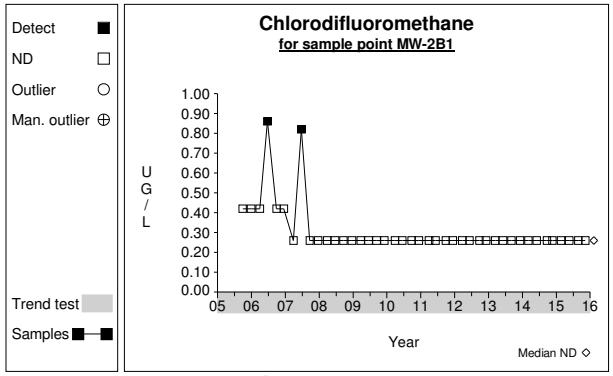


Graph 206

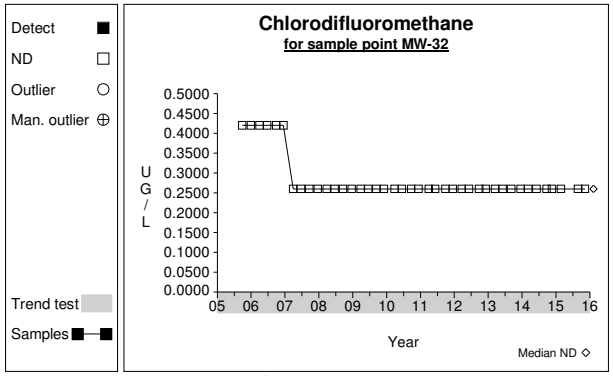


Graph 207

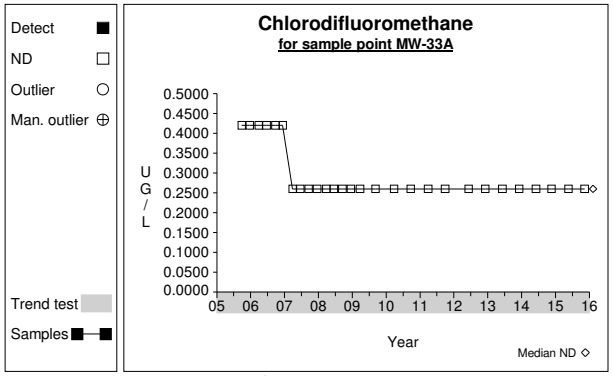
Time Series



Graph 208



Graph 209



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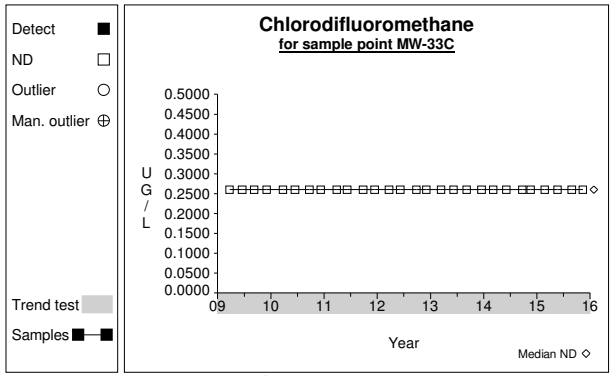
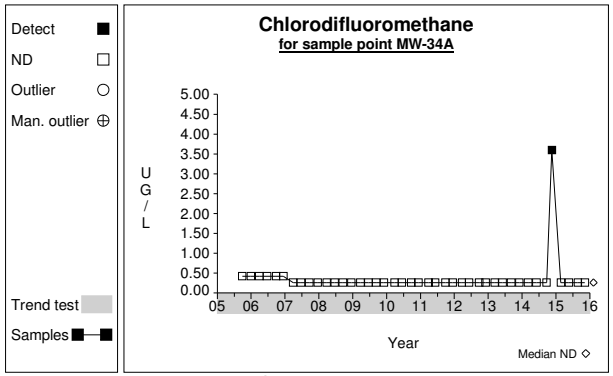
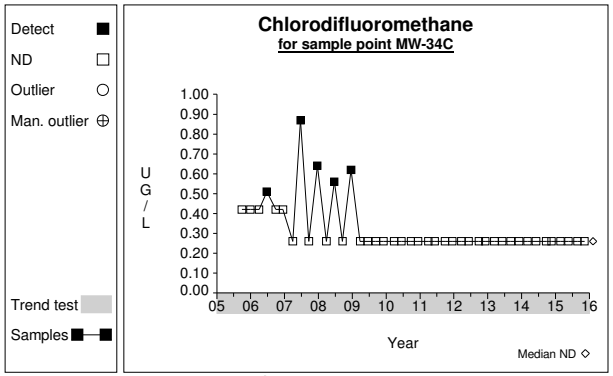


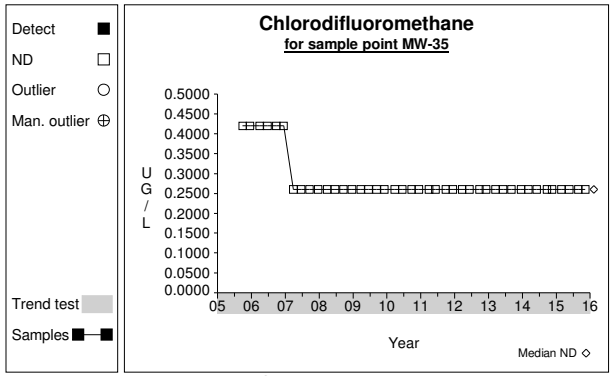
Graph 211



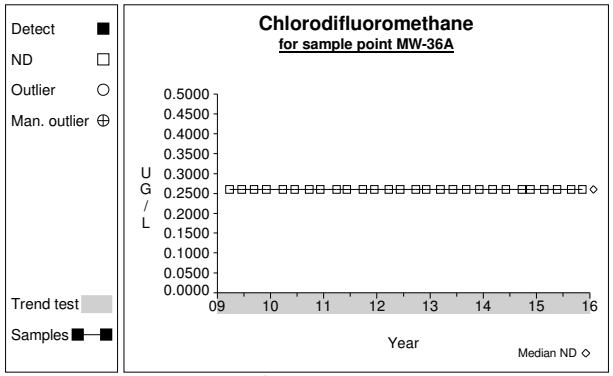
Graph 212



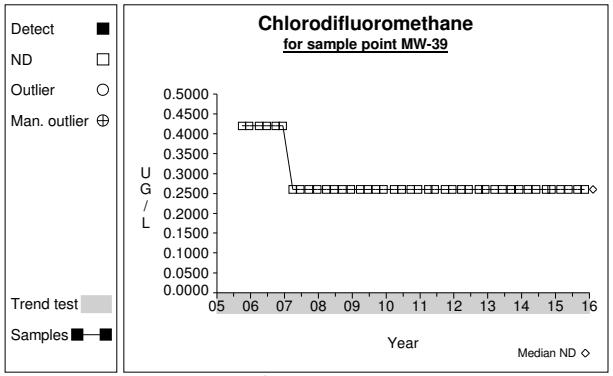
Graph 213



Graph 214

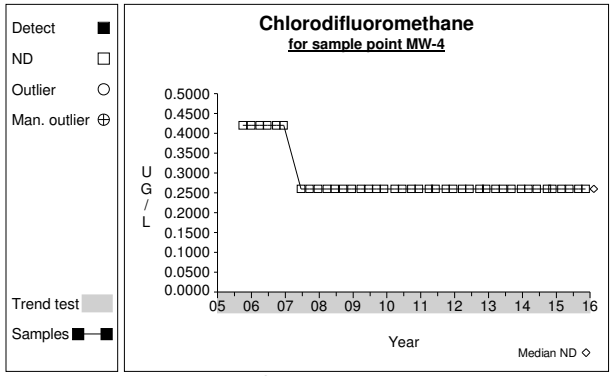


Graph 215



Graph 216

Time Series



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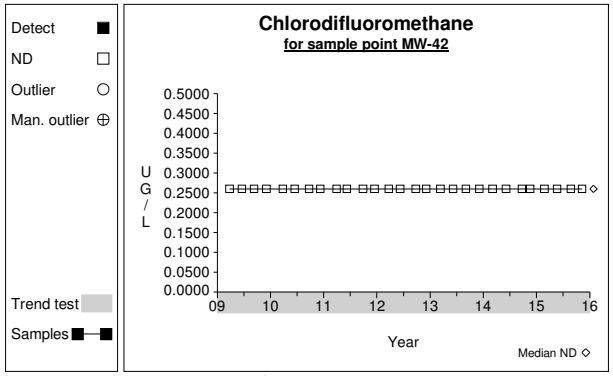

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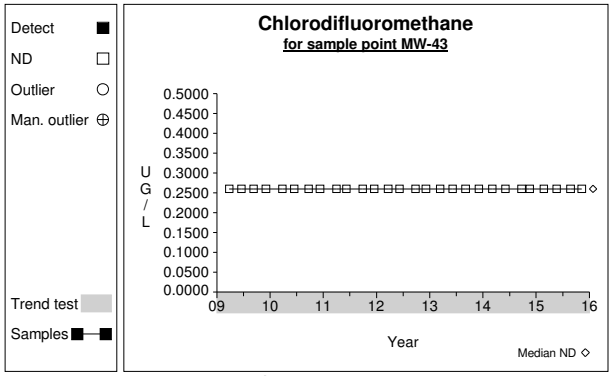
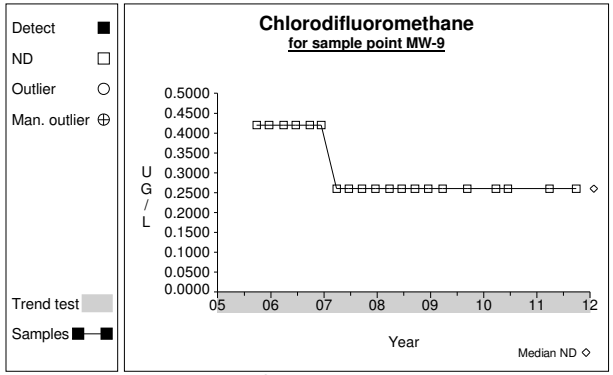
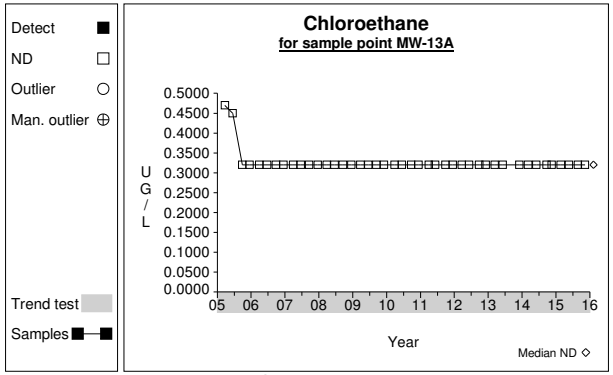


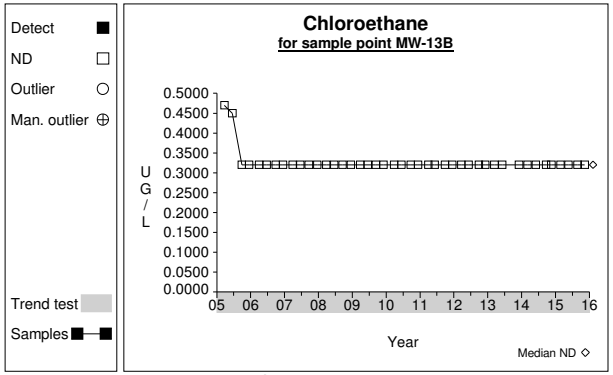
Graph 219



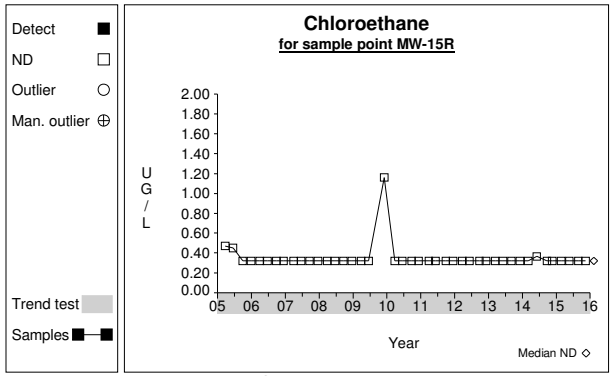
Graph 220



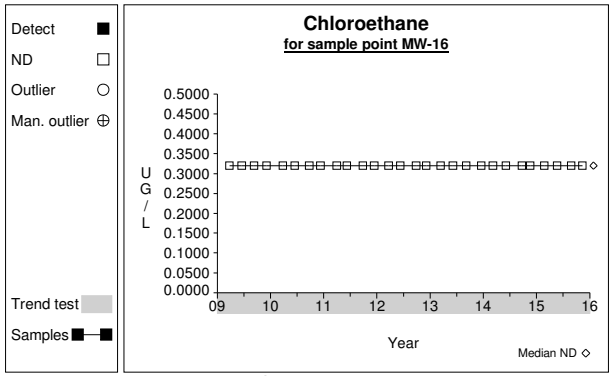
Graph 221



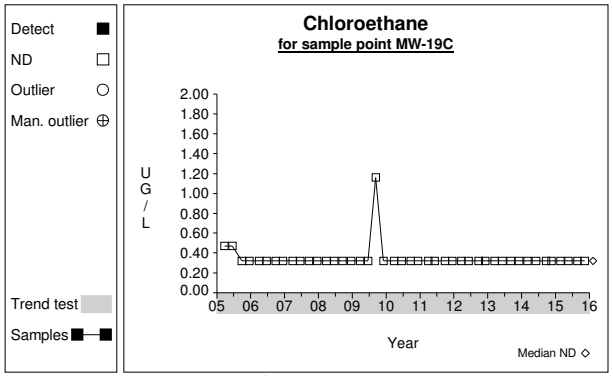
Graph 222



Graph 223

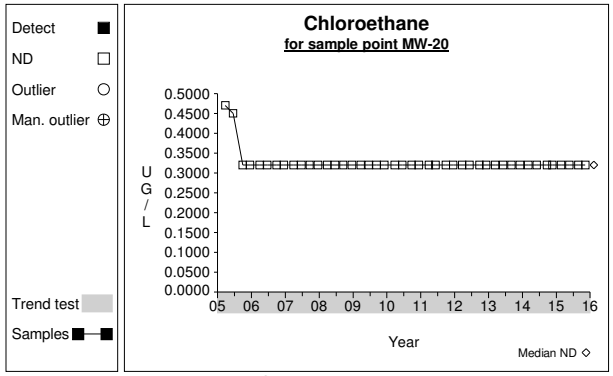


Graph 224

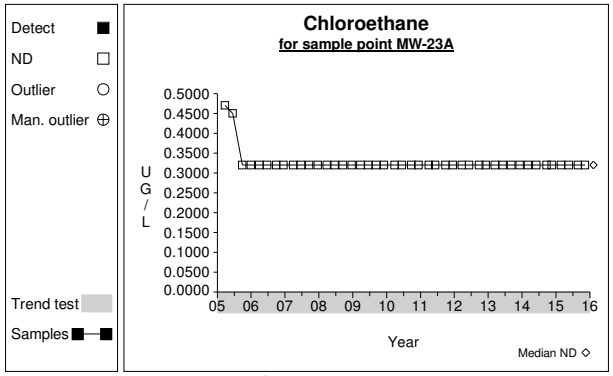


Graph 225

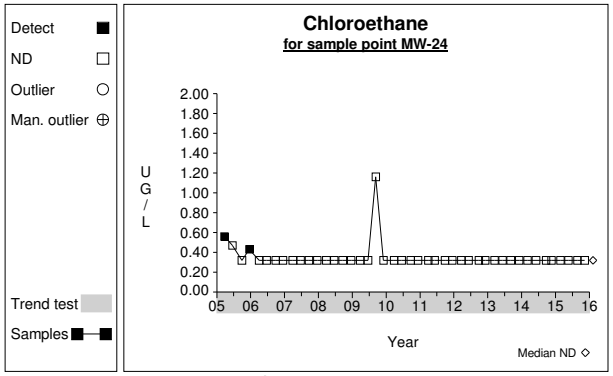
Time Series



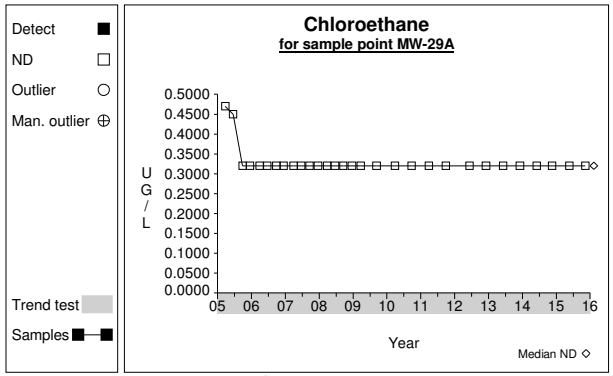
Graph 226



Graph 227



Graph 228



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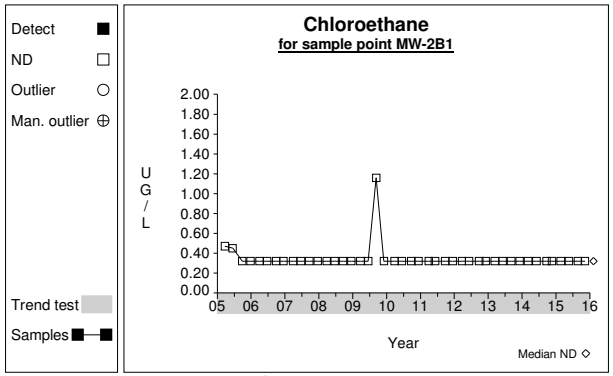
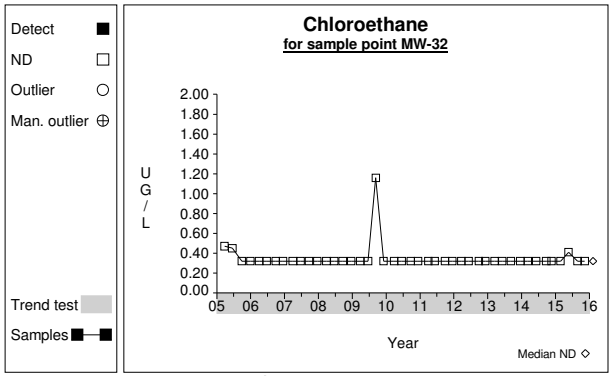


Graph 230



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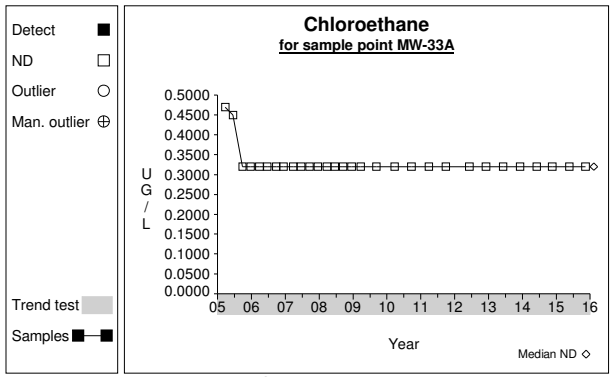
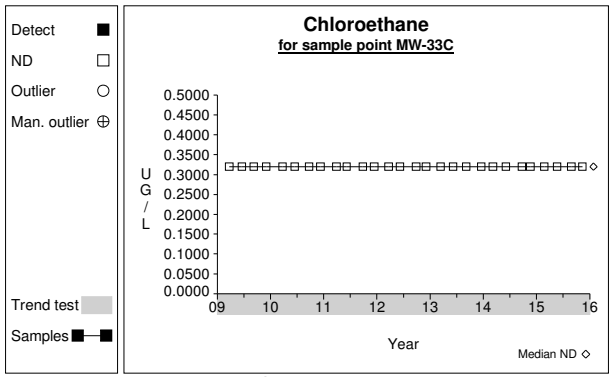
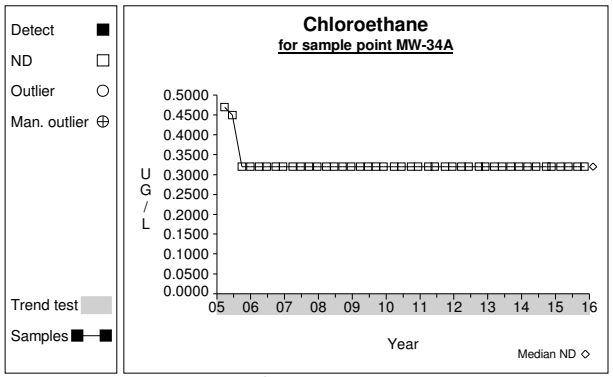


Graph 232

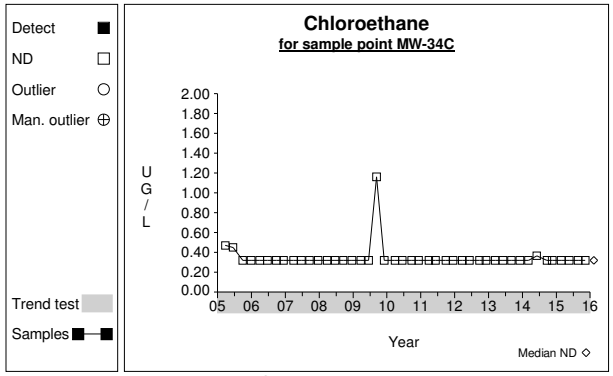


Graph 233

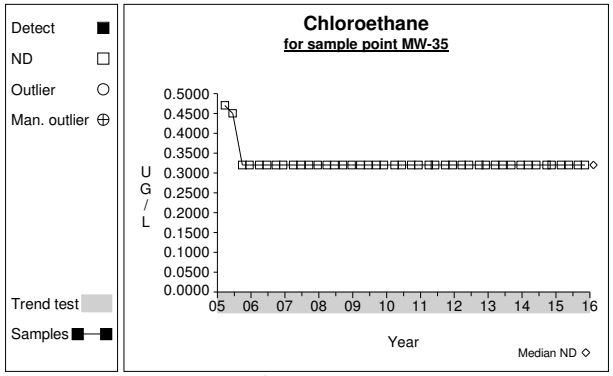


Graph 234

Time Series



Graph 235



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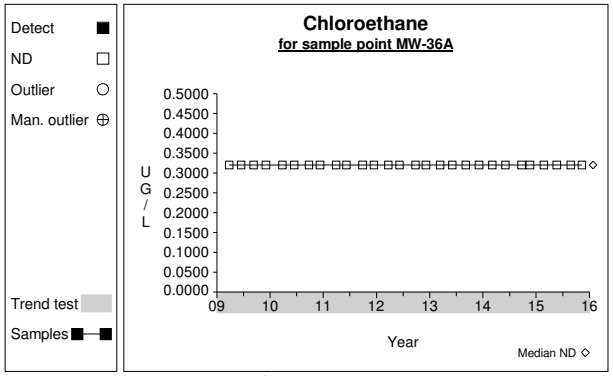

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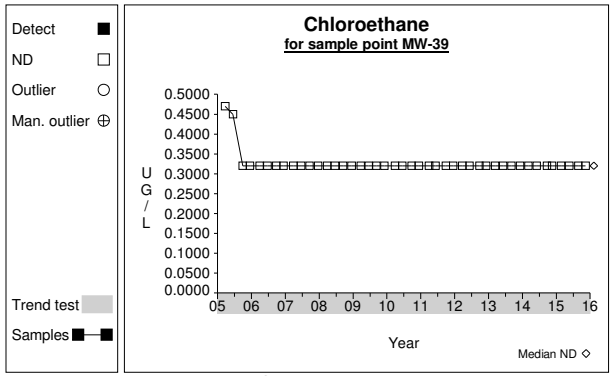
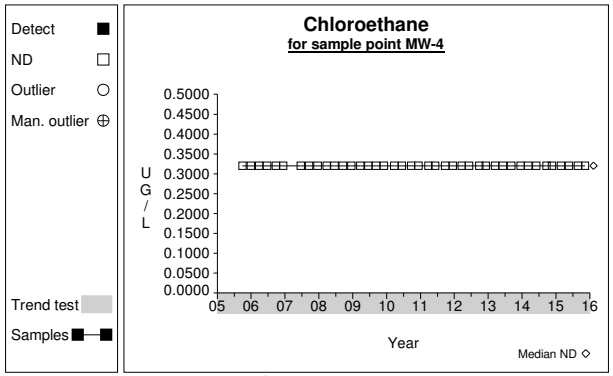
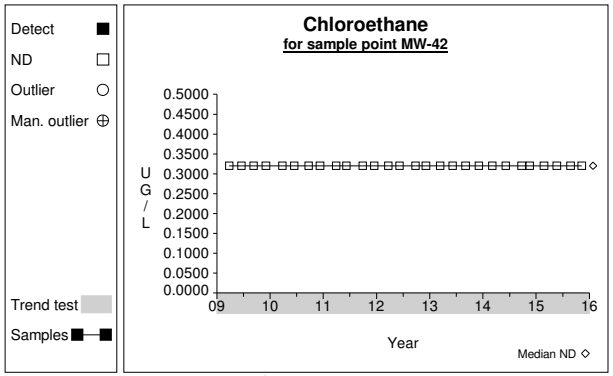


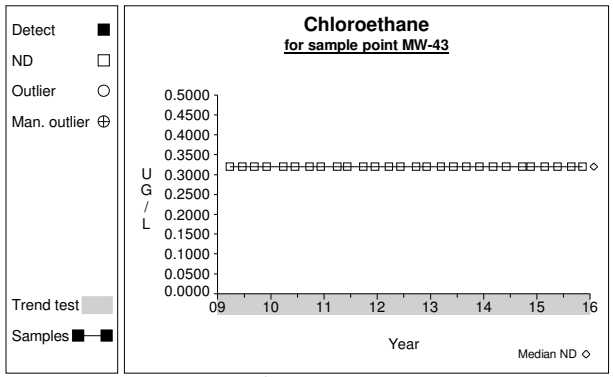
Graph 238



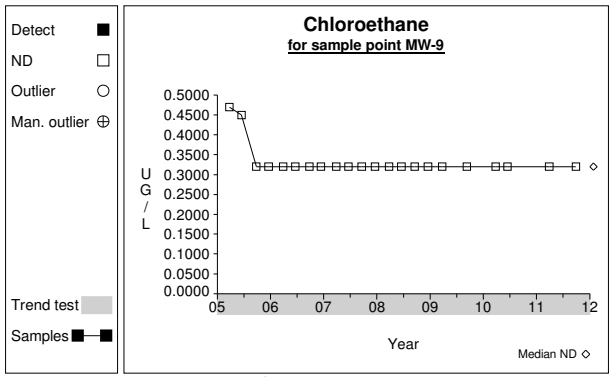
Graph 239



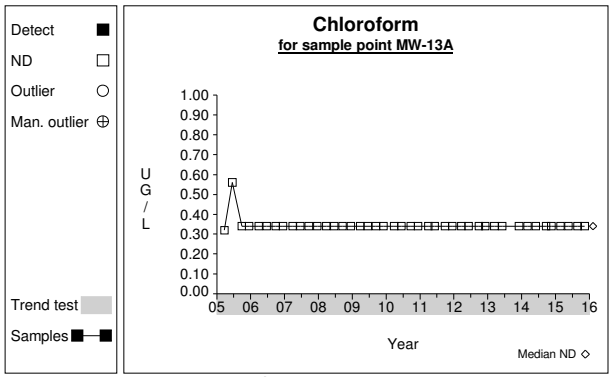
Graph 240



Graph 241

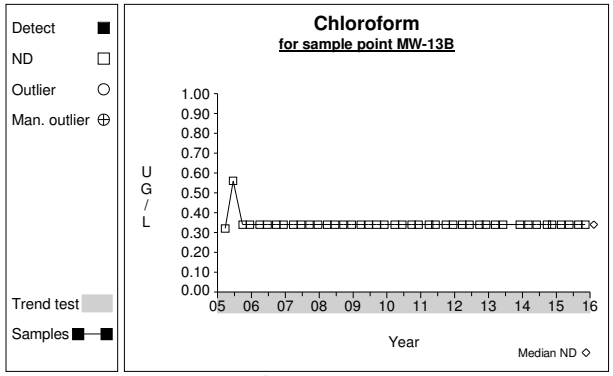


Graph 242

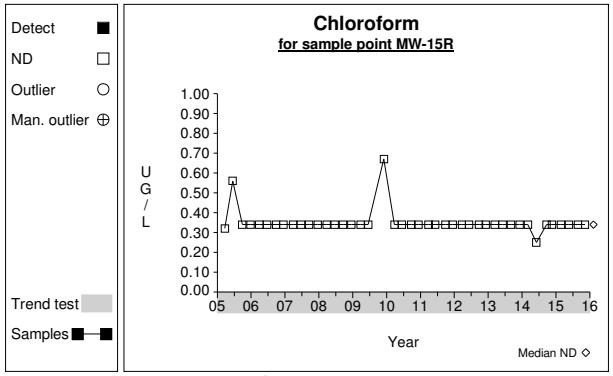


Graph 243

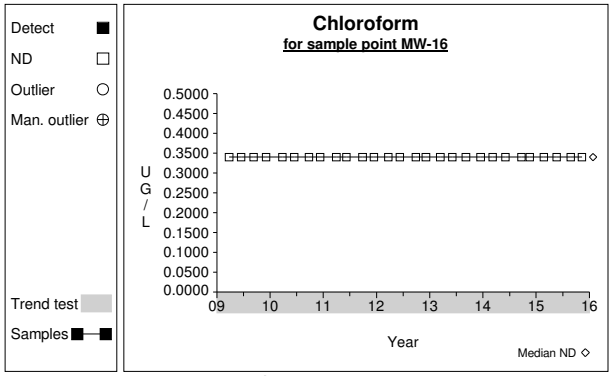
Time Series



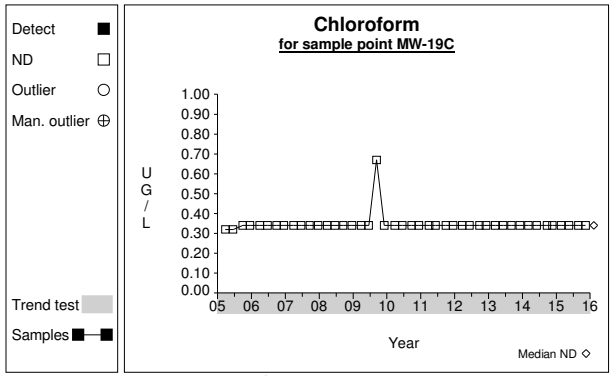
Graph 244



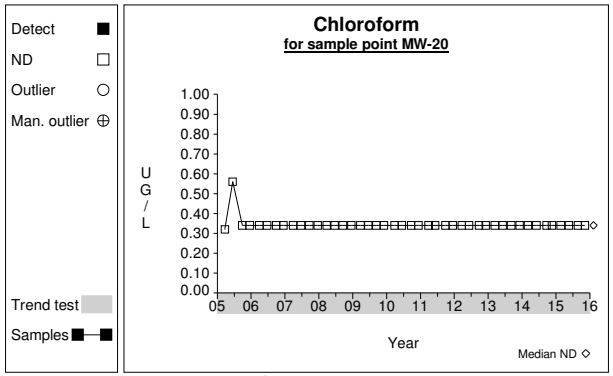
Graph 245



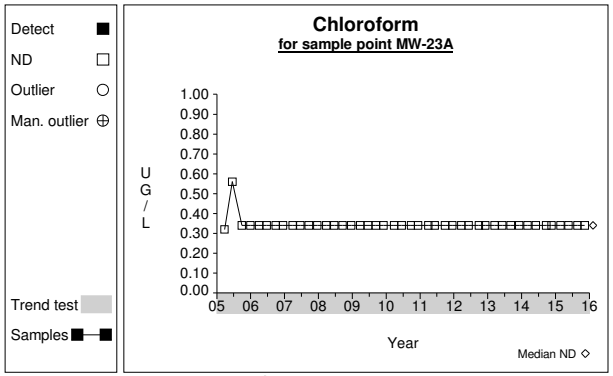
Graph 246



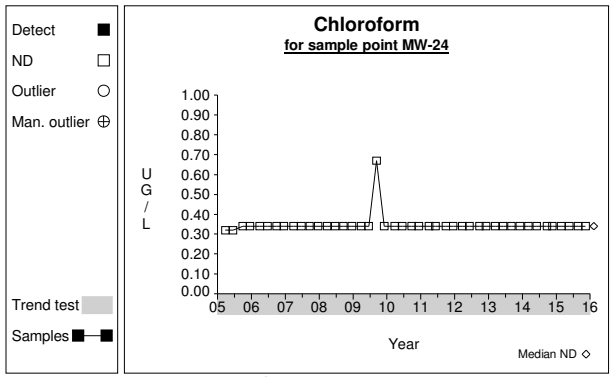
Graph 247



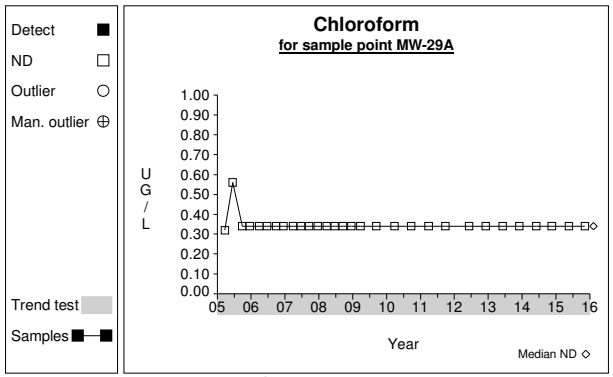
Graph 248



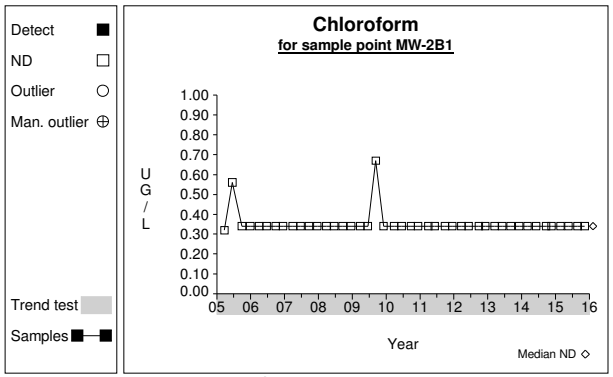
Graph 249



Graph 250

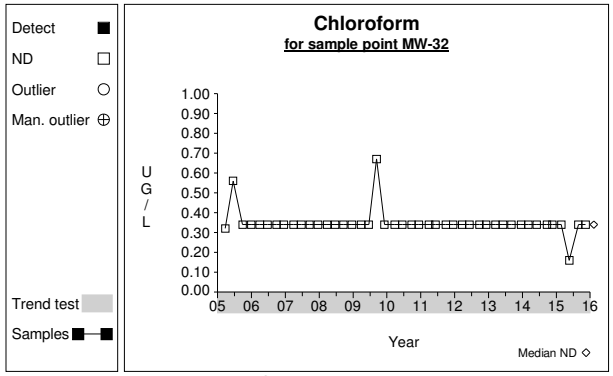


Graph 251

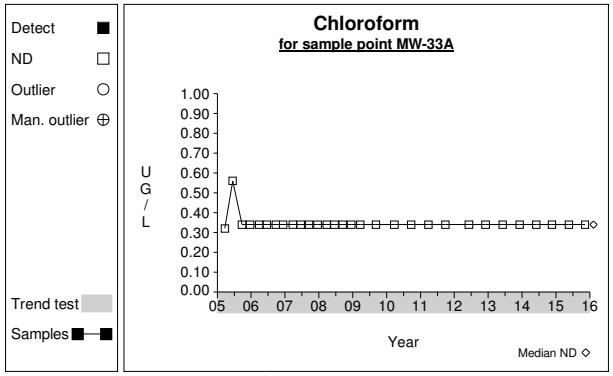


Graph 252

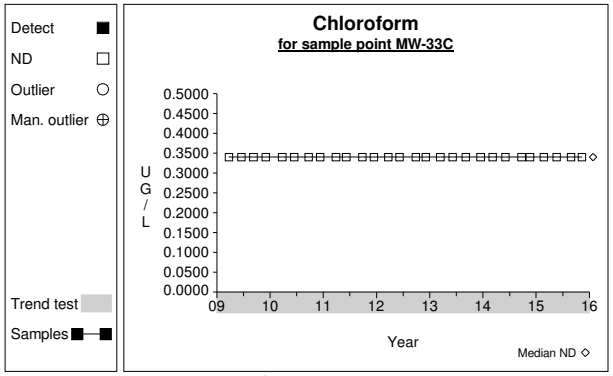
Time Series



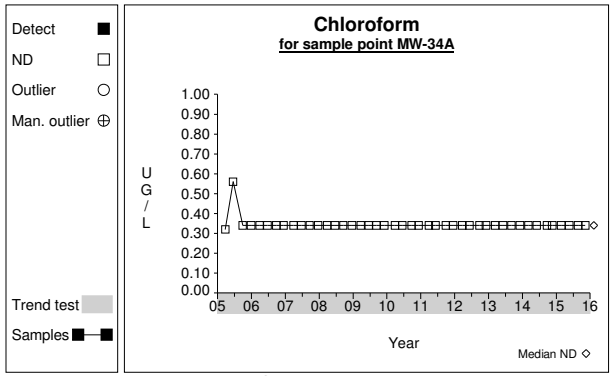
Graph 253



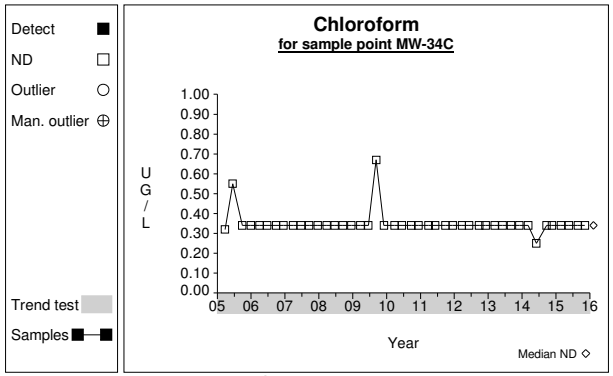
Graph 254



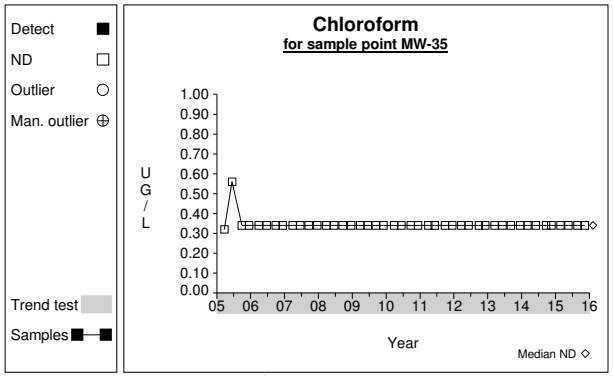
Graph 255



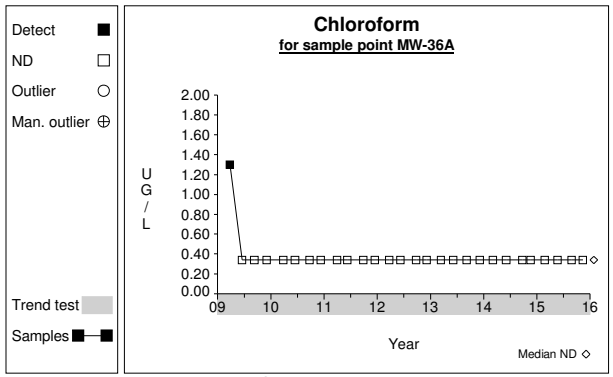
Graph 256



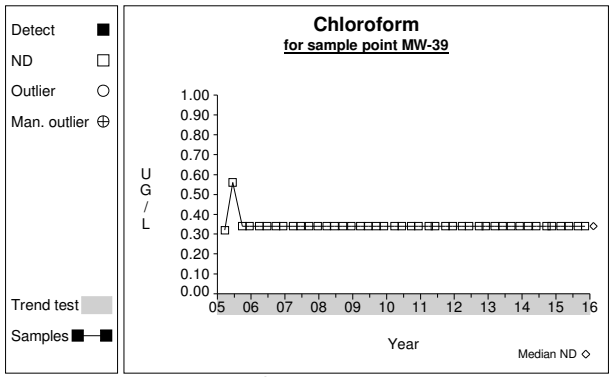
Graph 257



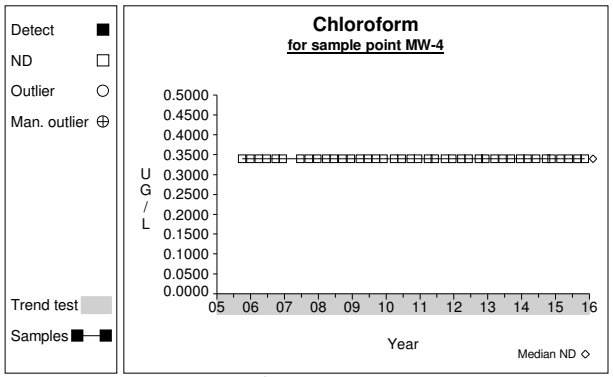
Graph 258



Graph 259

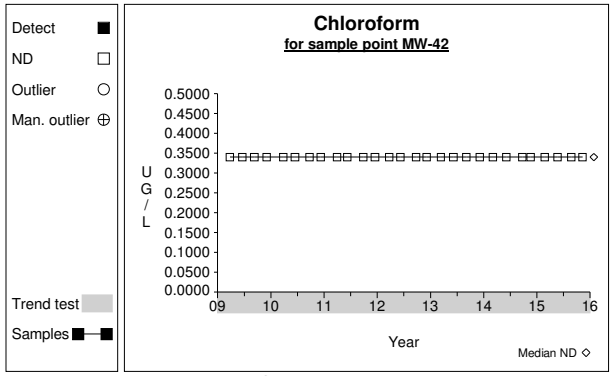


Graph 260

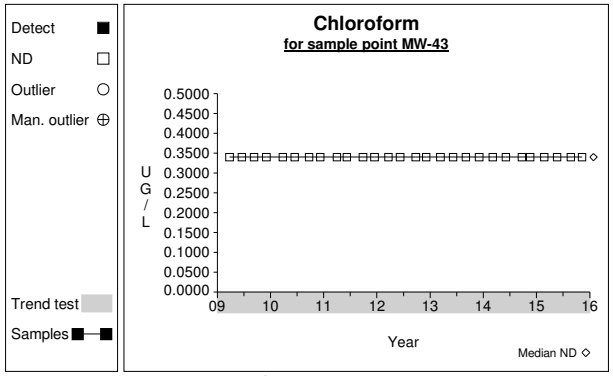


Graph 261

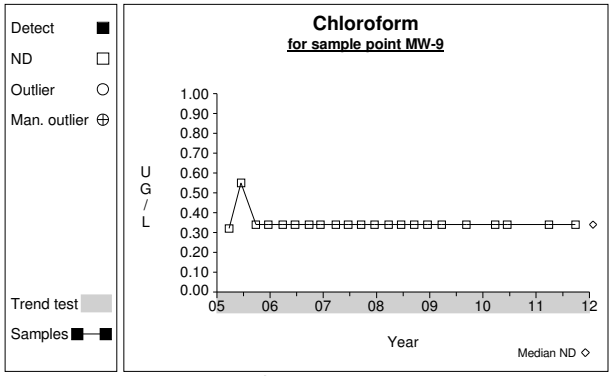
Time Series



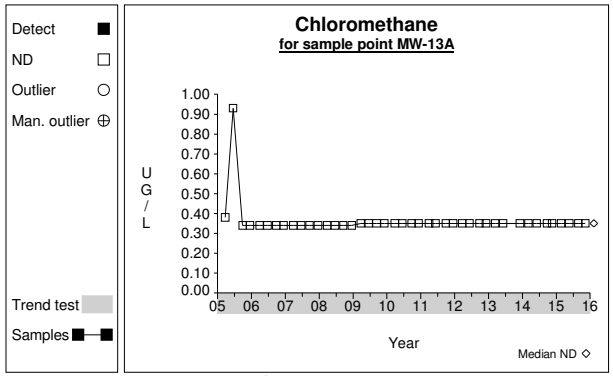
Graph 262



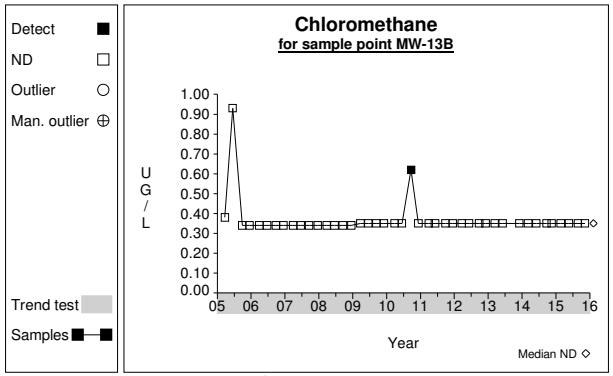
Graph 263



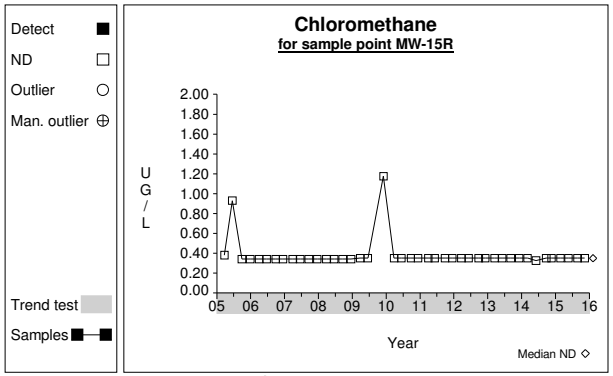
Graph 264



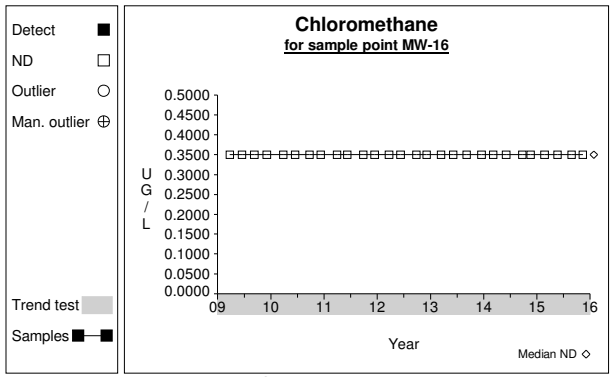
Graph 265



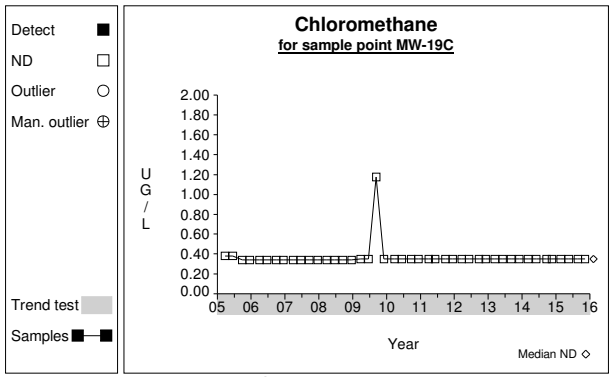
Graph 266



Graph 267



Graph 268



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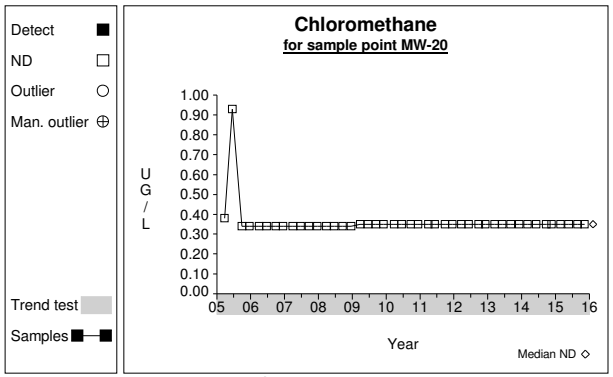
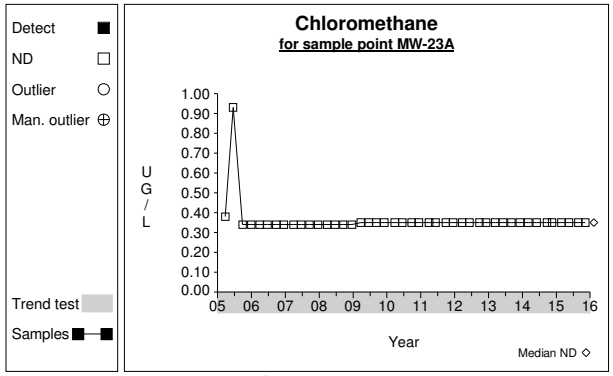
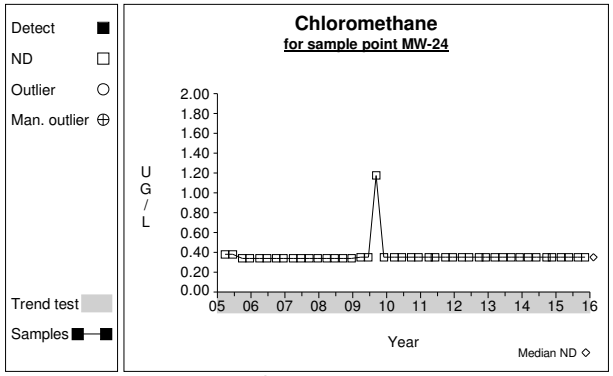


Graph 270

Time Series



Graph 271



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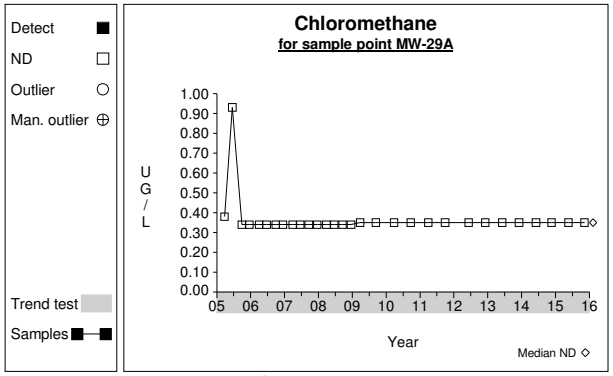

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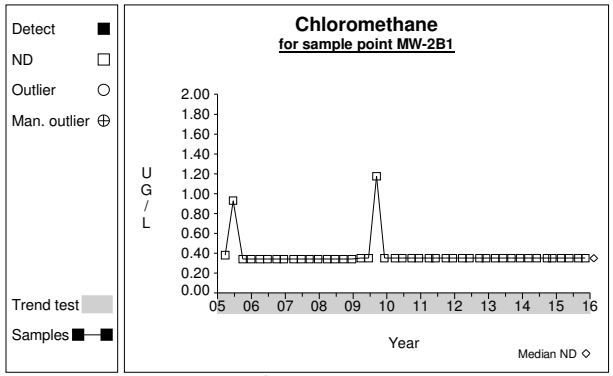
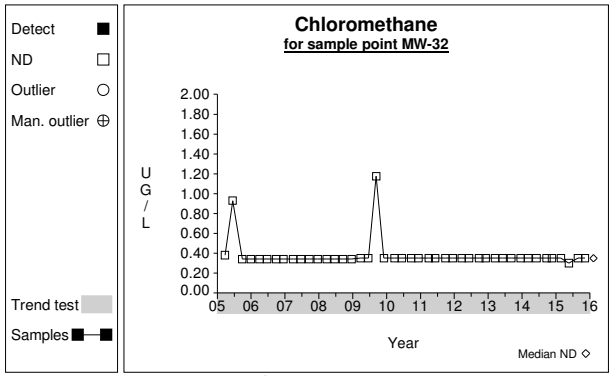
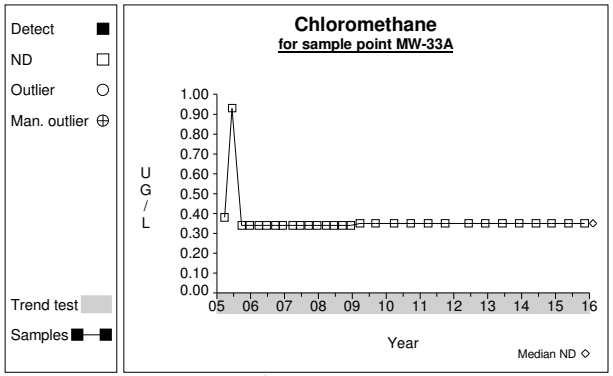


Graph 274



Graph 275



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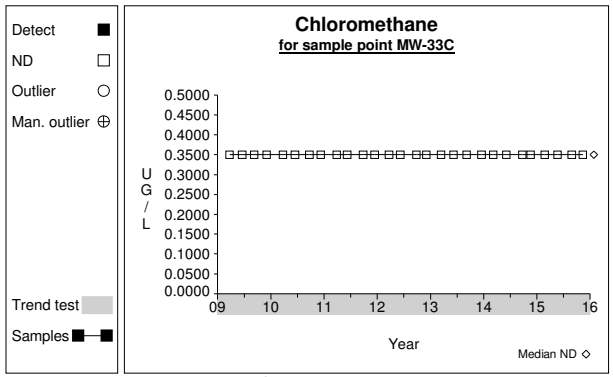

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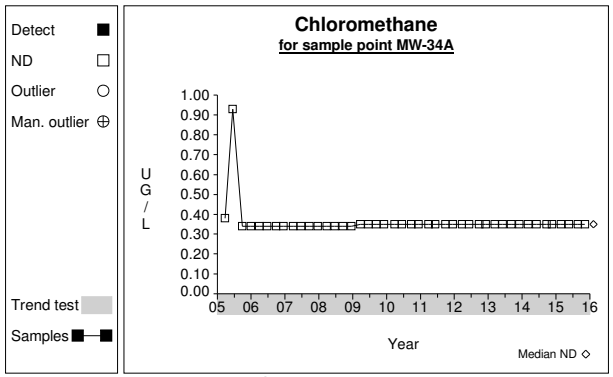

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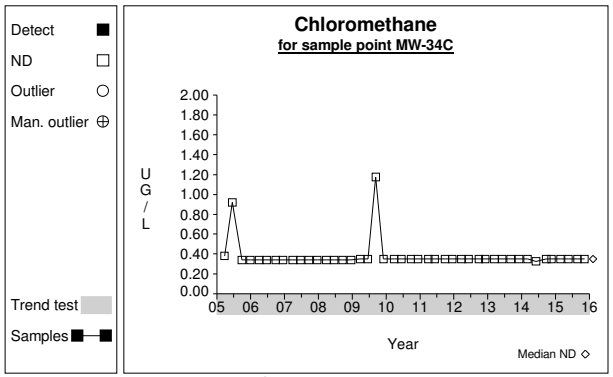
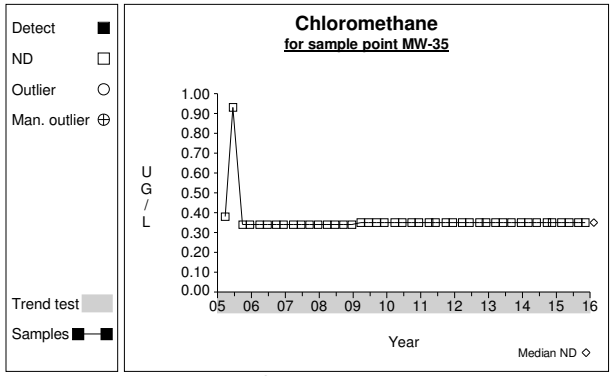


Graph 279

Time Series



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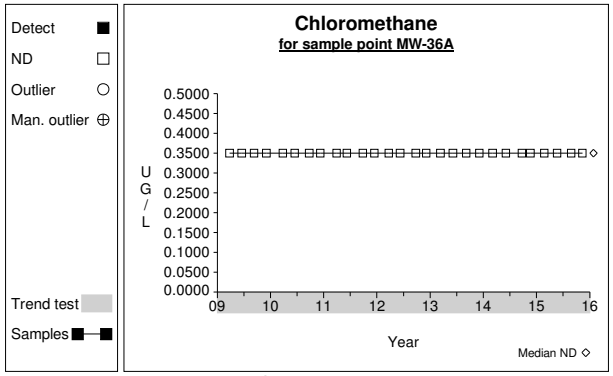

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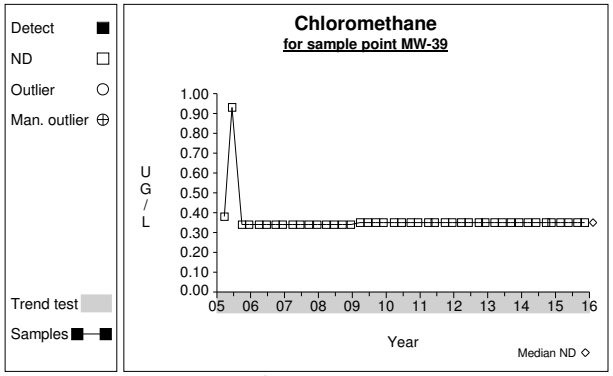
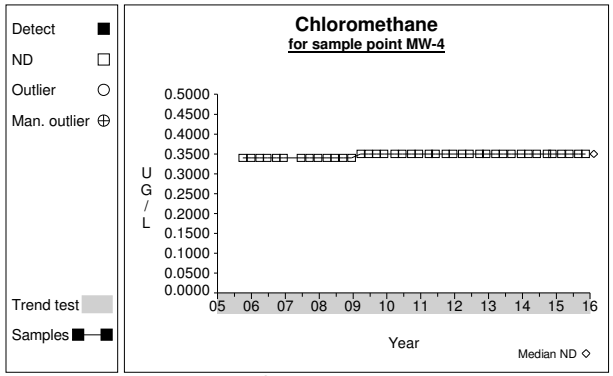
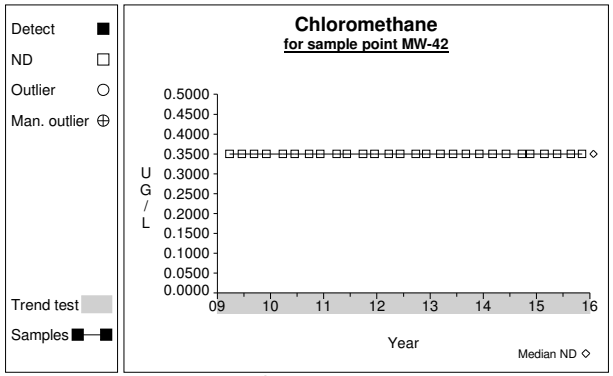


Graph 282



Graph 283



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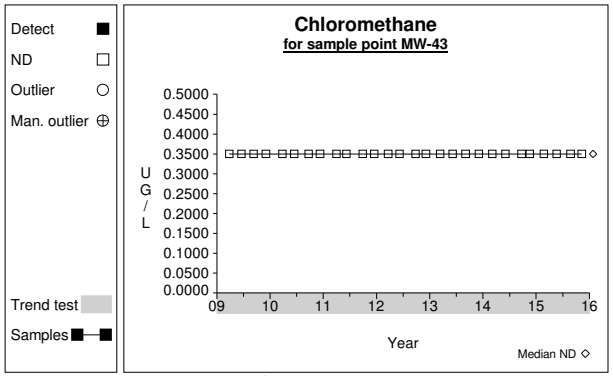
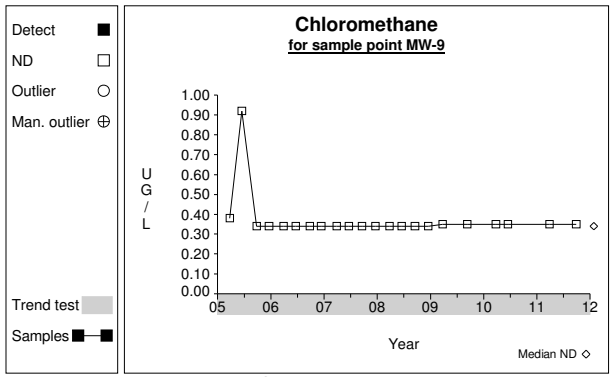
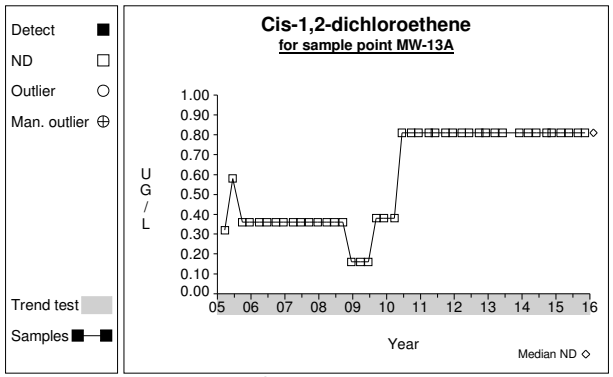


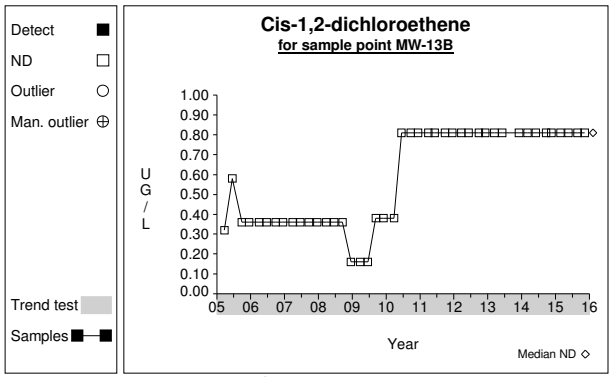
Graph 285



Graph 286

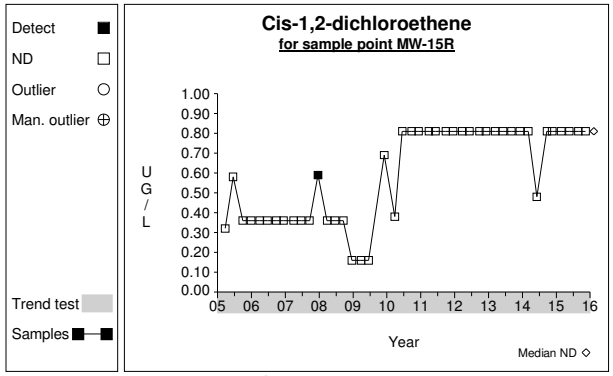


Graph 287



Graph 288

Time Series



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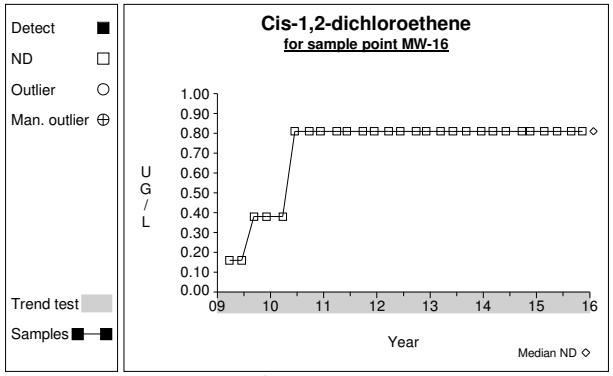

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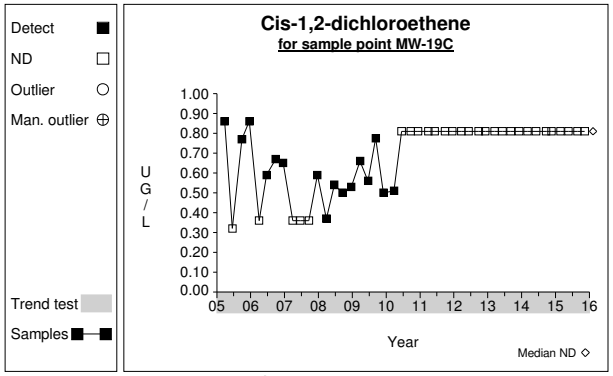

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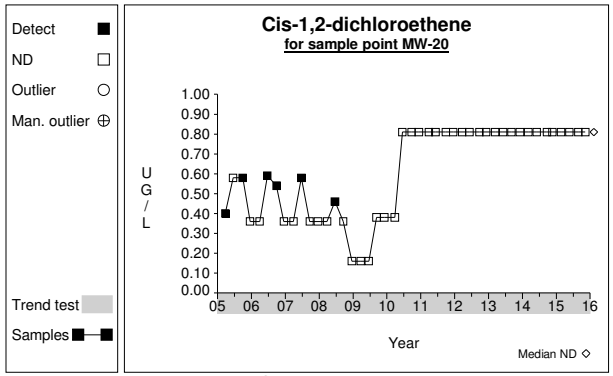

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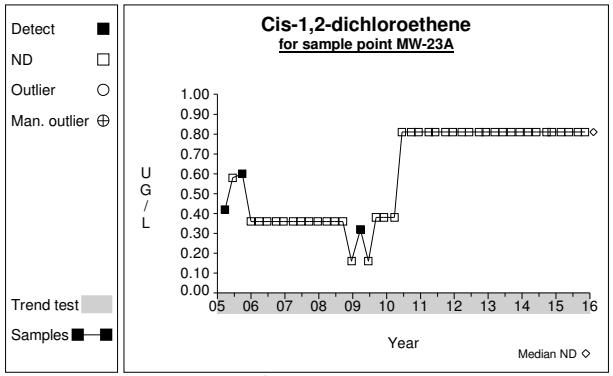

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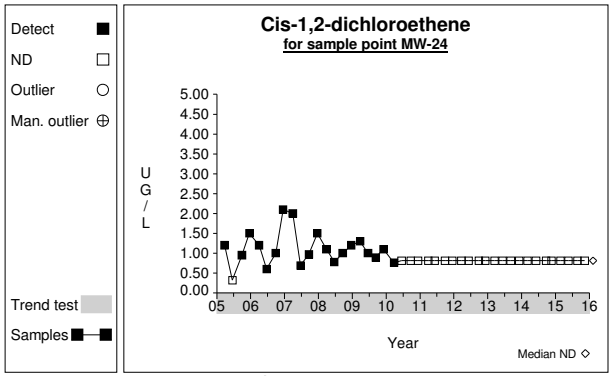

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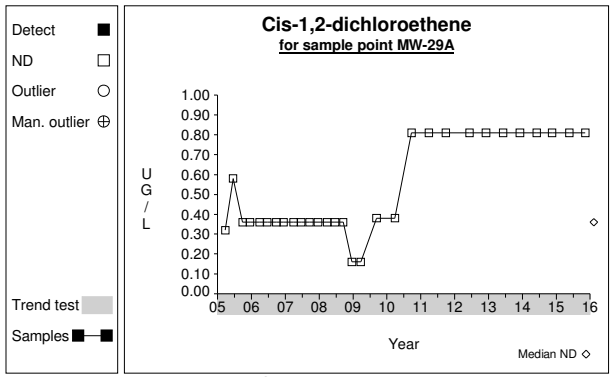

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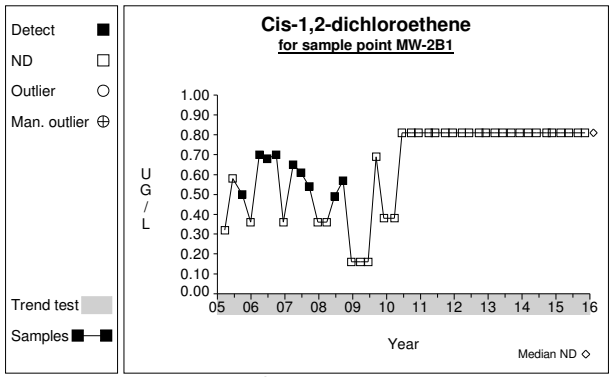

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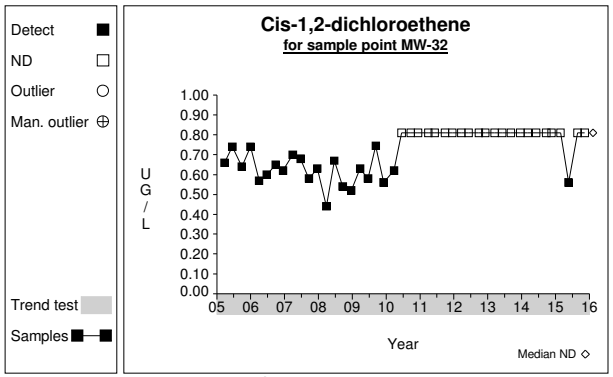
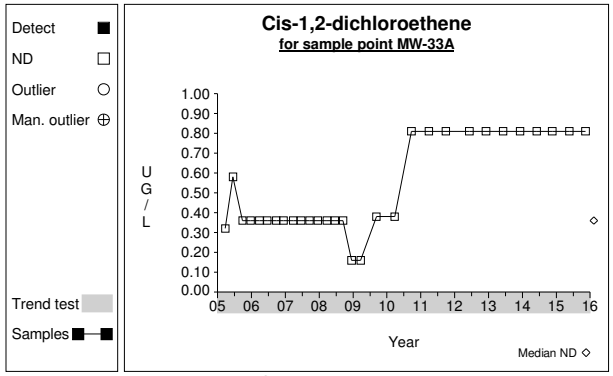
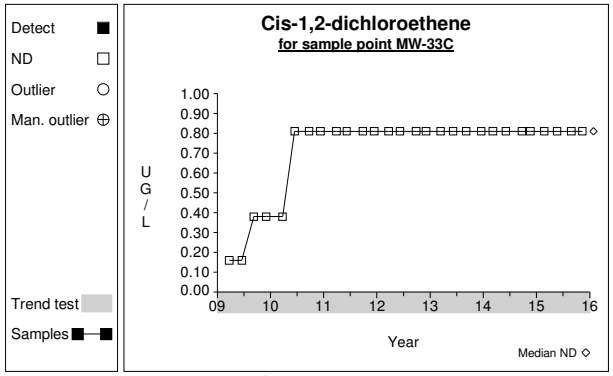


Graph 297

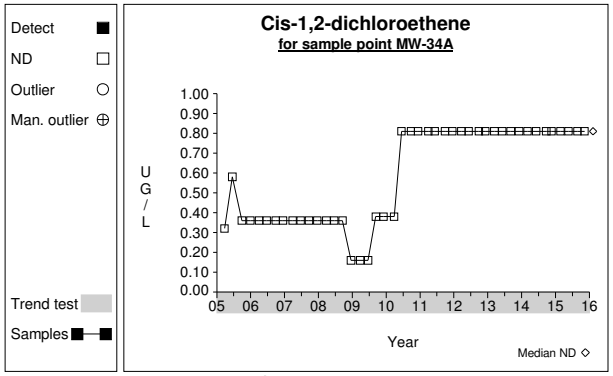
Time Series



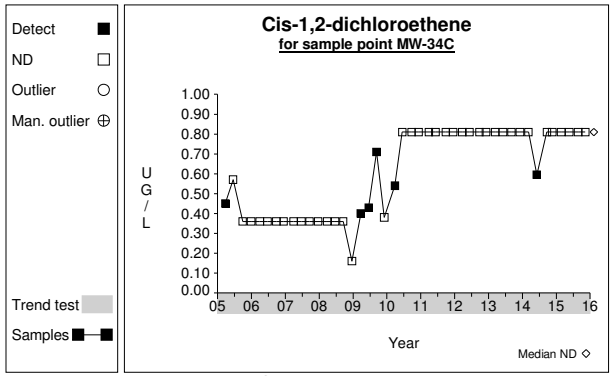
Graph 298



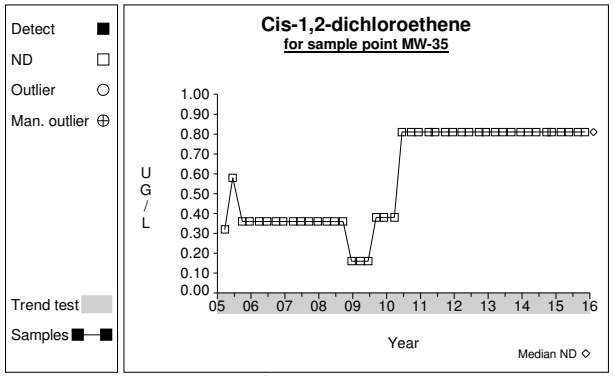
Graph 299



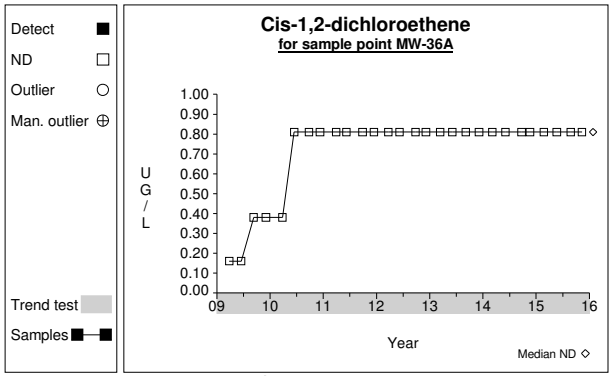
Graph 300



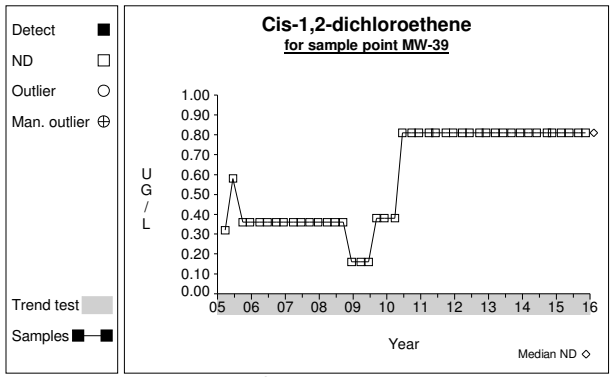
Graph 301



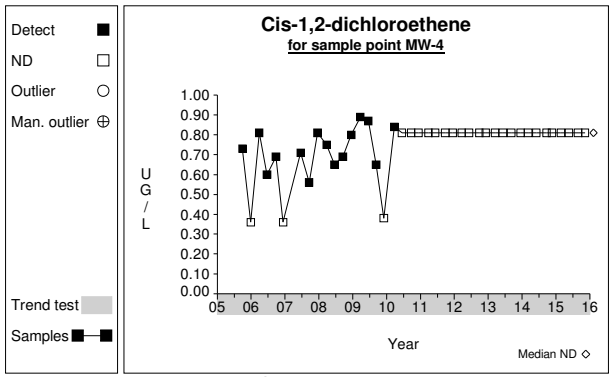
Graph 302



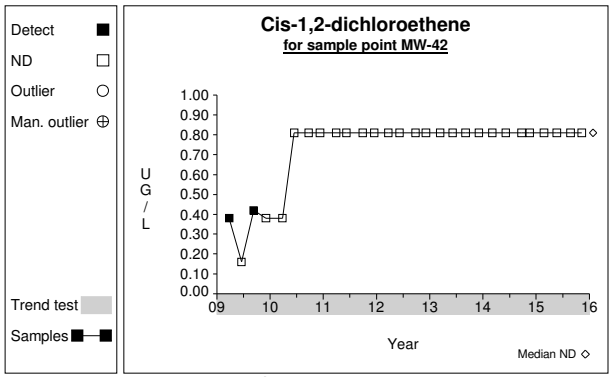
Graph 303



Graph 304

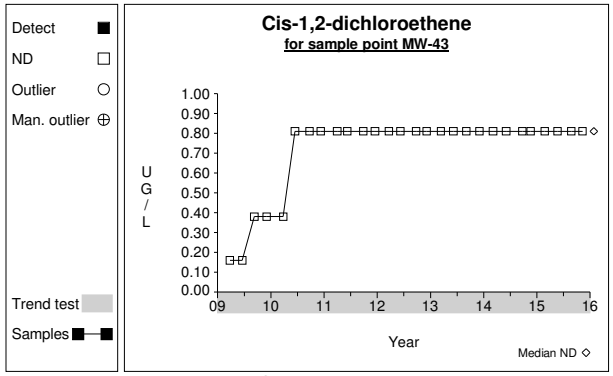


Graph 305

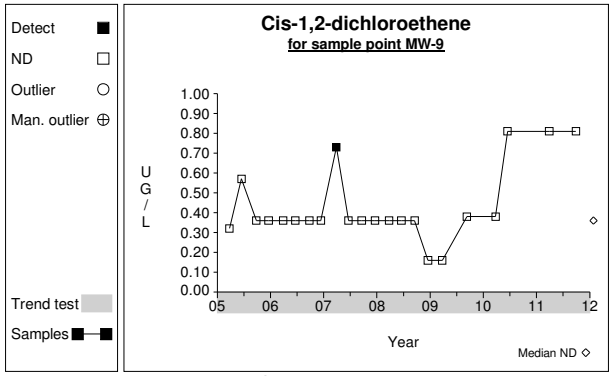


Graph 306

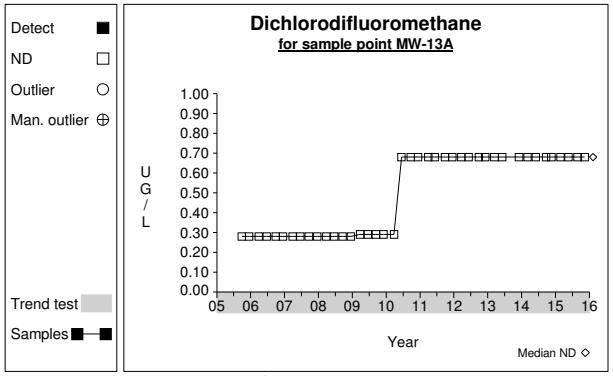
Time Series



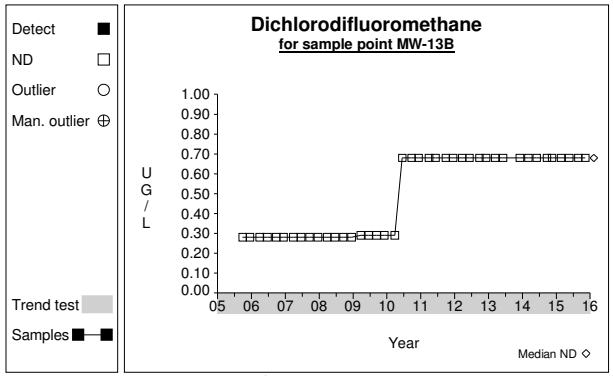
Graph 307



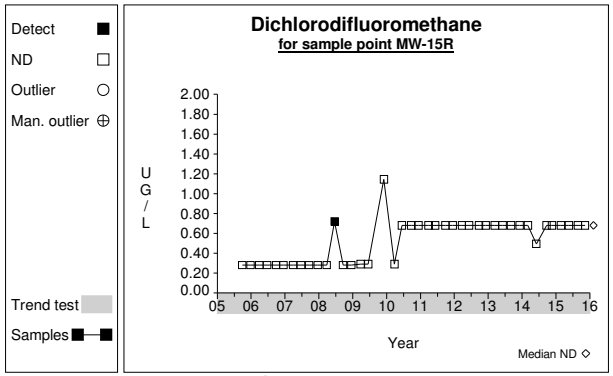
Graph 308



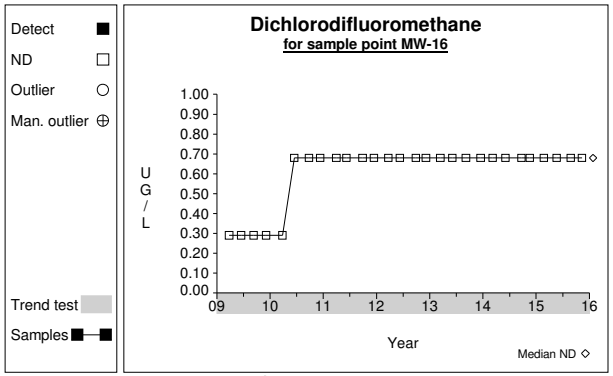
Graph 309



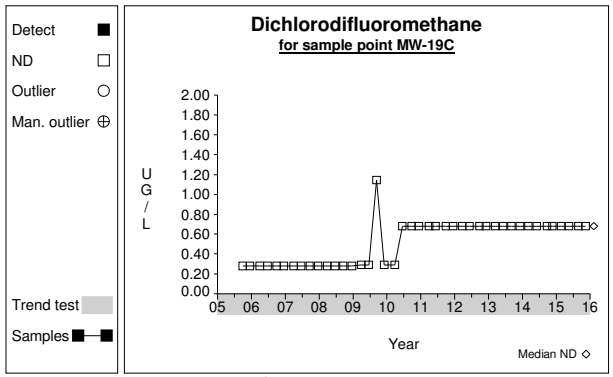
Graph 310



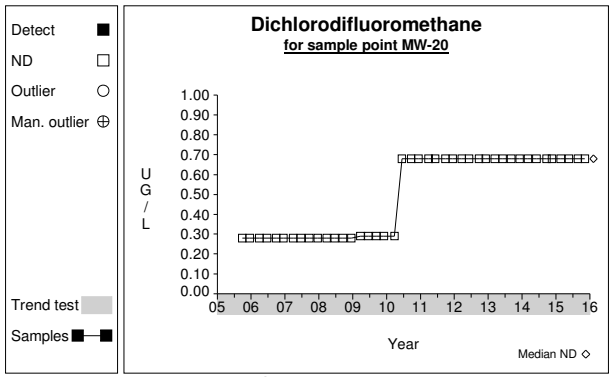
Graph 311



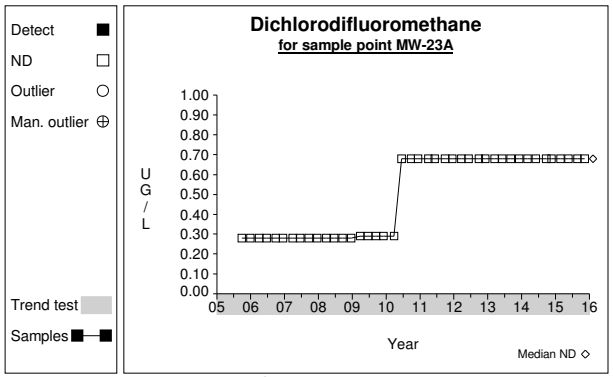
Graph 312



Graph 313

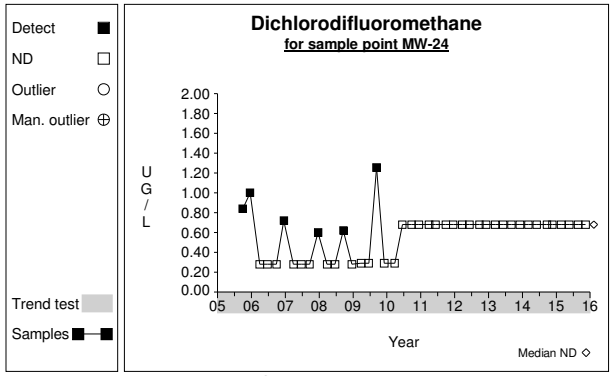


Graph 314

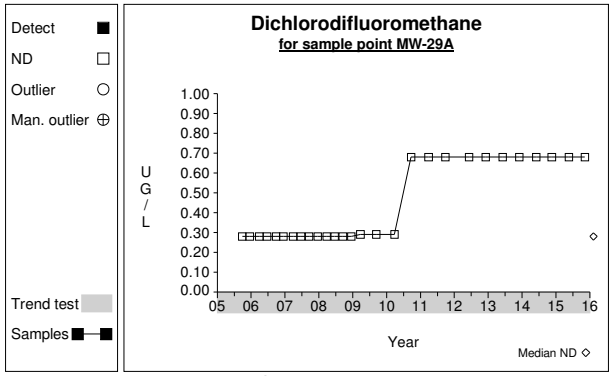


Graph 315

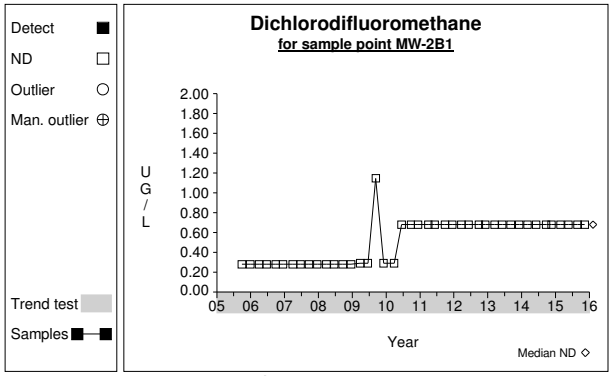
Time Series



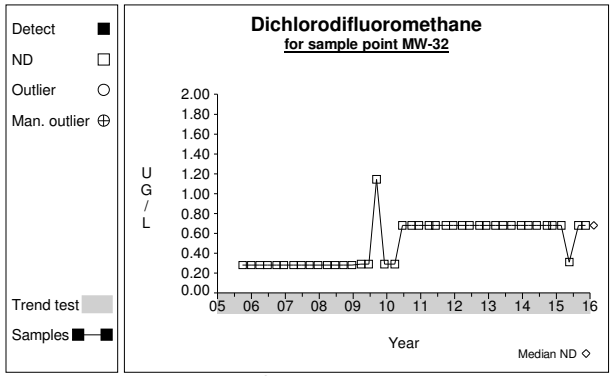
Graph 316



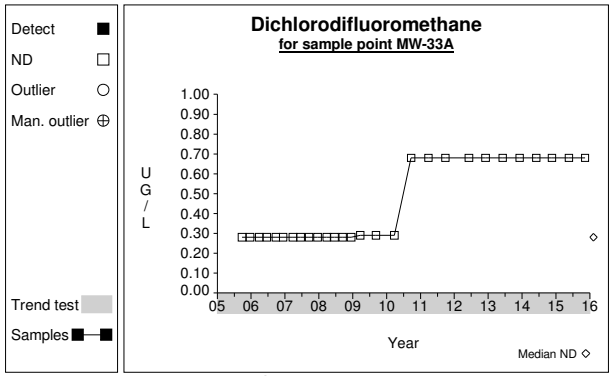
Graph 317



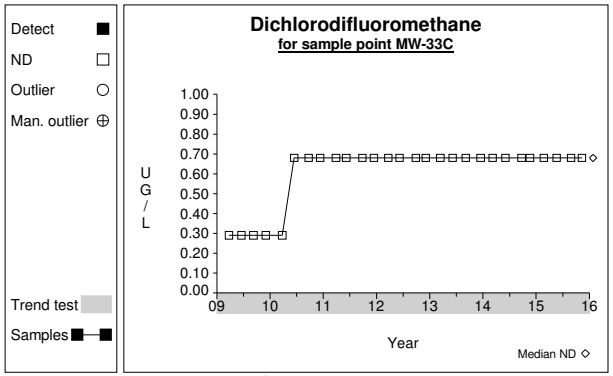
Graph 318



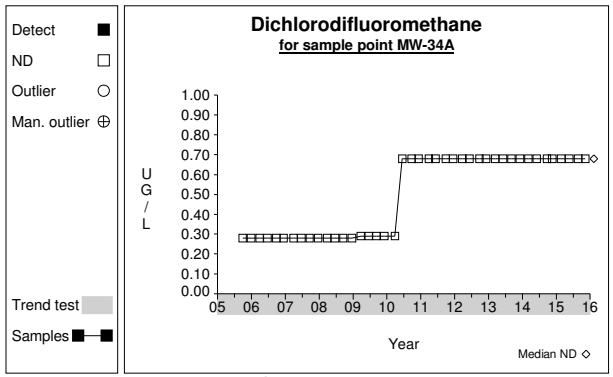
Graph 319



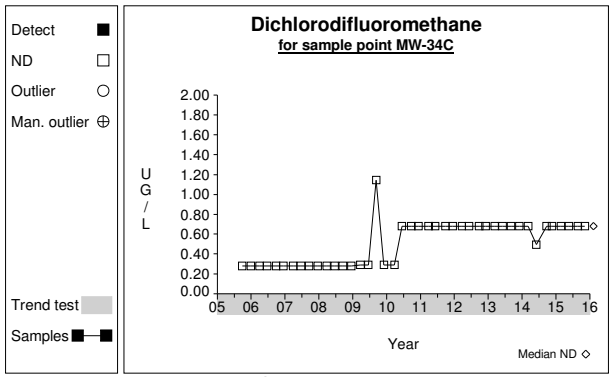
Graph 320



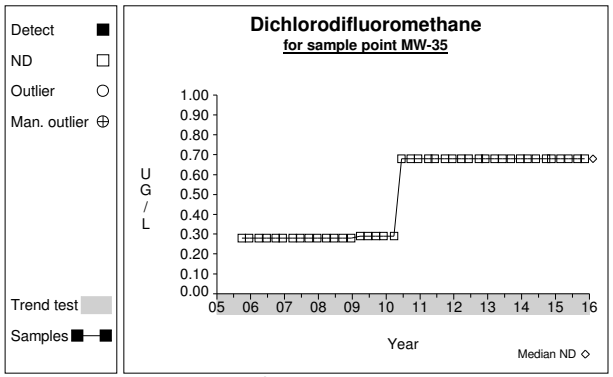
Graph 321



Graph 322

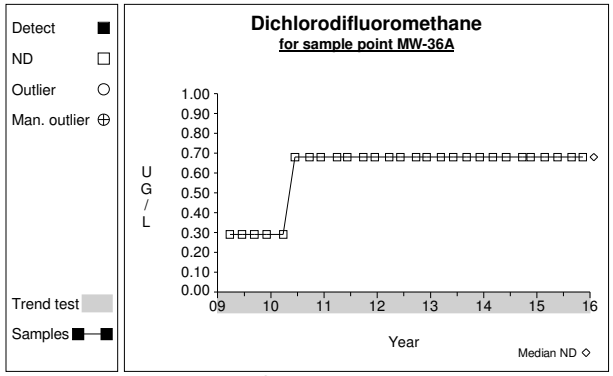


Graph 323

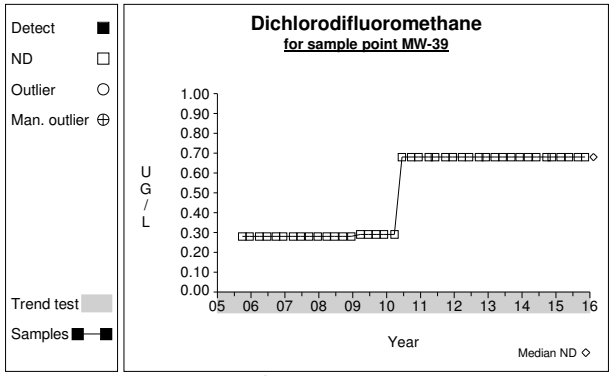


Graph 324

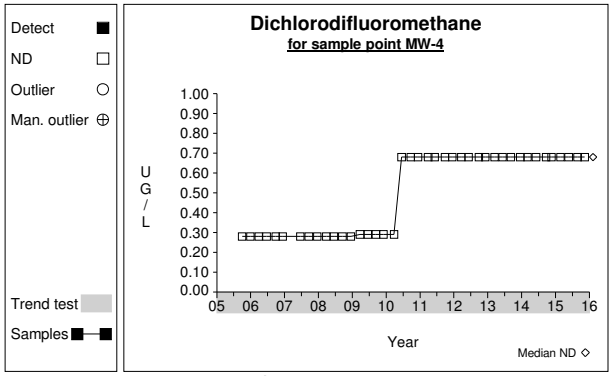
Time Series



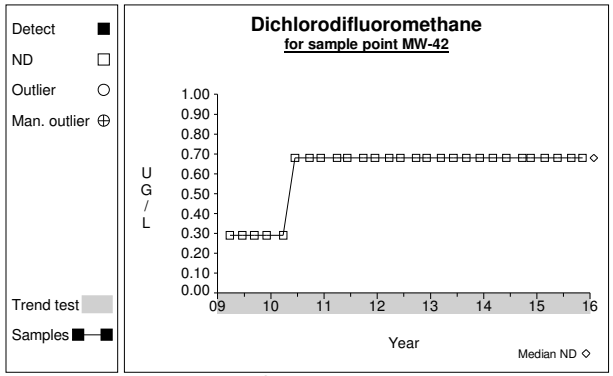
Graph 325



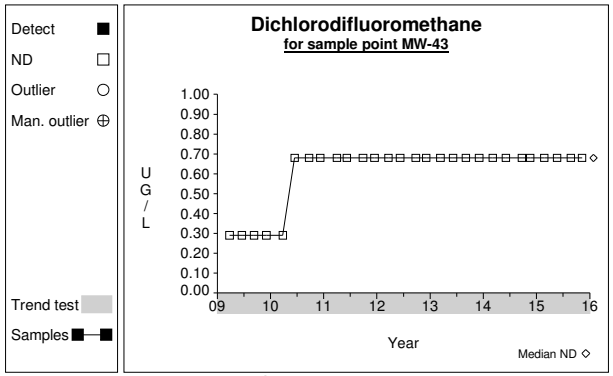
Graph 326



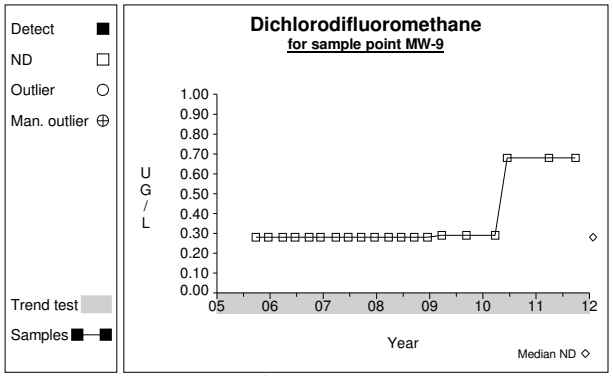
Graph 327



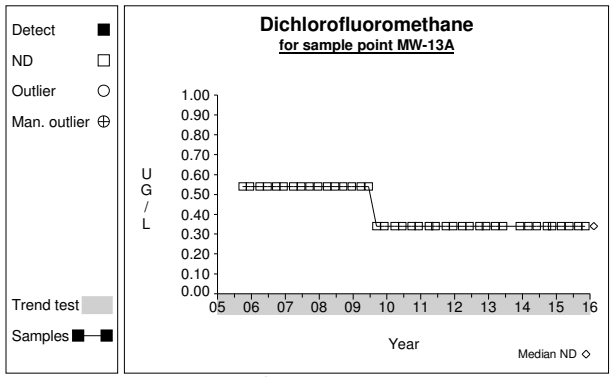
Graph 328



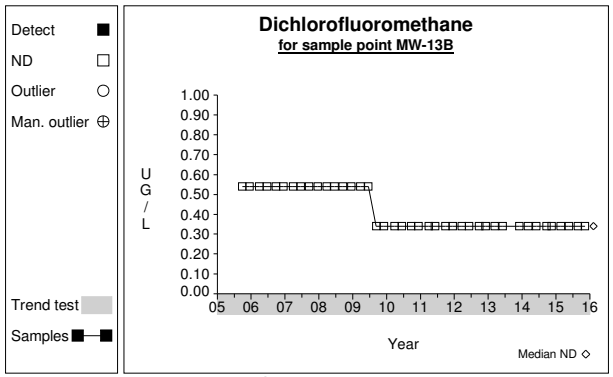
Graph 329



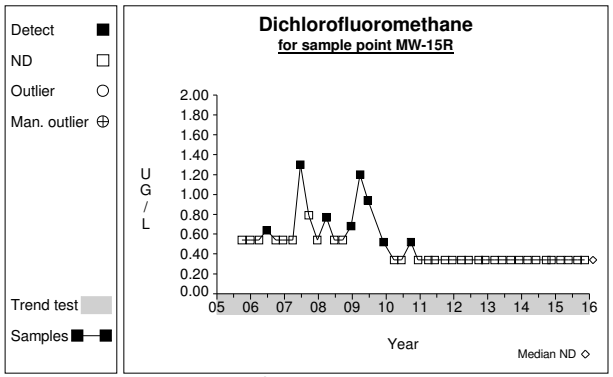
Graph 330



Graph 331

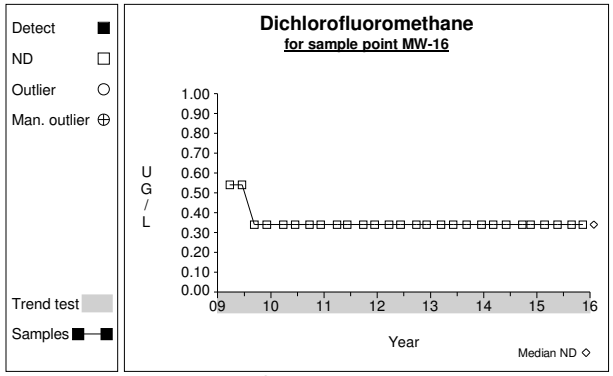


Graph 332

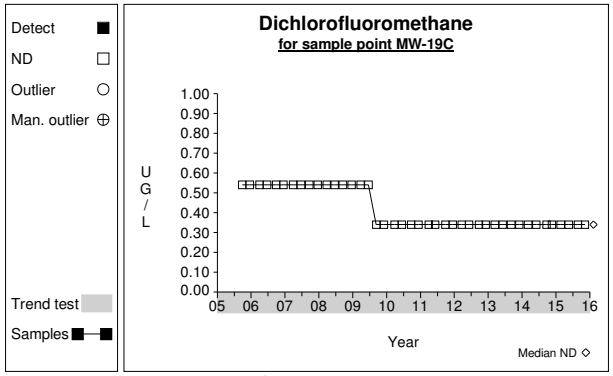


Graph 333

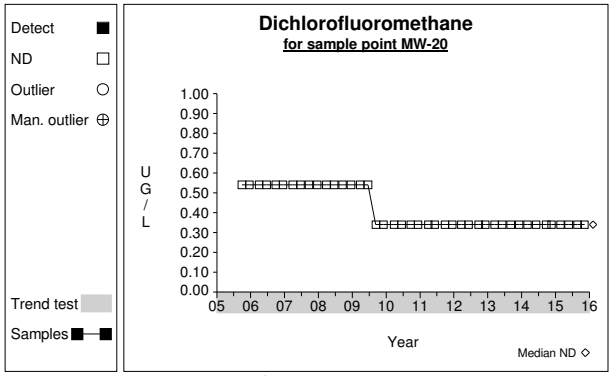
Time Series



Graph 334



Graph 335



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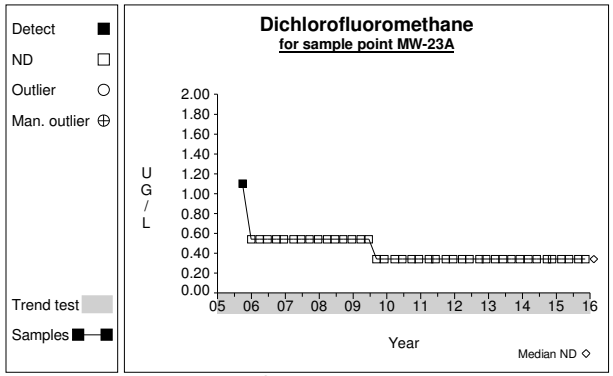
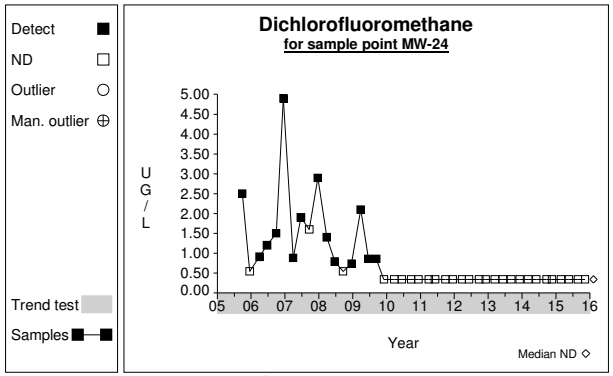
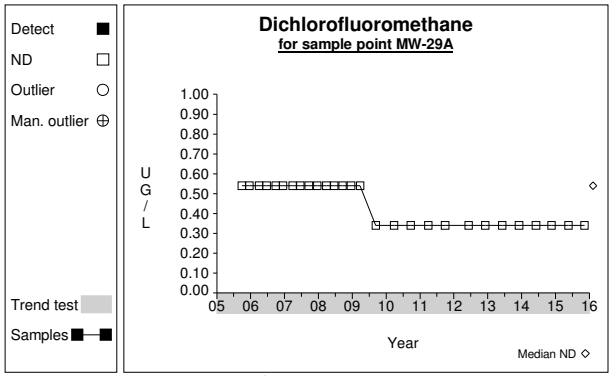


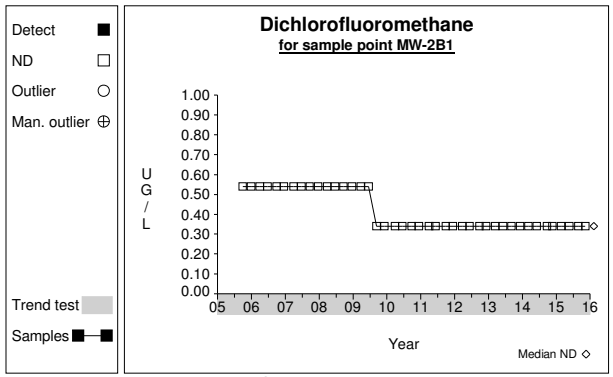
Graph 337



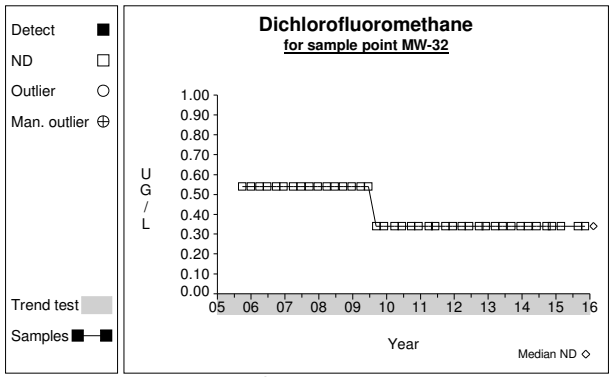
Graph 338



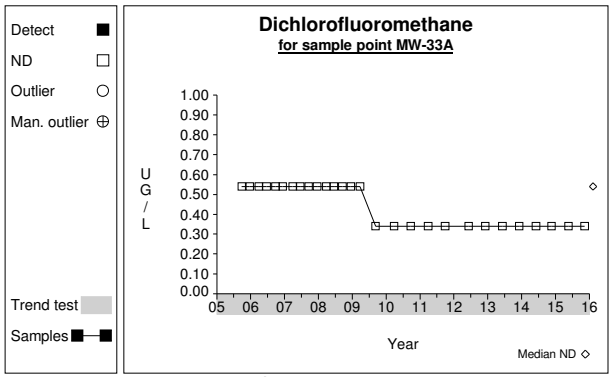
Graph 339



Graph 340

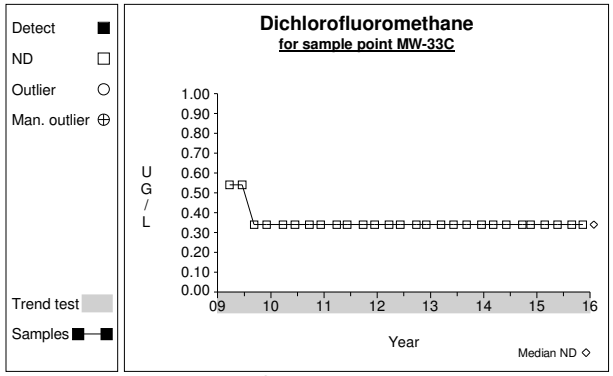


Graph 341

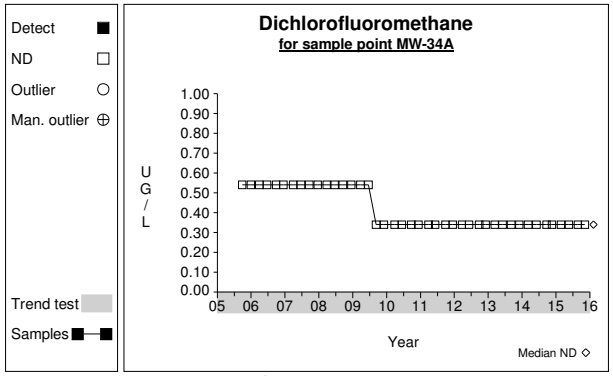


Graph 342

Time Series



Graph 343



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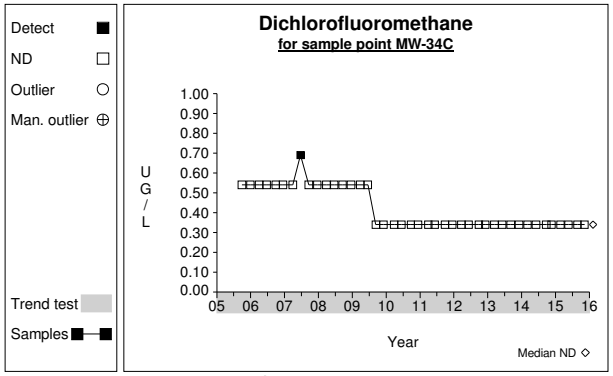
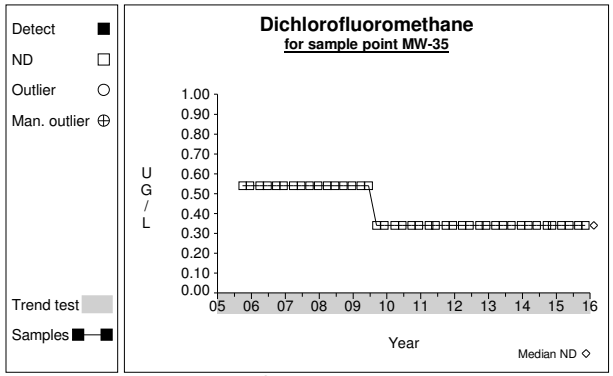
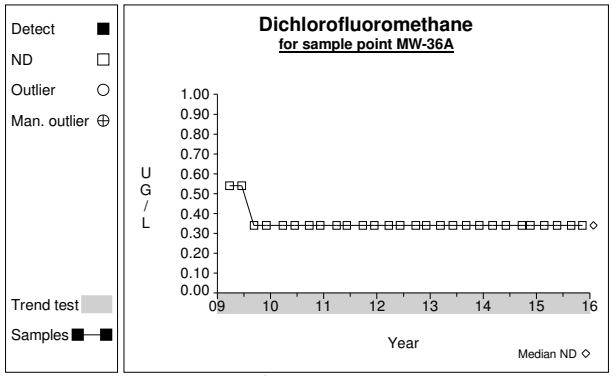


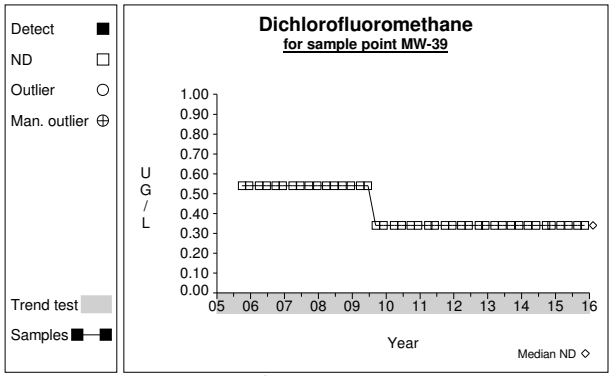
Graph 345



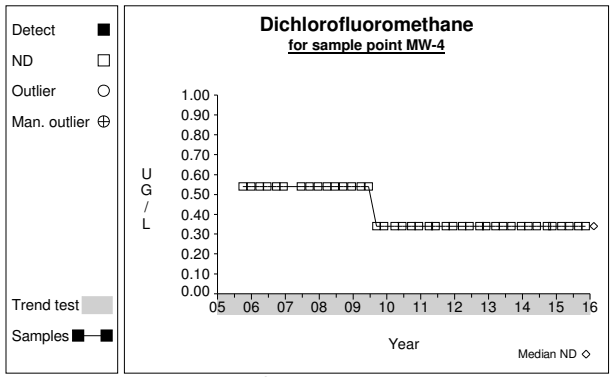
Graph 346



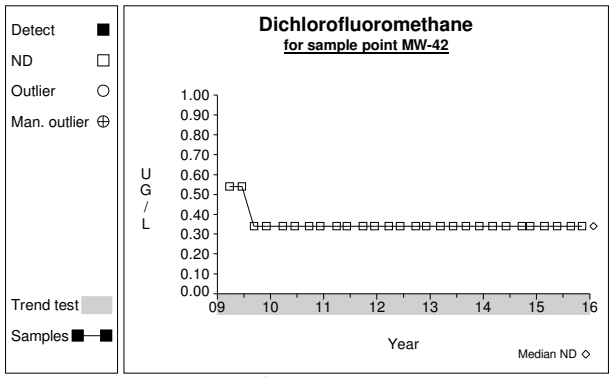
Graph 347



Graph 348



Graph 349



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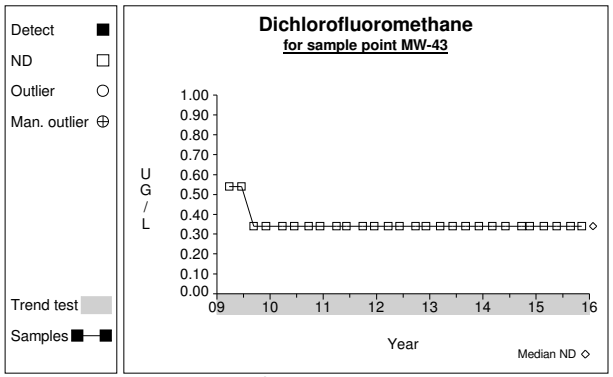
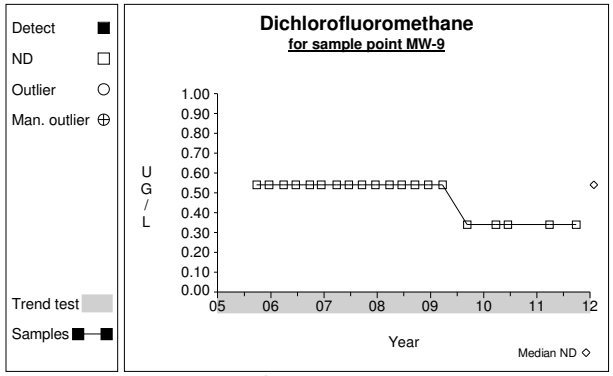


Graph 351

Time Series



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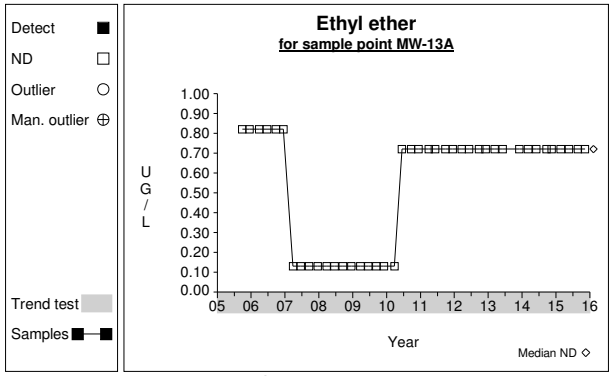

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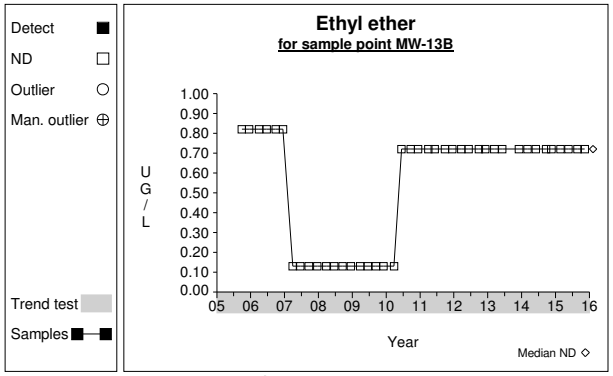

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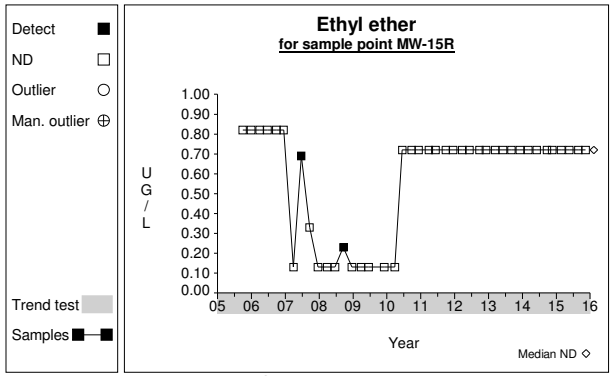
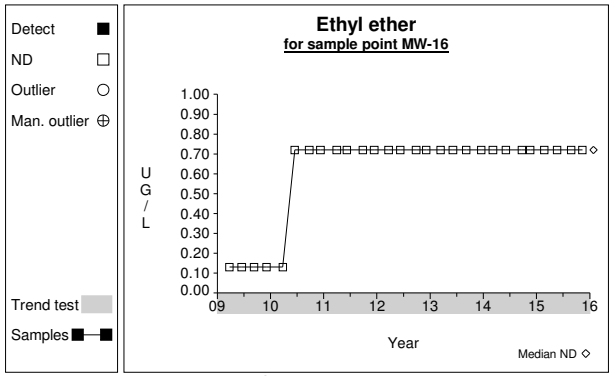
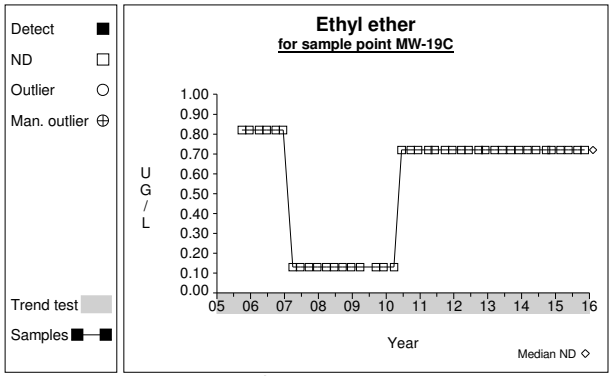


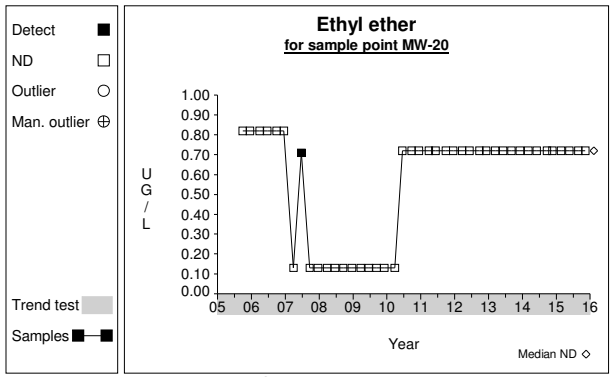
Graph 355



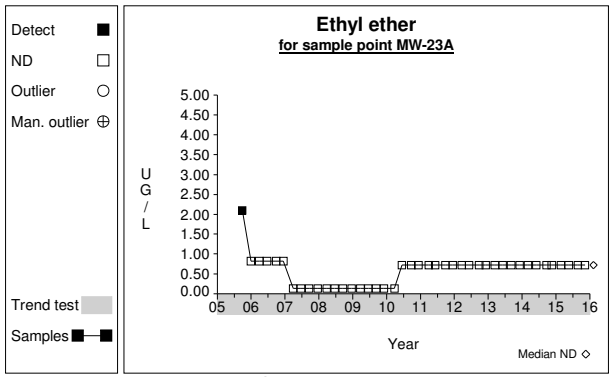
Graph 356



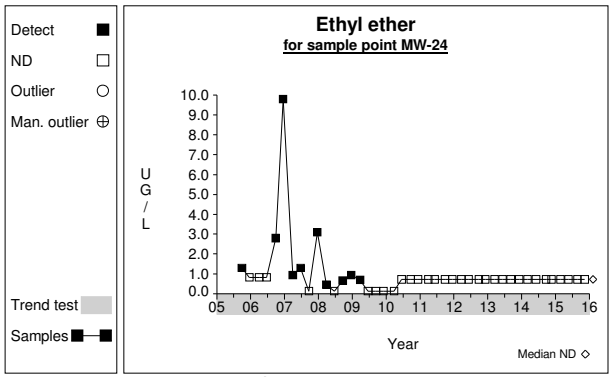
Graph 357



Graph 358

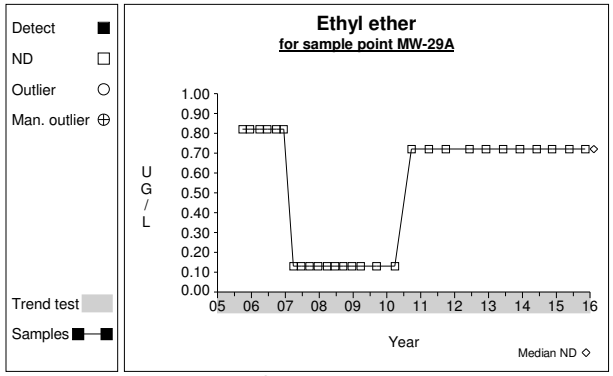


Graph 359

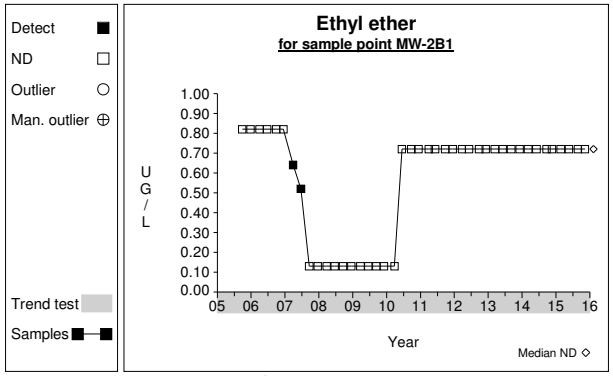


Graph 360

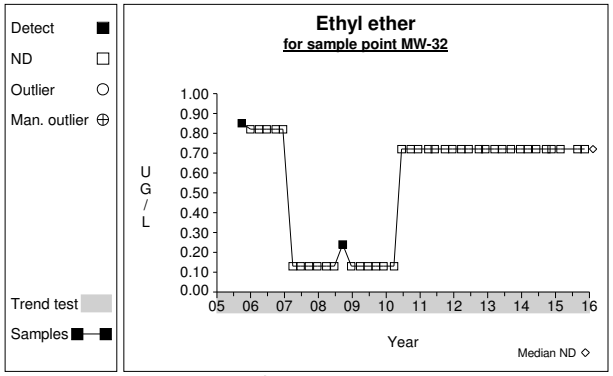
Time Series



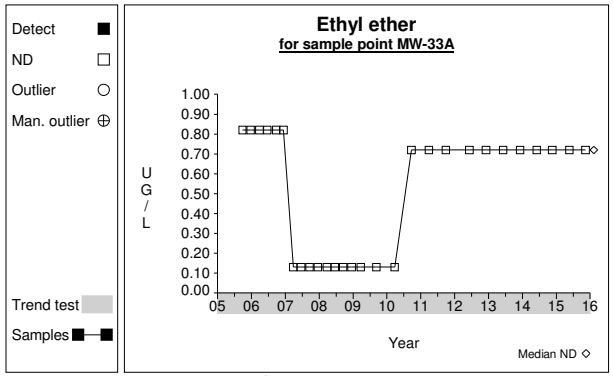
Graph 361



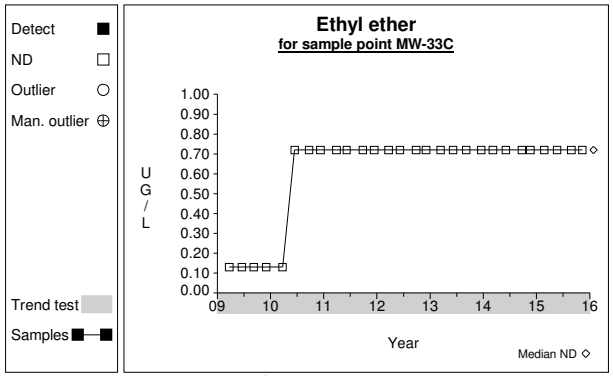
Graph 362



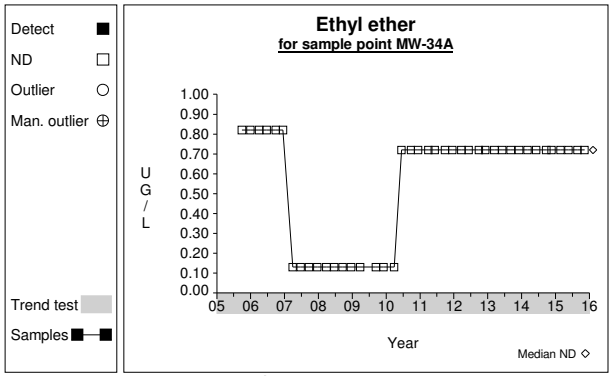
Graph 363



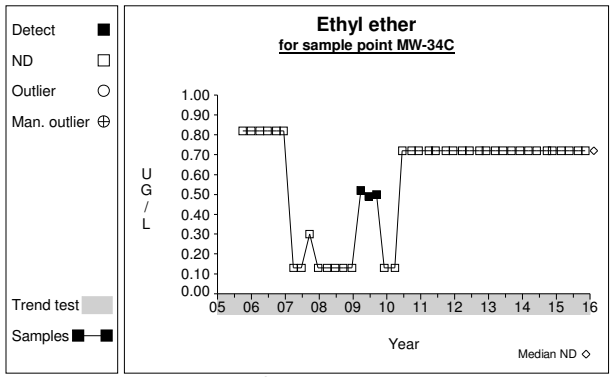
Graph 364



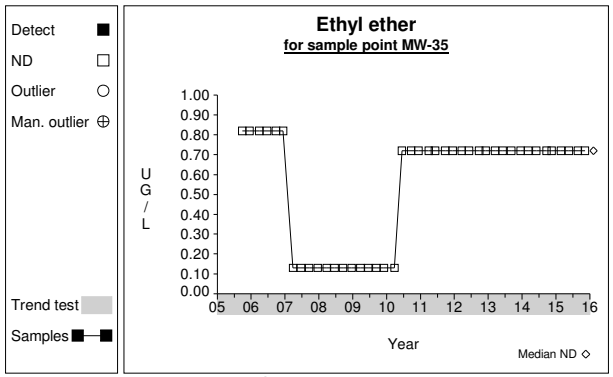
Graph 365



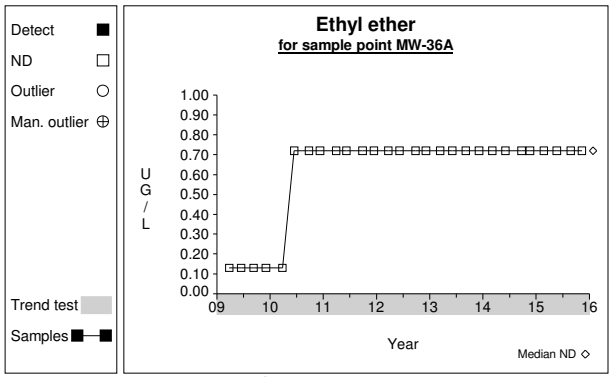
Graph 366



Graph 367

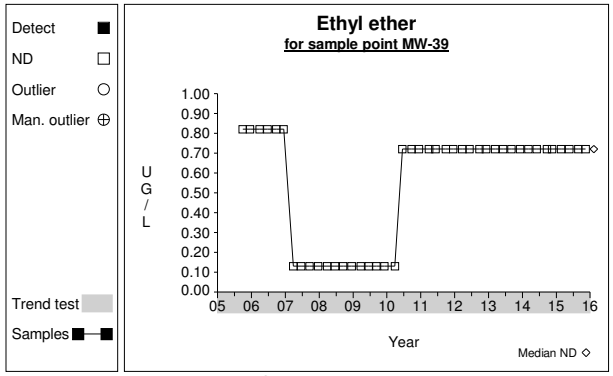


Graph 368

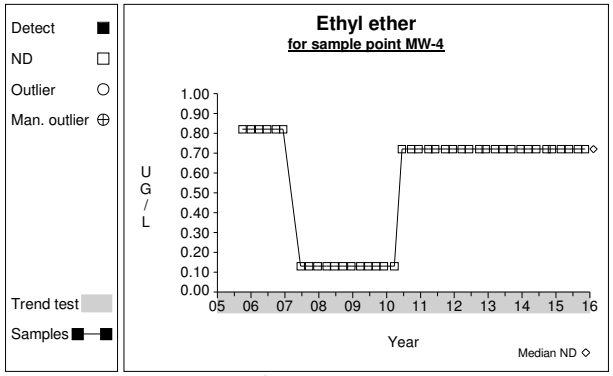


Graph 369

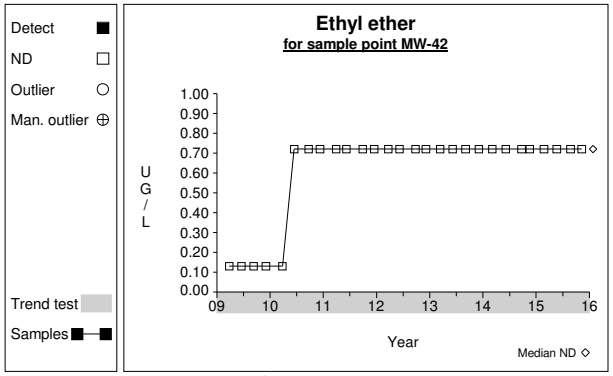
Time Series



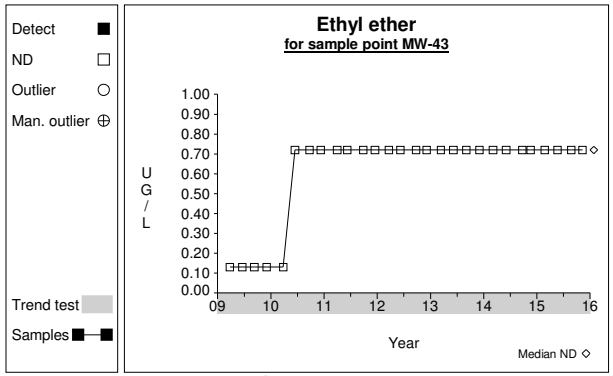
Graph 370



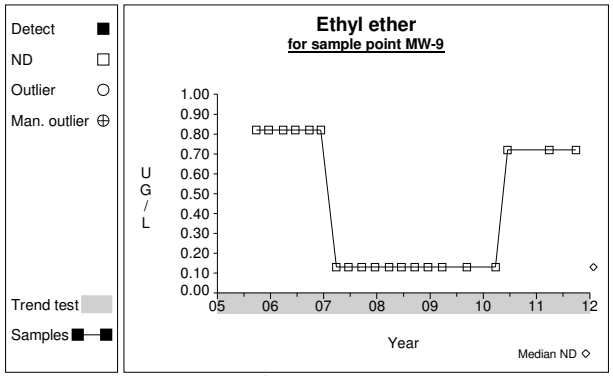
Graph 371



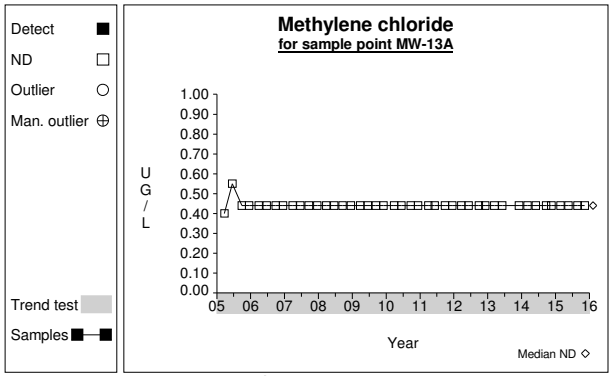
Graph 372



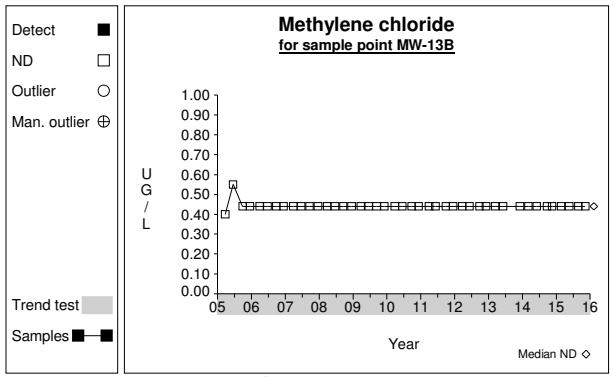
Graph 373



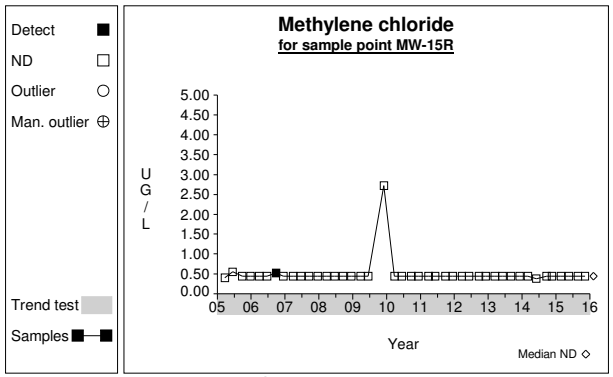
Graph 374



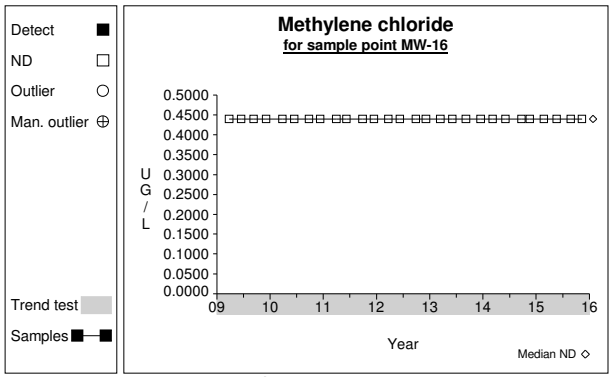
Graph 375



Graph 376

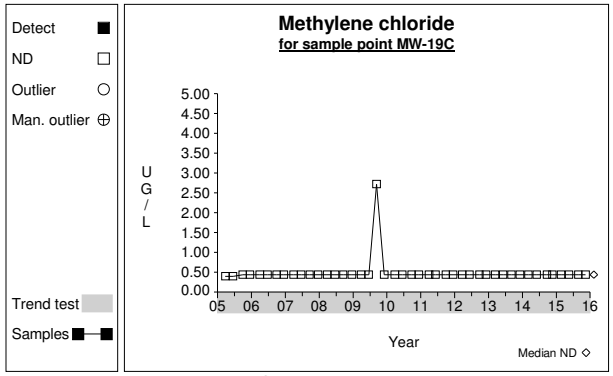


Graph 377

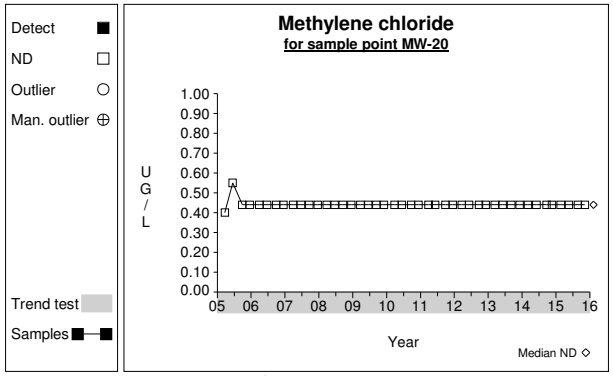


Graph 378

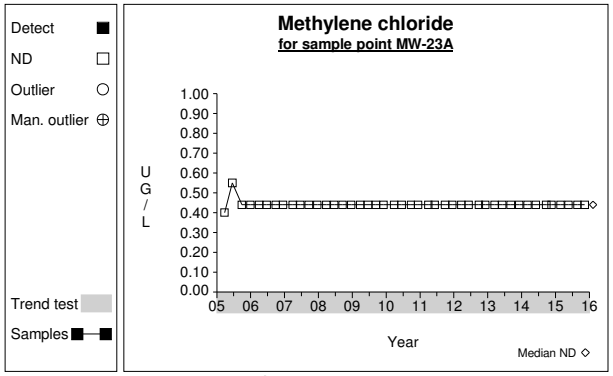
Time Series



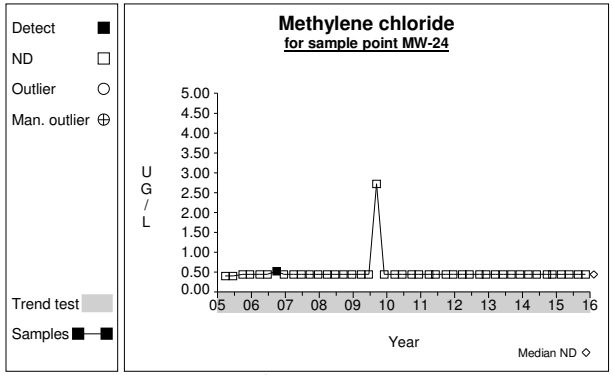
Graph 379



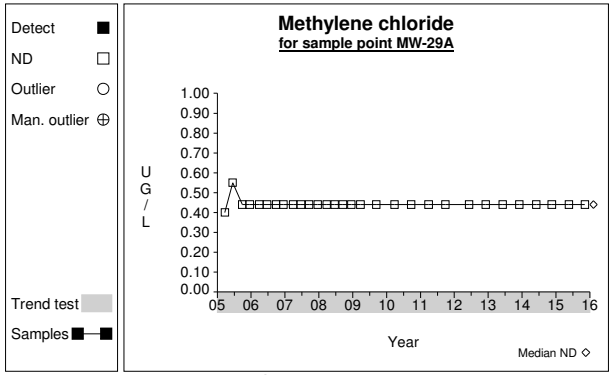
Graph 380



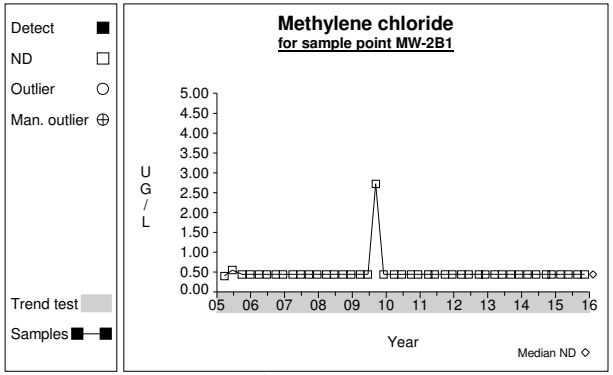
Graph 381



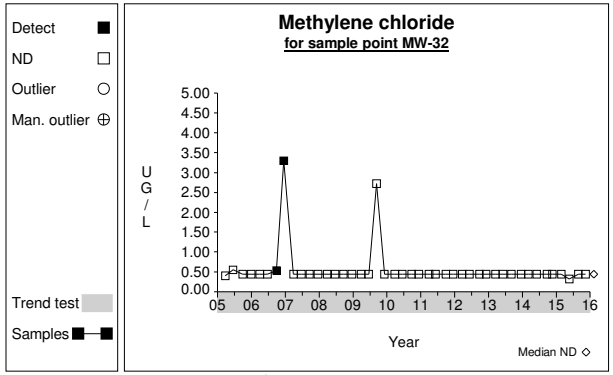
Graph 382



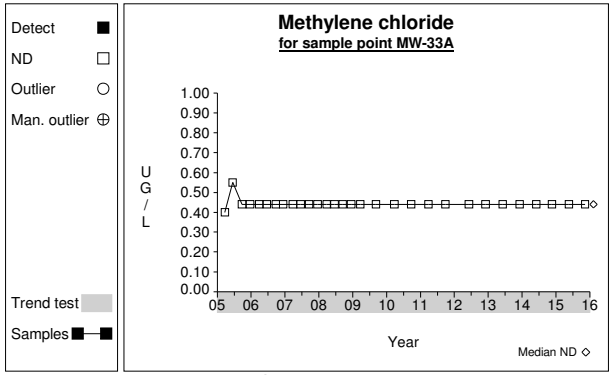
Graph 383



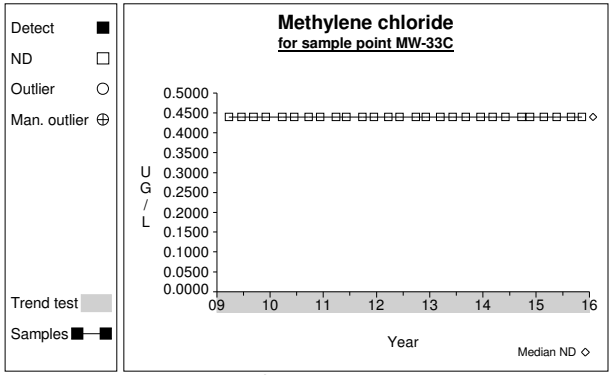
Graph 384



Graph 385

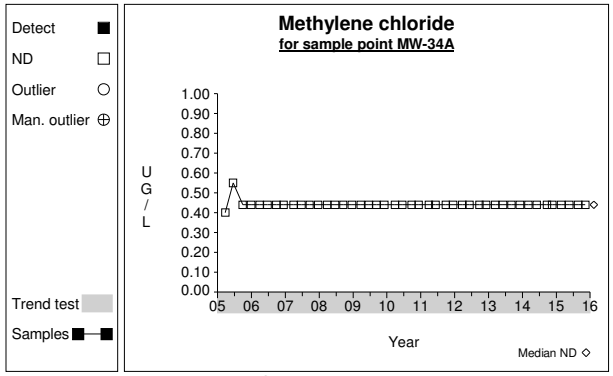


Graph 386

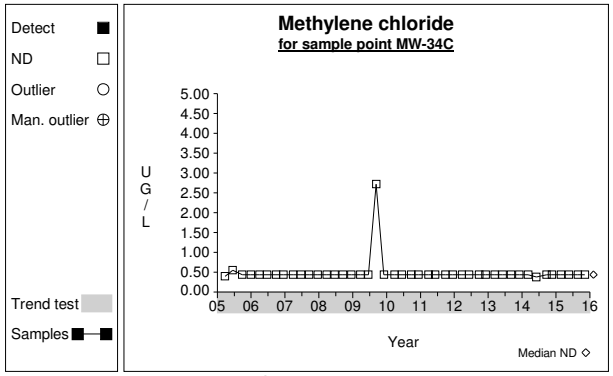


Graph 387

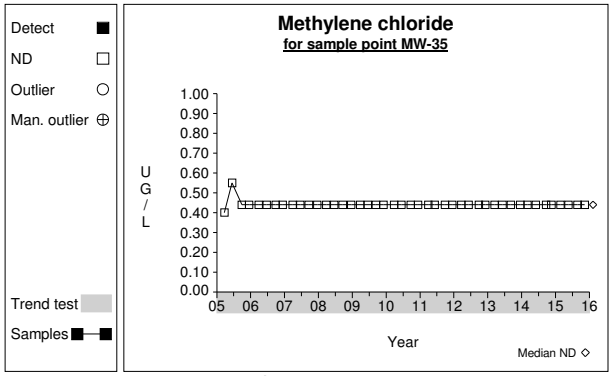
Time Series



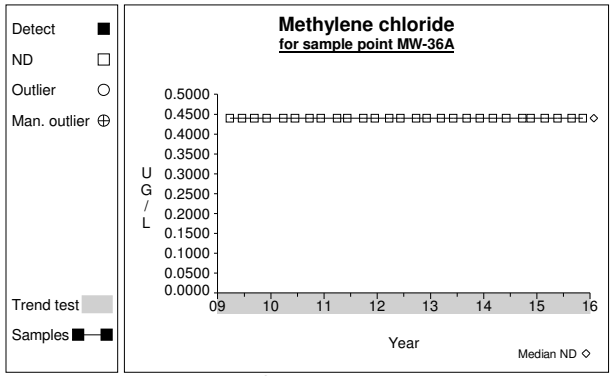
Graph 388



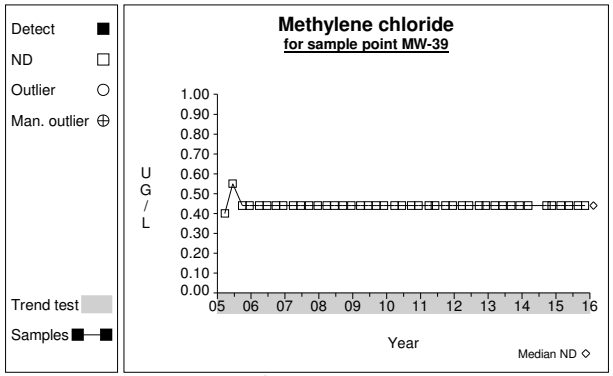
Graph 389



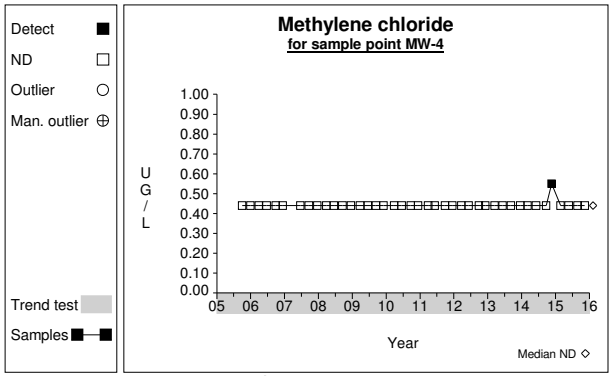
Graph 390



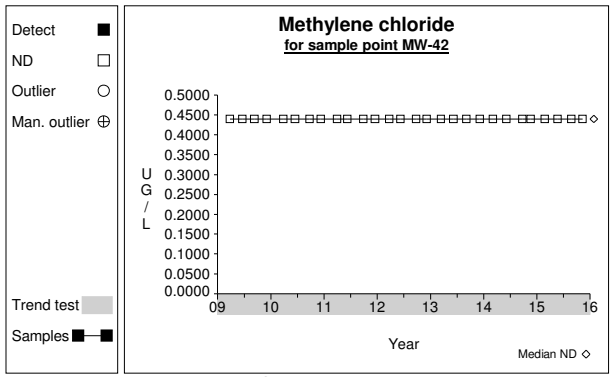
Graph 391



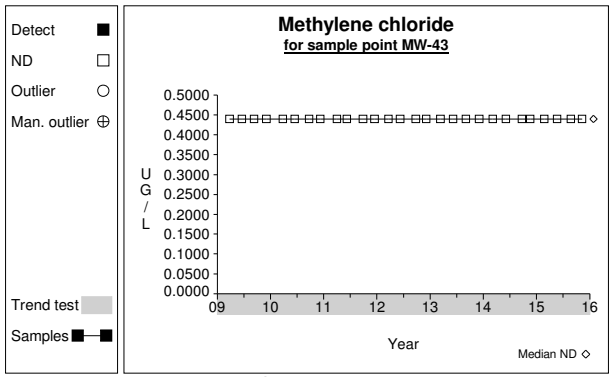
Graph 392



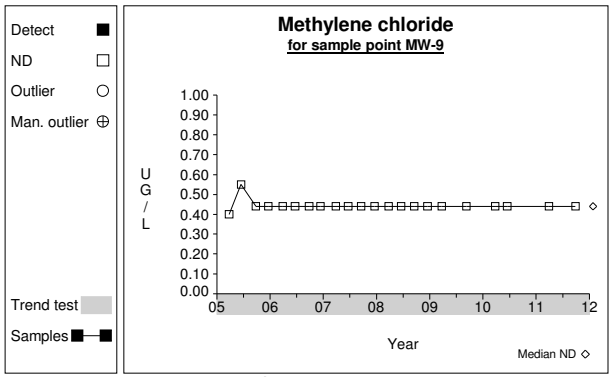
Graph 393



Graph 394

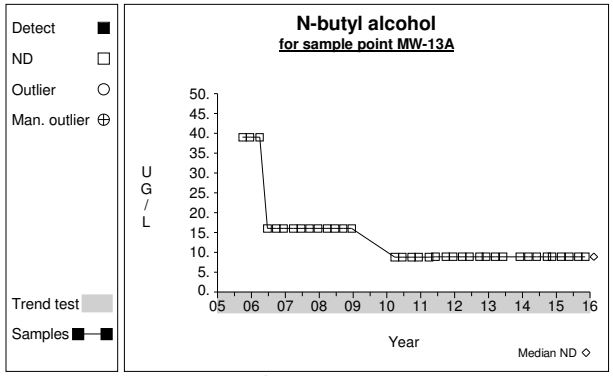


Graph 395

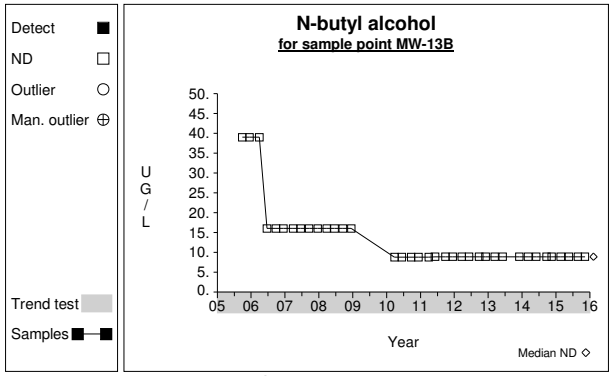


Graph 396

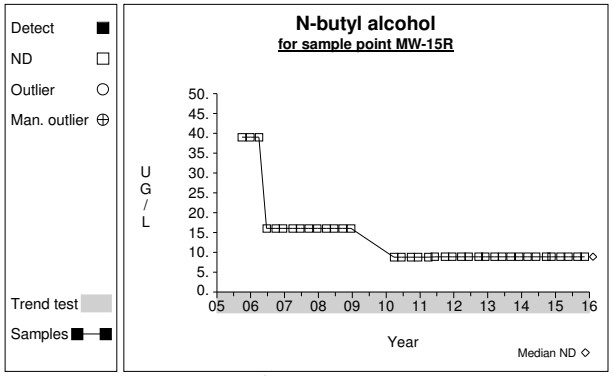
Time Series



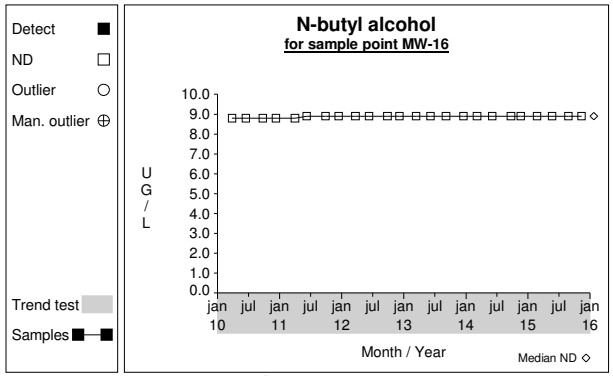
Graph 397



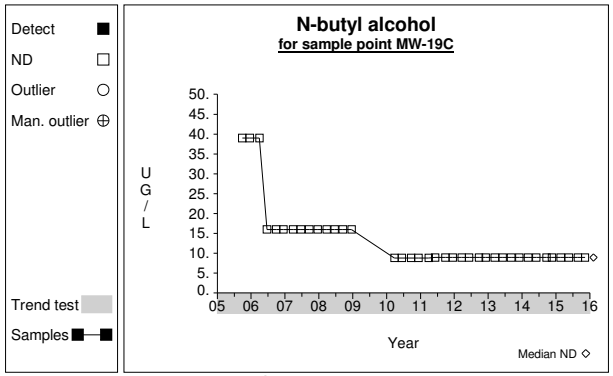
Graph 398



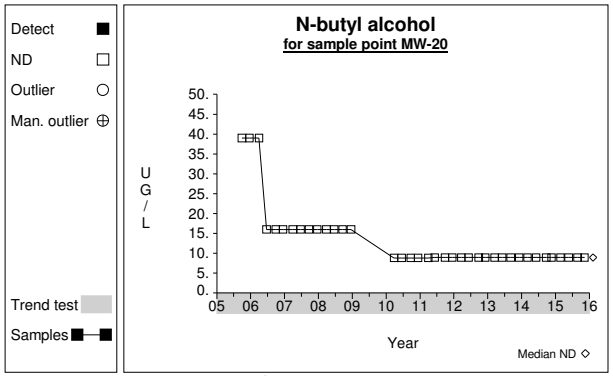
Graph 399



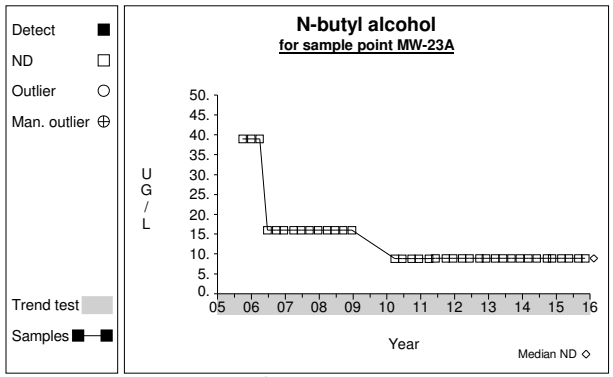
Graph 400



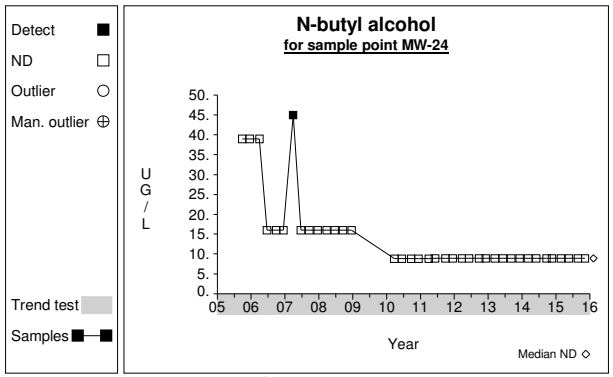
Graph 401



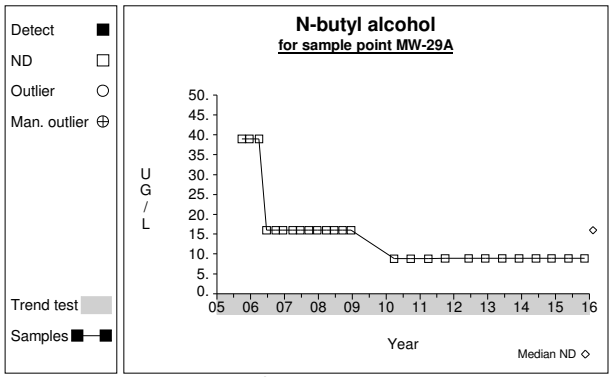
Graph 402



Graph 403

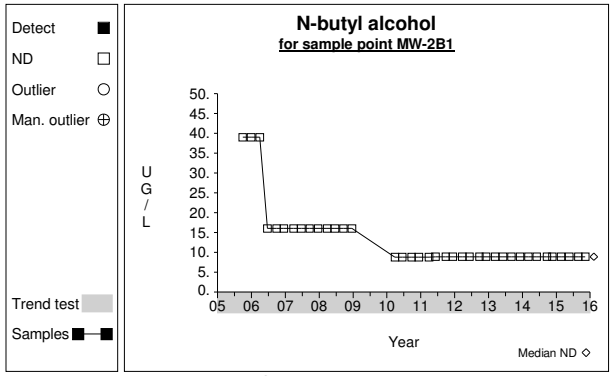


Graph 404

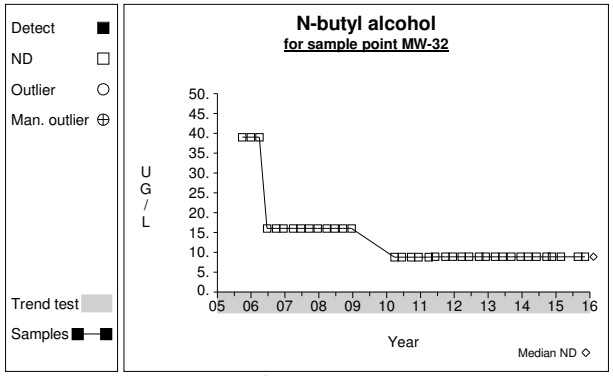


Graph 405

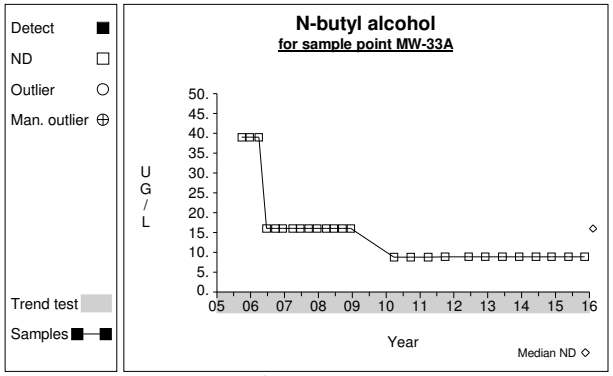
Time Series



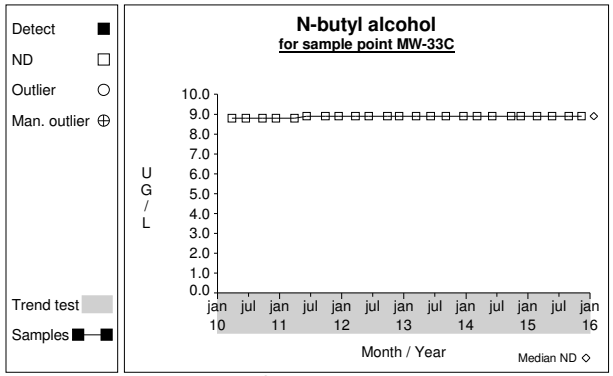
Graph 406



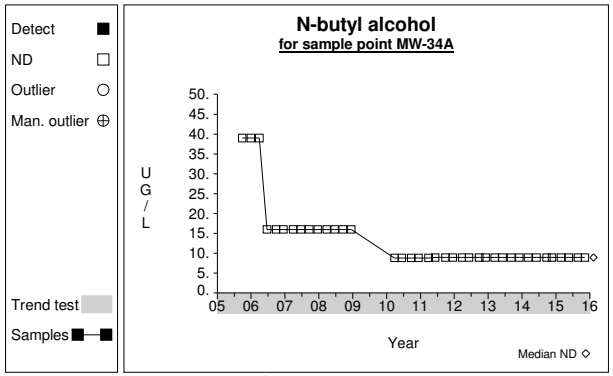
Graph 407



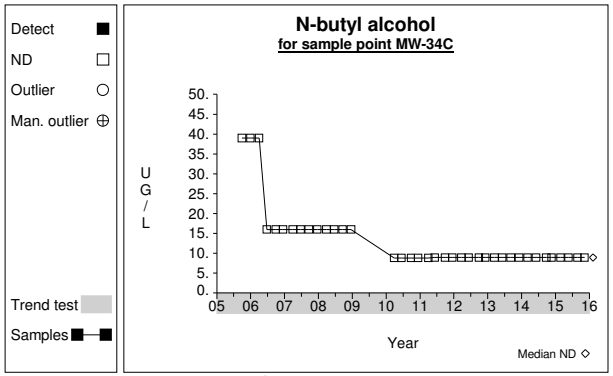
Graph 408



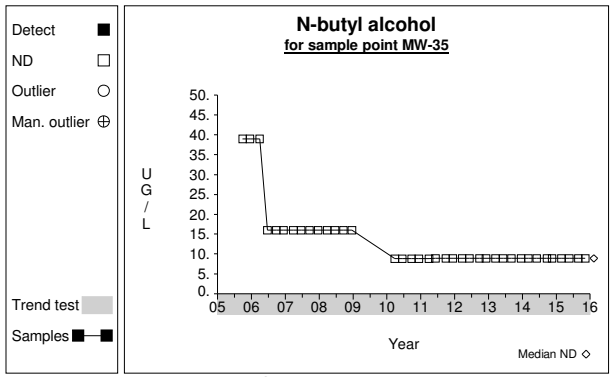
Graph 409



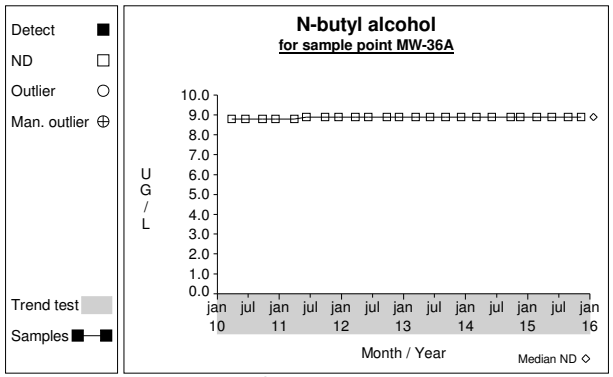
Graph 410



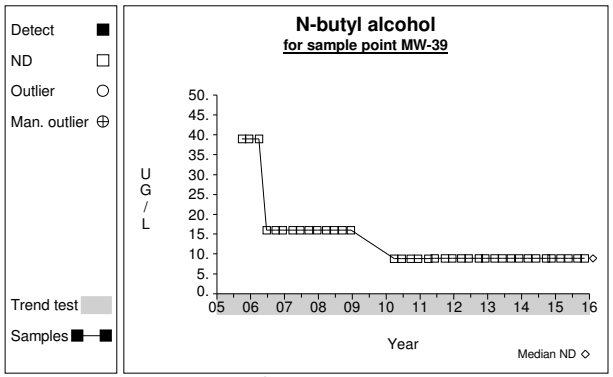
Graph 411



Graph 412

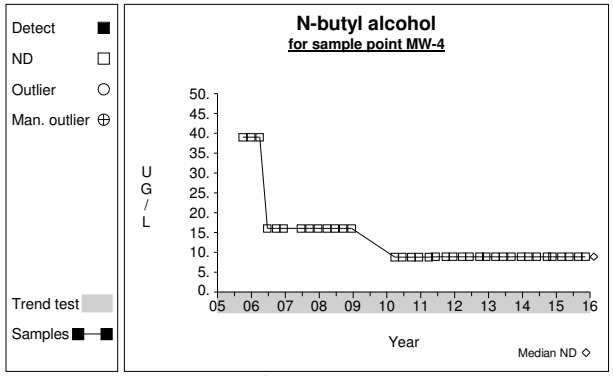


Graph 413

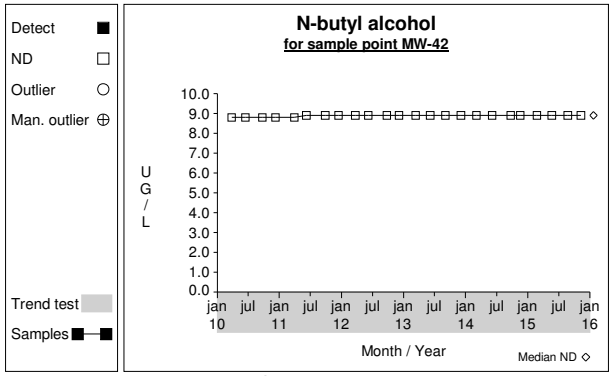


Graph 414

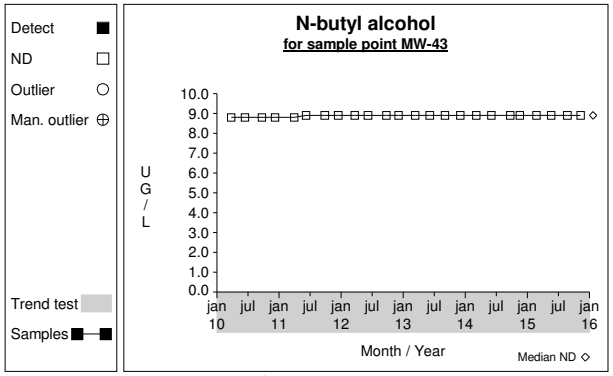
Time Series



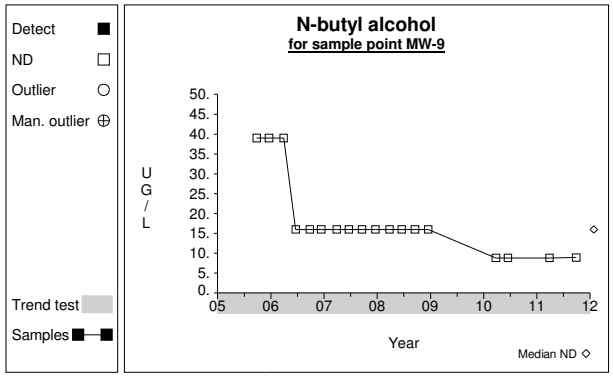
Graph 415



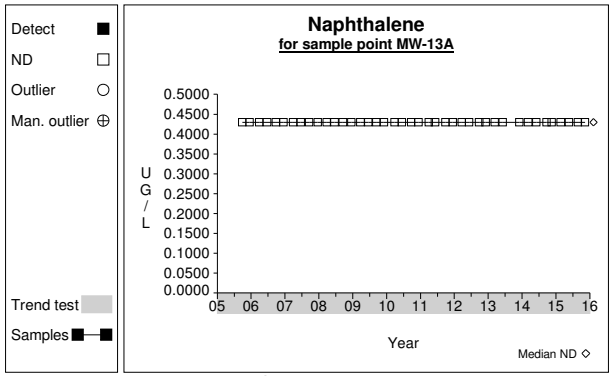
Graph 416



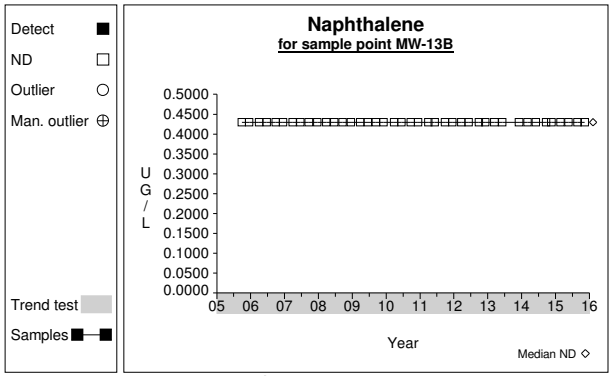
Graph 417



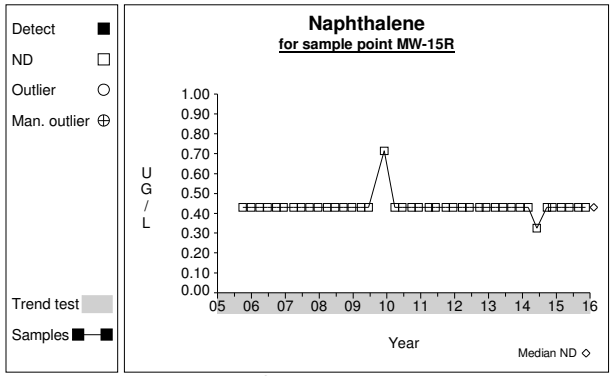
Graph 418



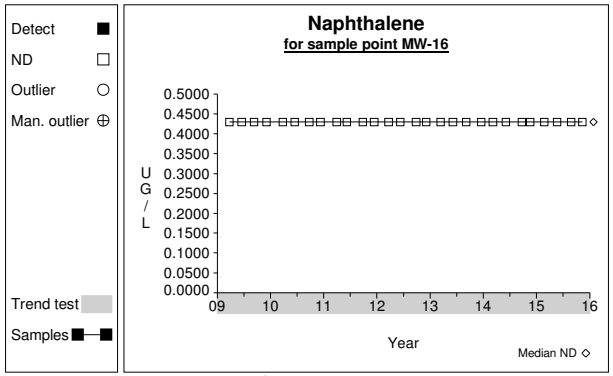
Graph 419



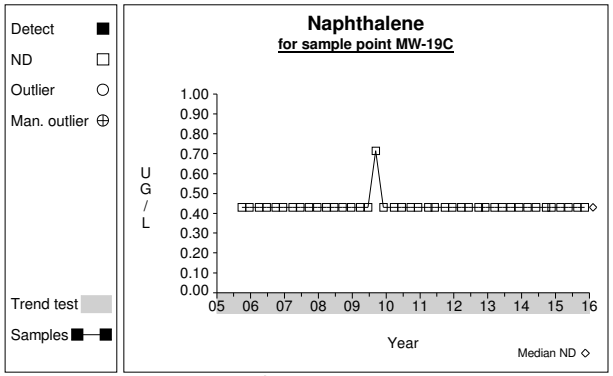
Graph 420



Graph 421

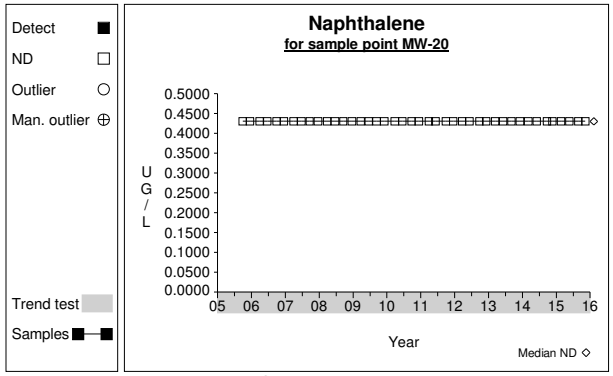


Graph 422

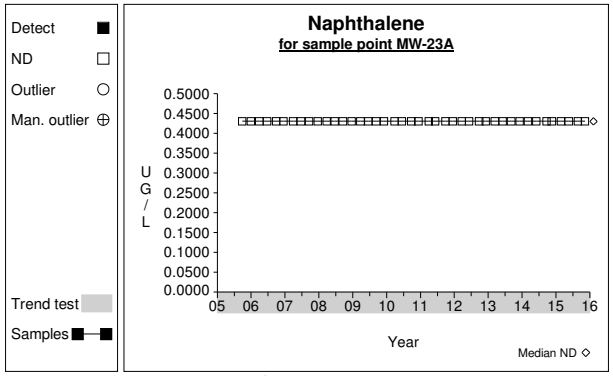


Graph 423

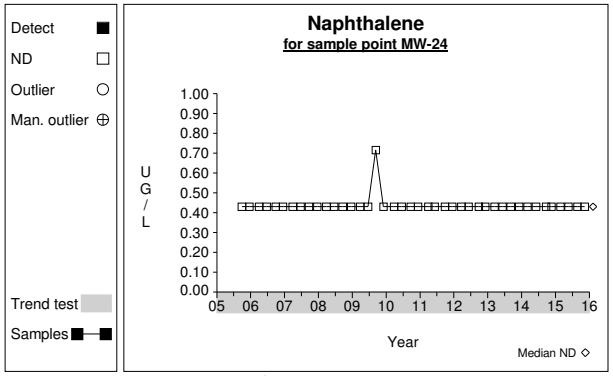
Time Series



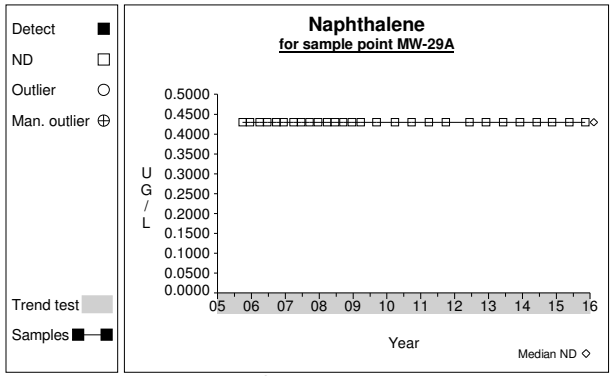
Graph 424



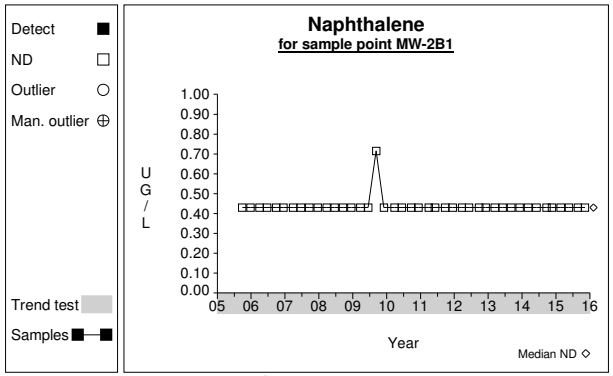
Graph 425



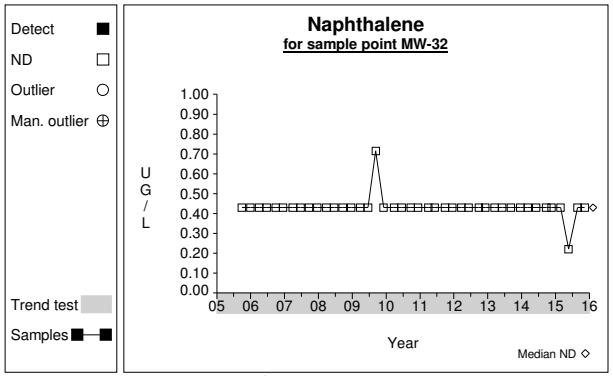
Graph 426



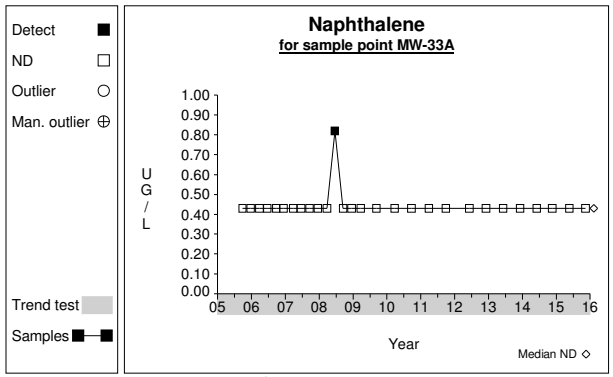
Graph 427



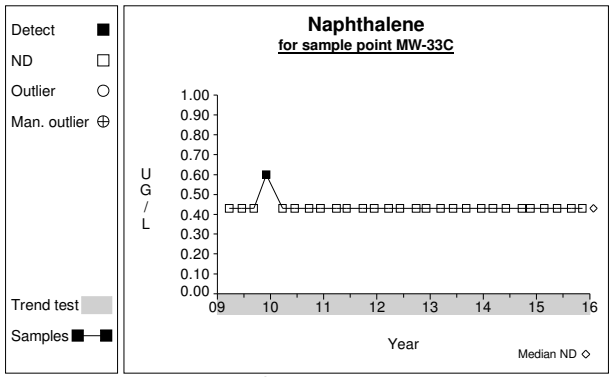
Graph 428



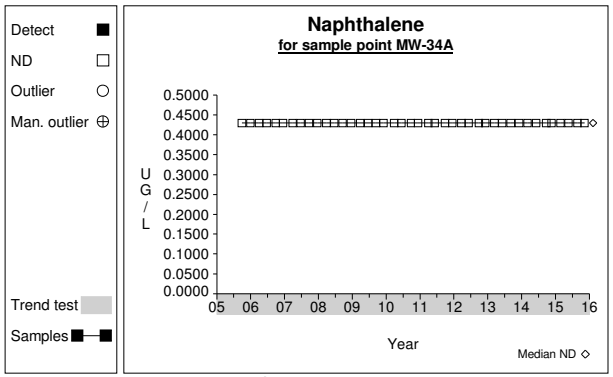
Graph 429



Graph 430

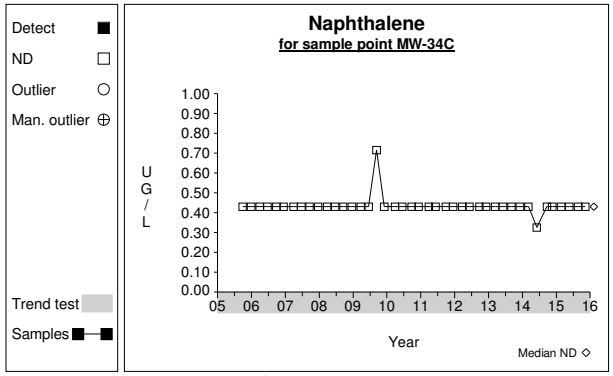


Graph 431

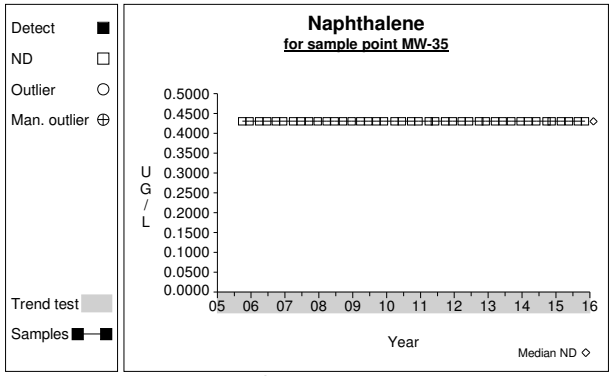


Graph 432

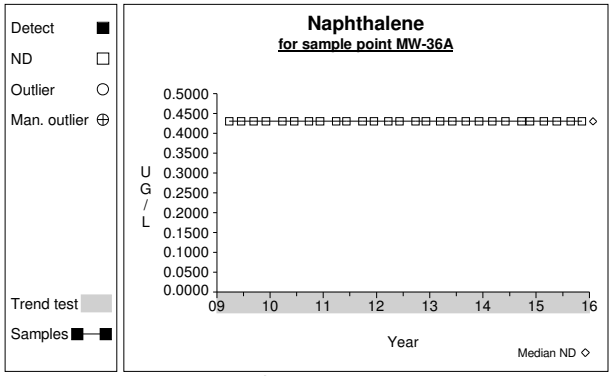
Time Series



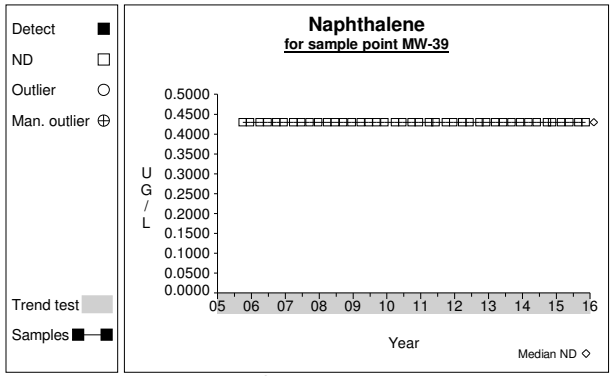
Graph 433



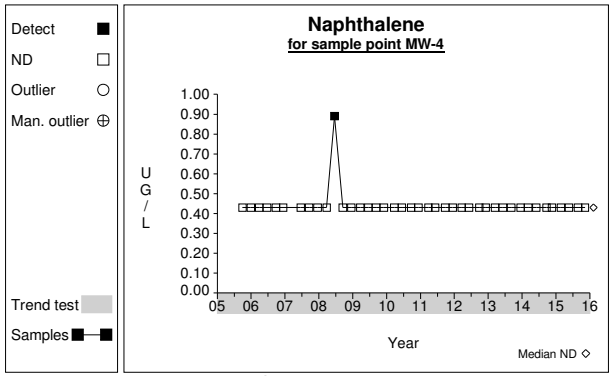
Graph 434



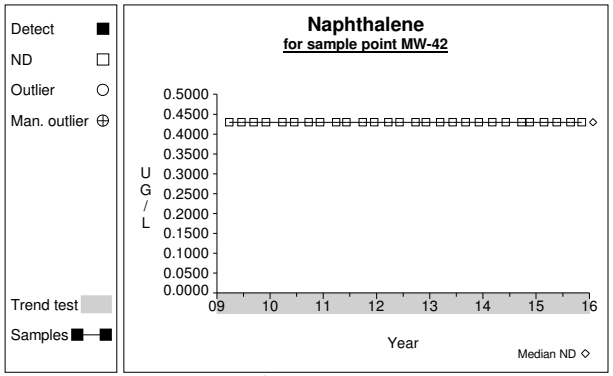
Graph 435



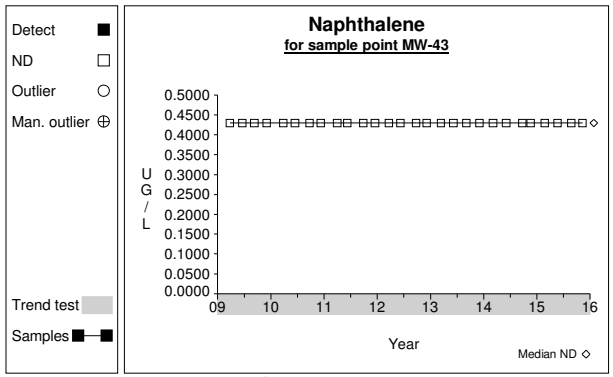
Graph 436



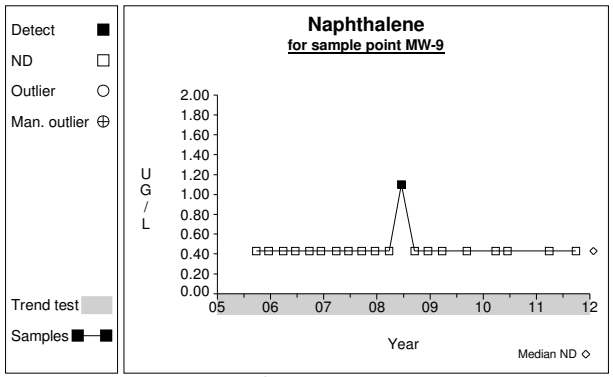
Graph 437



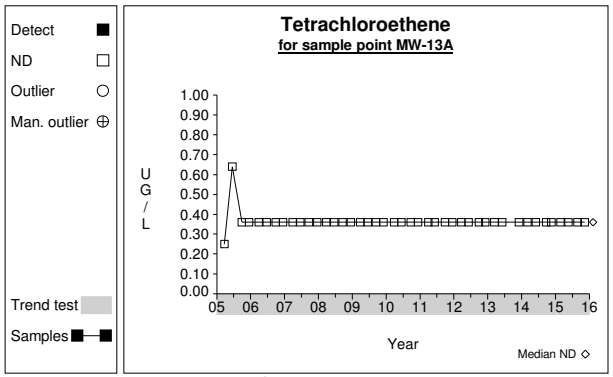
Graph 438



Graph 439

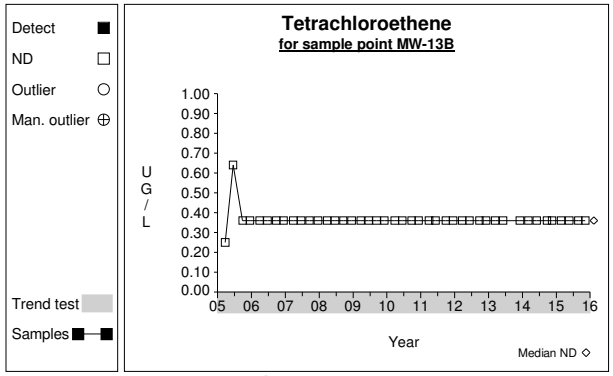


Graph 440

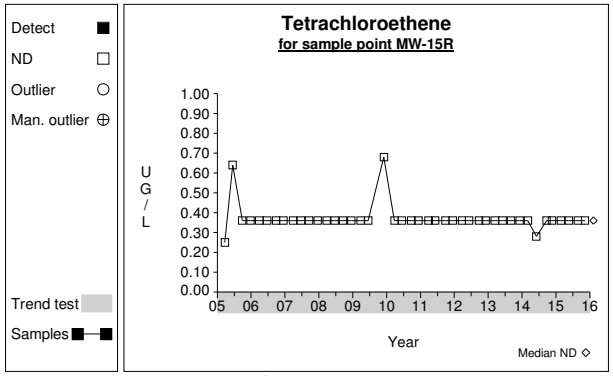


Graph 441

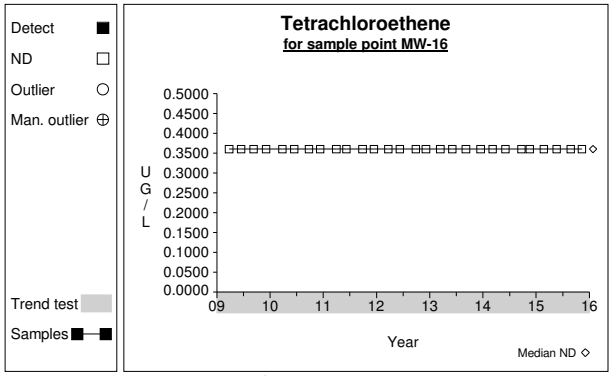
Time Series



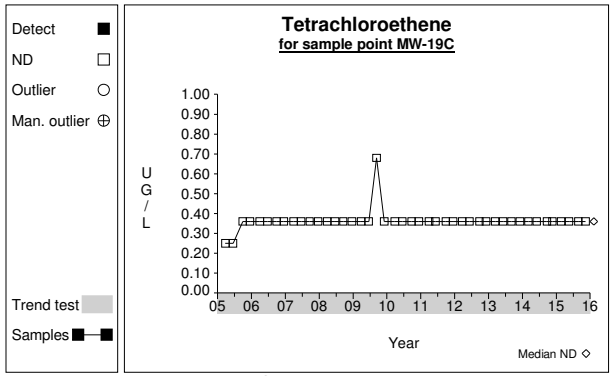
Graph 442



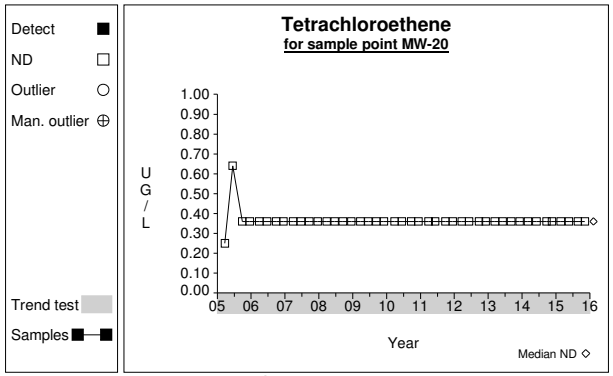
Graph 443



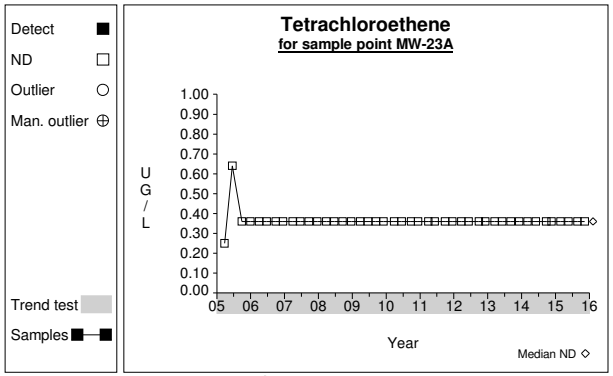
Graph 444



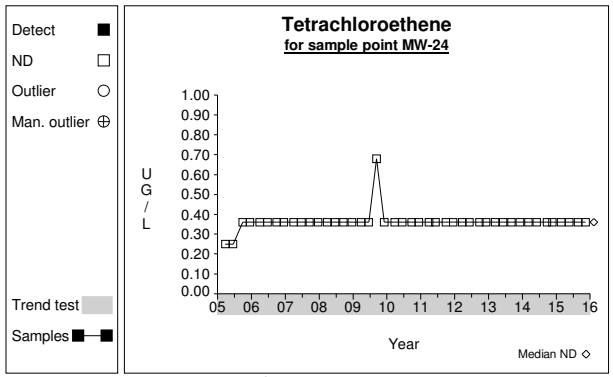
Graph 445



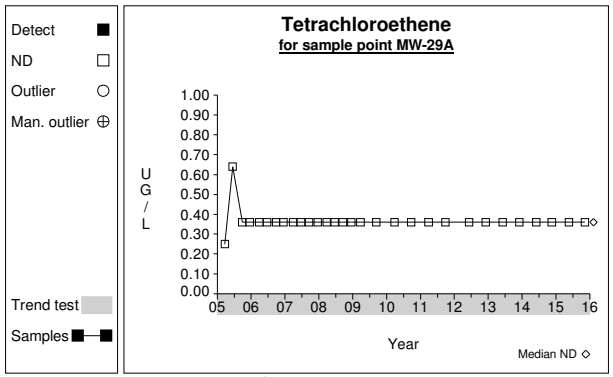
Graph 446



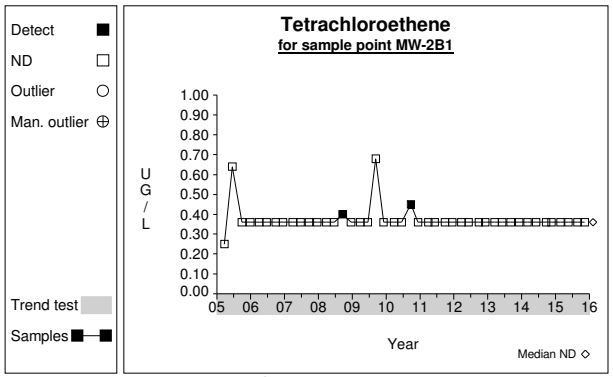
Graph 447



Graph 448

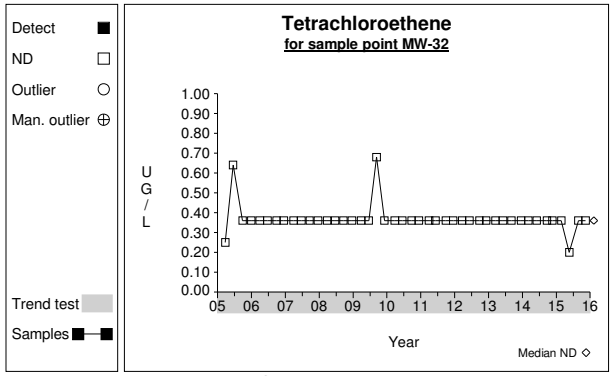


Graph 449

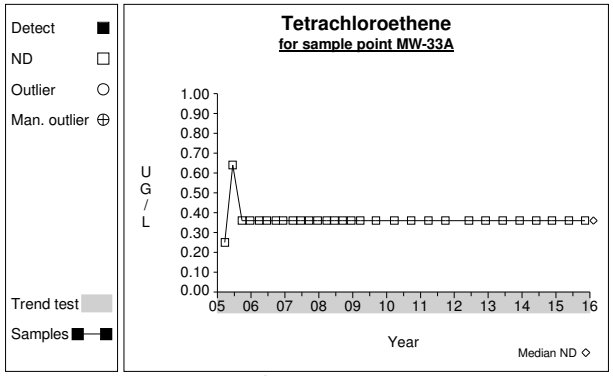


Graph 450

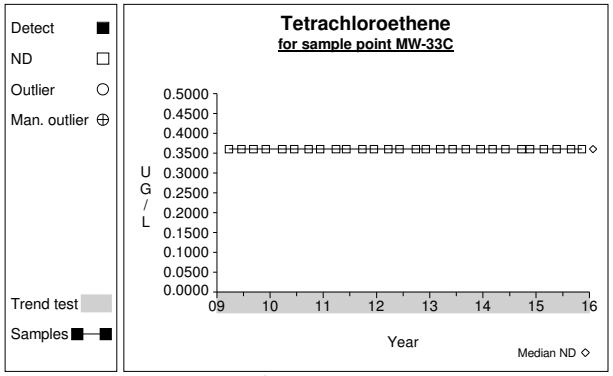
Time Series



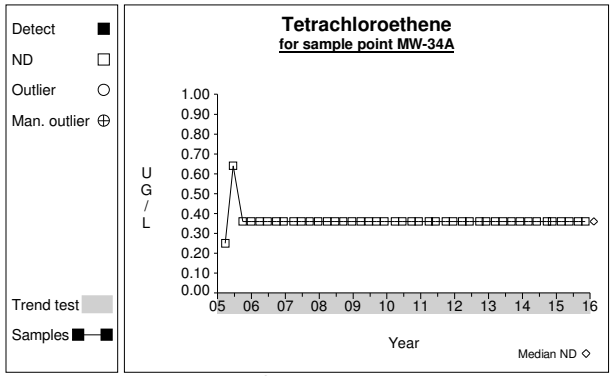
Graph 451



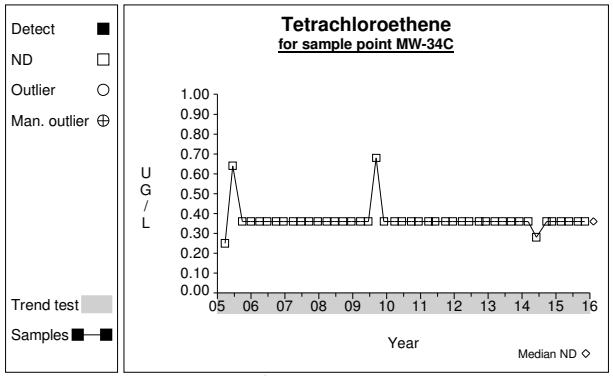
Graph 452



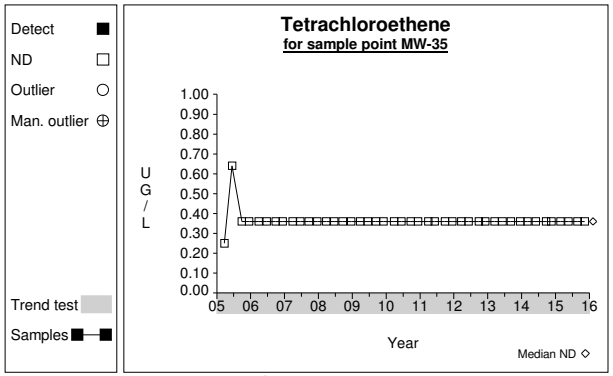
Graph 453



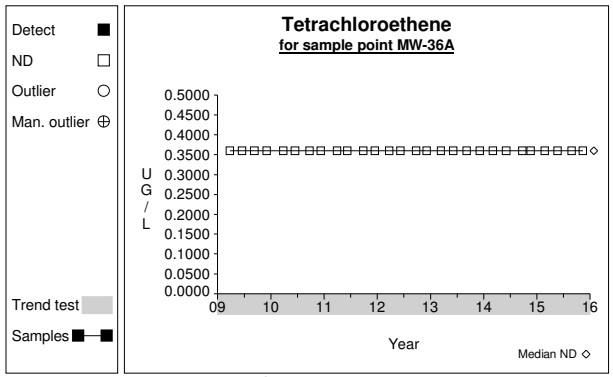
Graph 454



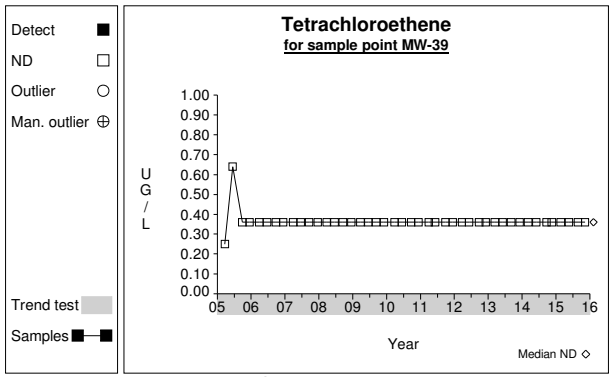
Graph 455



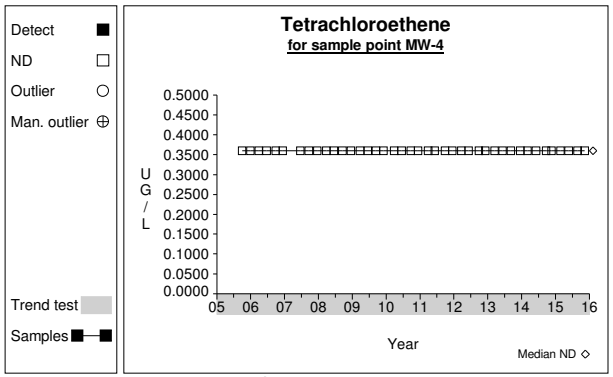
Graph 456



Graph 457

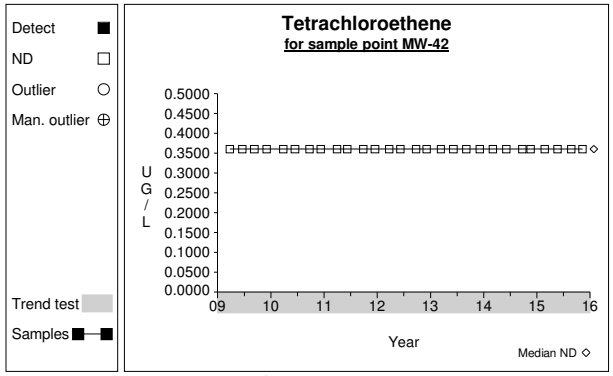


Graph 458

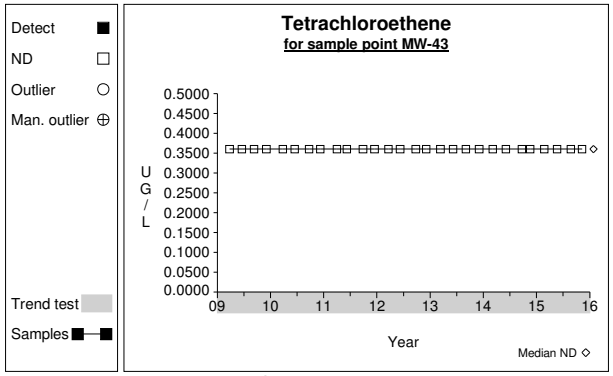


Graph 459

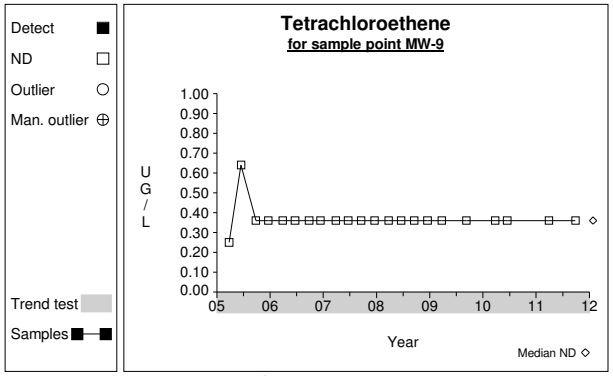
Time Series



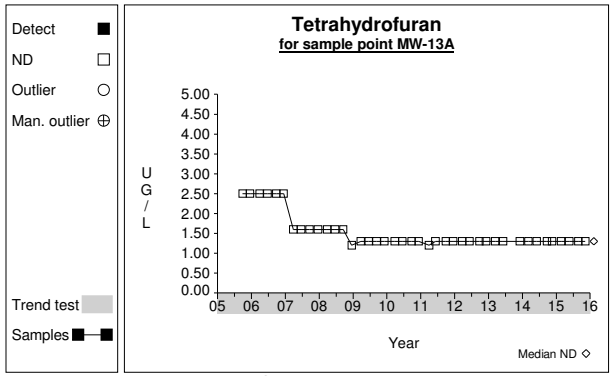
Graph 460



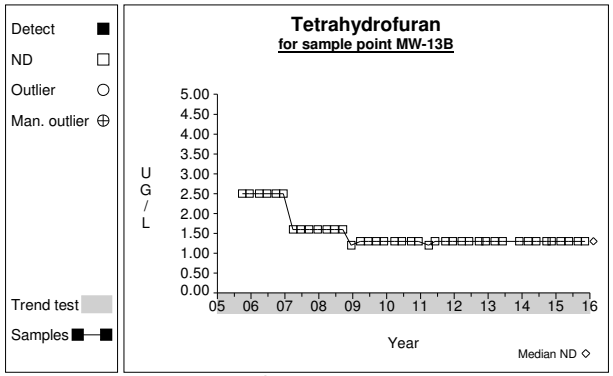
Graph 461



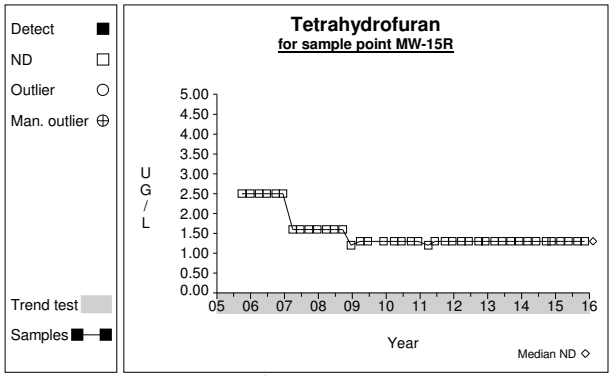
Graph 462



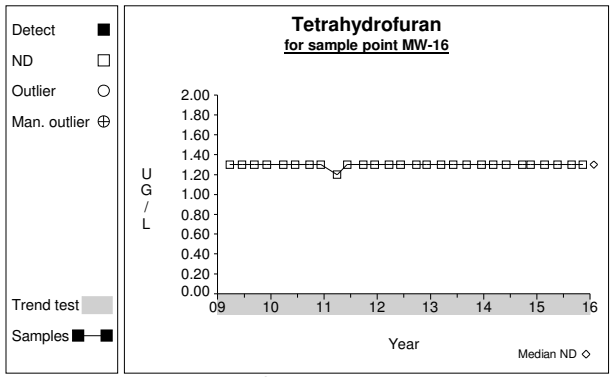
Graph 463



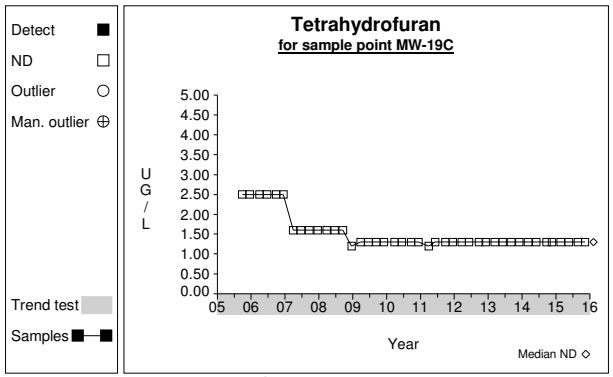
Graph 464



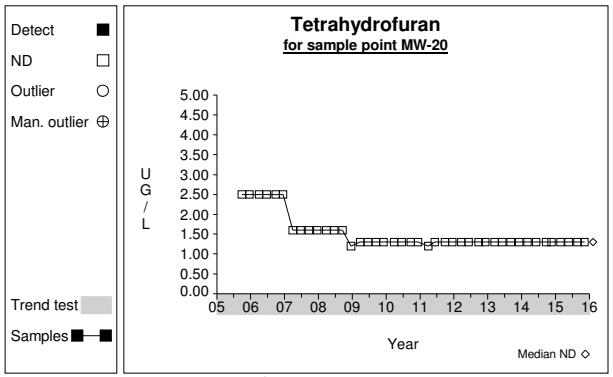
Graph 465



Graph 466

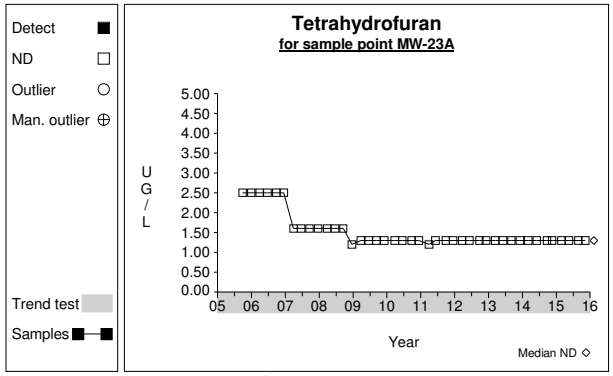


Graph 467

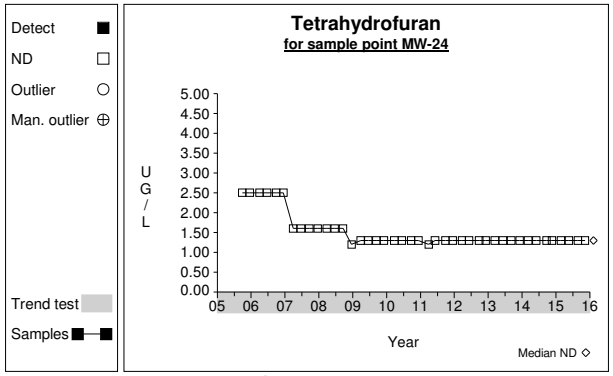


Graph 468

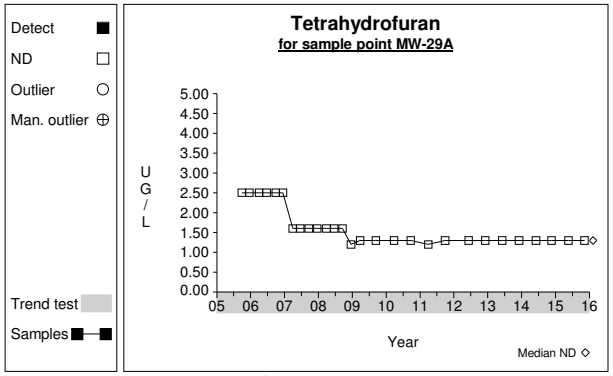
Time Series



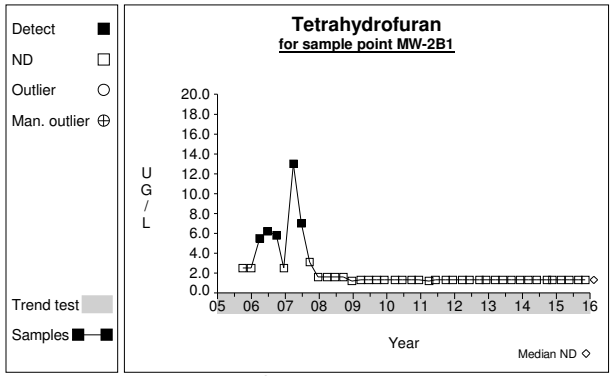
Graph 469



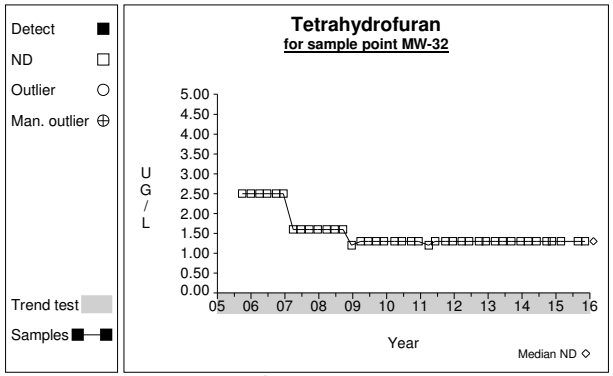
Graph 470



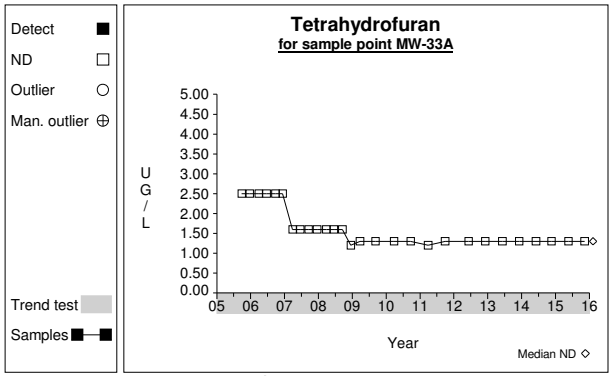
Graph 471



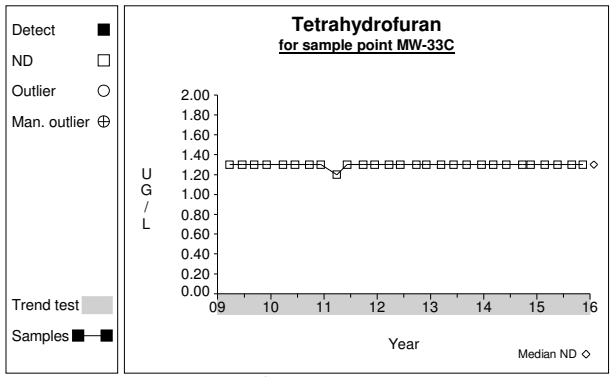
Graph 472



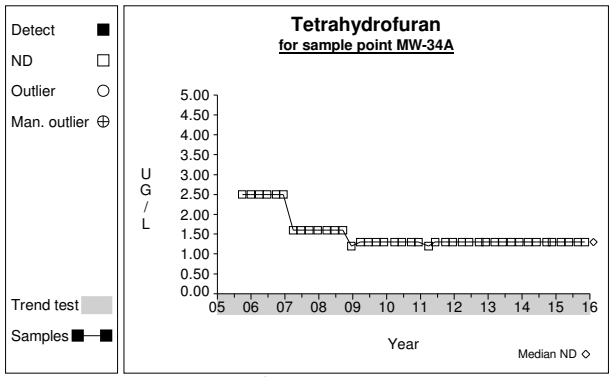
Graph 473



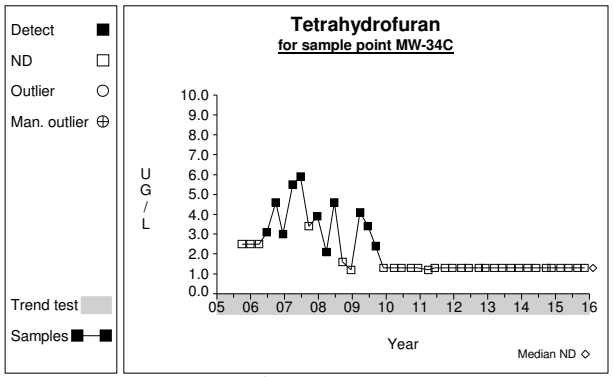
Graph 474



Graph 475

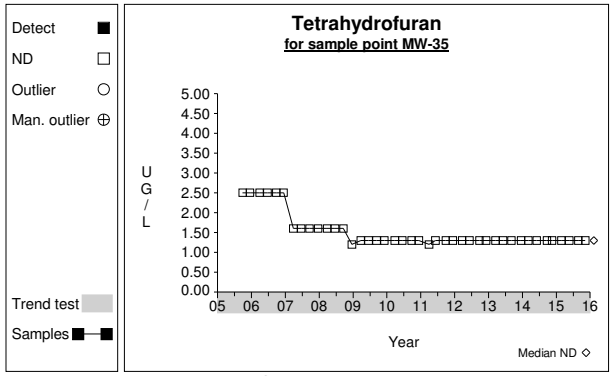


Graph 476

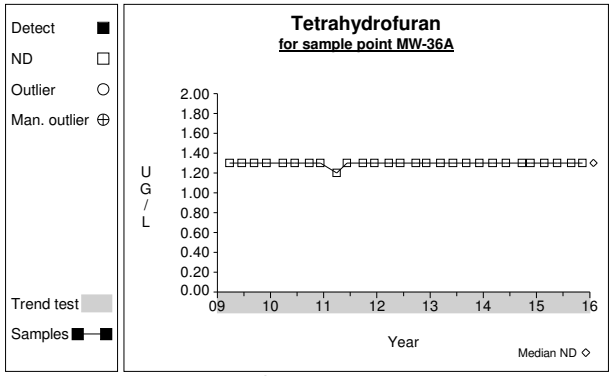


Graph 477

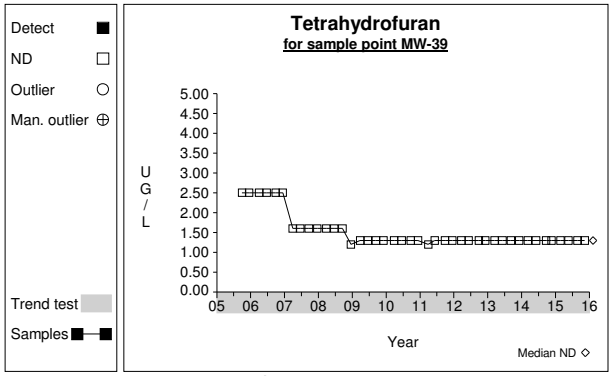
Time Series



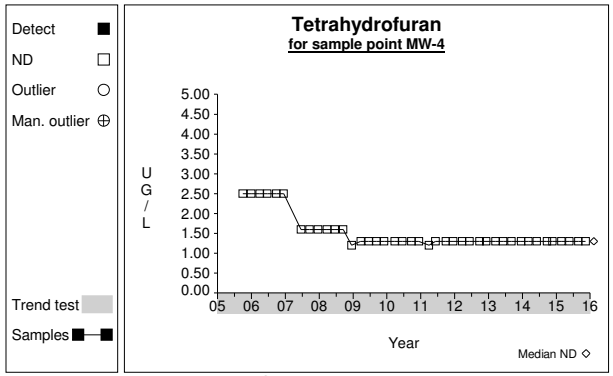
Graph 478



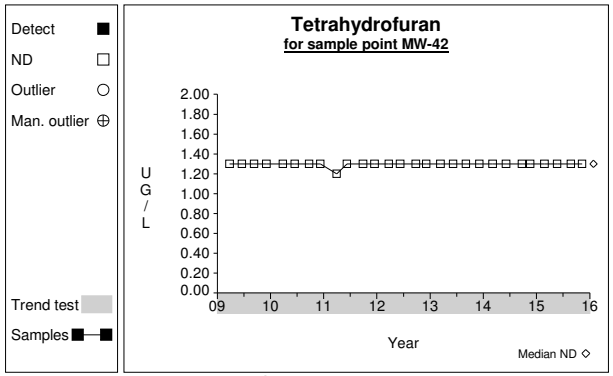
Graph 479



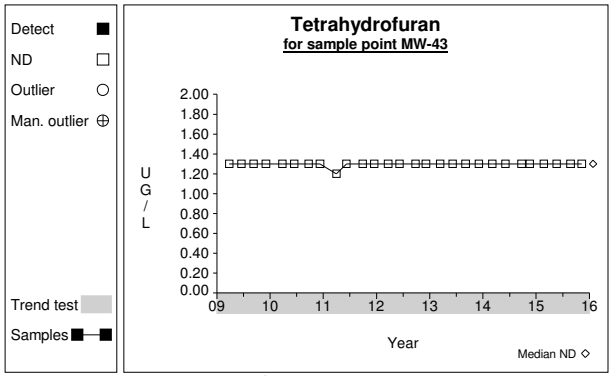
Graph 480



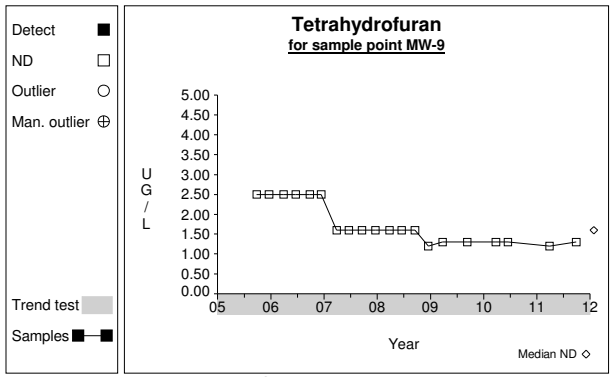
Graph 481



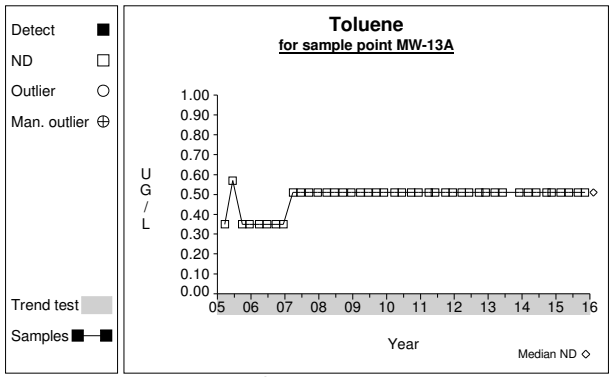
Graph 482



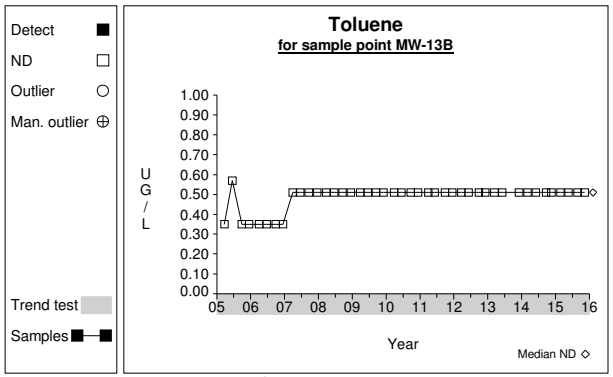
Graph 483



Graph 484

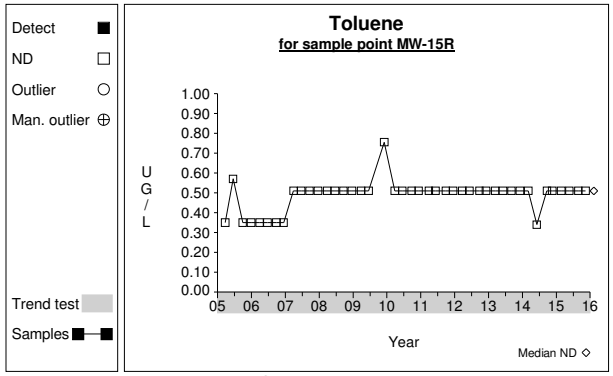


Graph 485

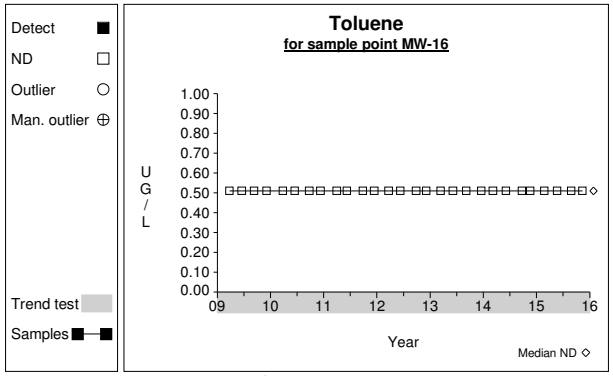


Graph 486

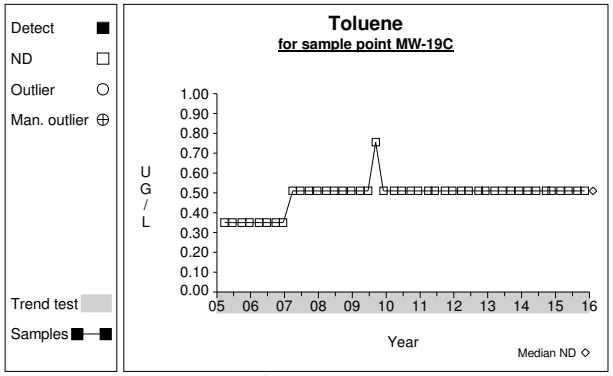
Time Series



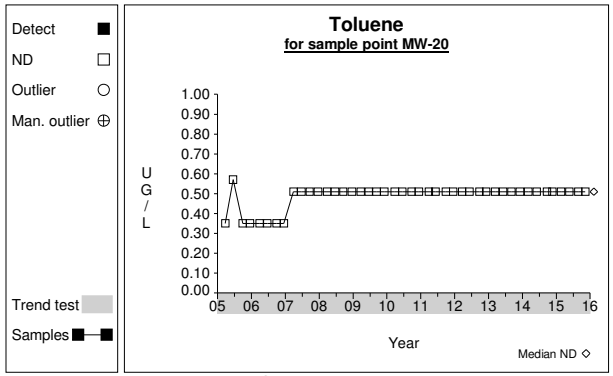
Graph 487



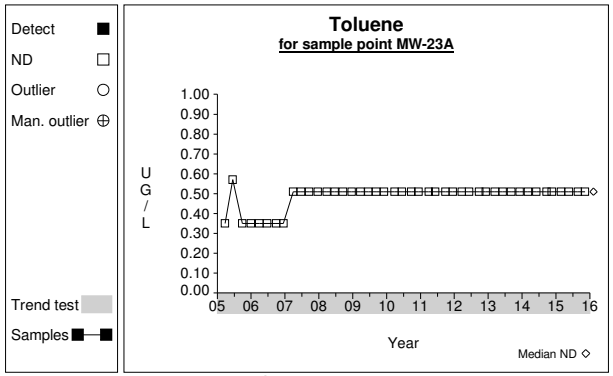
Graph 488



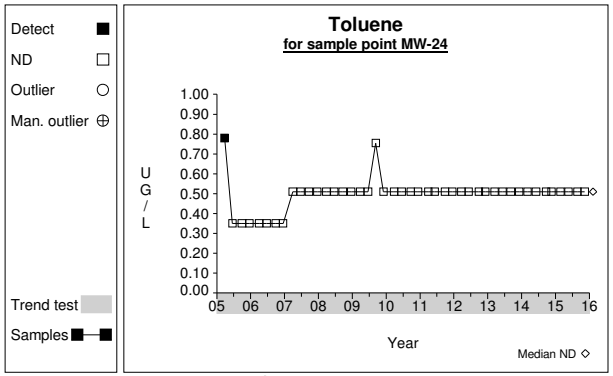
Graph 489



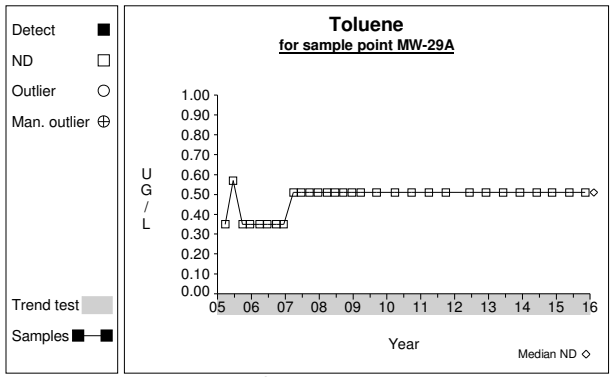
Graph 490



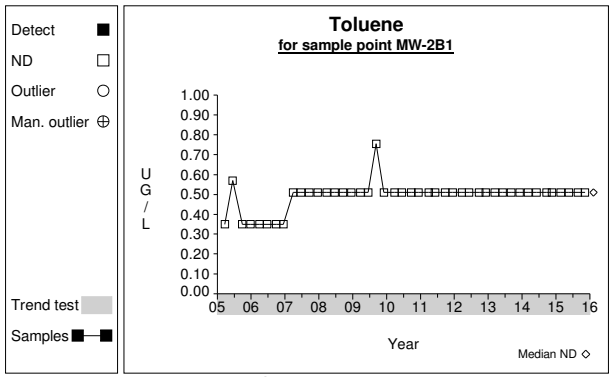
Graph 491



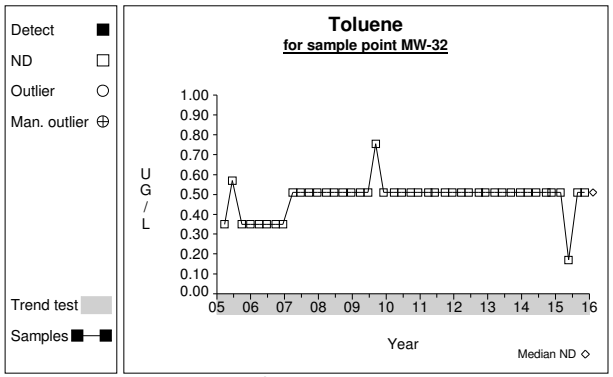
Graph 492



Graph 493

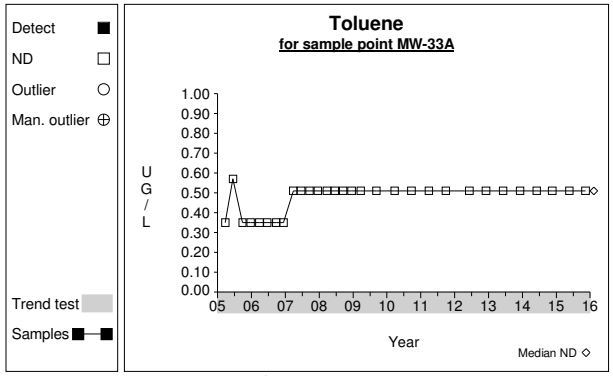


Graph 494

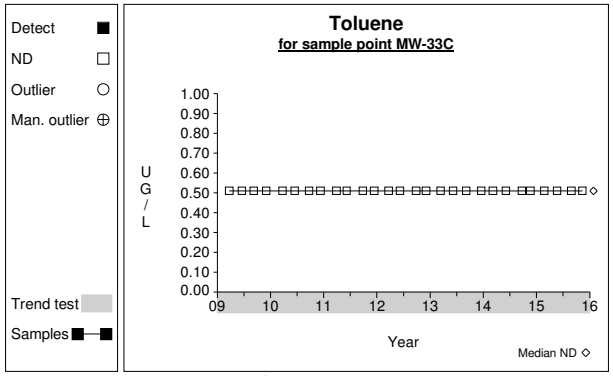


Graph 495

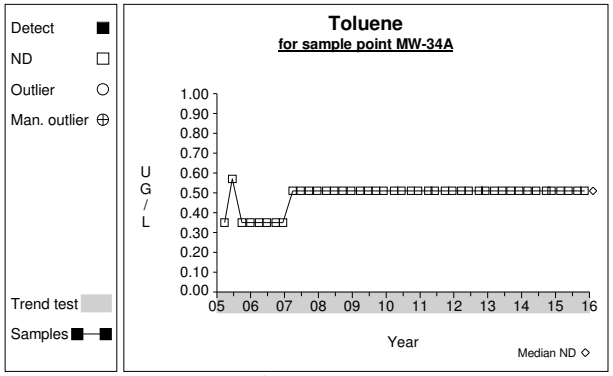
Time Series



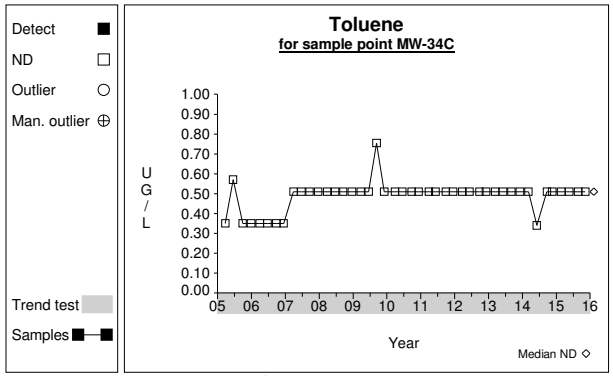
Graph 496



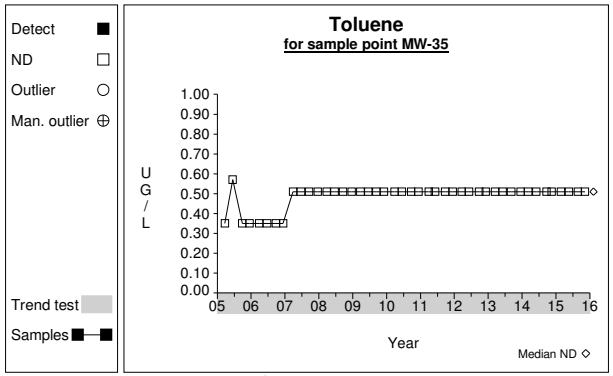
Graph 497



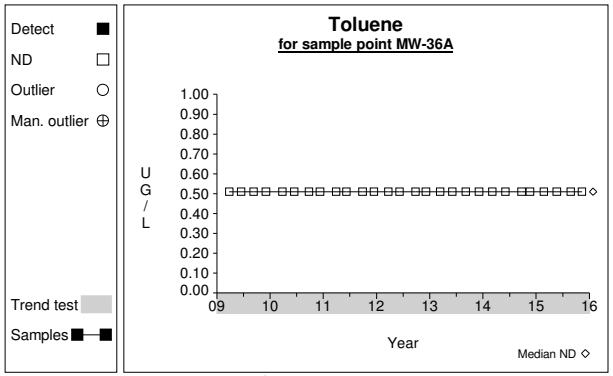
Graph 498



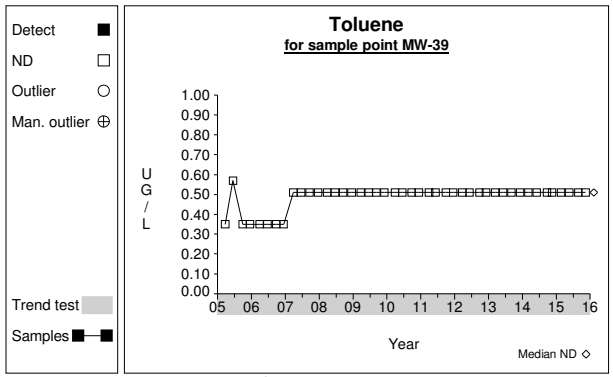
Graph 499



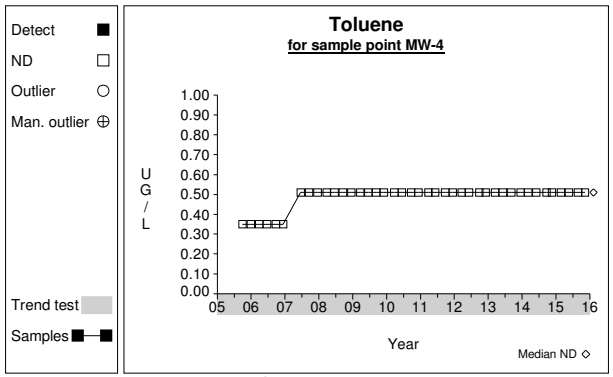
Graph 500



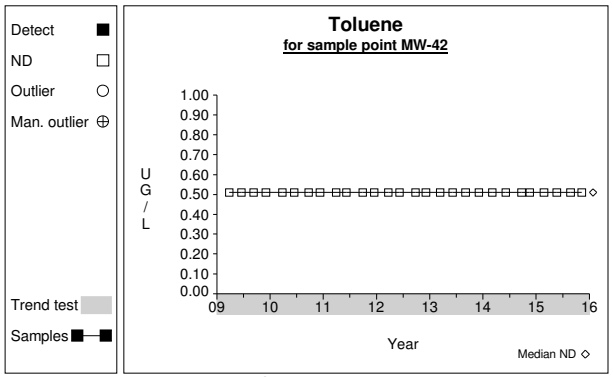
Graph 501



Graph 502

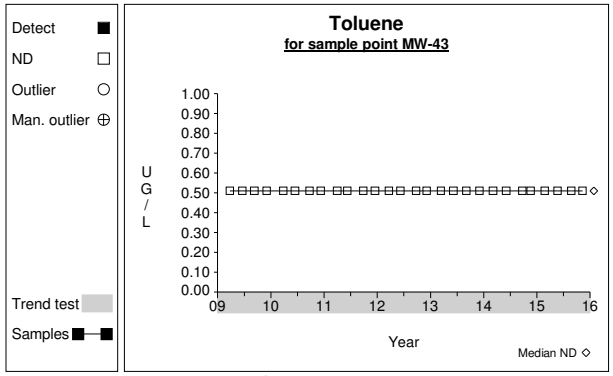


Graph 503

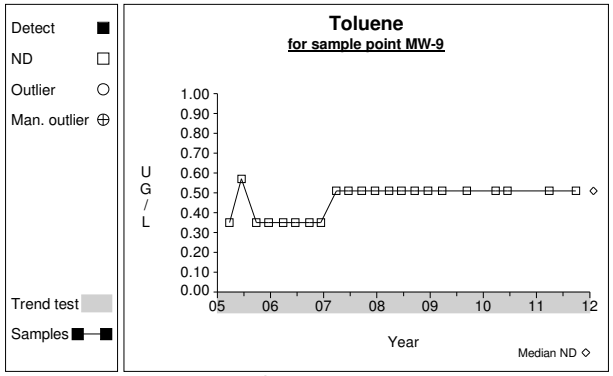


Graph 504

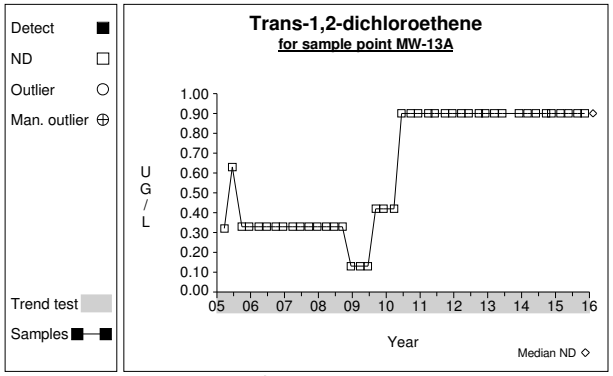
Time Series



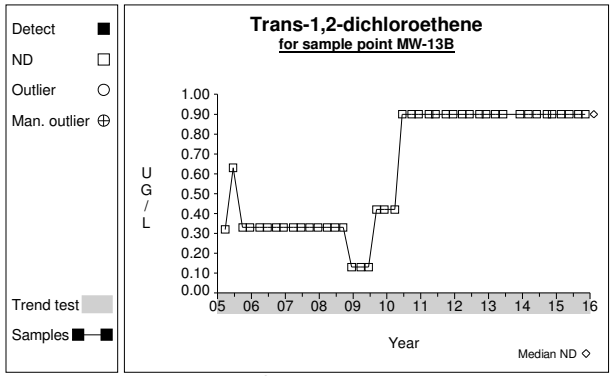
Graph 505



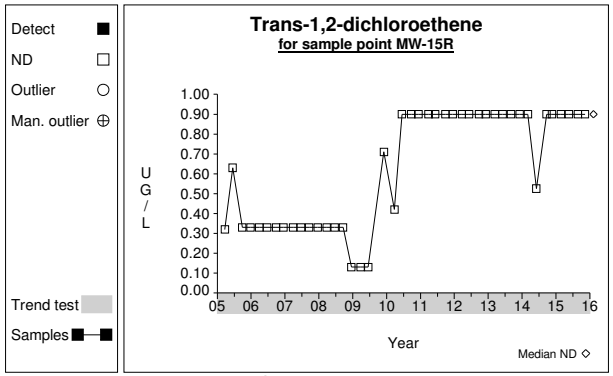
Graph 506



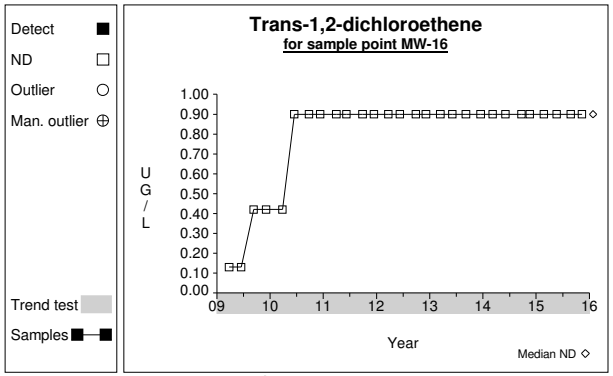
Graph 507



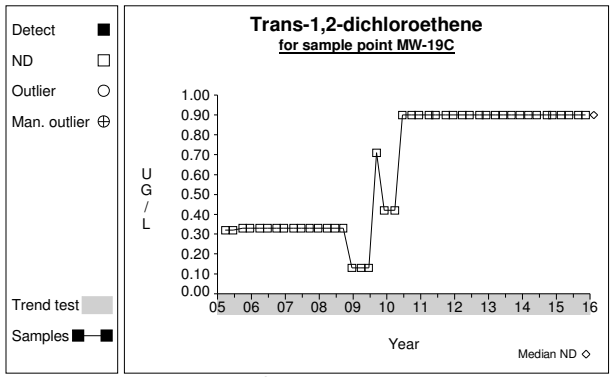
Graph 508



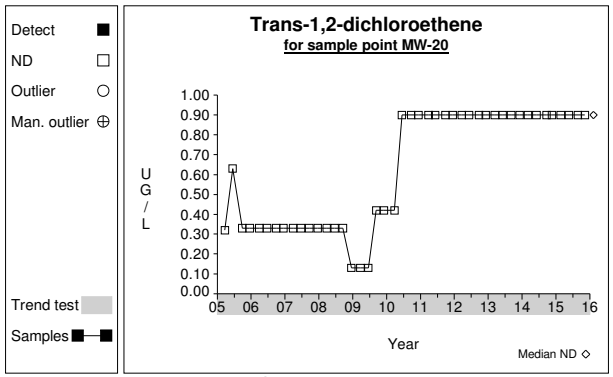
Graph 509



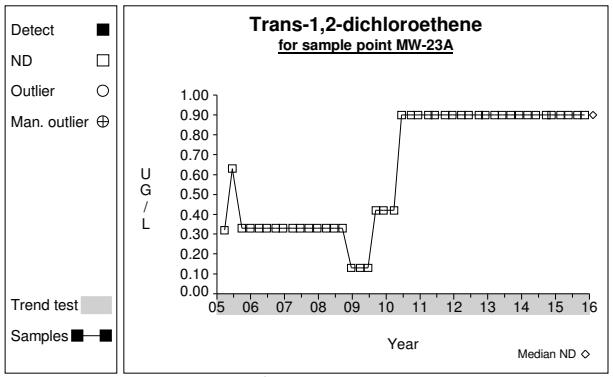
Graph 510



Graph 511

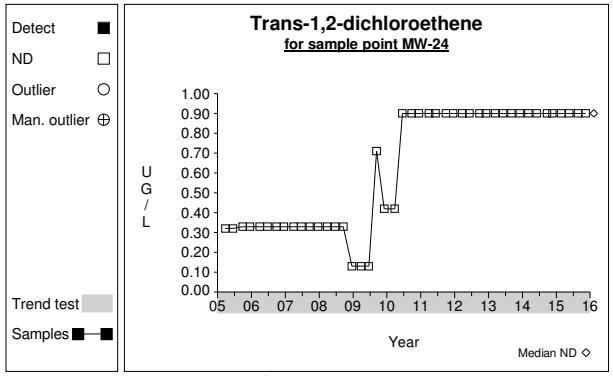


Graph 512

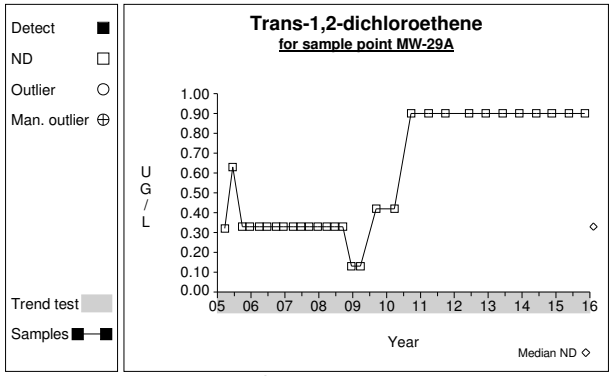


Graph 513

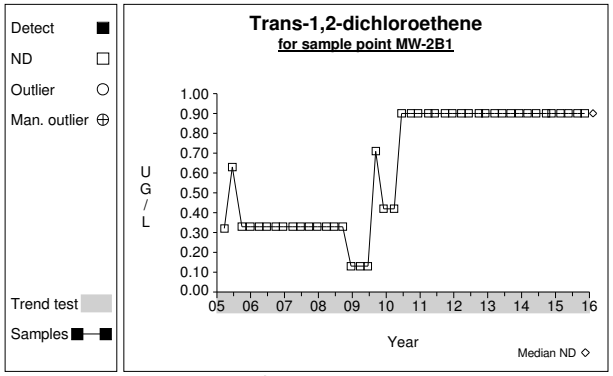
Time Series



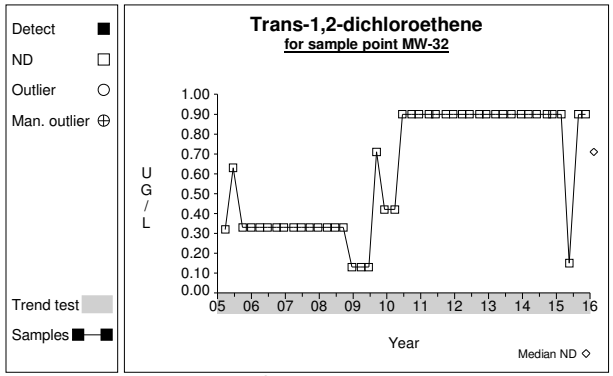
Graph 514



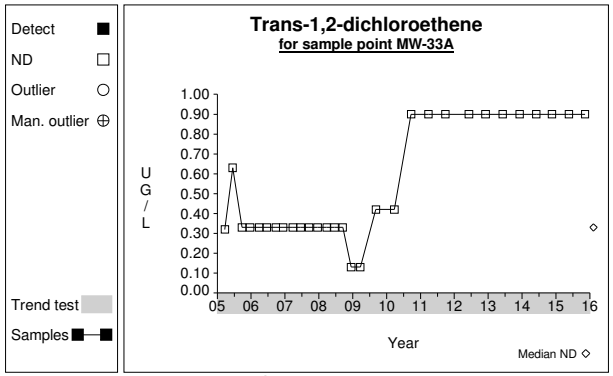
Graph 515



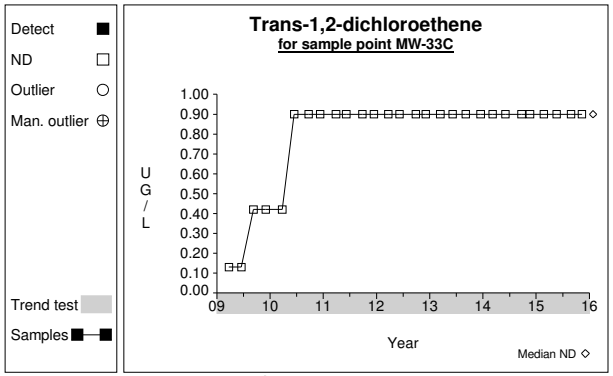
Graph 516



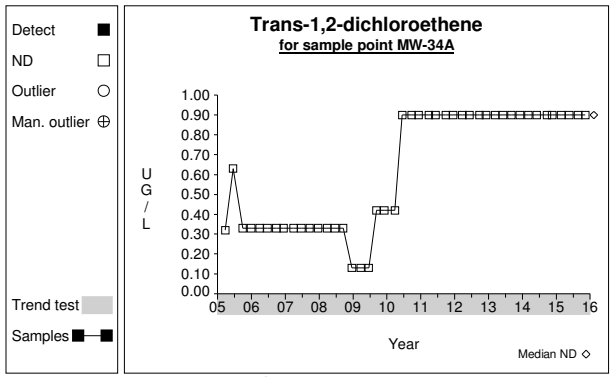
Graph 517



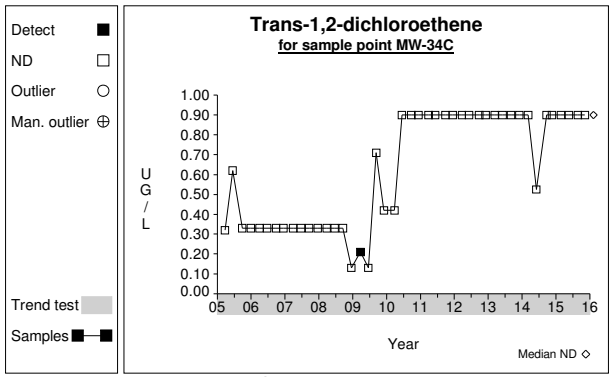
Graph 518



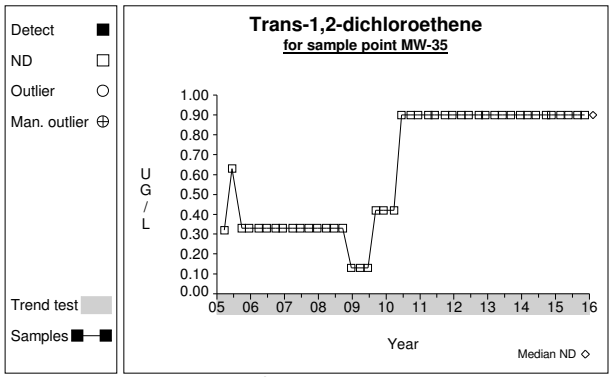
Graph 519



Graph 520

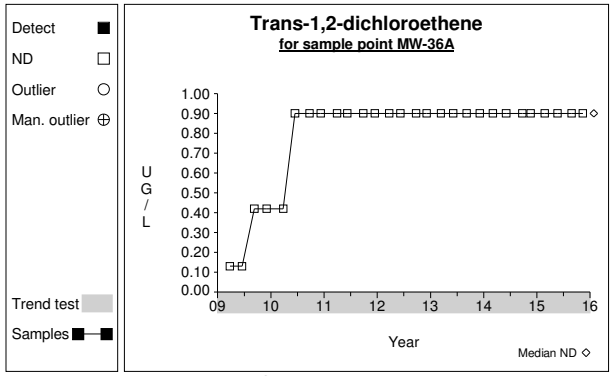


Graph 521

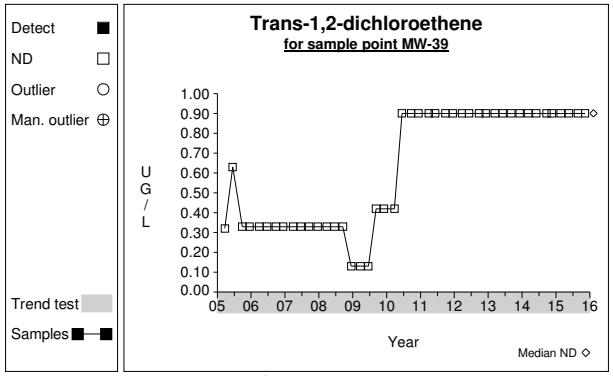


Graph 522

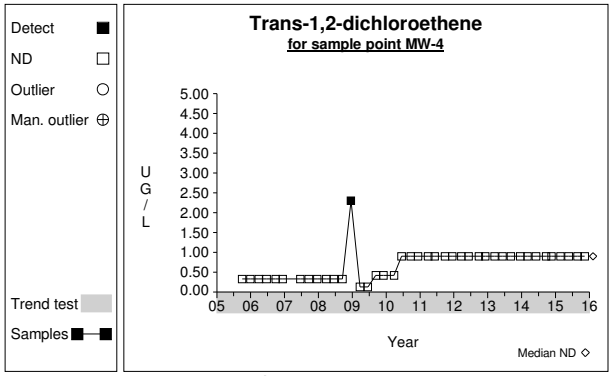
Time Series



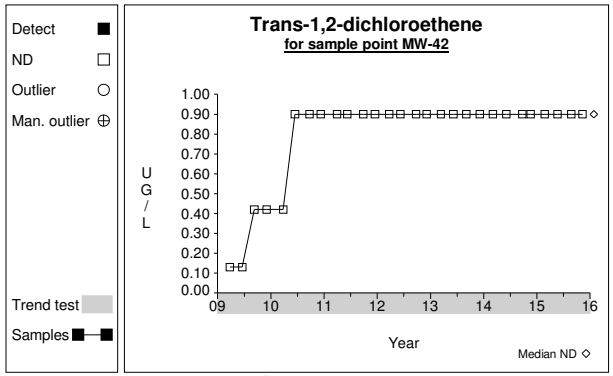
Graph 523



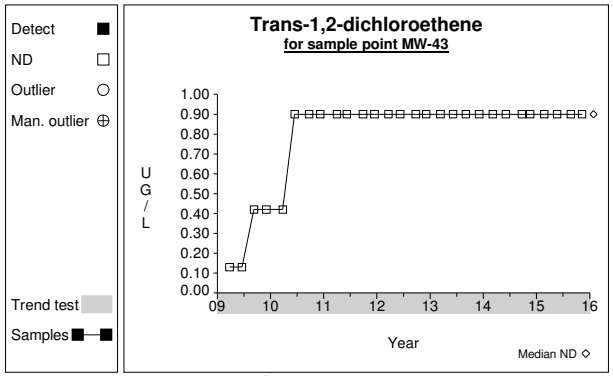
Graph 524



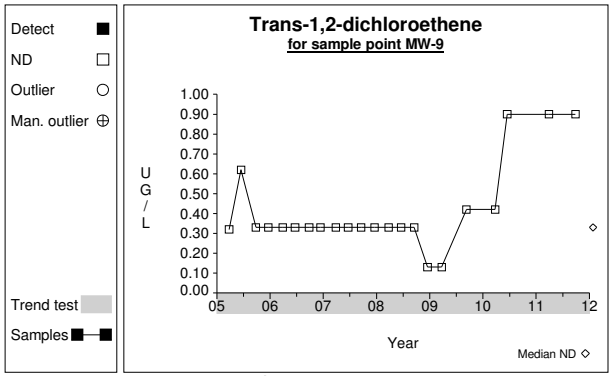
Graph 525



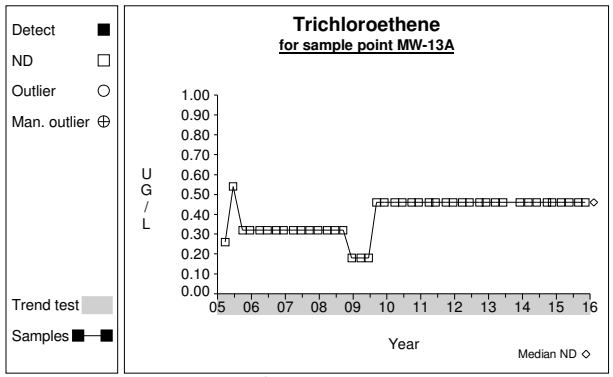
Graph 526



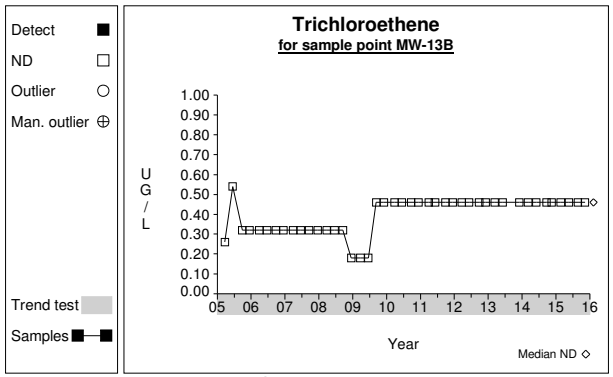
Graph 527



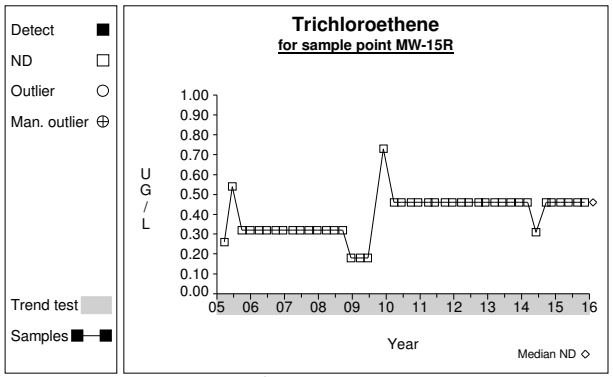
Graph 528



Graph 529

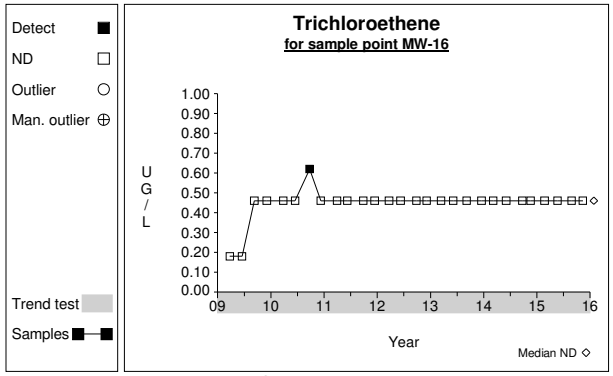


Graph 530

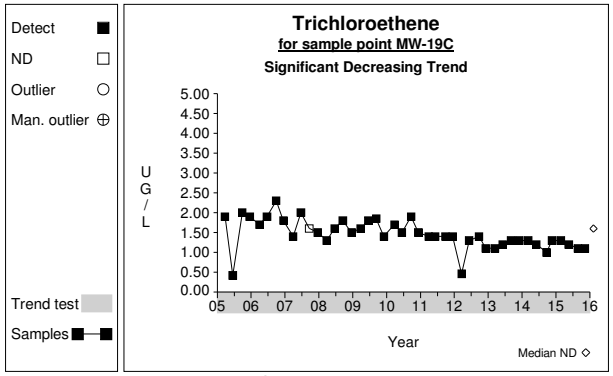


Graph 531

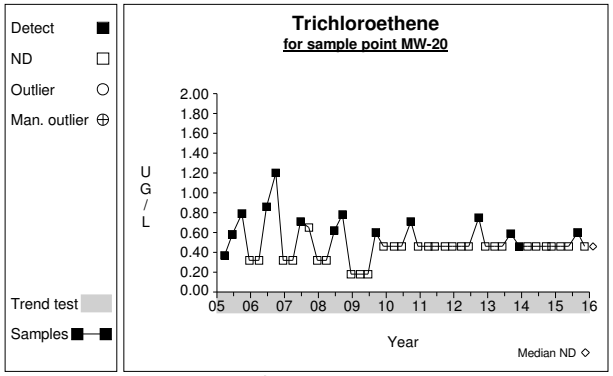
Time Series



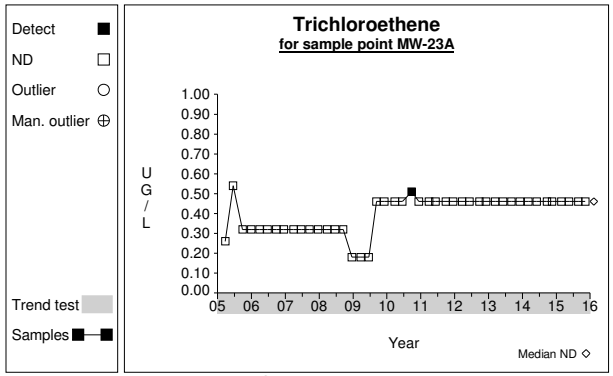
Graph 532



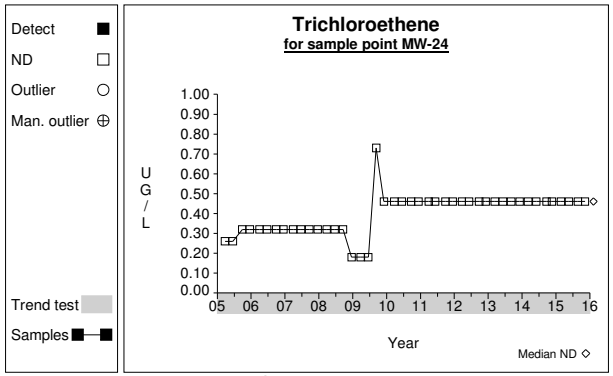
Graph 533



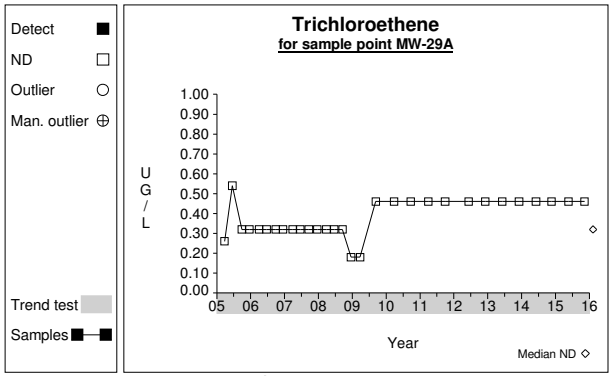
Graph 534



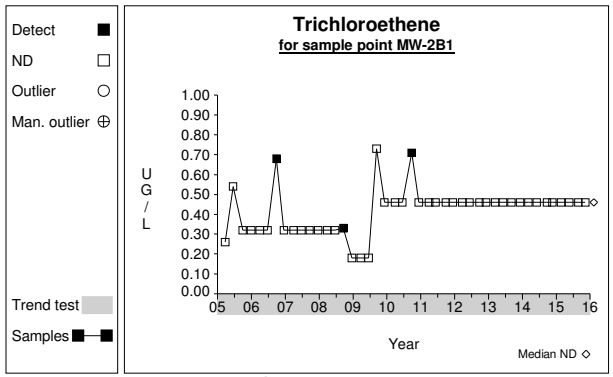
Graph 535



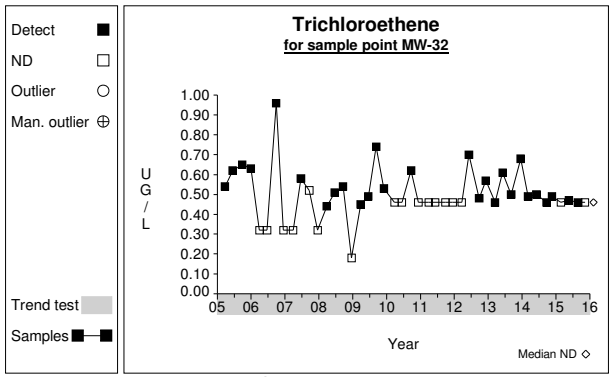
Graph 536



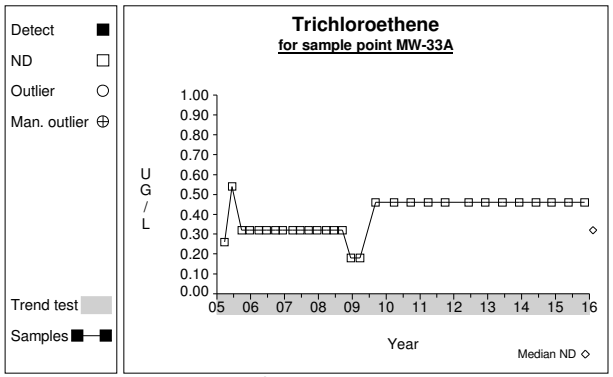
Graph 537



Graph 538

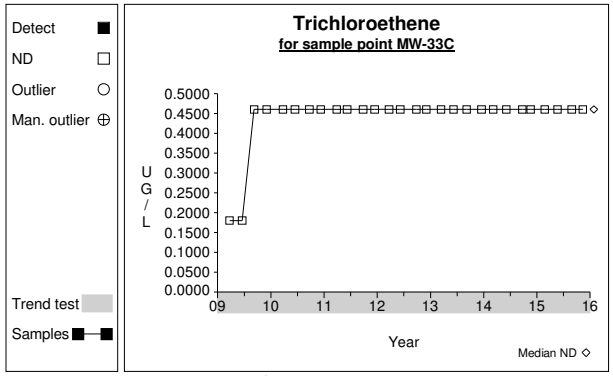


Graph 539

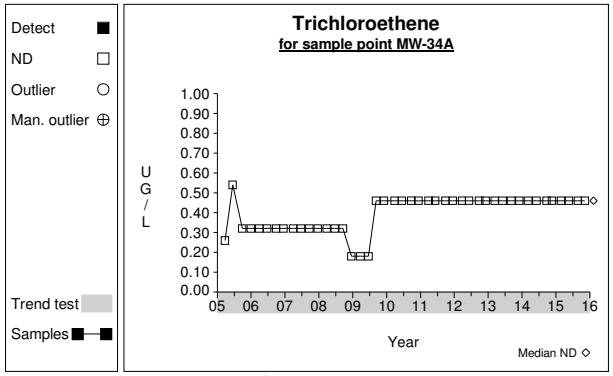


Graph 540

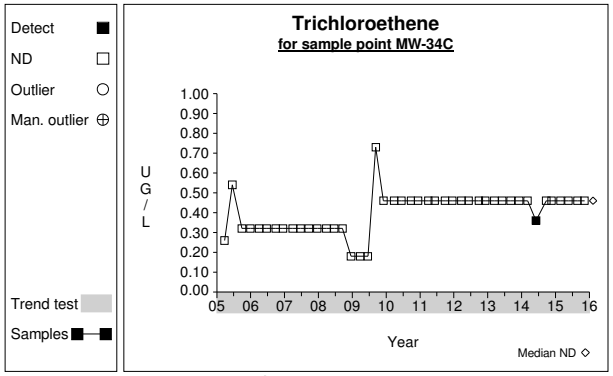
Time Series



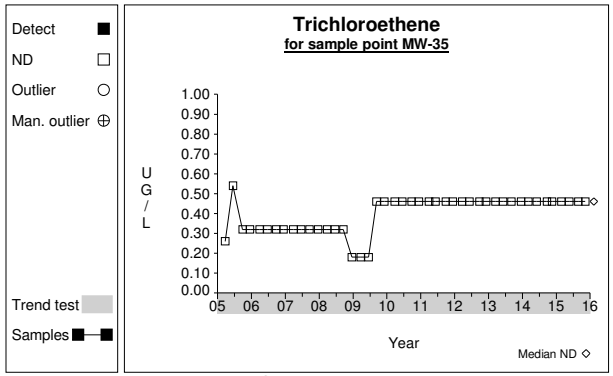
Graph 541



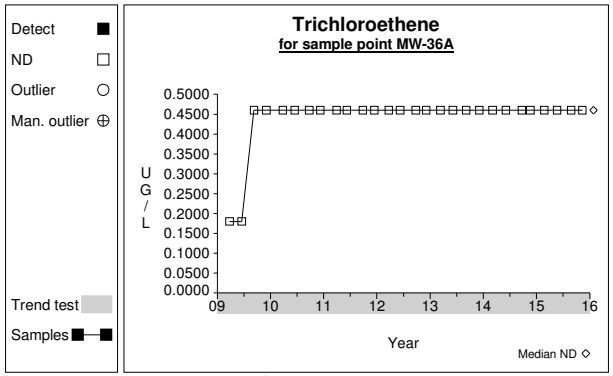
Graph 542



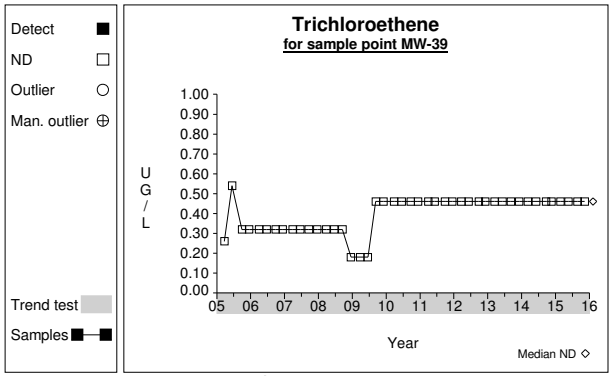
Graph 543



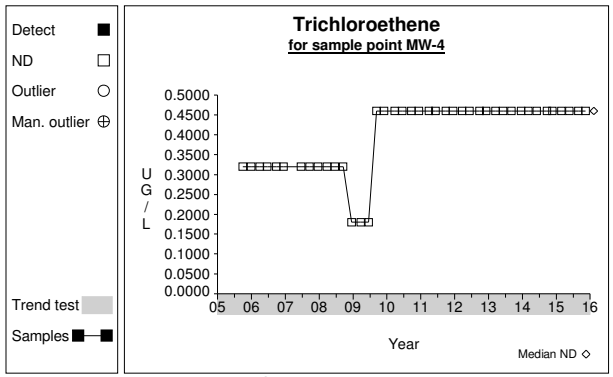
Graph 544



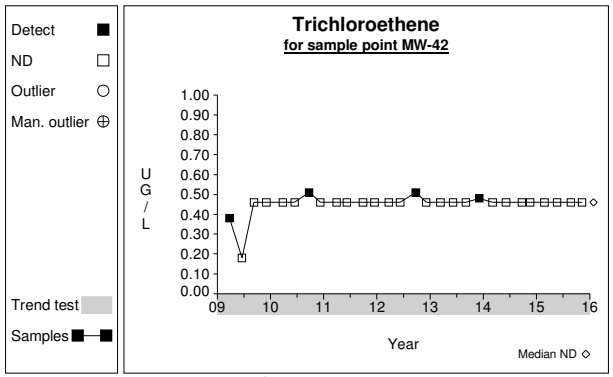
Graph 545



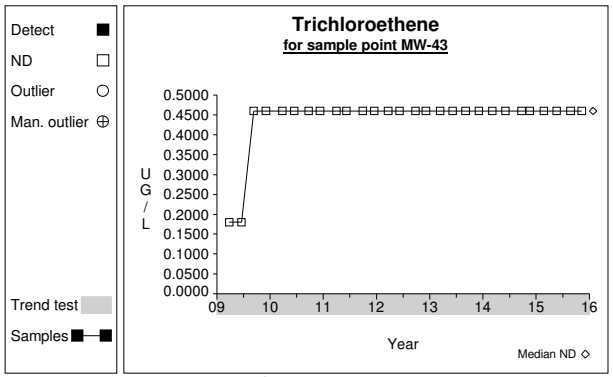
Graph 546



Graph 547

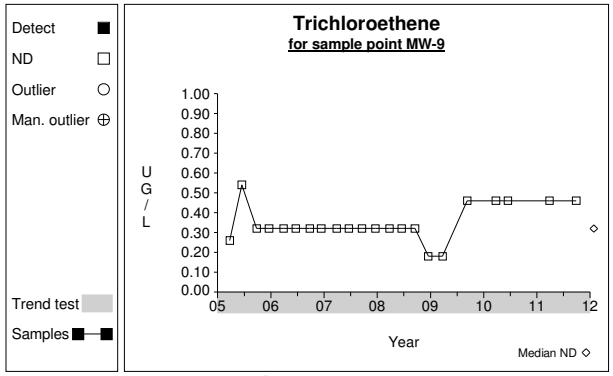


Graph 548

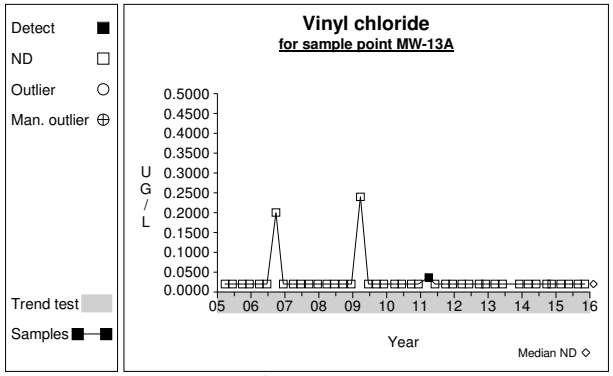


Graph 549

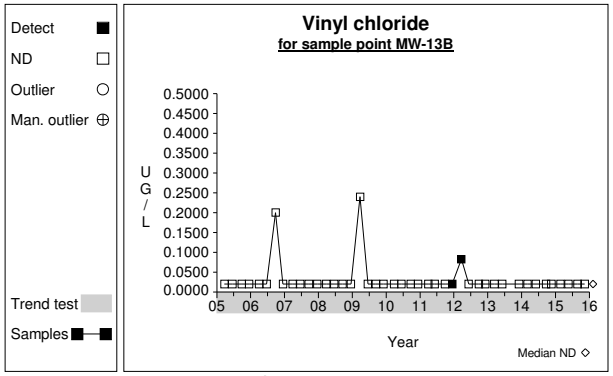
Time Series



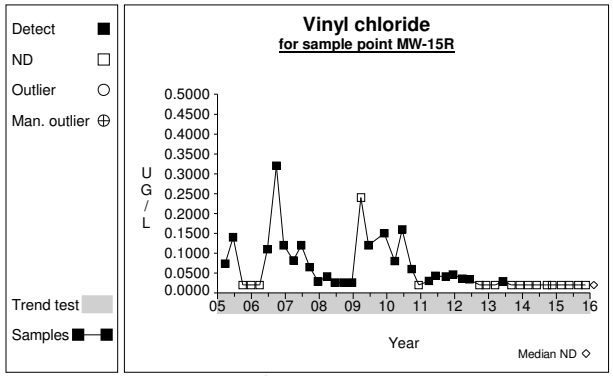
Graph 550



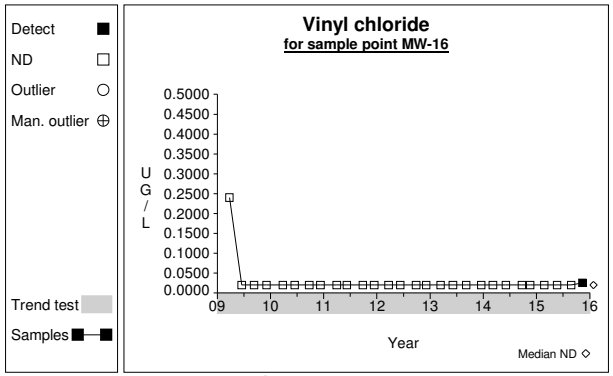
Graph 551



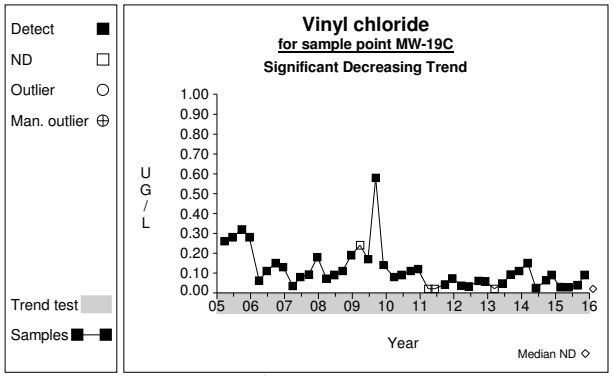
Graph 552



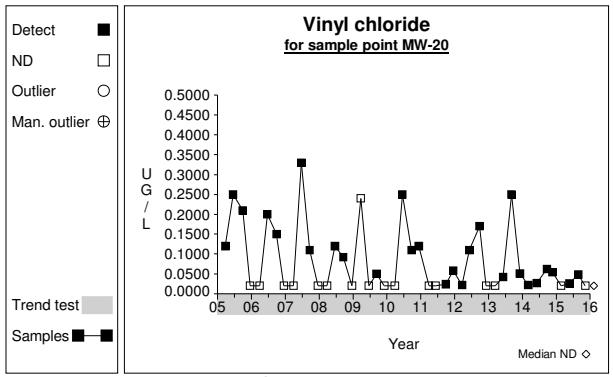
Graph 553



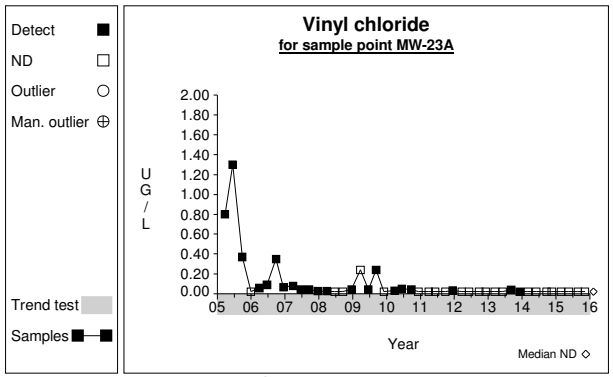
Graph 554



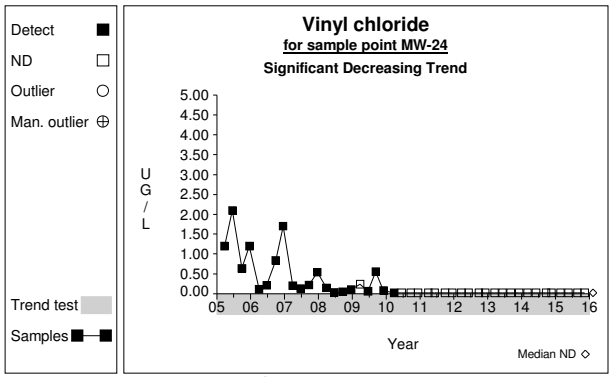
Graph 555



Graph 556

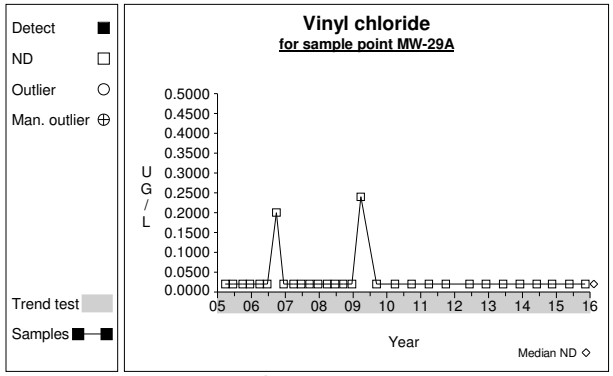


Graph 557

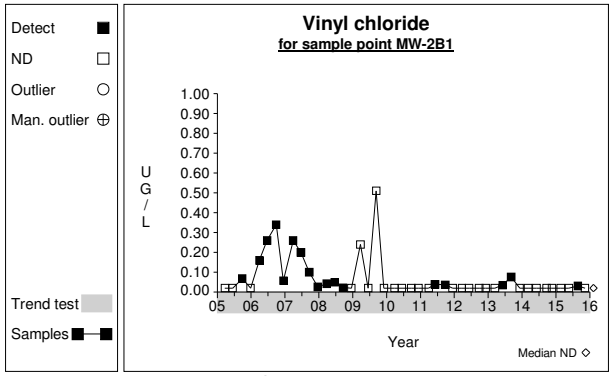


Graph 558

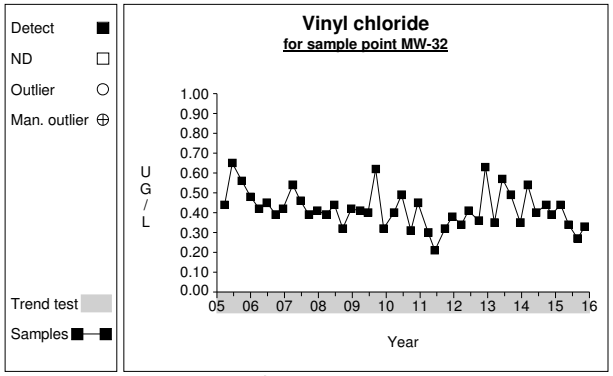
Time Series



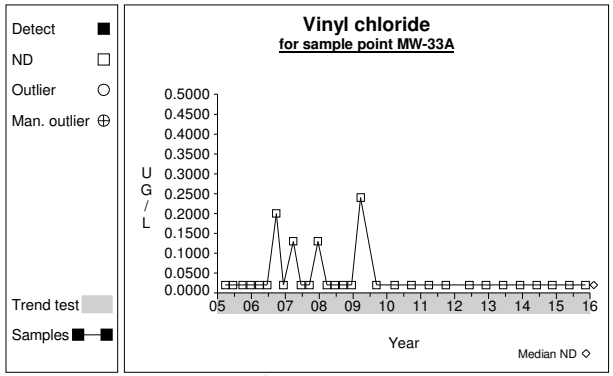
Graph 559



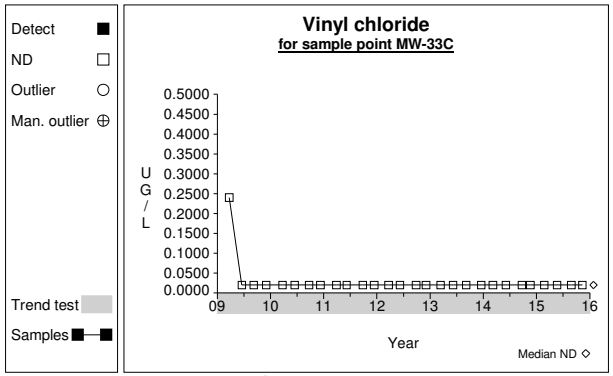
Graph 560



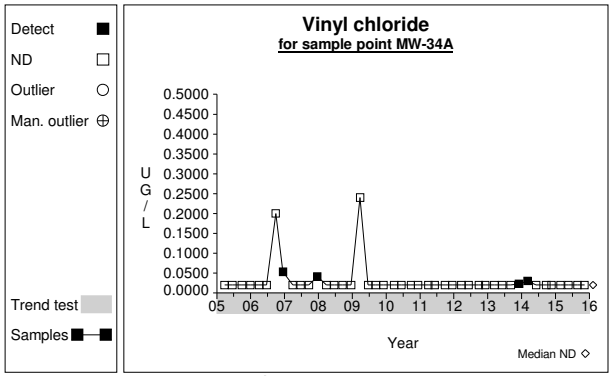
Graph 561



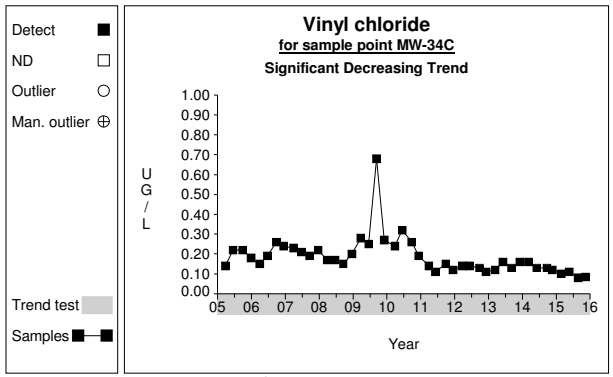
Graph 562



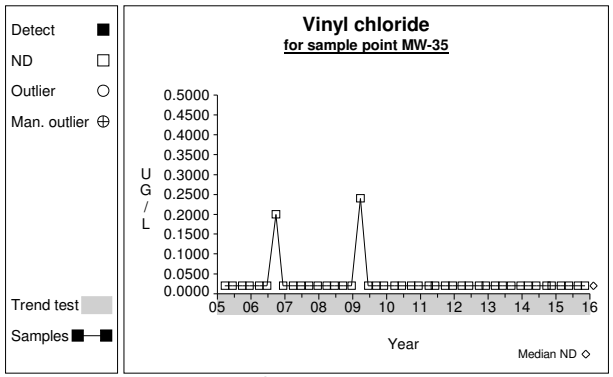
Graph 563



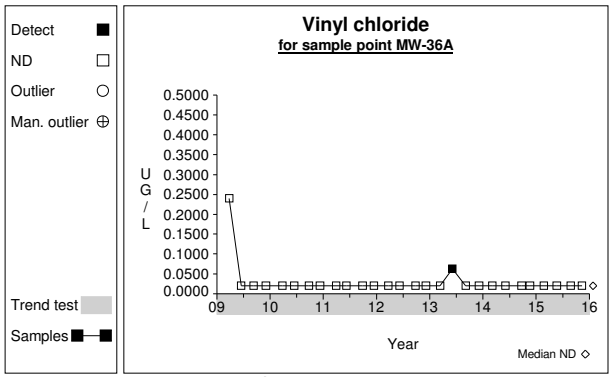
Graph 564



Graph 565

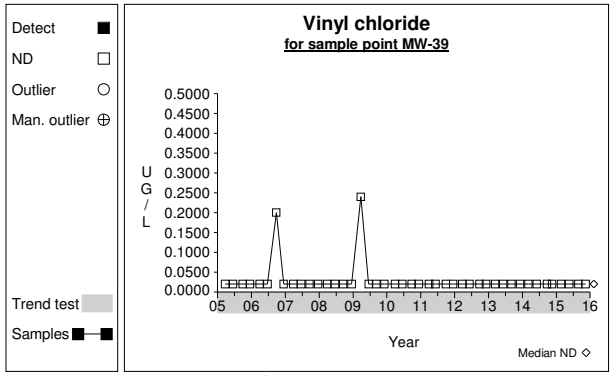


Graph 566

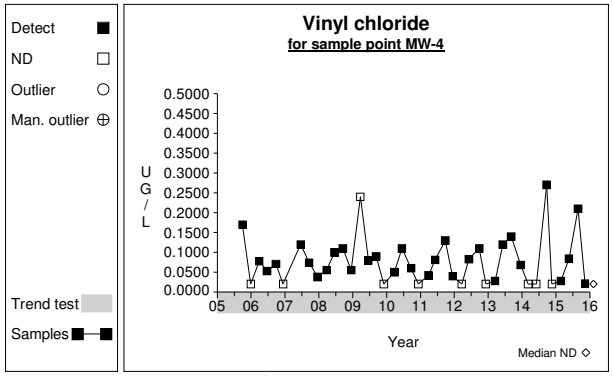


Graph 567

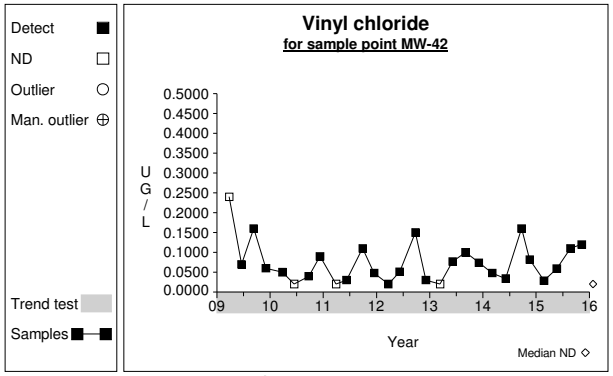
Time Series



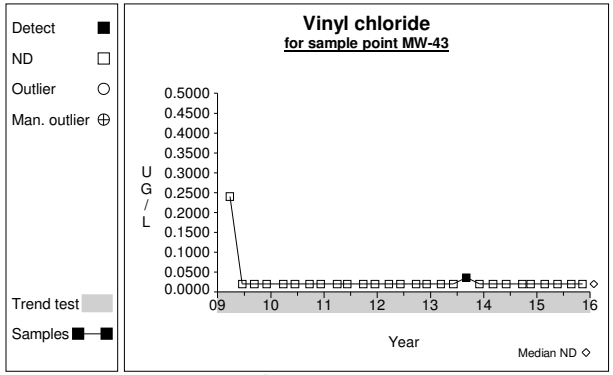
Graph 568



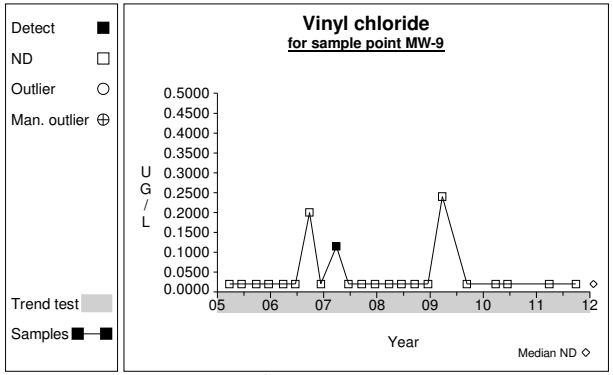
Graph 569



Graph 570

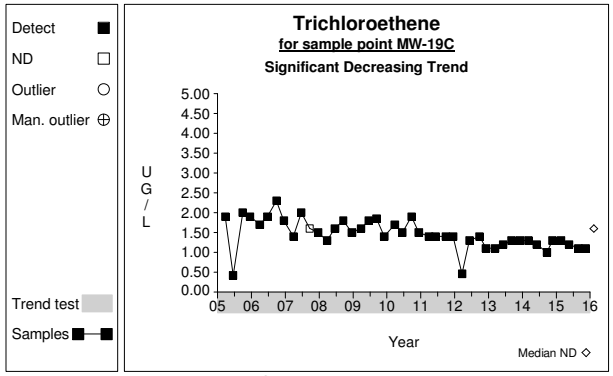


Graph 571

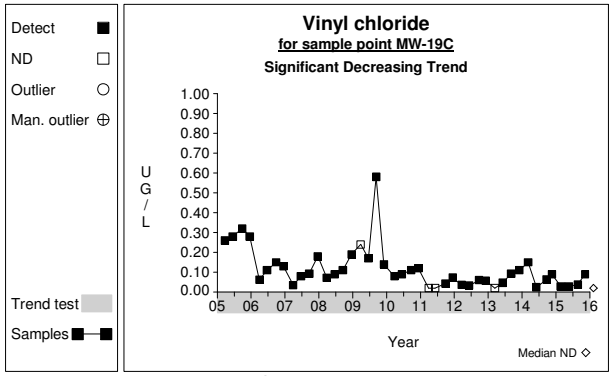


Graph 572

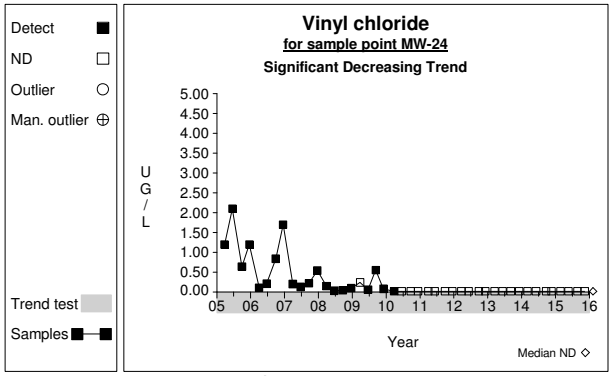
Time Series



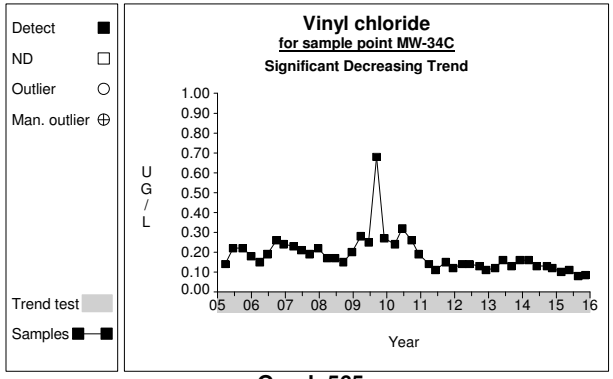
Graph 533



Graph 555

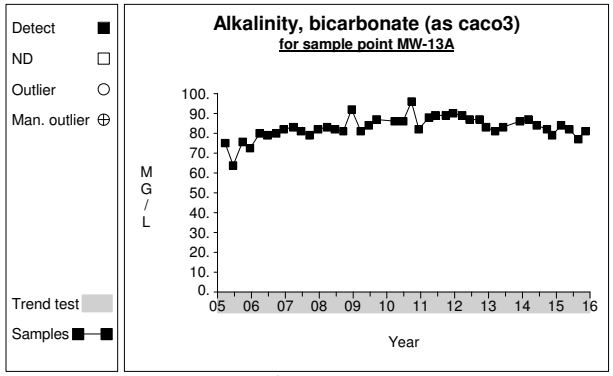


Graph 558

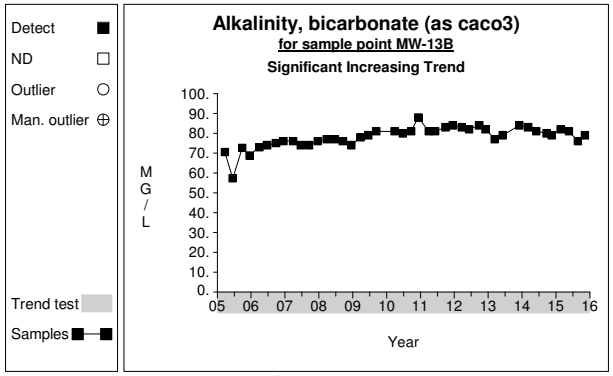


Graph 565

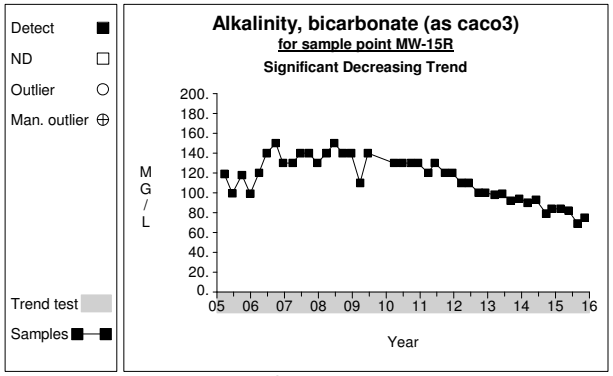
Time Series



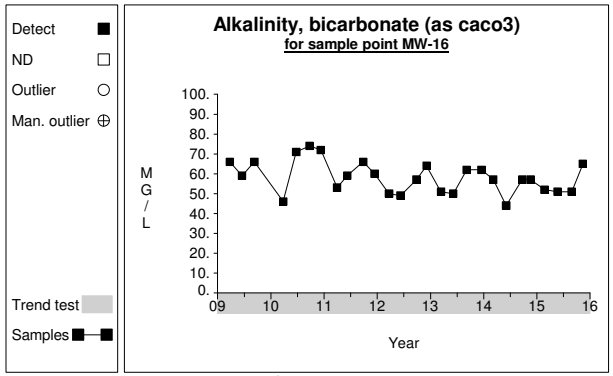
Graph 1



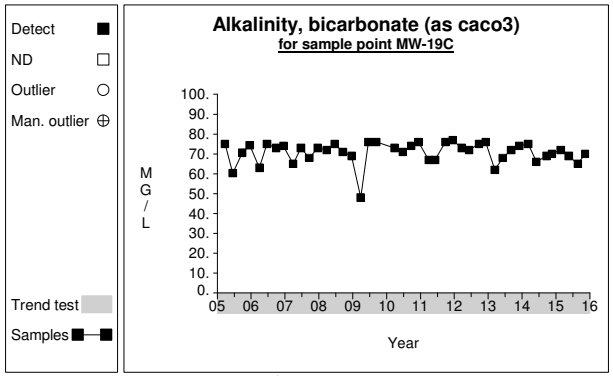
Graph 2



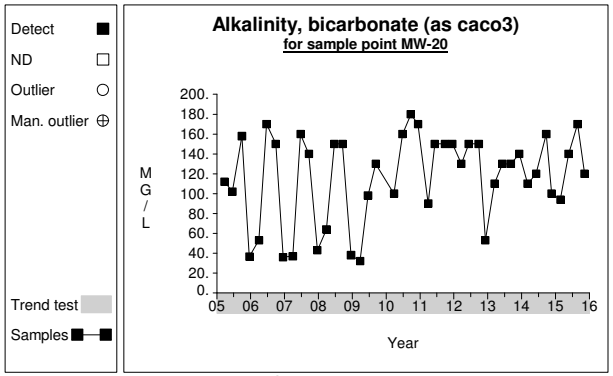
Graph 3



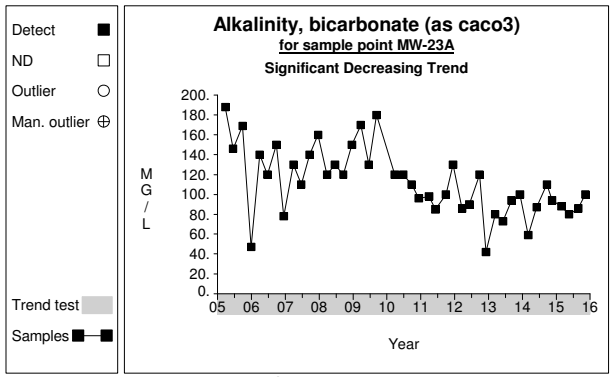
Graph 4



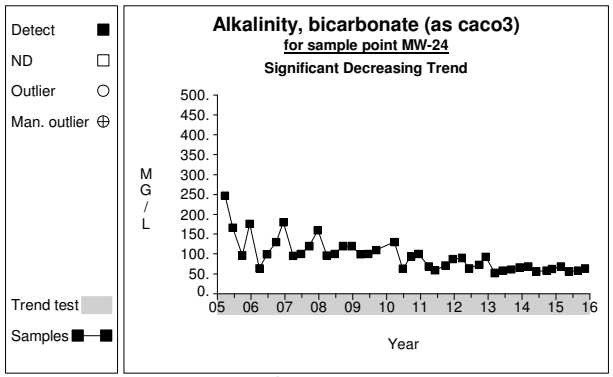
Graph 5



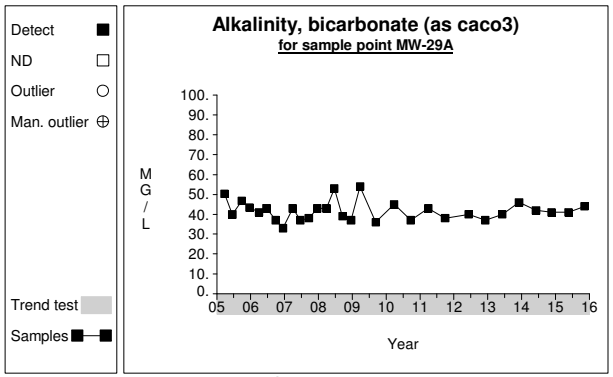
Graph 6



Graph 7

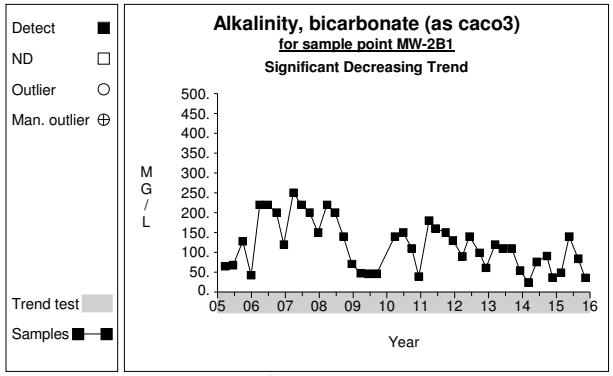


Graph 8

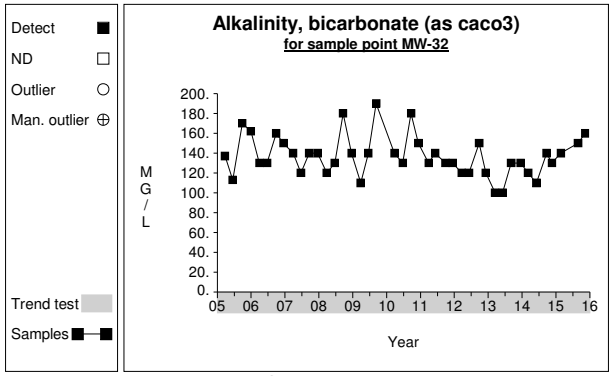


Graph 9

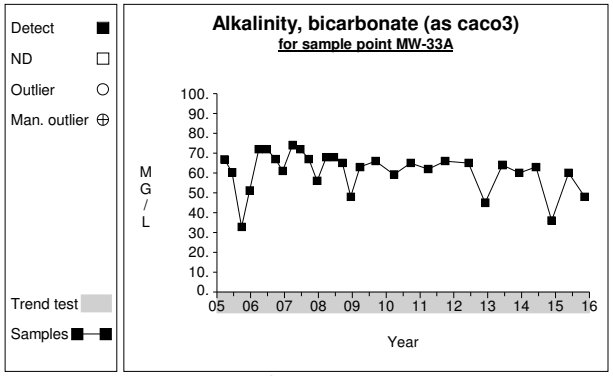
Time Series



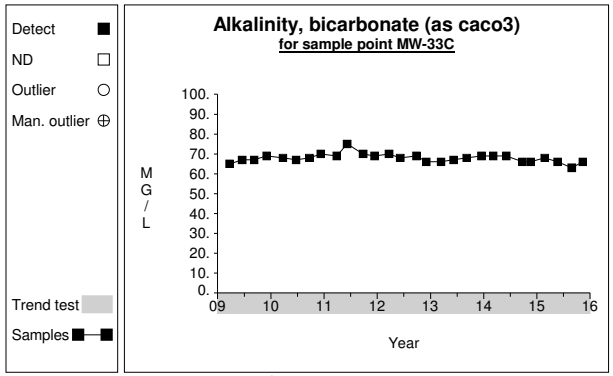
Graph 10



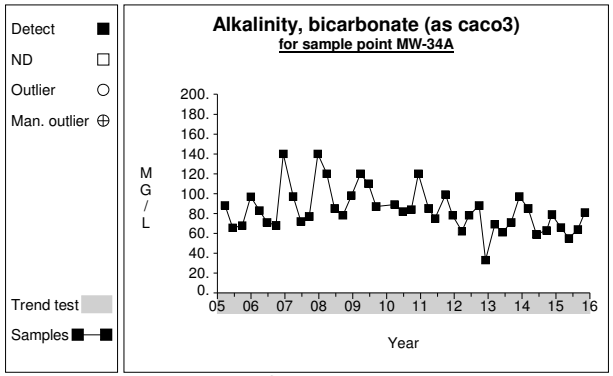
Graph 11



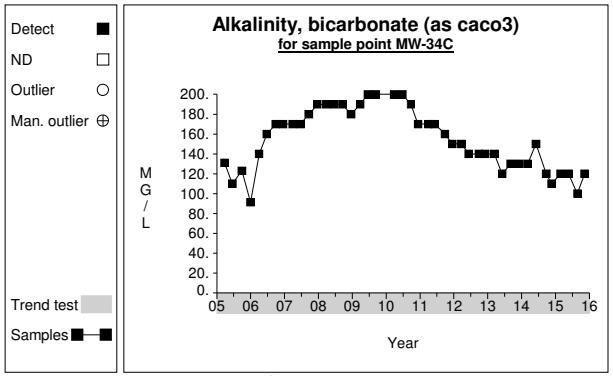
Graph 12



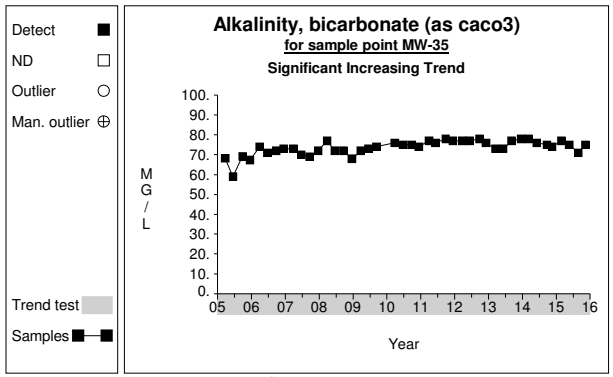
Graph 13



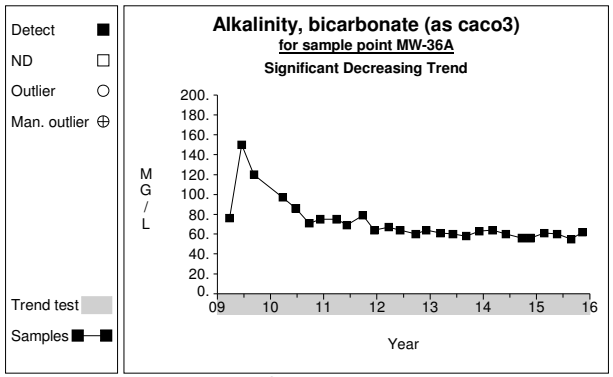
Graph 14



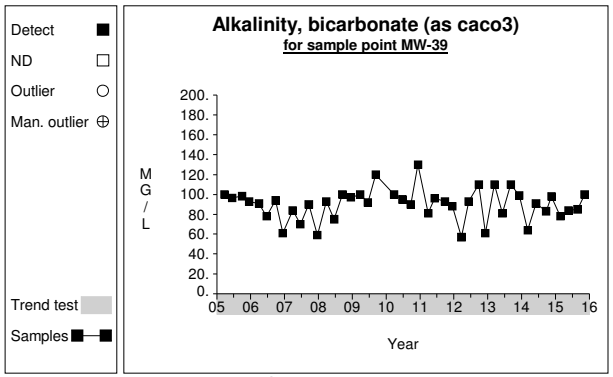
Graph 15



Graph 16

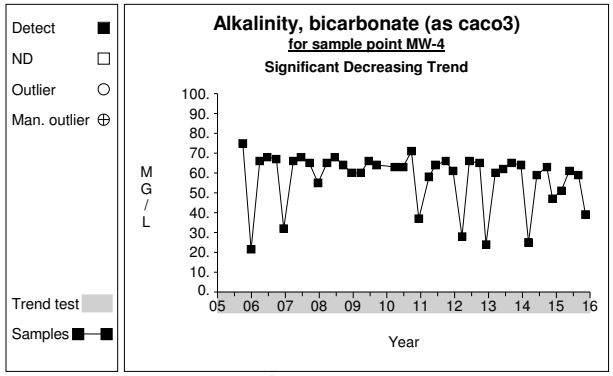


Graph 17

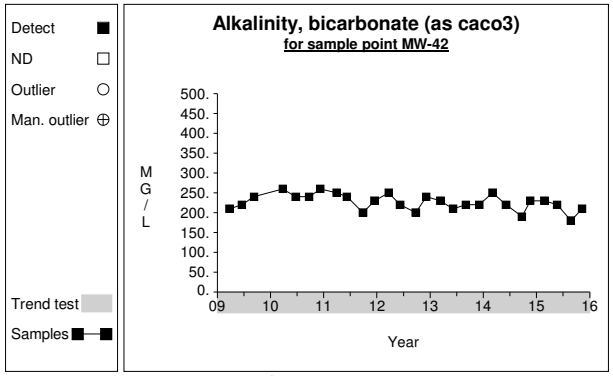


Graph 18

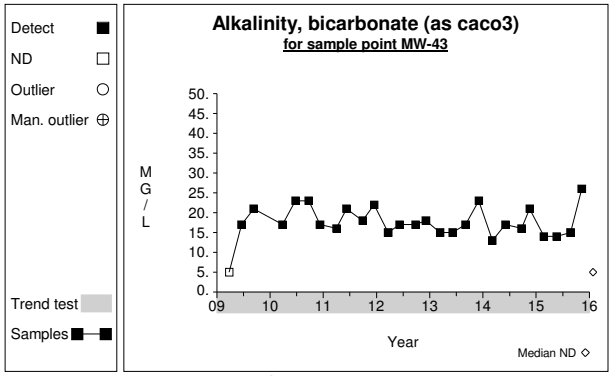
Time Series



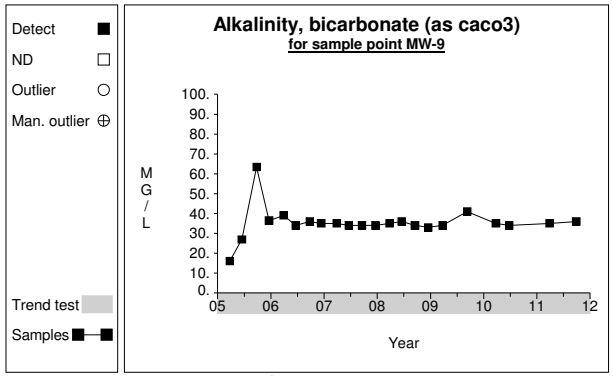
Graph 19



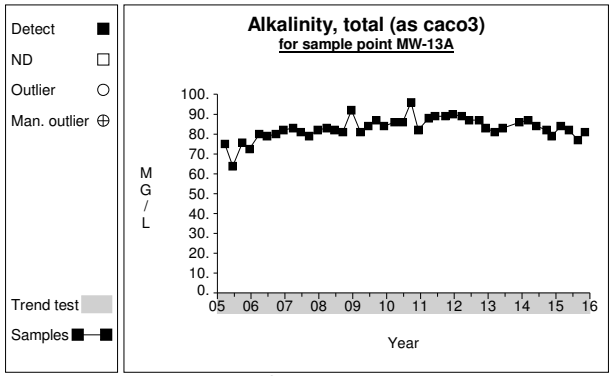
Graph 20



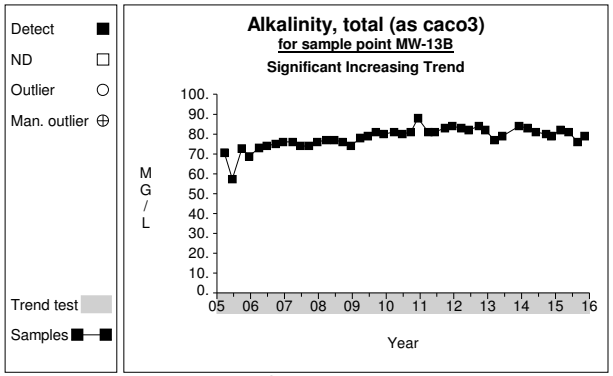
Graph 21



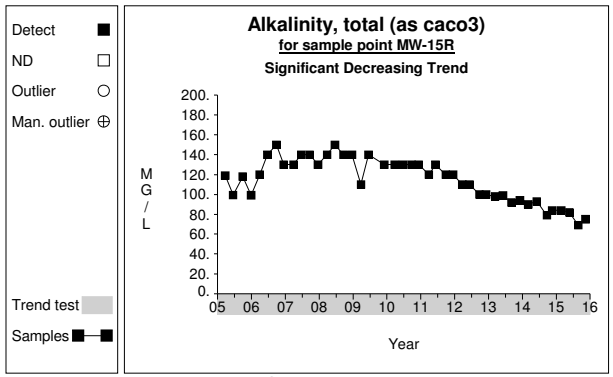
Graph 22



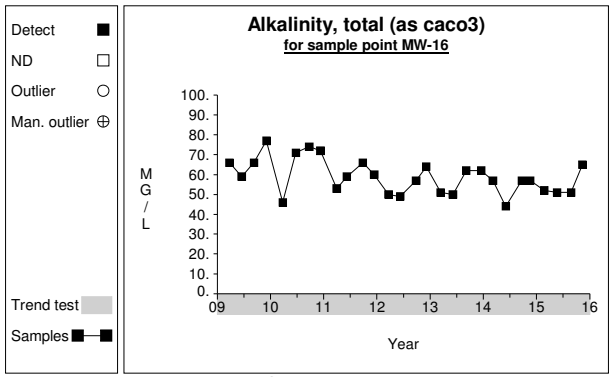
Graph 23



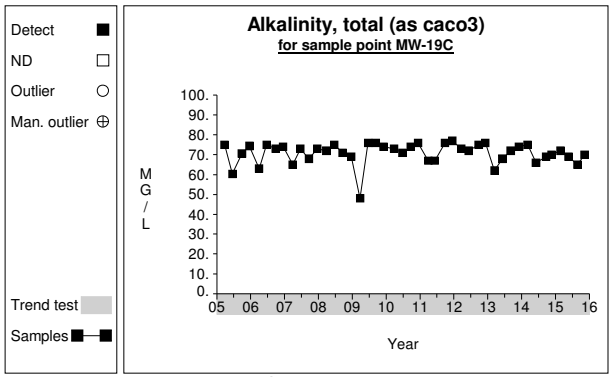
Graph 24



Graph 25

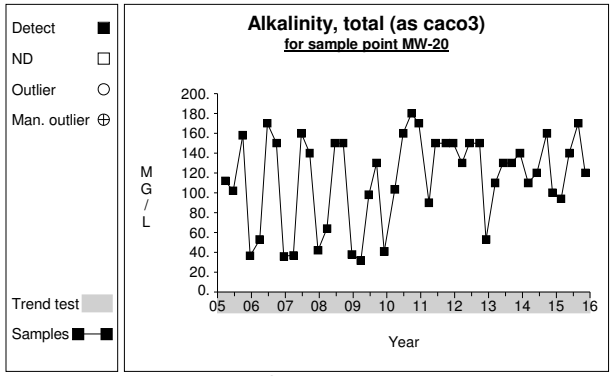


Graph 26

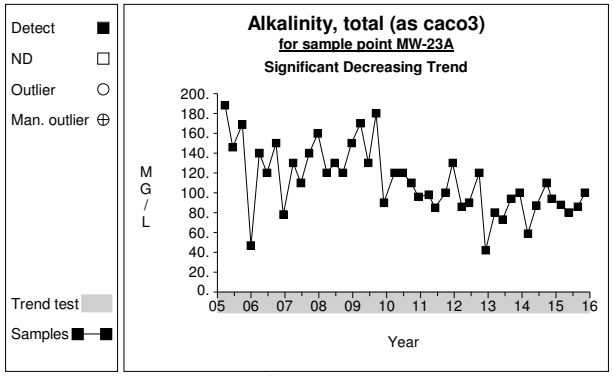


Graph 27

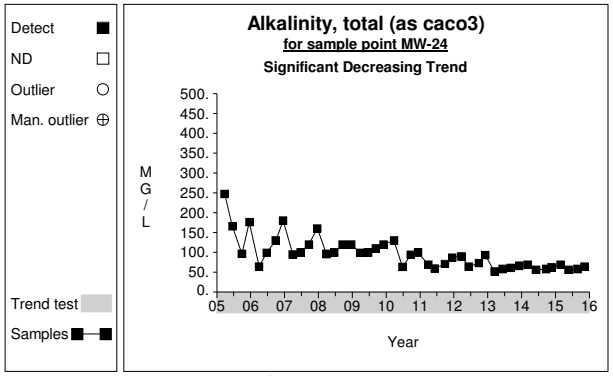
Time Series



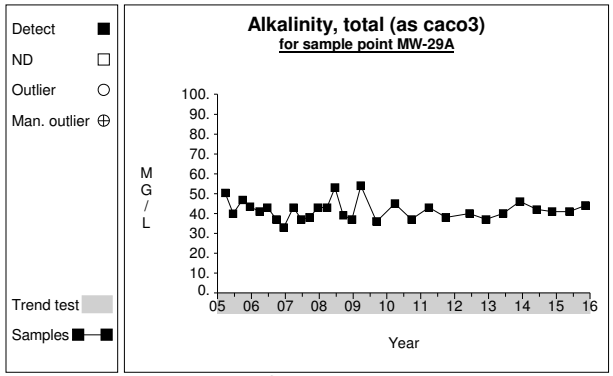
Graph 28



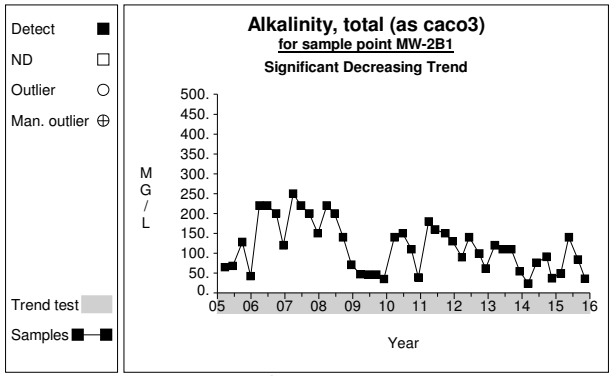
Graph 29



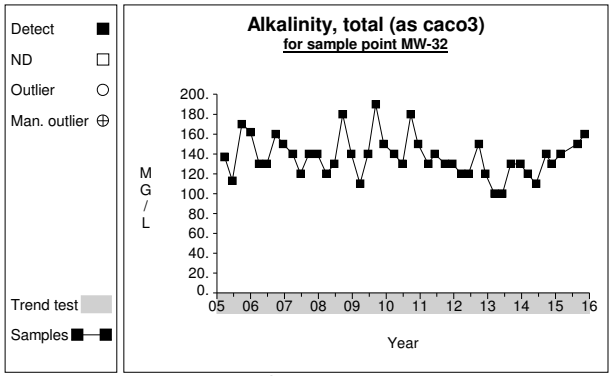
Graph 30



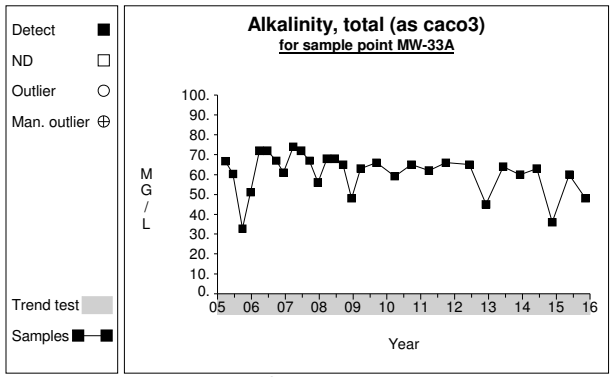
Graph 31



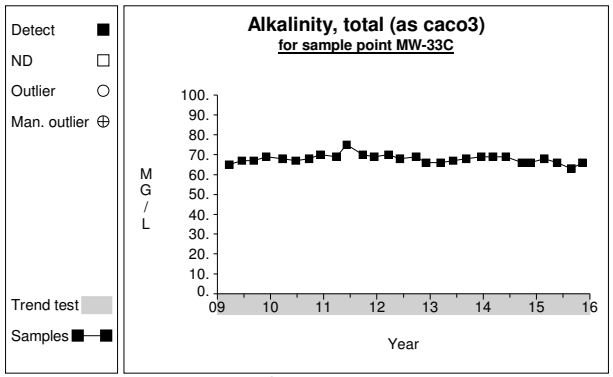
Graph 32



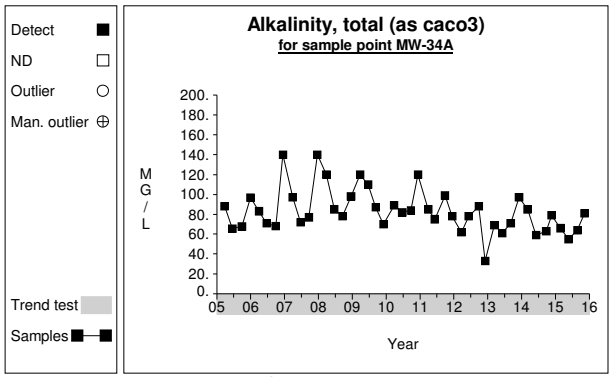
Graph 33



Graph 34

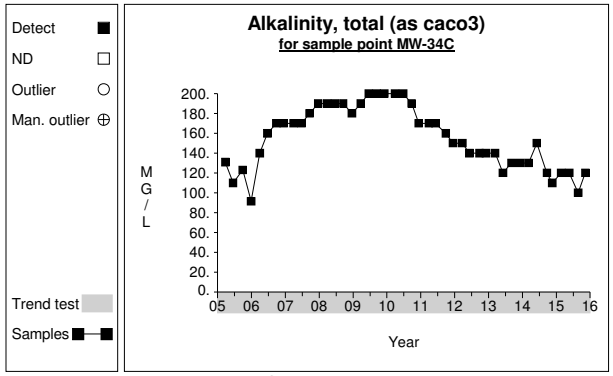


Graph 35

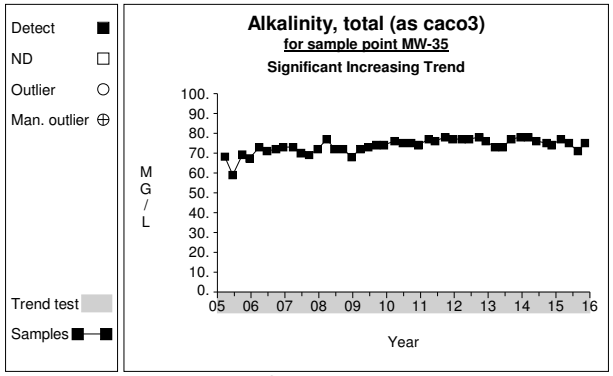


Graph 36

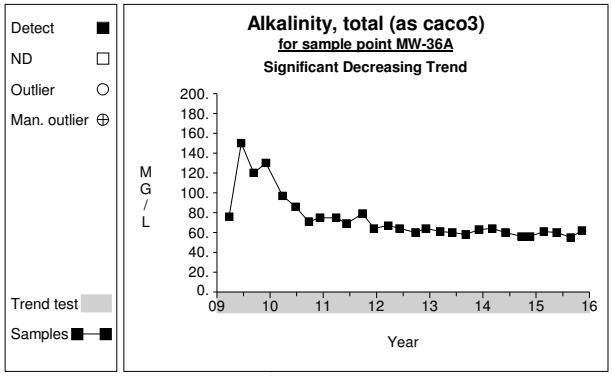
Time Series



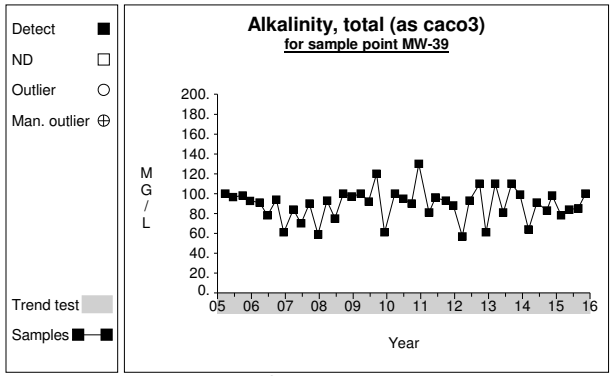
Graph 37



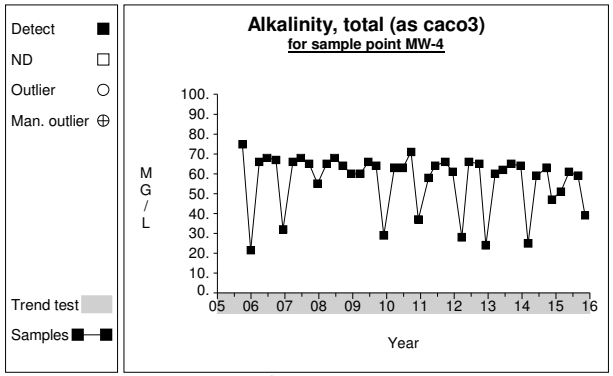
Graph 38



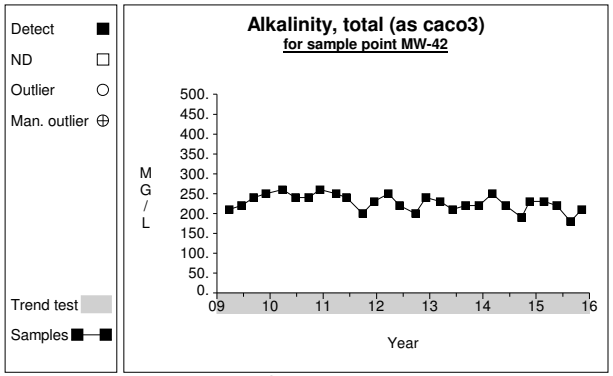
Graph 39



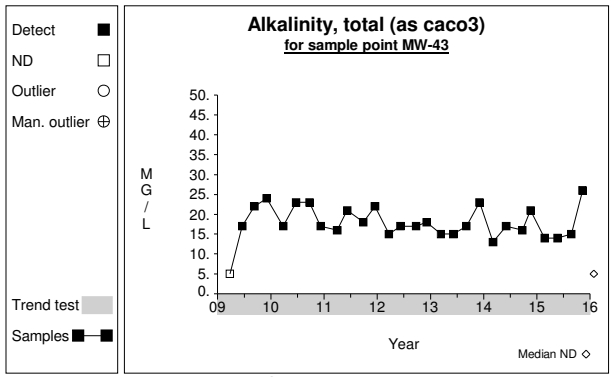
Graph 40



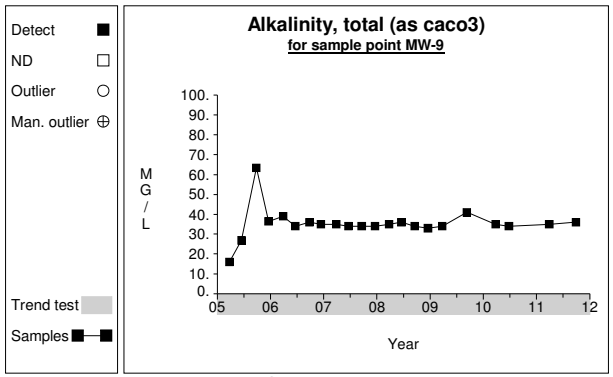
Graph 41



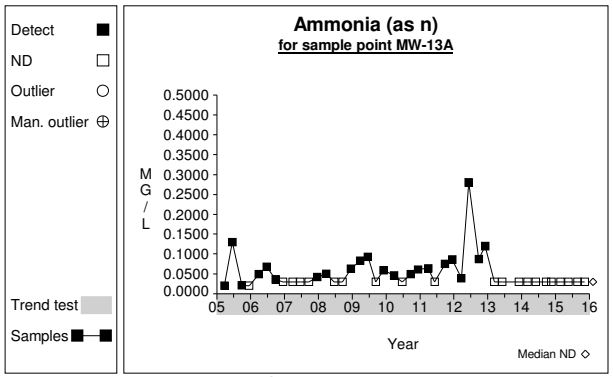
Graph 42



Graph 43

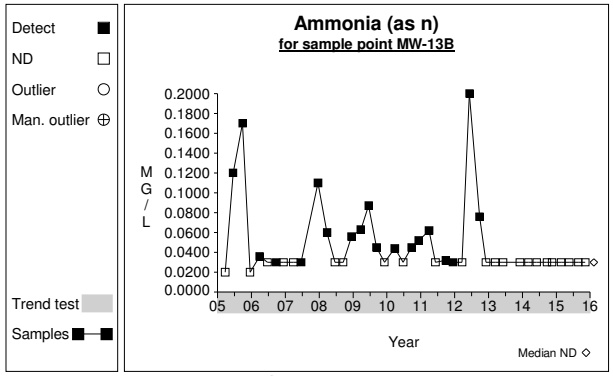


Graph 44

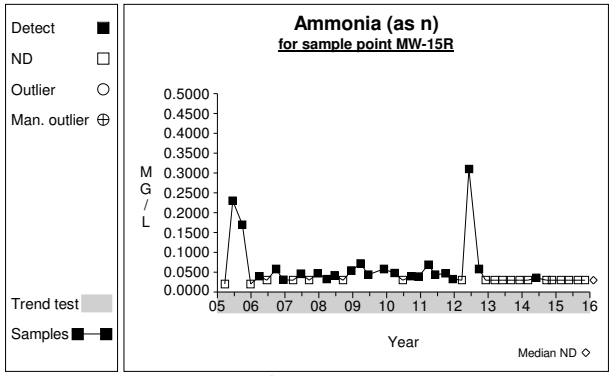


Graph 45

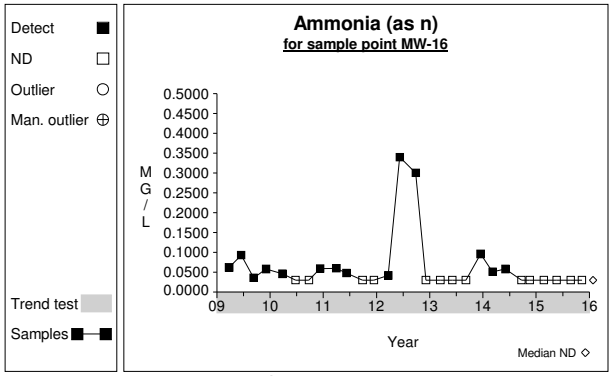
Time Series



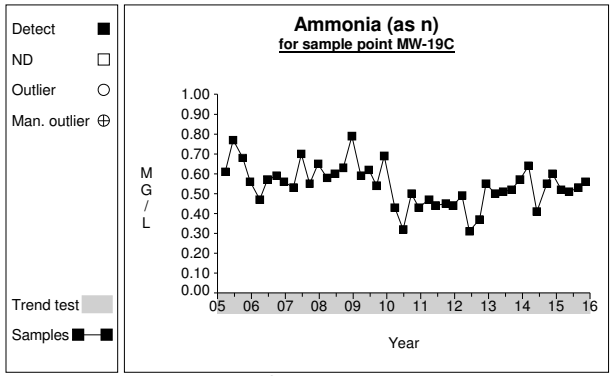
Graph 46



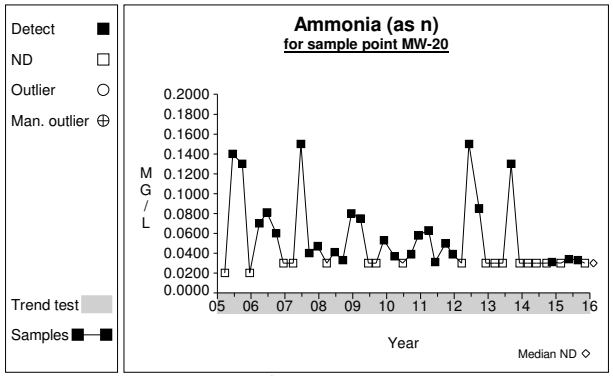
Graph 47



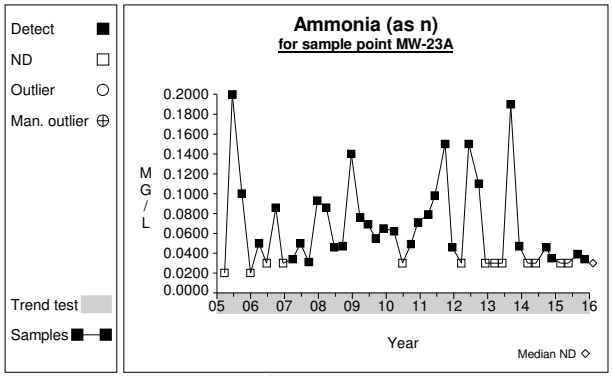
Graph 48



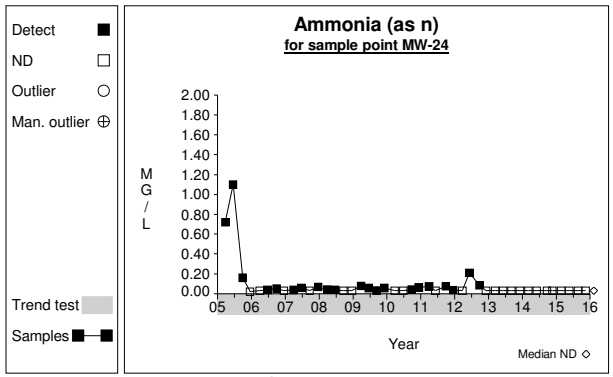
Graph 49



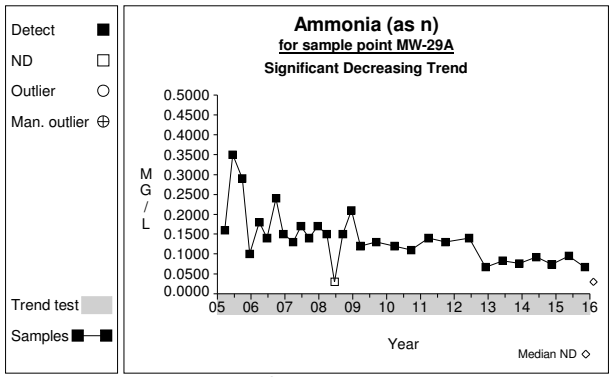
Graph 50



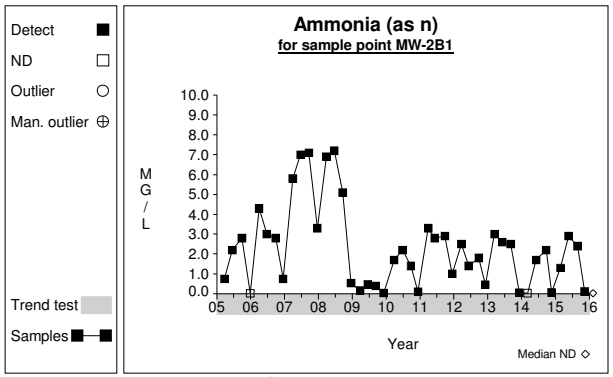
Graph 51



Graph 52

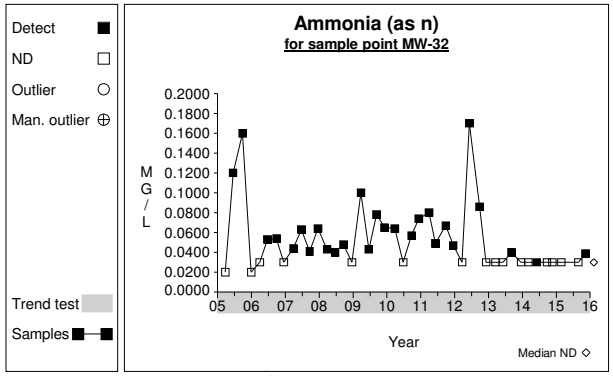


Graph 53

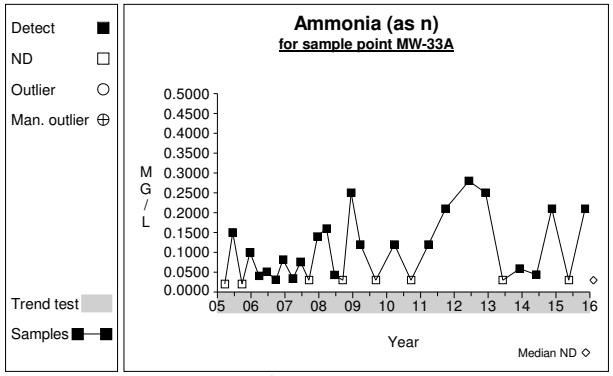


Graph 54

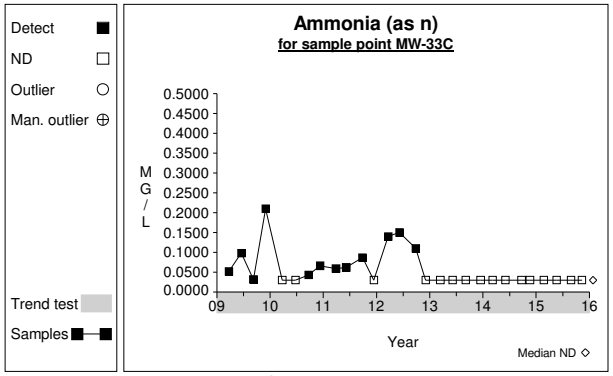
Time Series



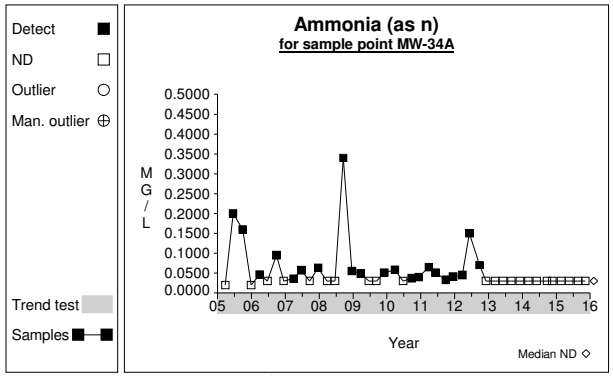
Graph 55



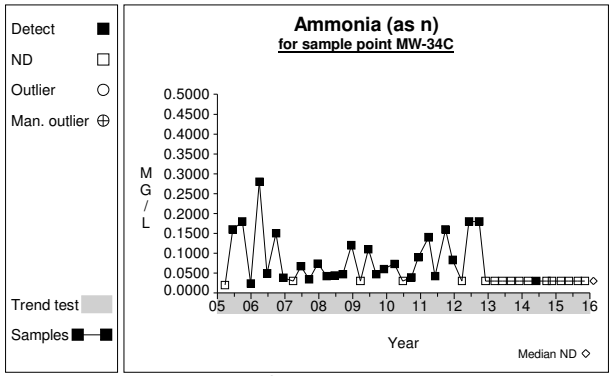
Graph 56



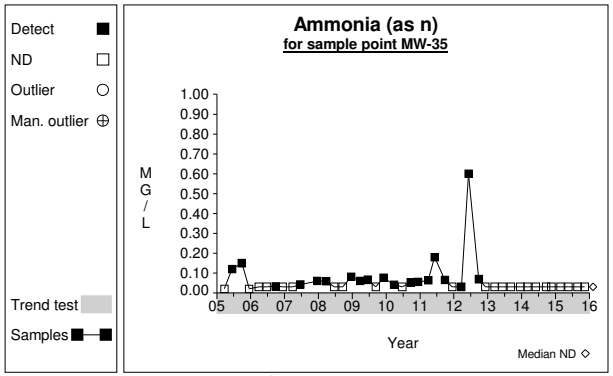
Graph 57



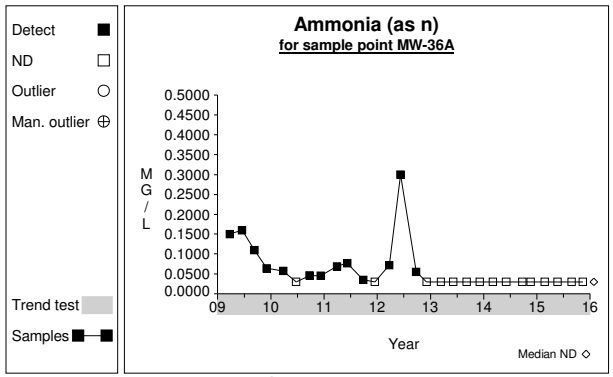
Graph 58



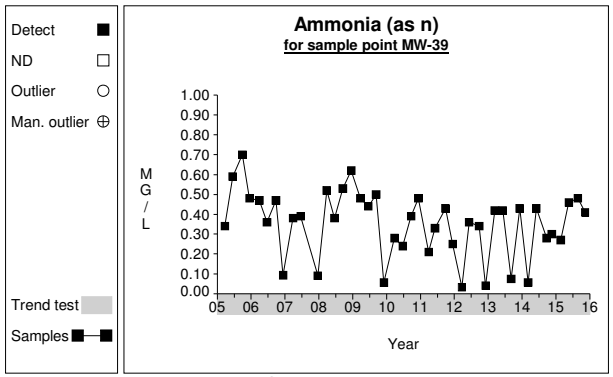
Graph 59



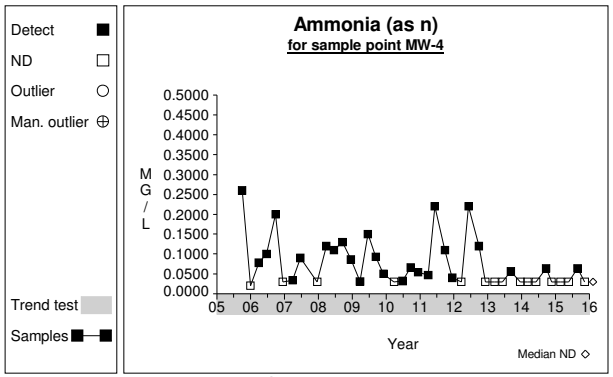
Graph 60



Graph 61

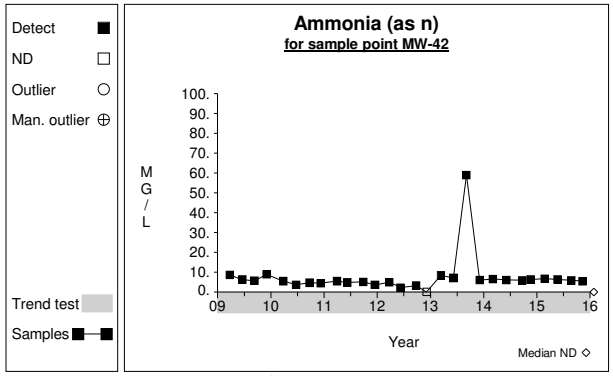


Graph 62

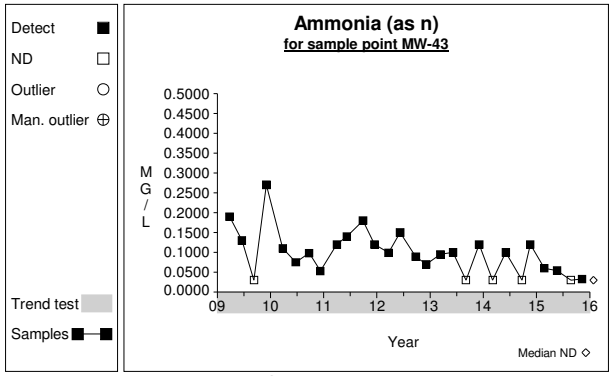


Graph 63

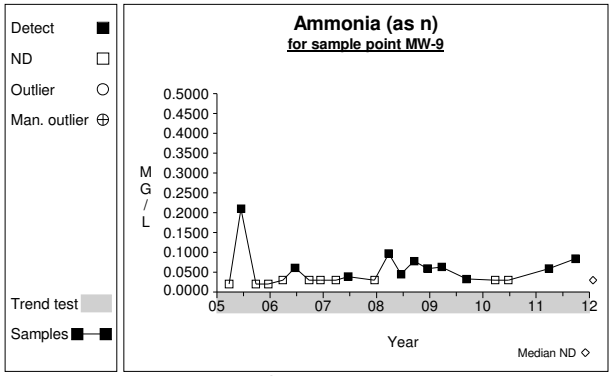
Time Series



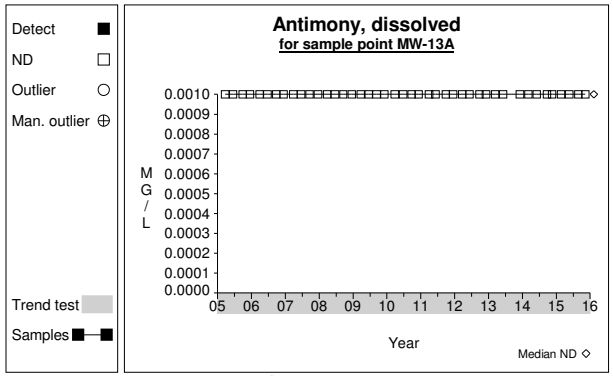
Graph 64



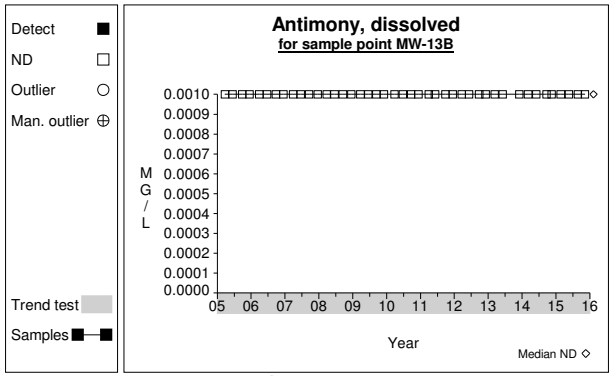
Graph 65



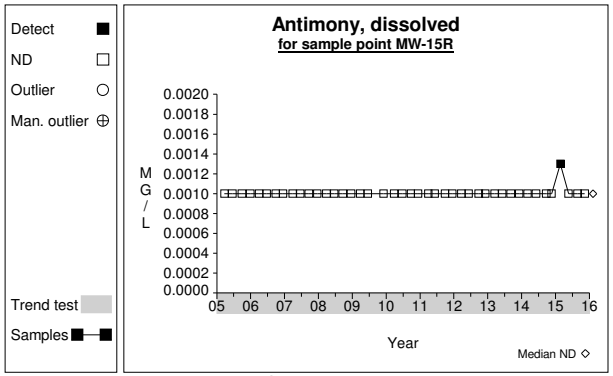
Graph 66



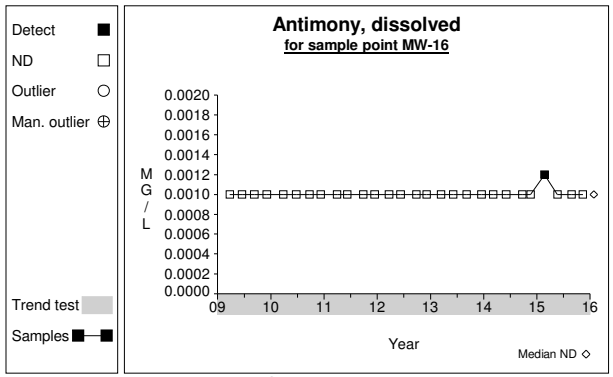
Graph 67



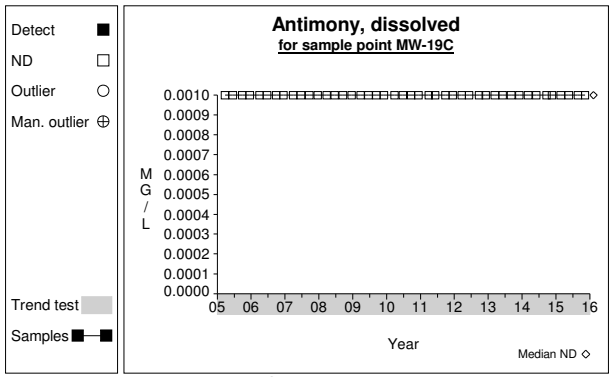
Graph 68



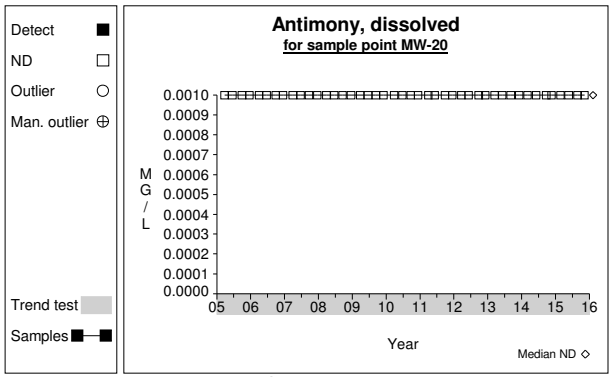
Graph 69



Graph 70

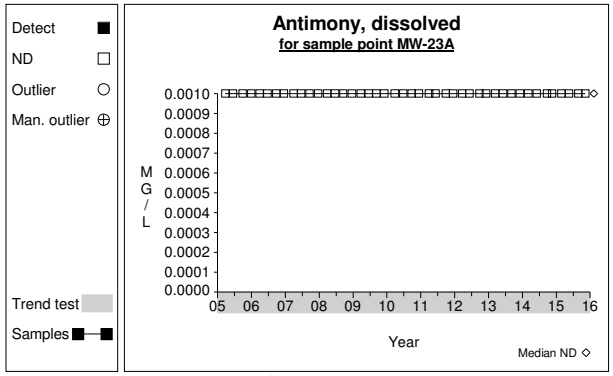


Graph 71

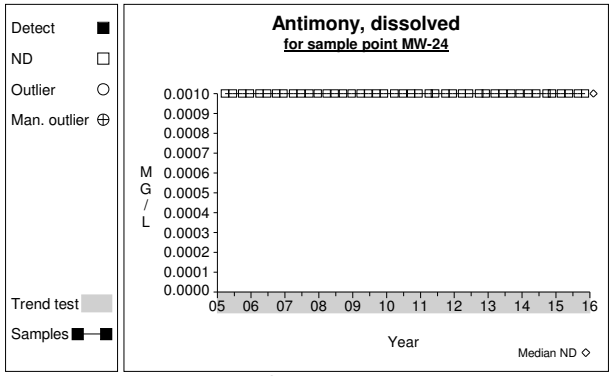


Graph 72

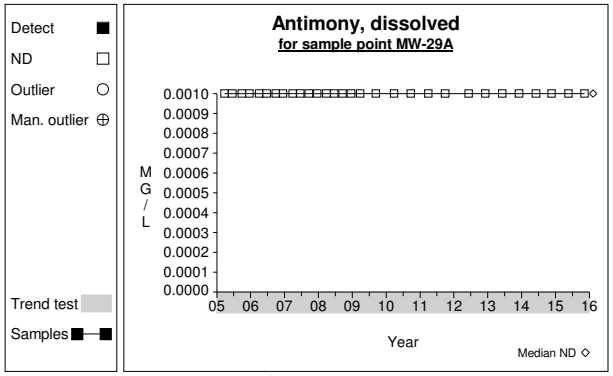
Time Series



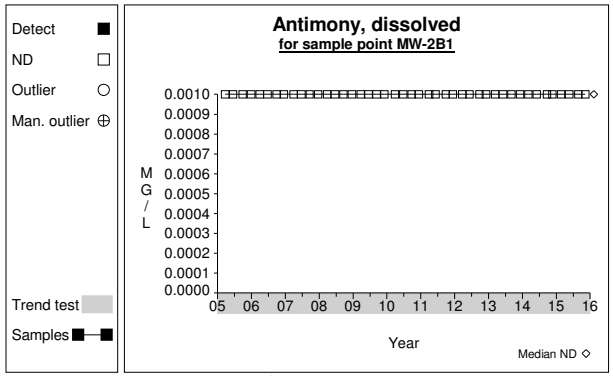
Graph 73



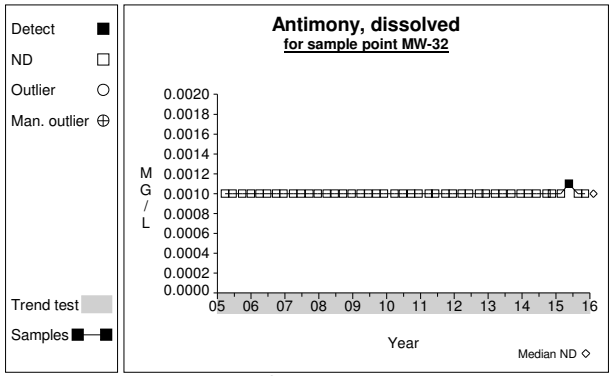
Graph 74



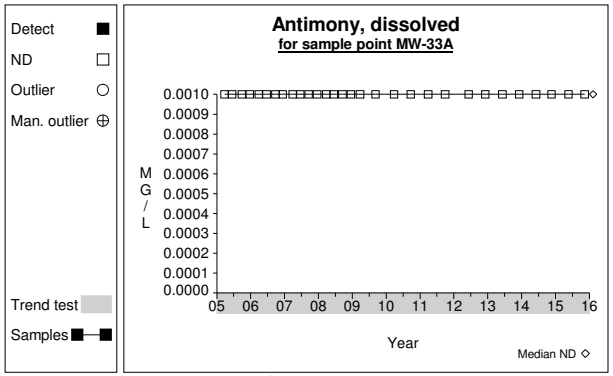
Graph 75



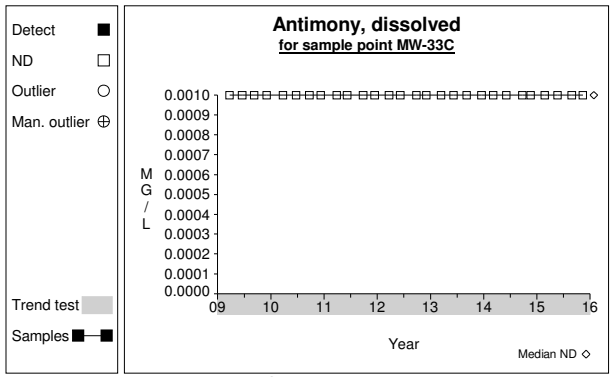
Graph 76



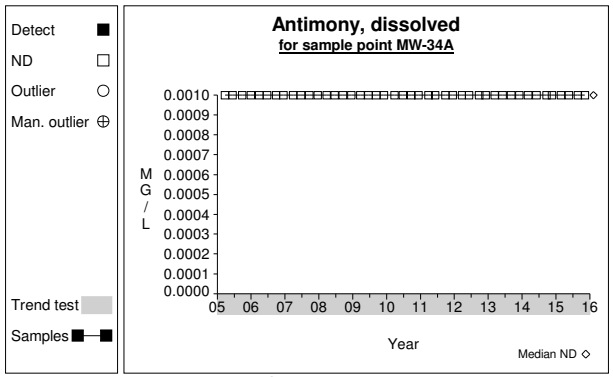
Graph 77



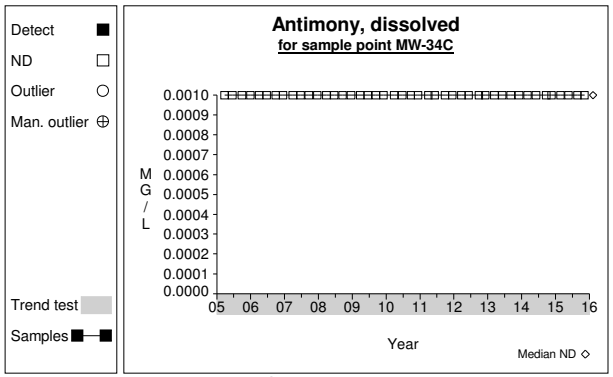
Graph 78



Graph 79

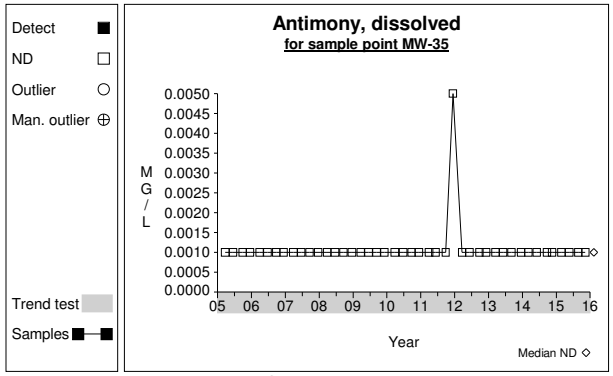


Graph 80

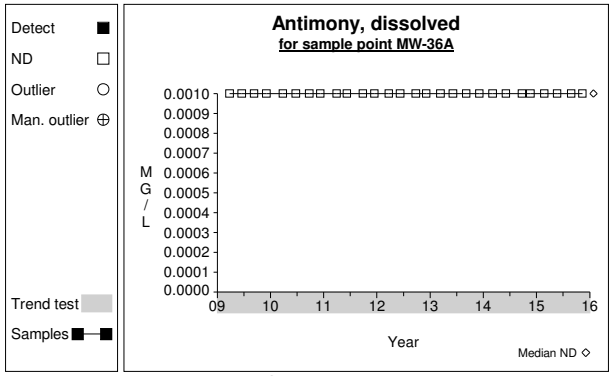


Graph 81

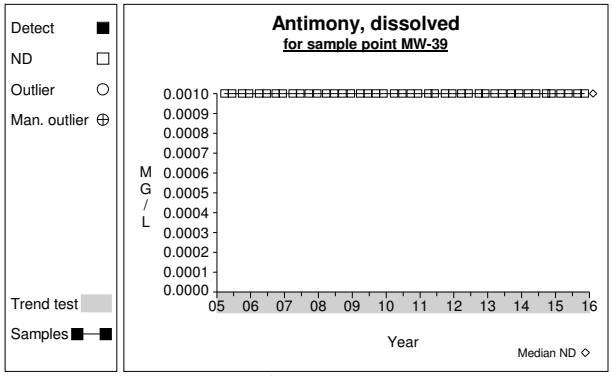
Time Series



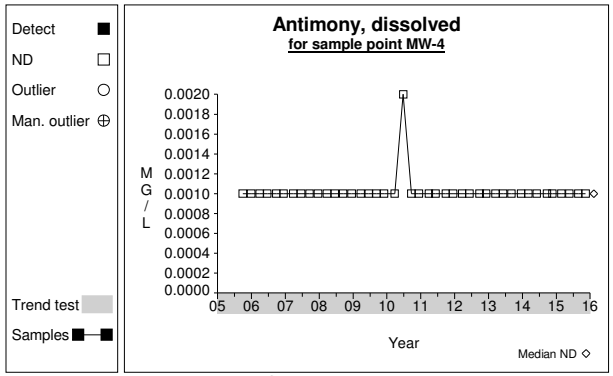
Graph 82



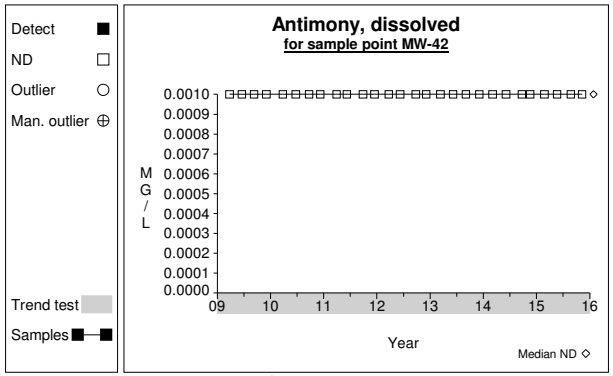
Graph 83



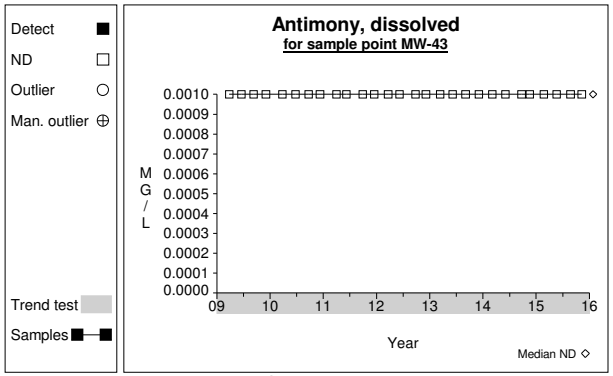
Graph 84



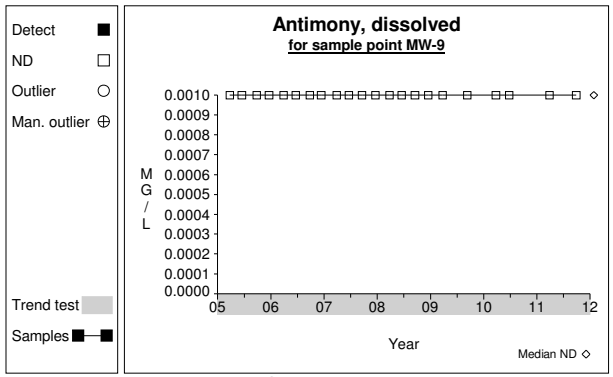
Graph 85



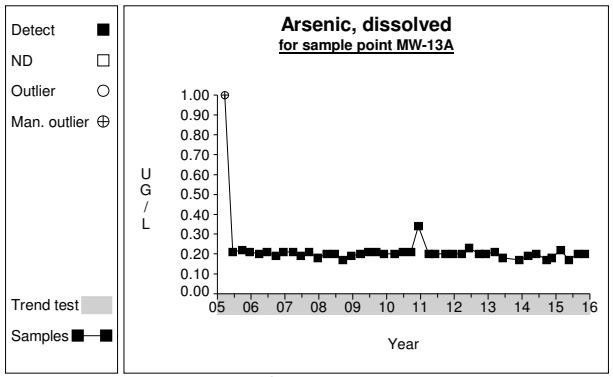
Graph 86



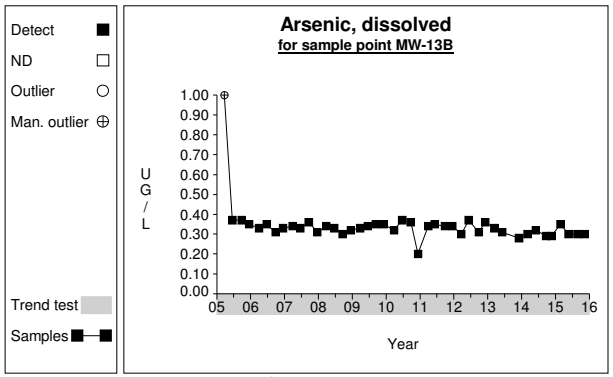
Graph 87



Graph 88

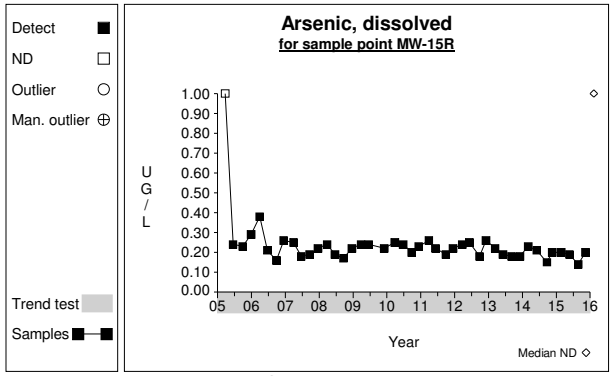


Graph 89

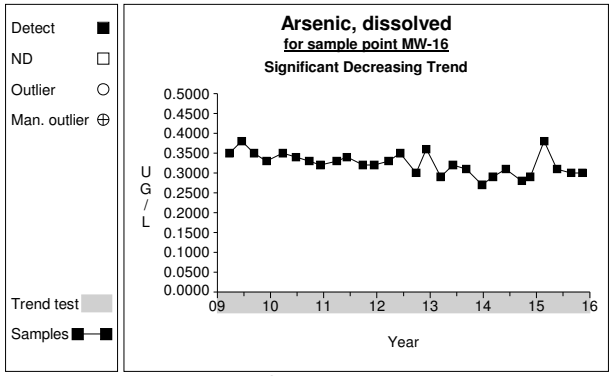


Graph 90

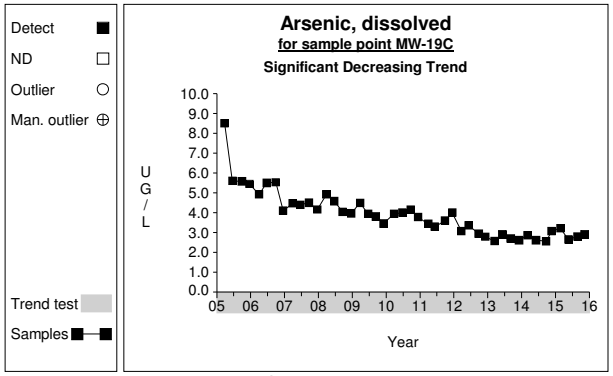
Time Series



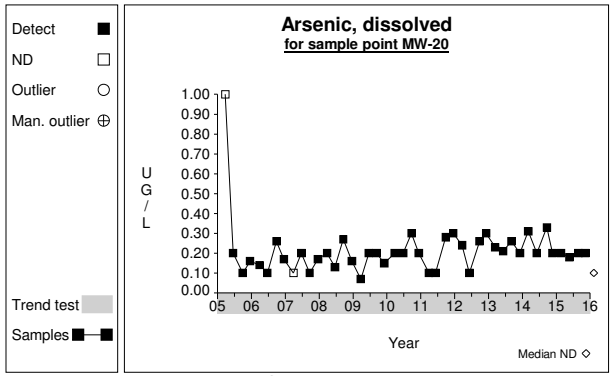
Graph 91



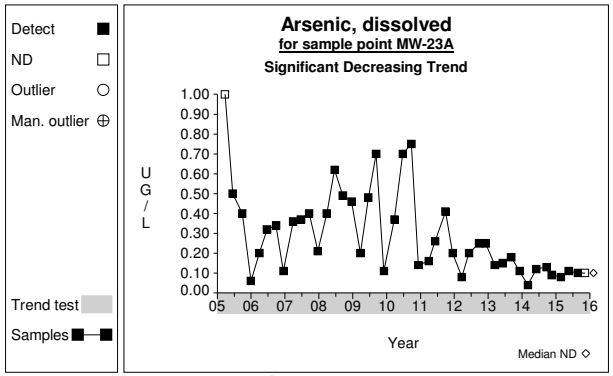
Graph 92



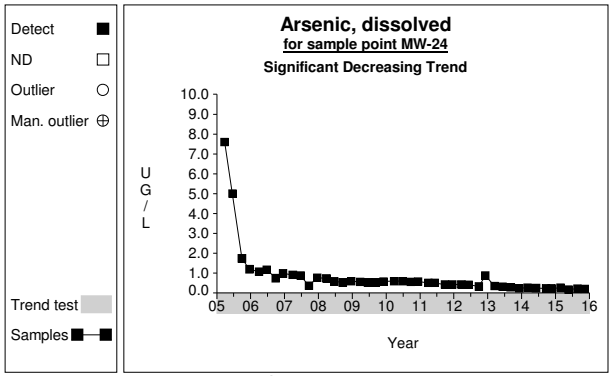
Graph 93



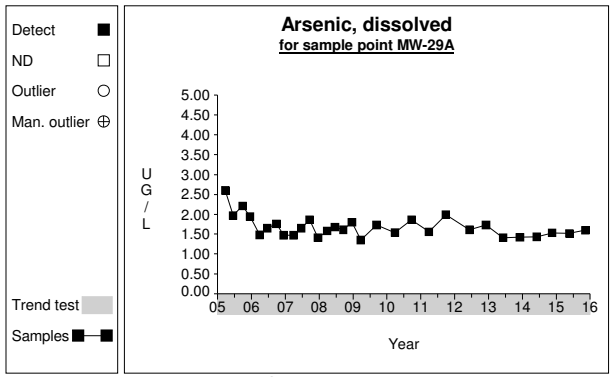
Graph 94



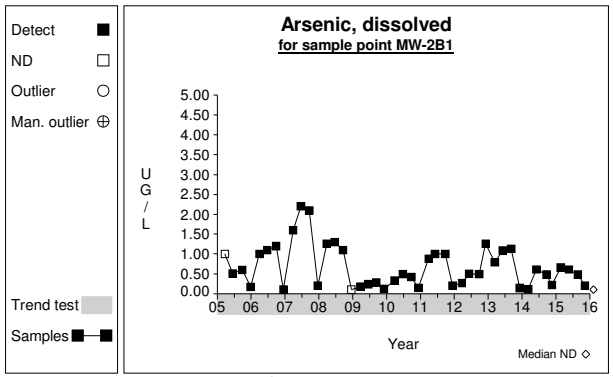
Graph 95



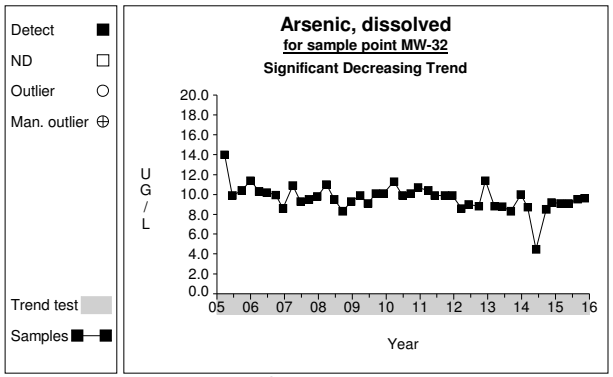
Graph 96



Graph 97

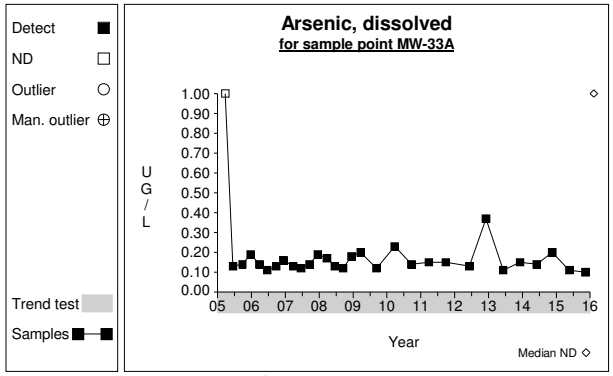


Graph 98

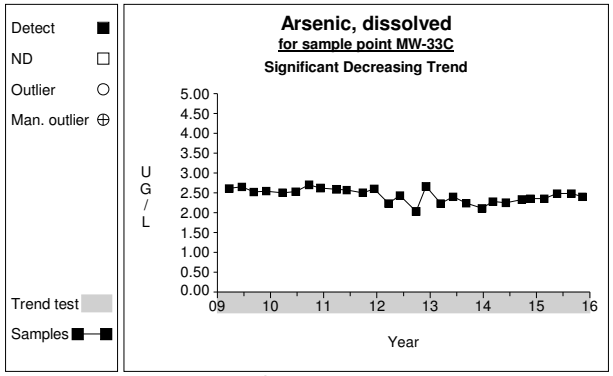


Graph 99

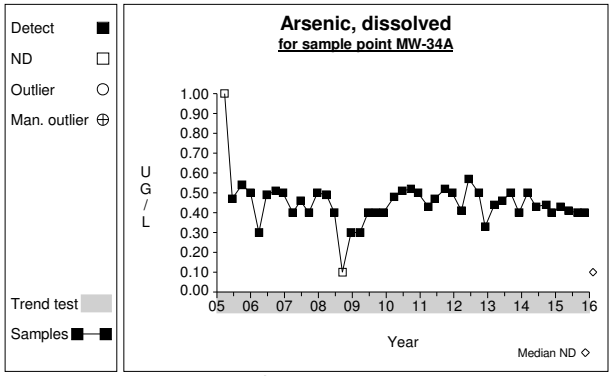
Time Series



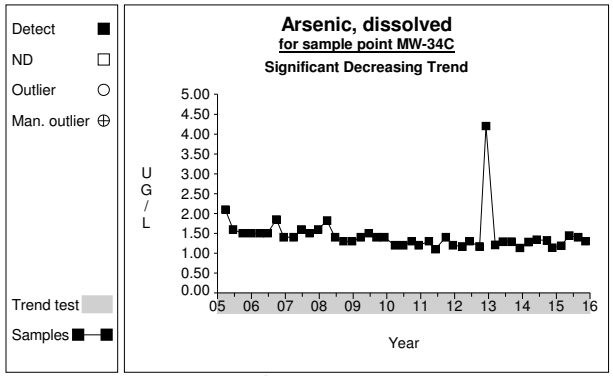
Graph 100



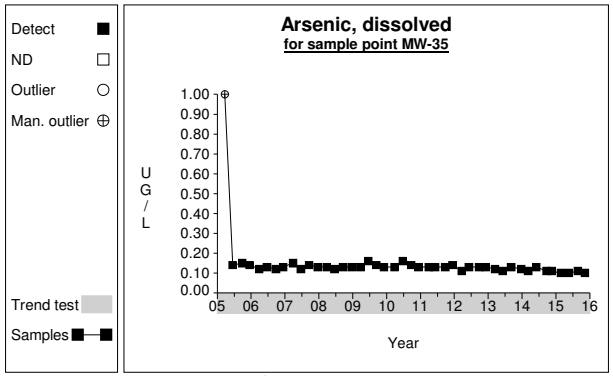
Graph 101



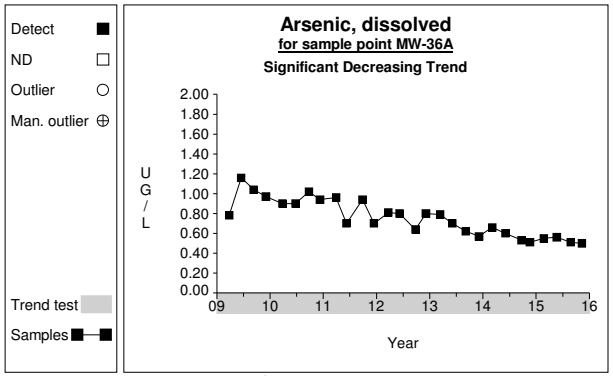
Graph 102



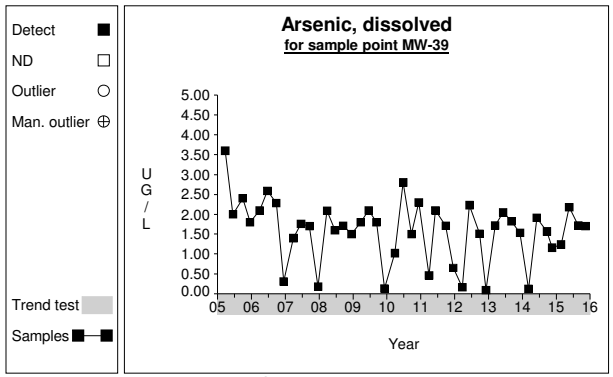
Graph 103



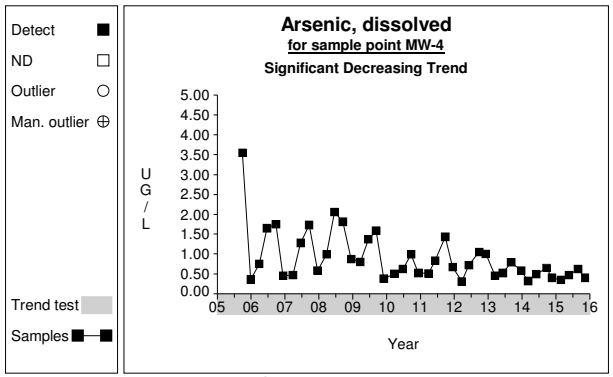
Graph 104



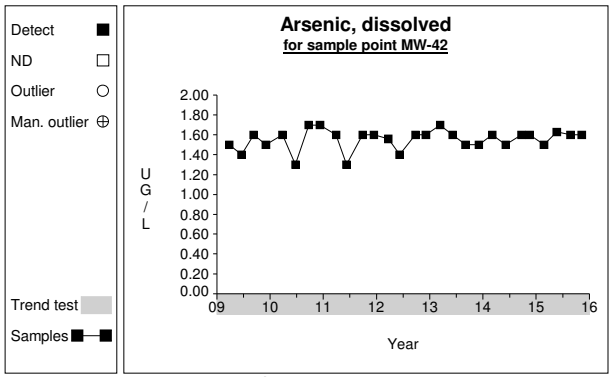
Graph 105



Graph 106

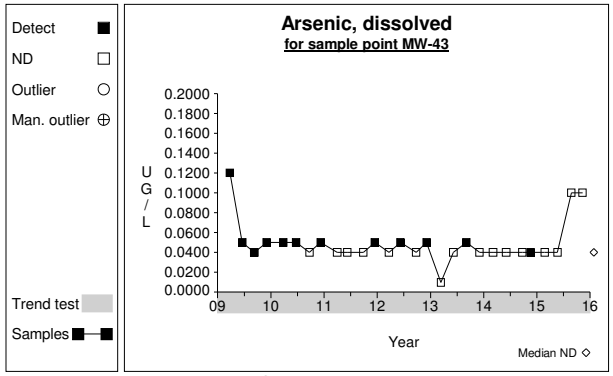


Graph 107

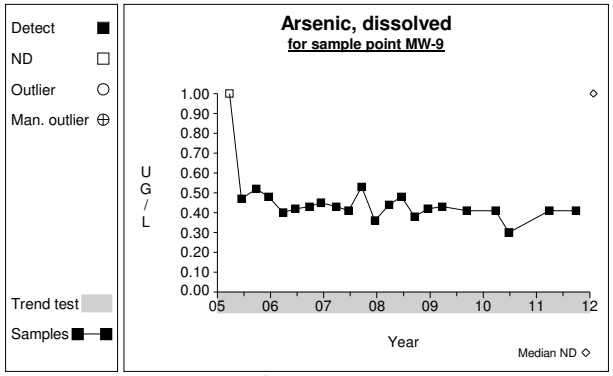


Graph 108

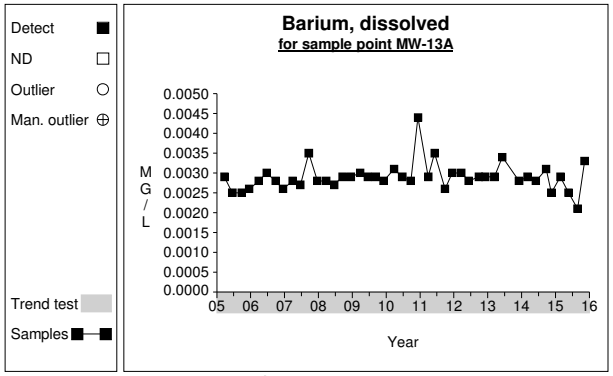
Time Series



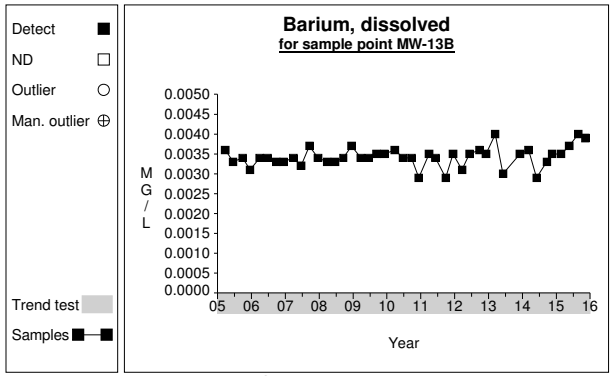
Graph 109



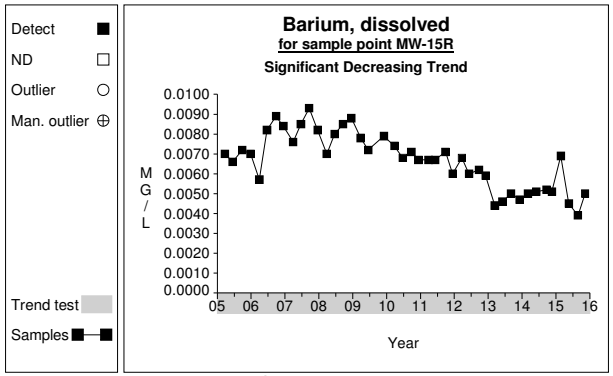
Graph 110



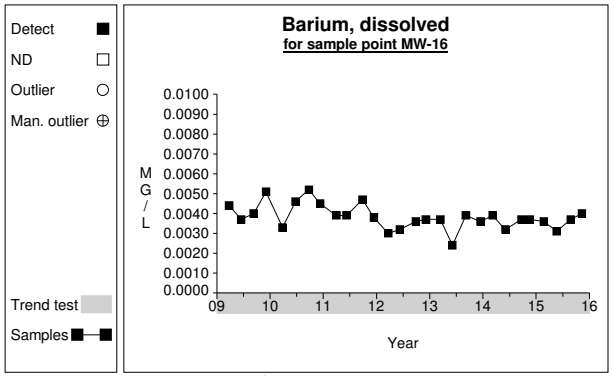
Graph 111



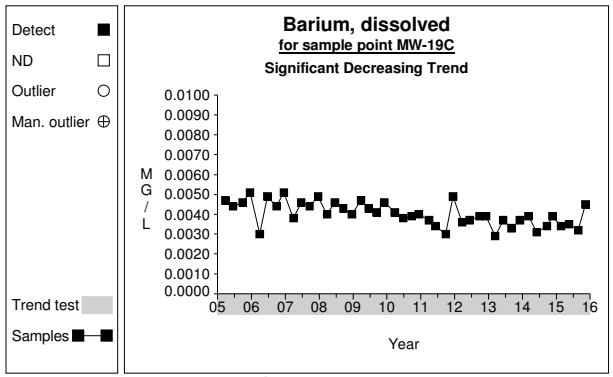
Graph 112



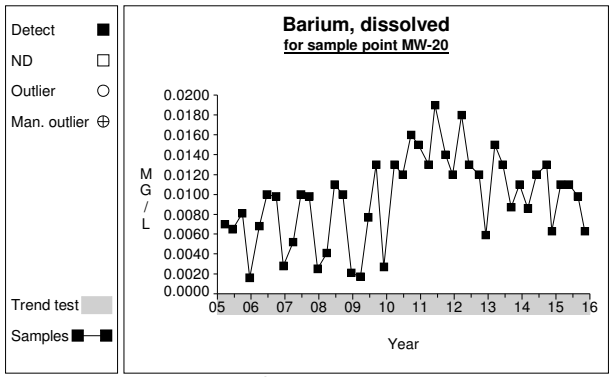
Graph 113



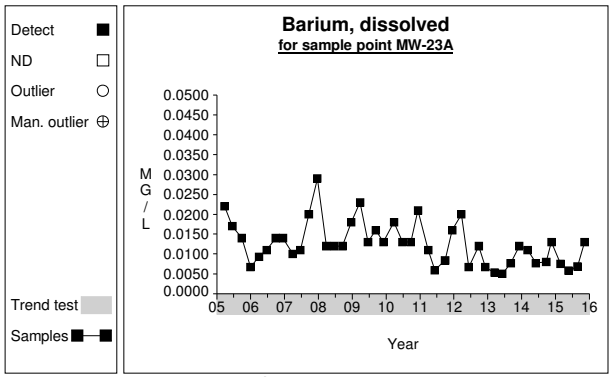
Graph 114



Graph 115

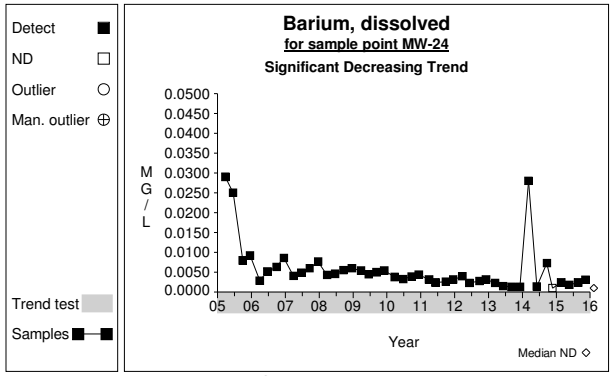


Graph 116

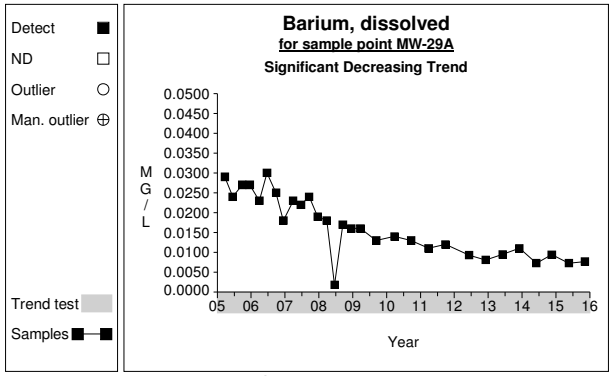


Graph 117

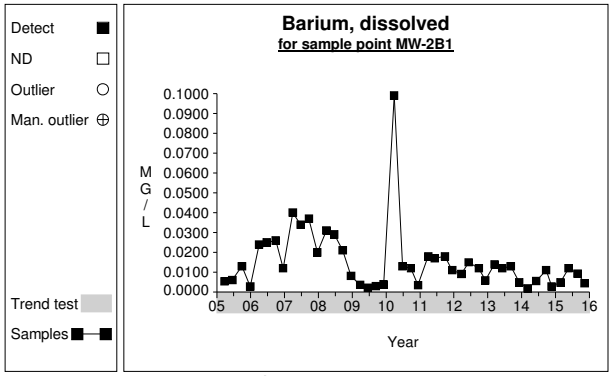
Time Series



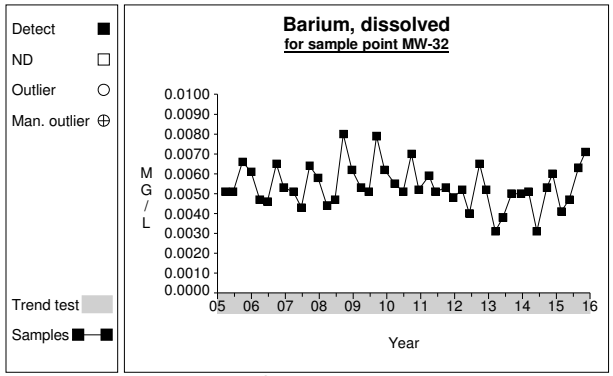
Graph 118



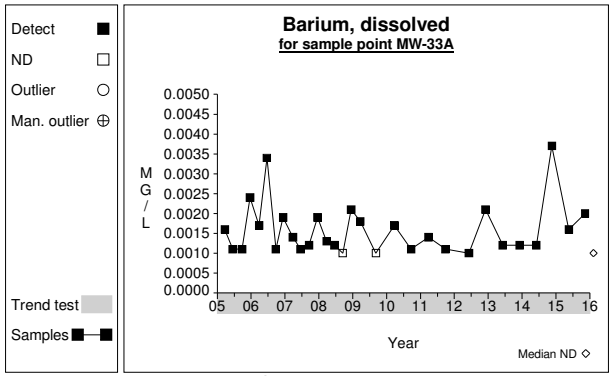
Graph 119



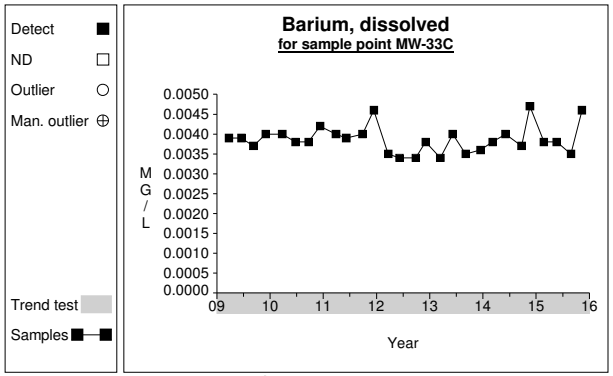
Graph 120



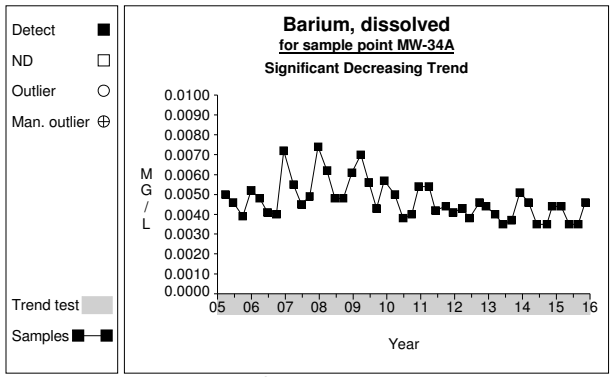
Graph 121



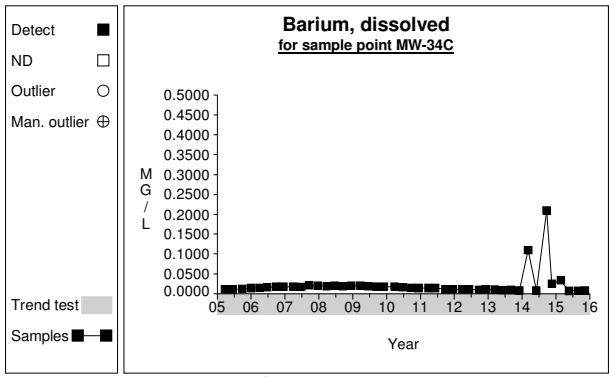
Graph 122



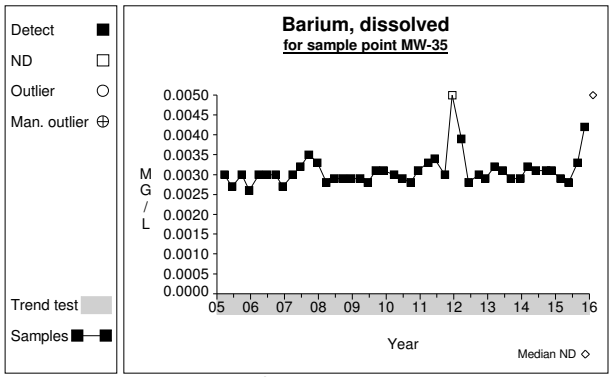
Graph 123



Graph 124

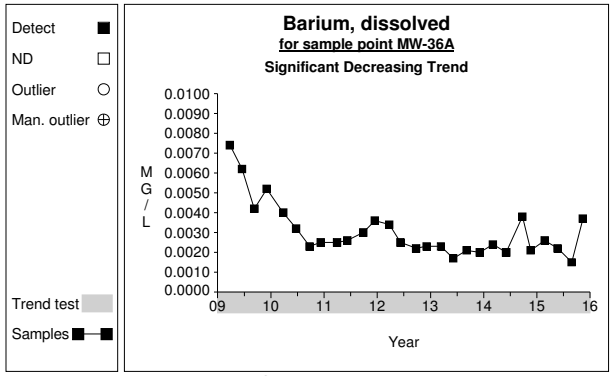


Graph 125

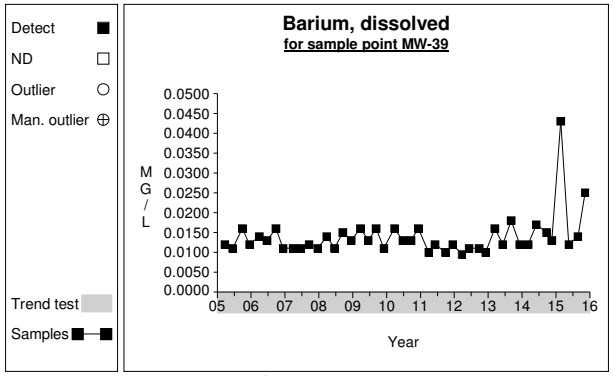


Graph 126

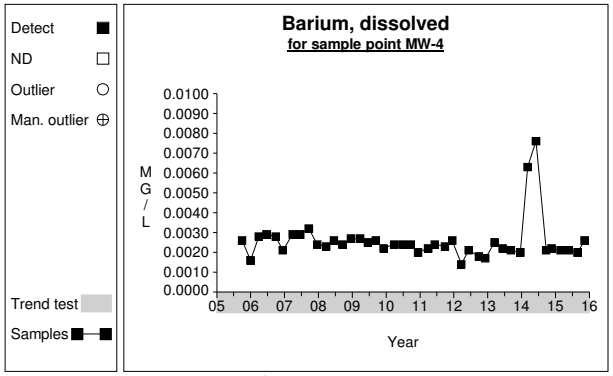
Time Series



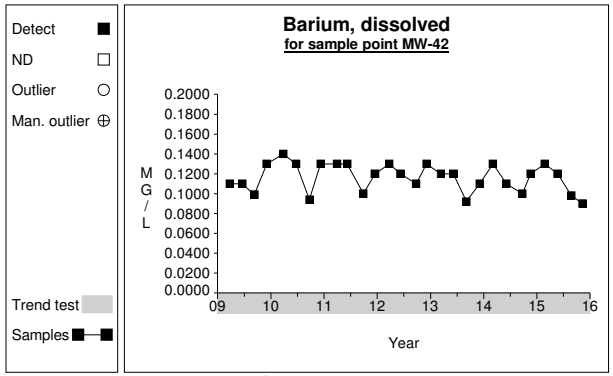
Graph 127



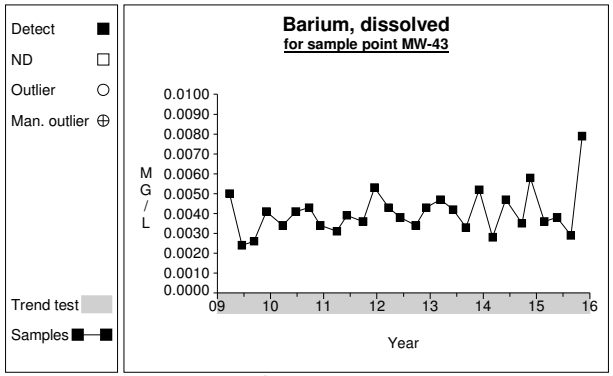
Graph 128



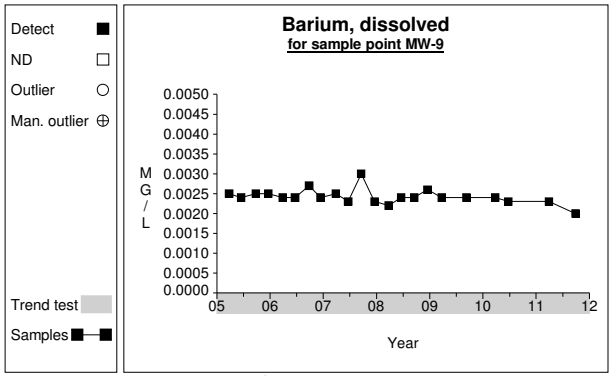
Graph 129



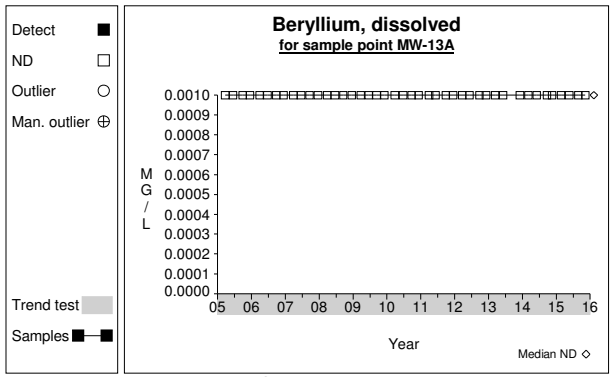
Graph 130



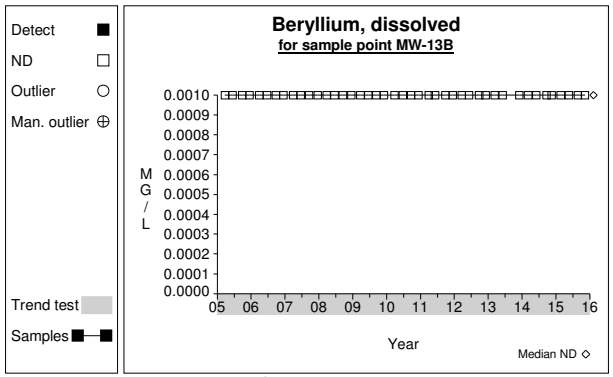
Graph 131



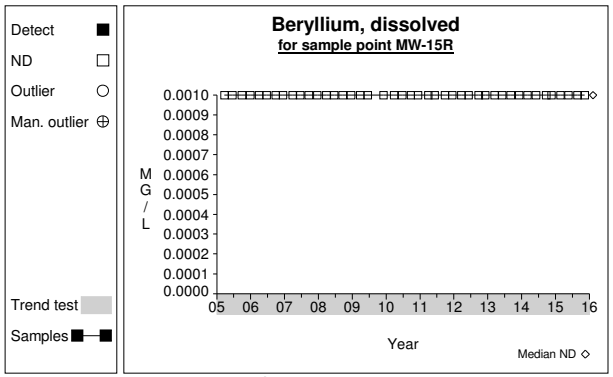
Graph 132



Graph 133

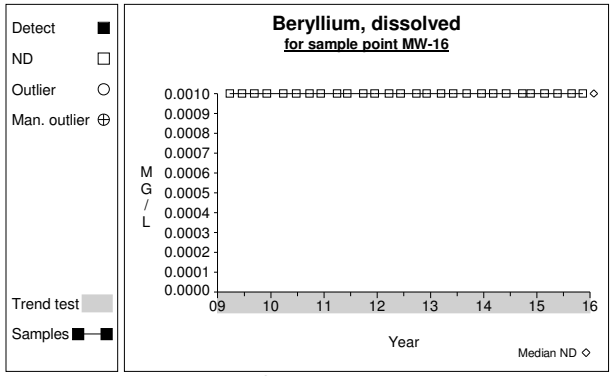


Graph 134

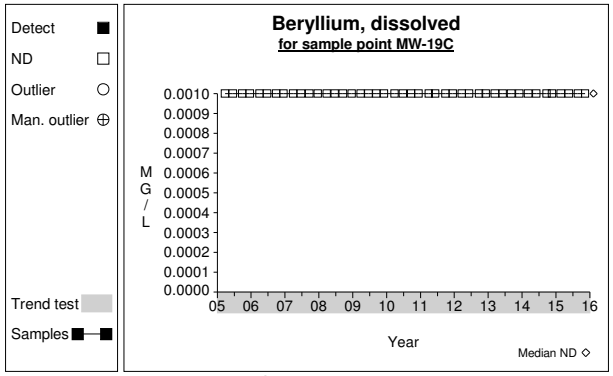


Graph 135

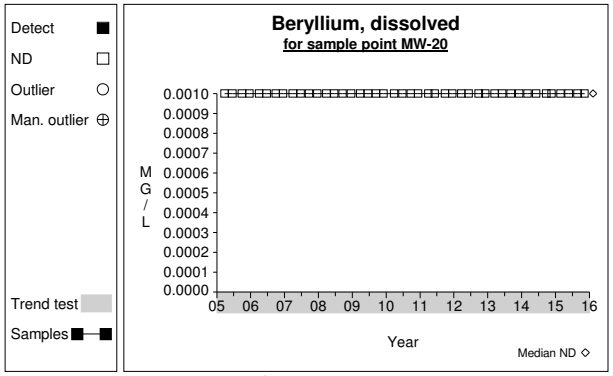
Time Series



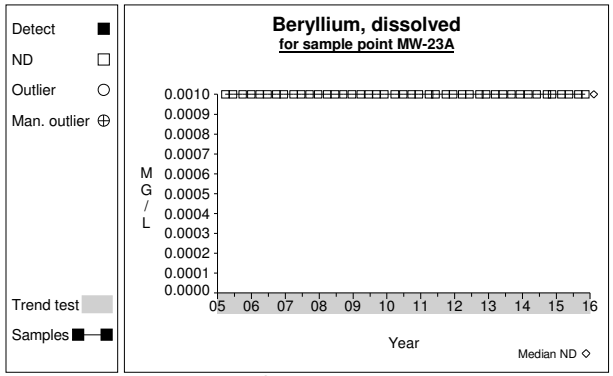
Graph 136



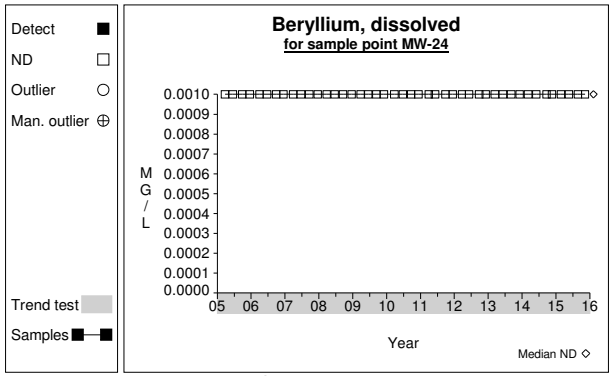
Graph 137



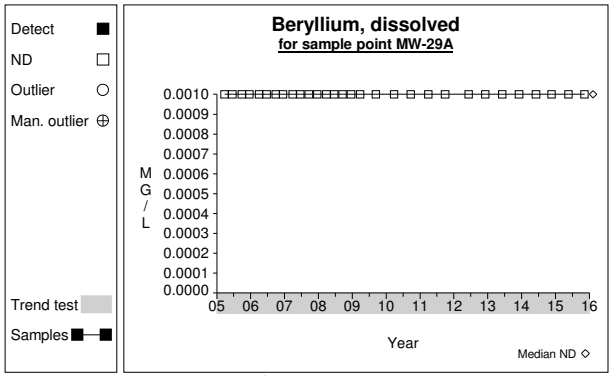
Graph 138



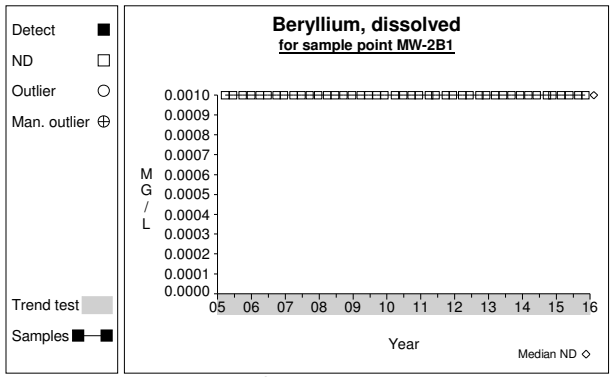
Graph 139



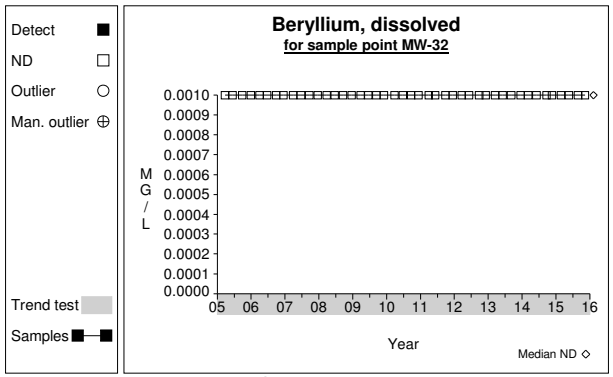
Graph 140



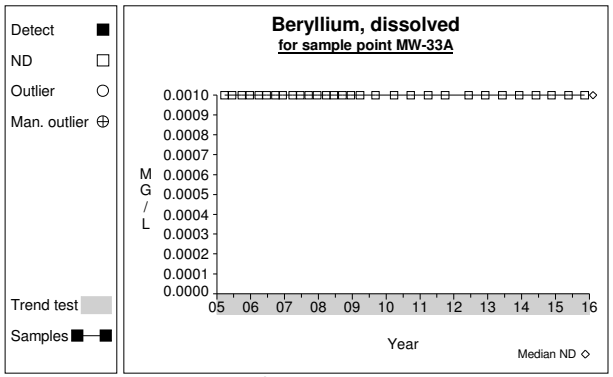
Graph 141



Graph 142

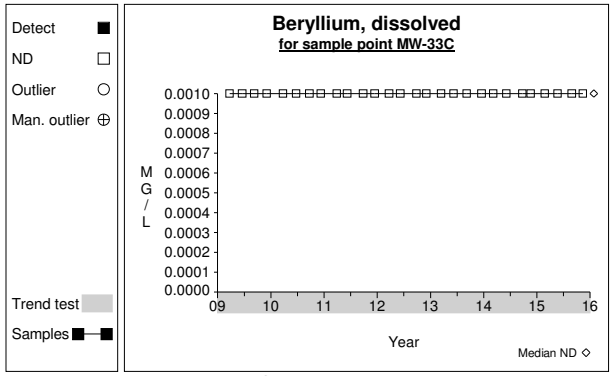


Graph 143

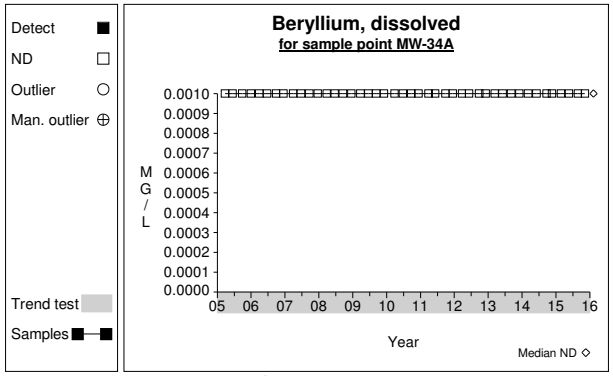


Graph 144

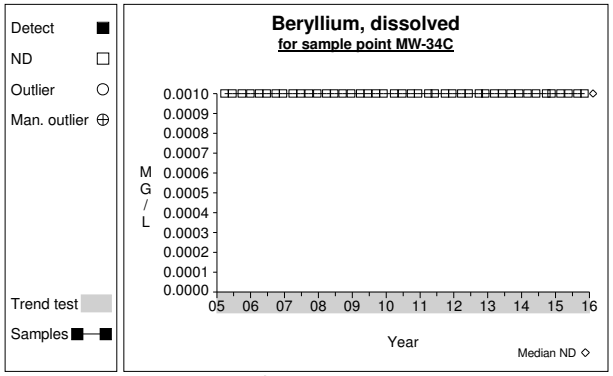
Time Series



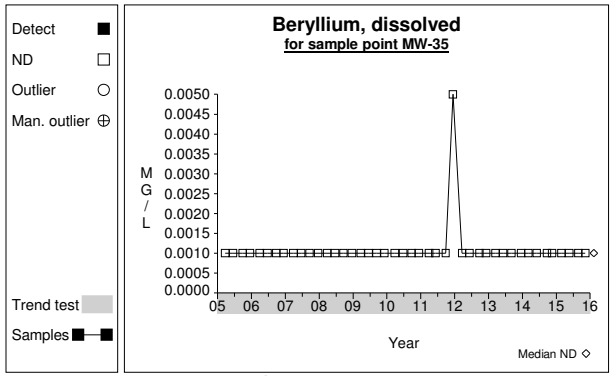
Graph 145



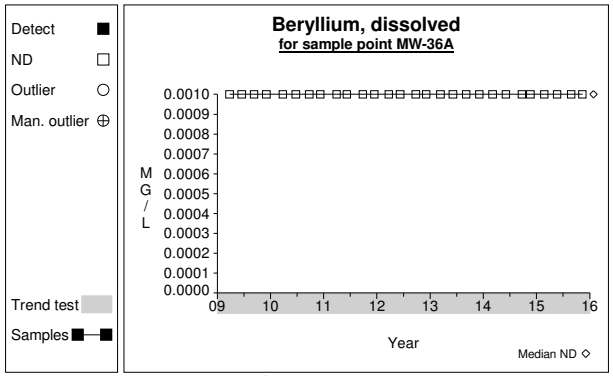
Graph 146



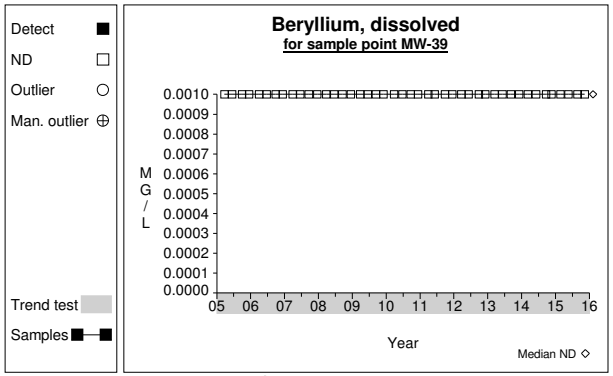
Graph 147



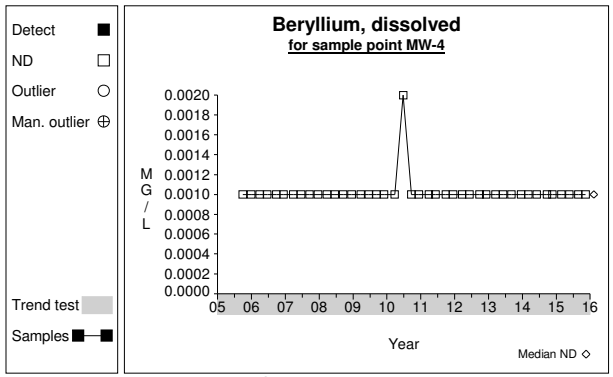
Graph 148



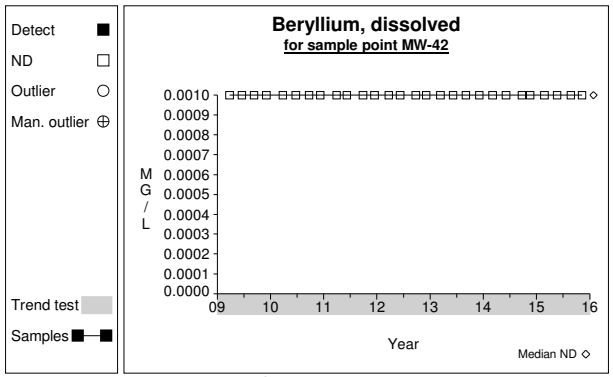
Graph 149



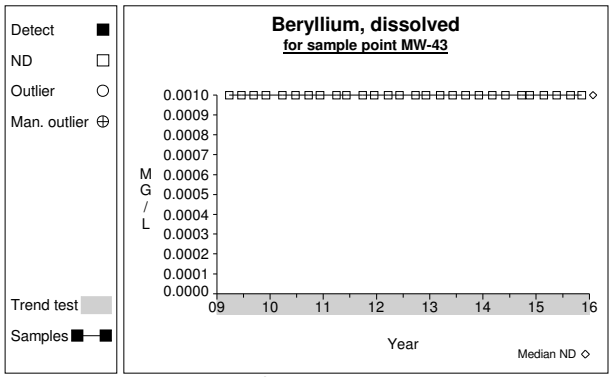
Graph 150



Graph 151

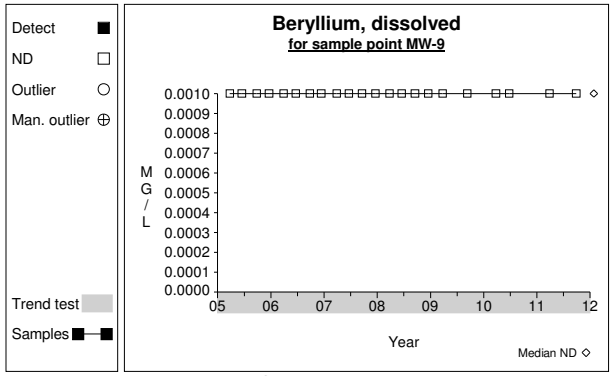


Graph 152

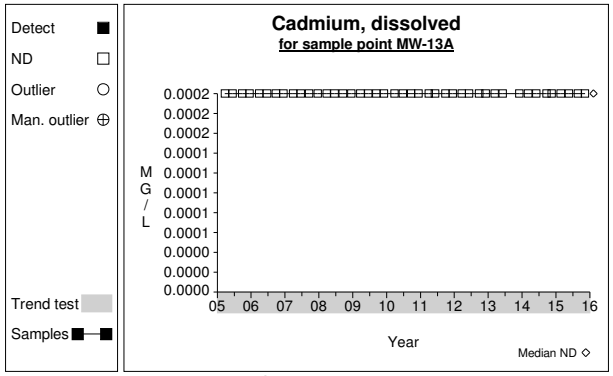


Graph 153

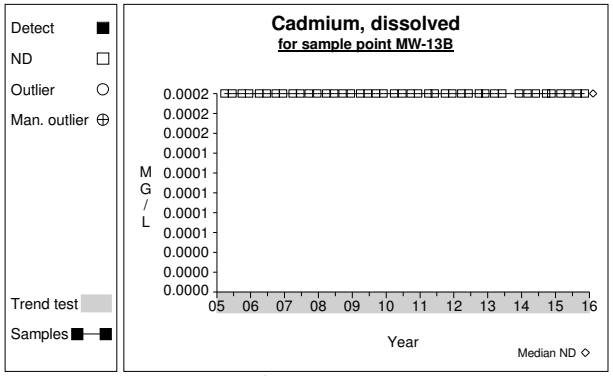
Time Series



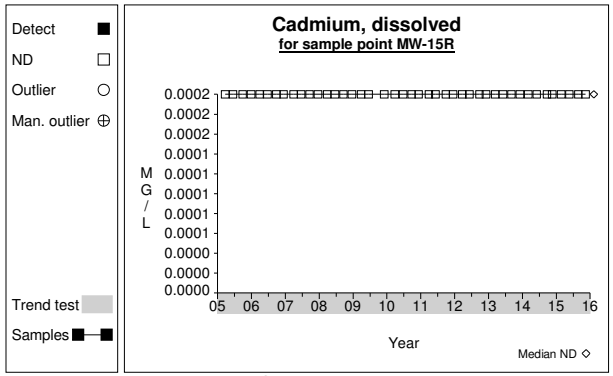
Graph 154



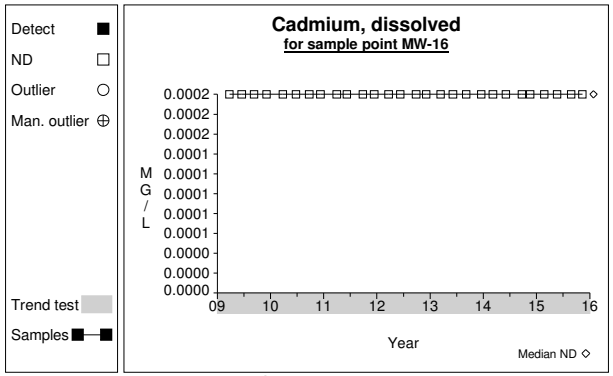
Graph 155



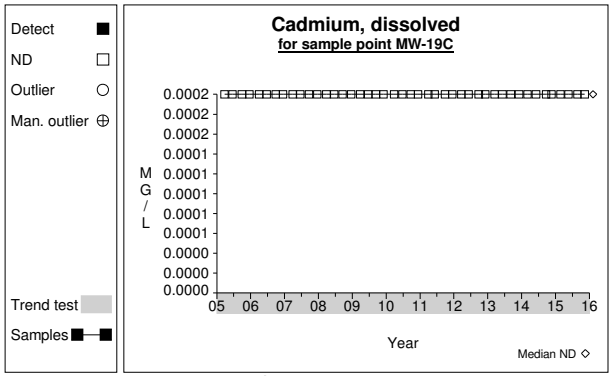
Graph 156



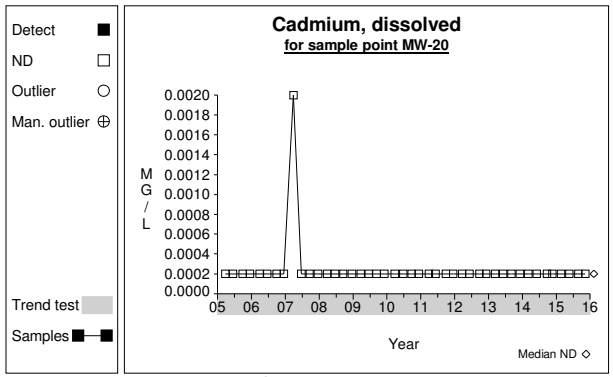
Graph 157



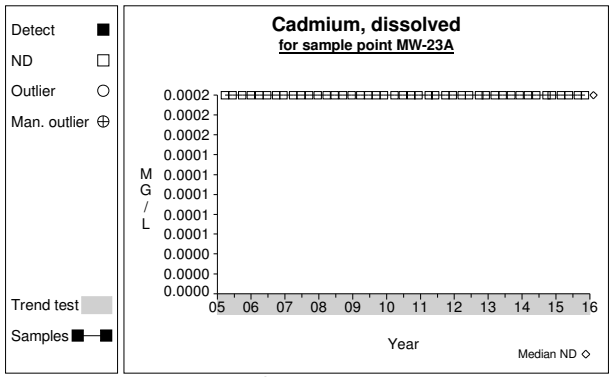
Graph 158



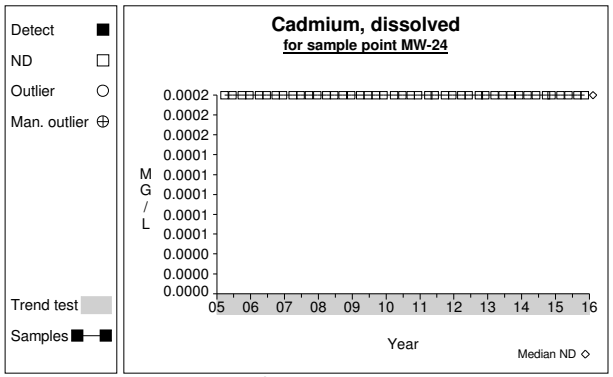
Graph 159



Graph 160

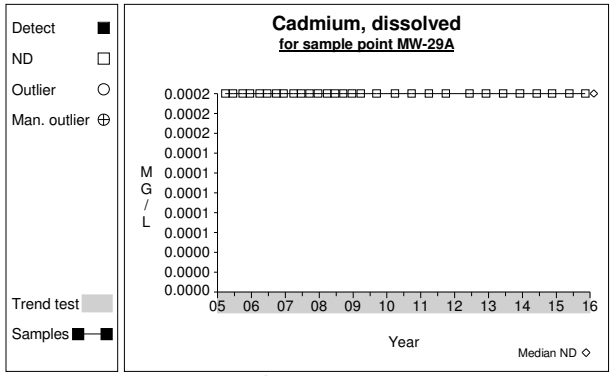


Graph 161

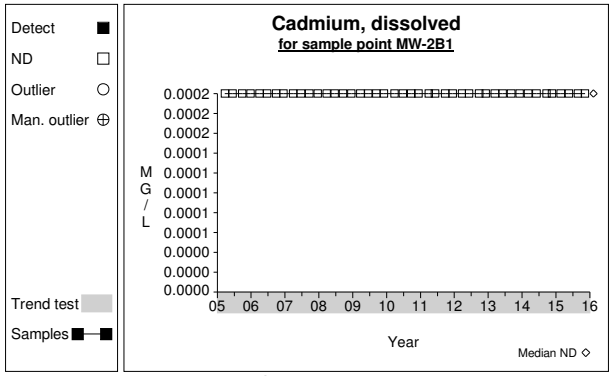


Graph 162

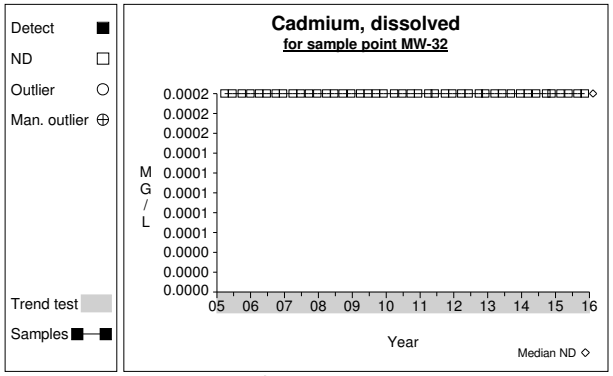
Time Series



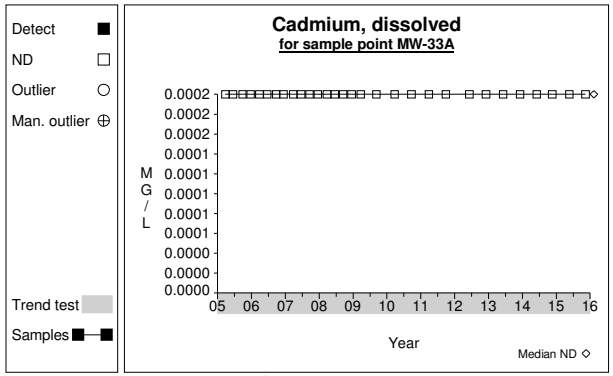
Graph 163



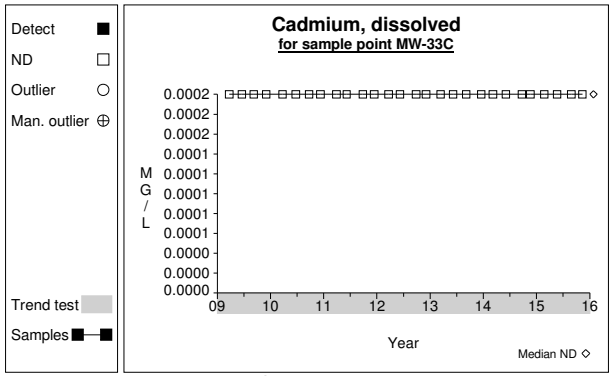
Graph 164



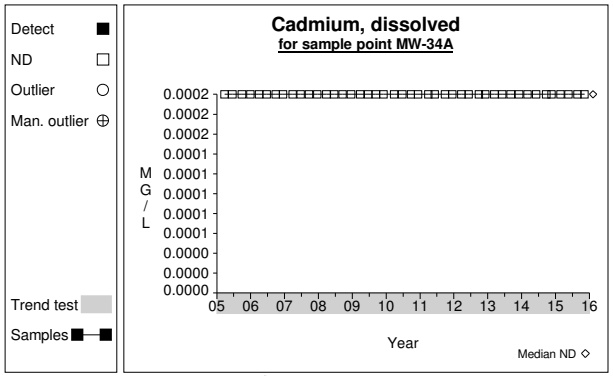
Graph 165



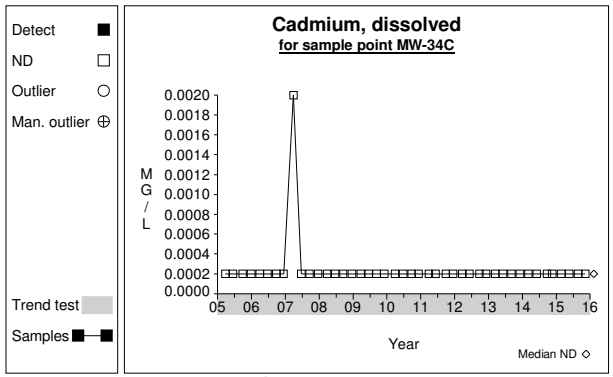
Graph 166



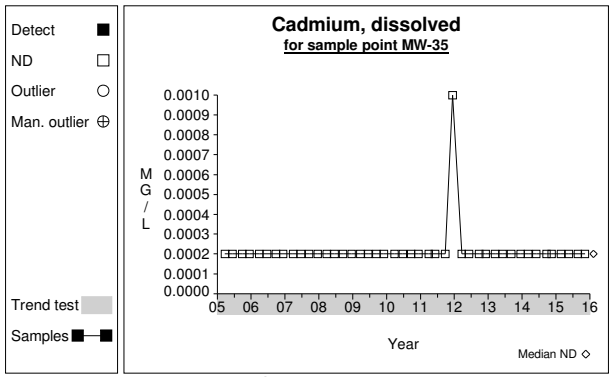
Graph 167



Graph 168



Graph 169



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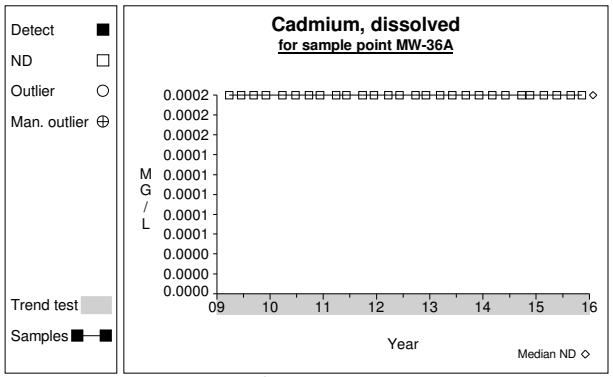
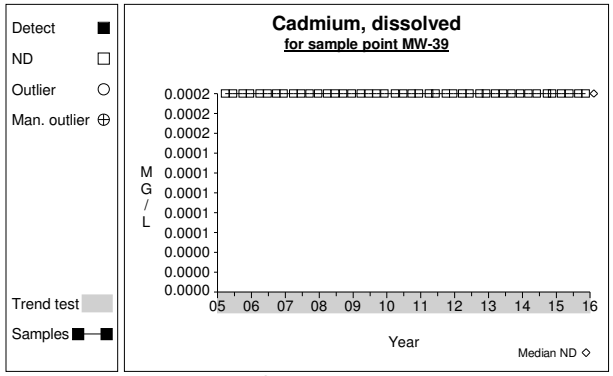
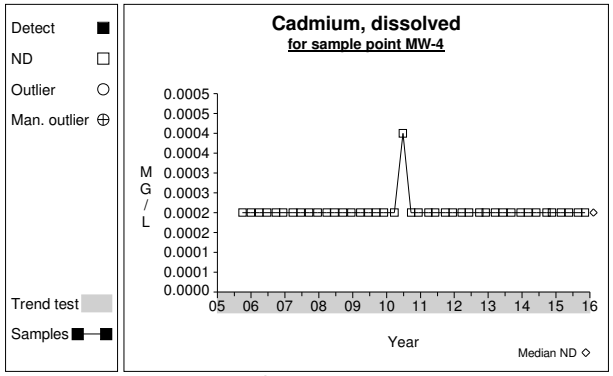


Graph 171

Time Series



Graph 172



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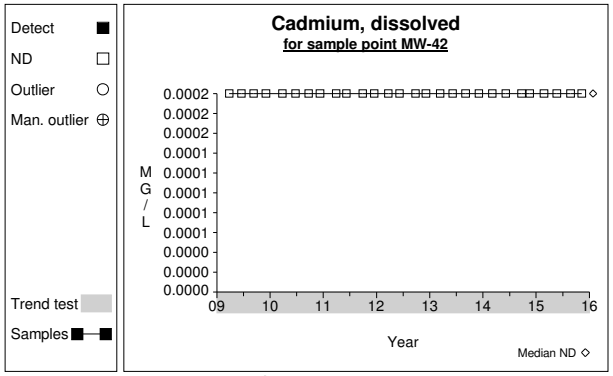
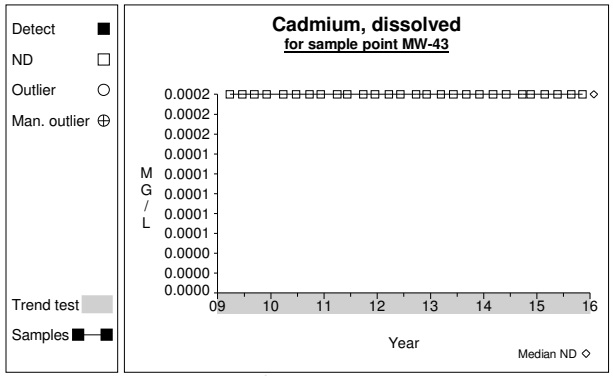
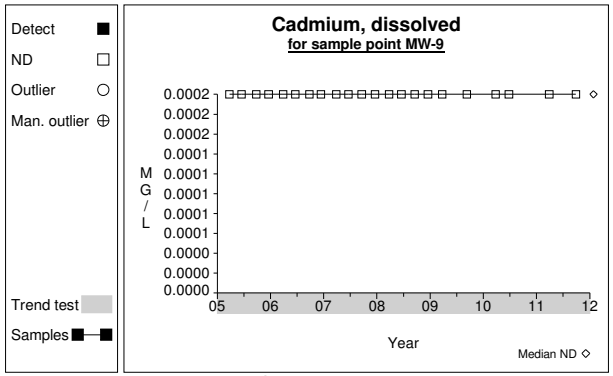


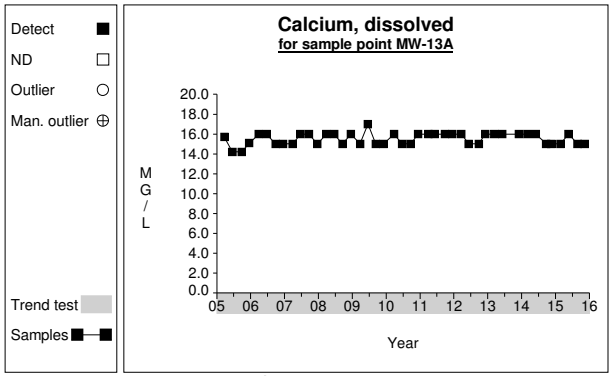
Graph 174



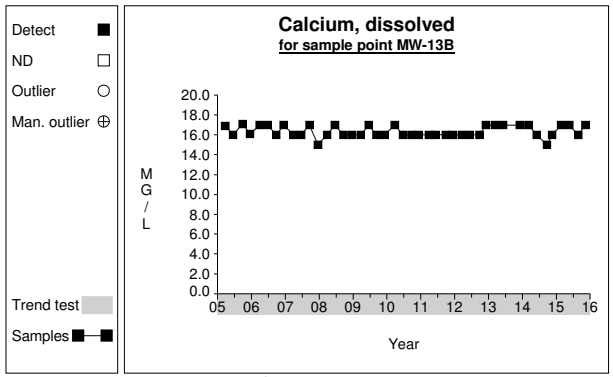
Graph 175



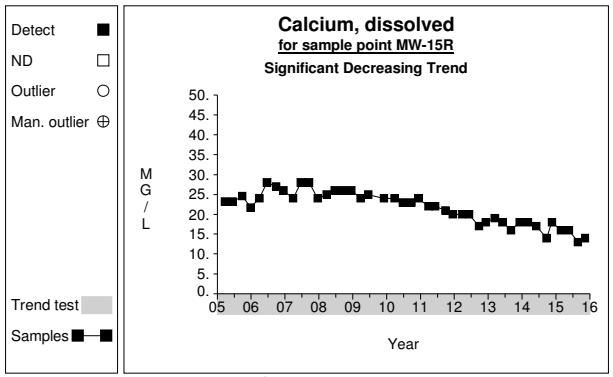
Graph 176



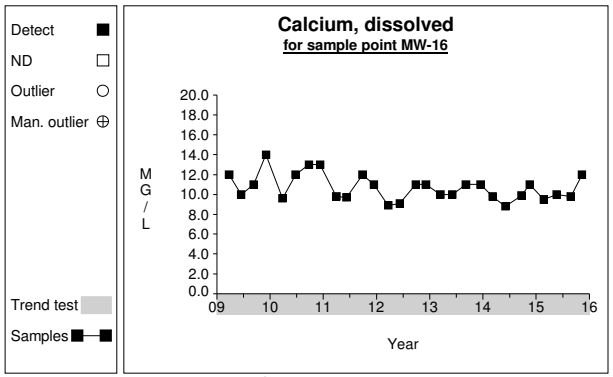
Graph 177



Graph 178

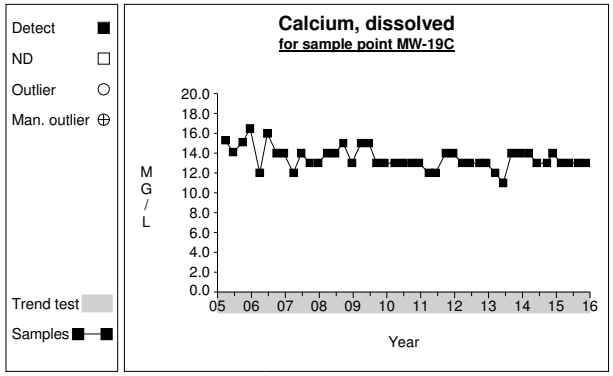


Graph 179

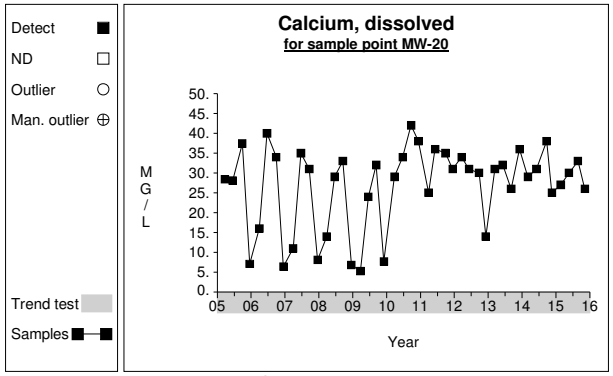


Graph 180

Time Series



Graph 181



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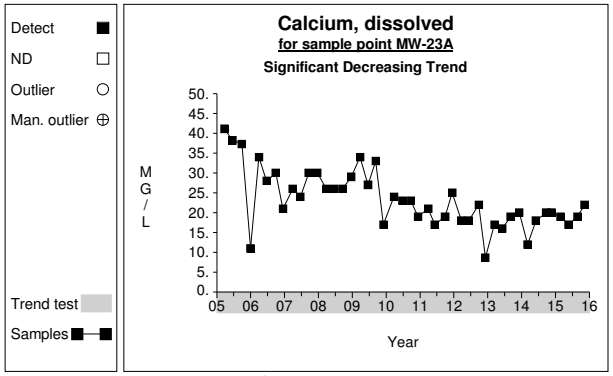
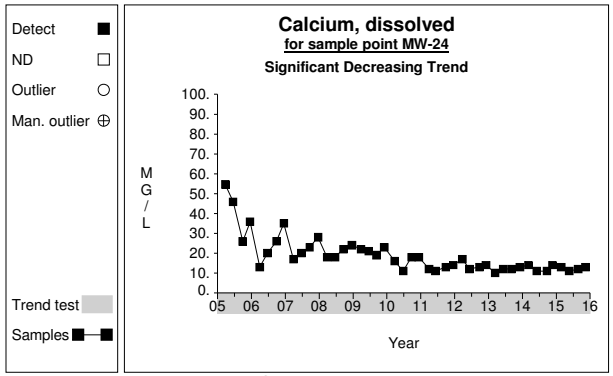


Graph 183



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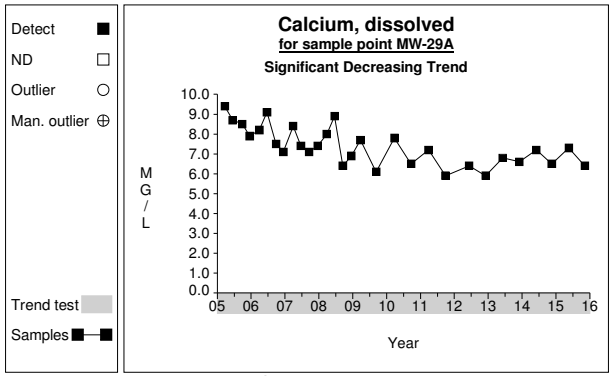

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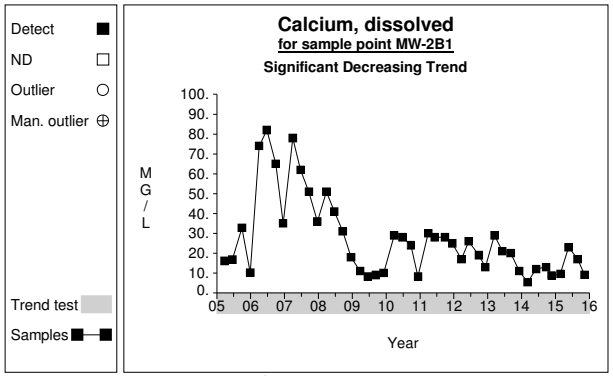

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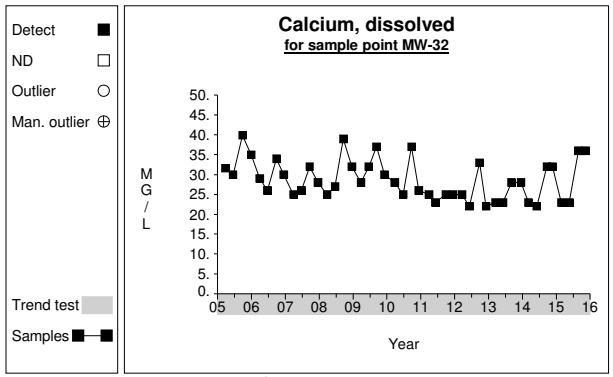
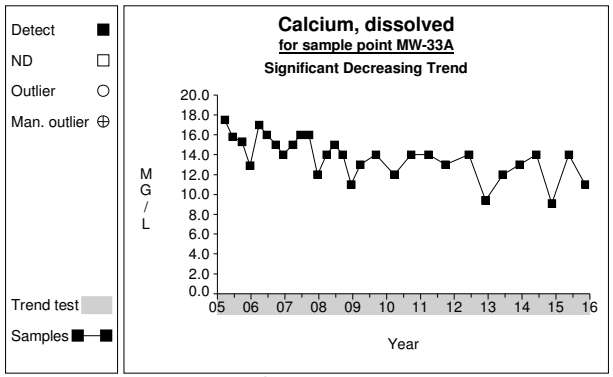


Graph 187



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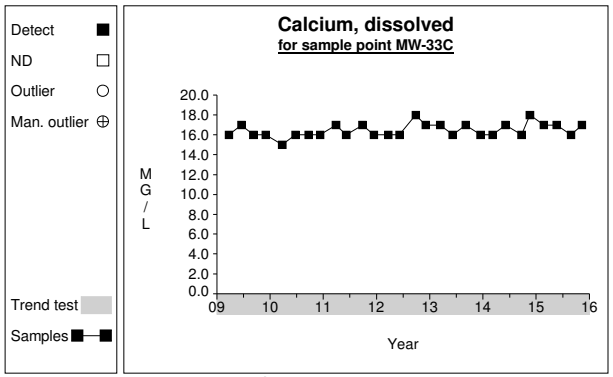
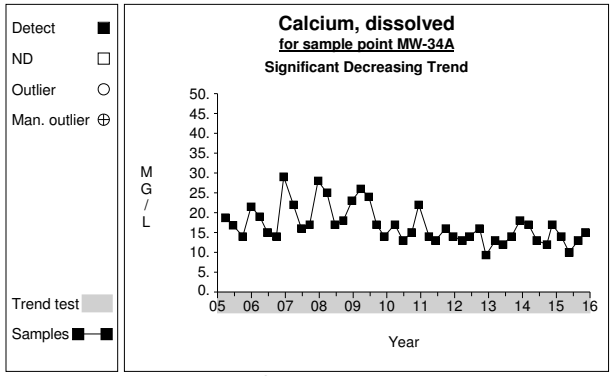


Graph 189

Time Series



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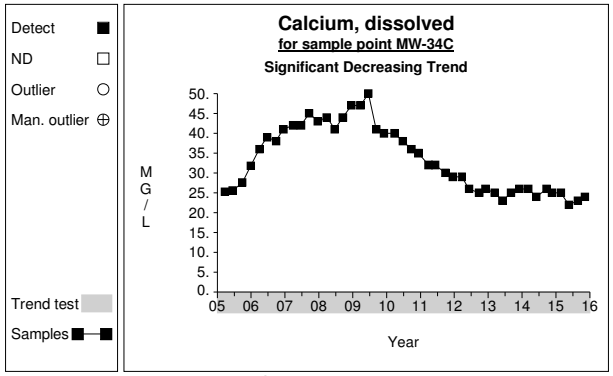
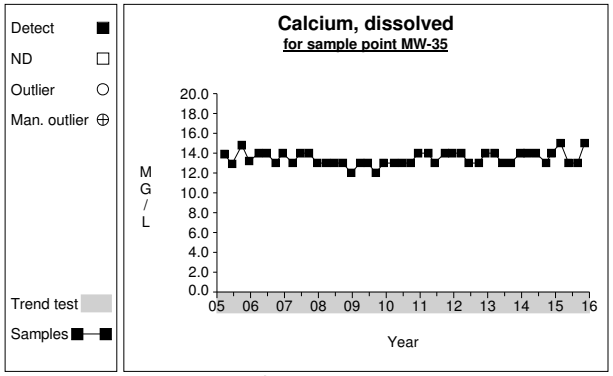


Graph 191



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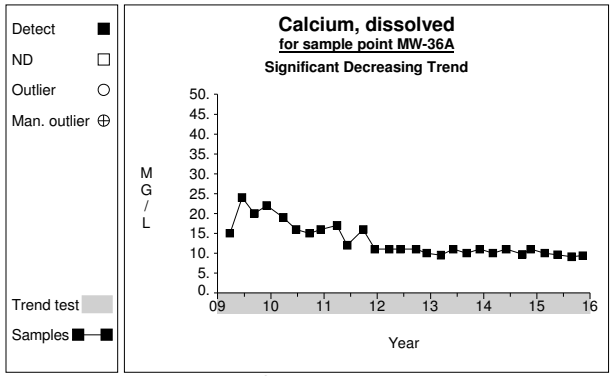

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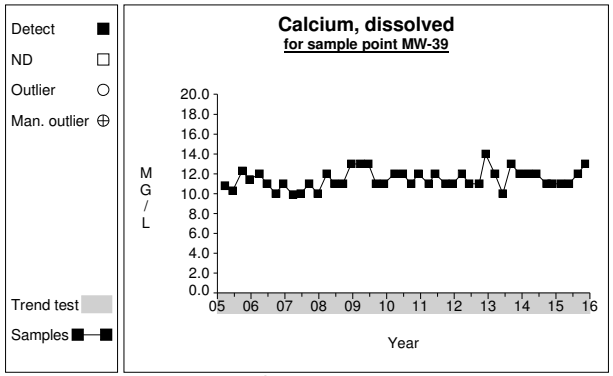

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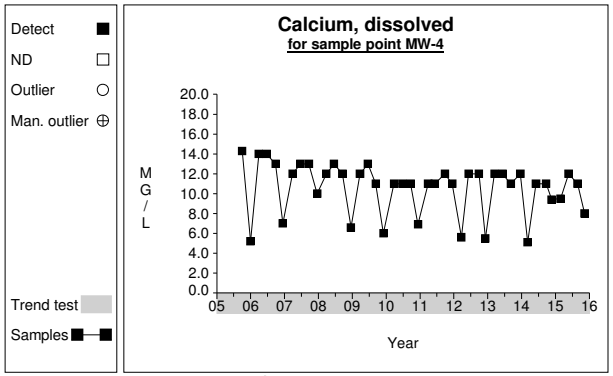
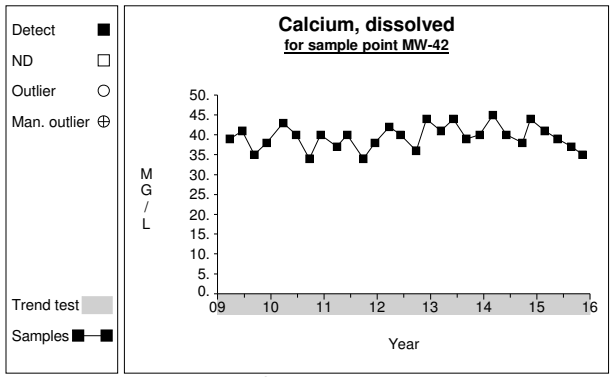
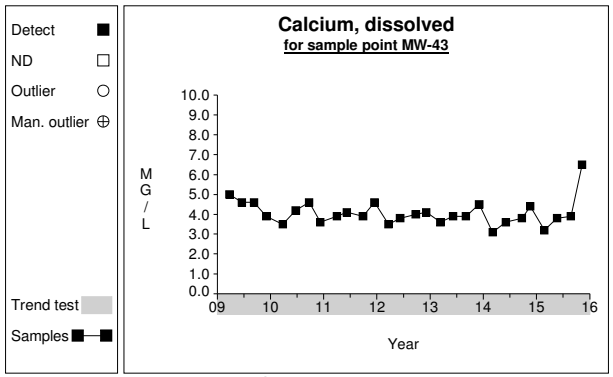


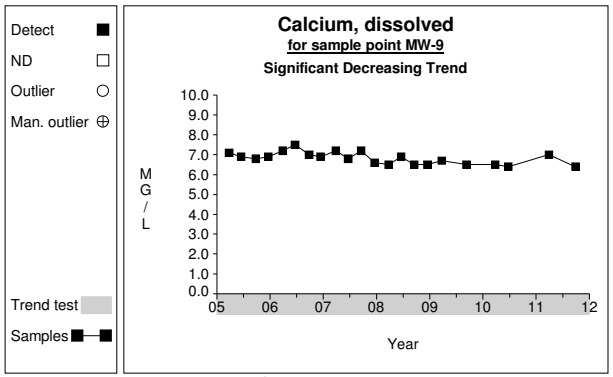
Graph 195



Graph 196

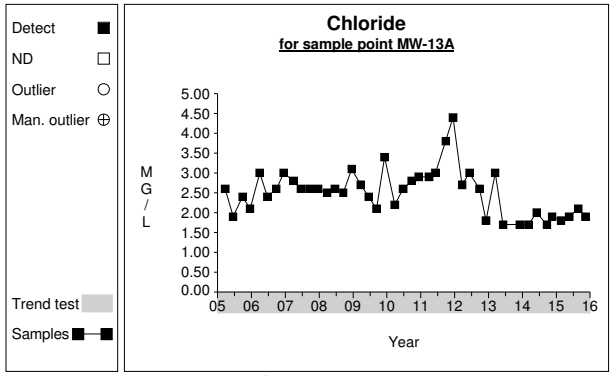


Graph 197

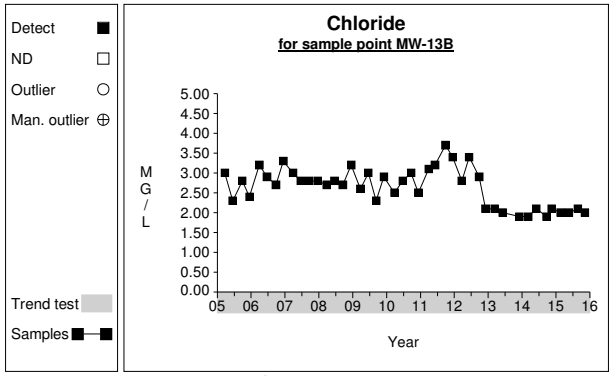


Graph 198

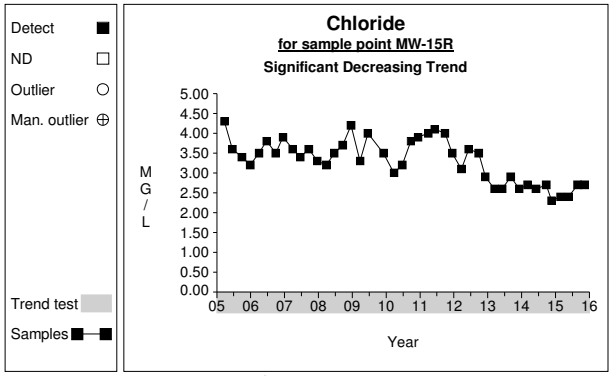
Time Series



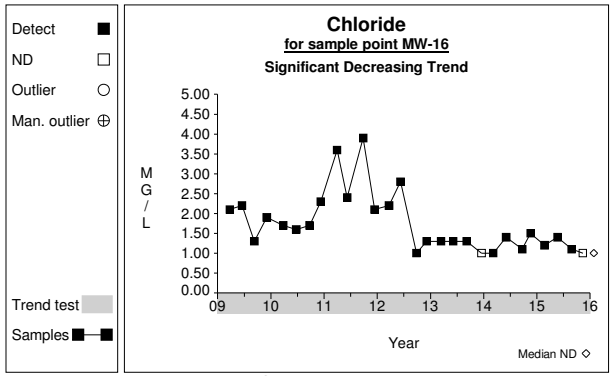
Graph 199



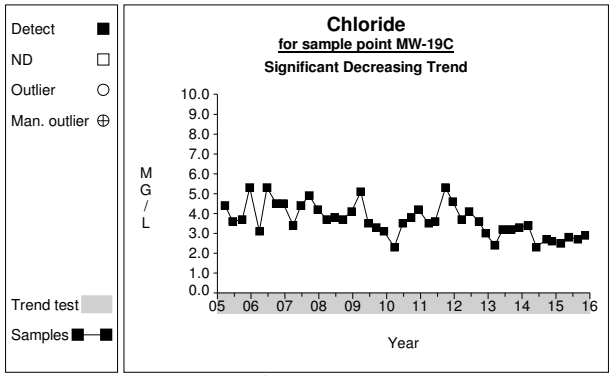
Graph 200



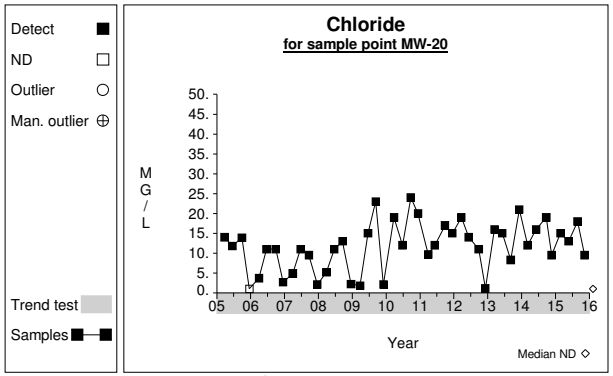
Graph 201



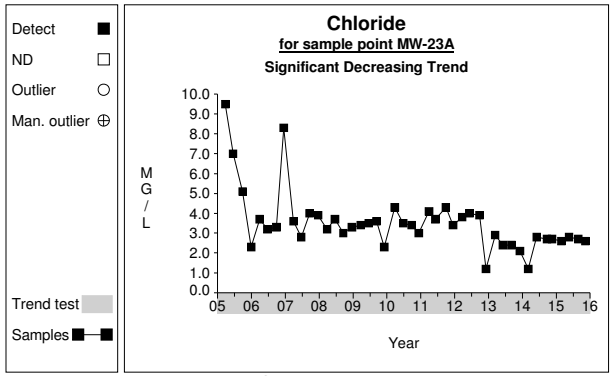
Graph 202



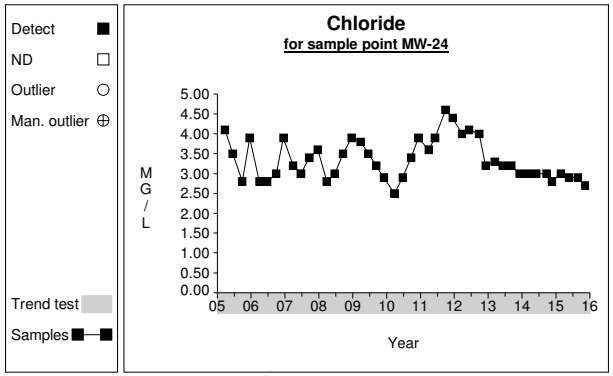
Graph 203



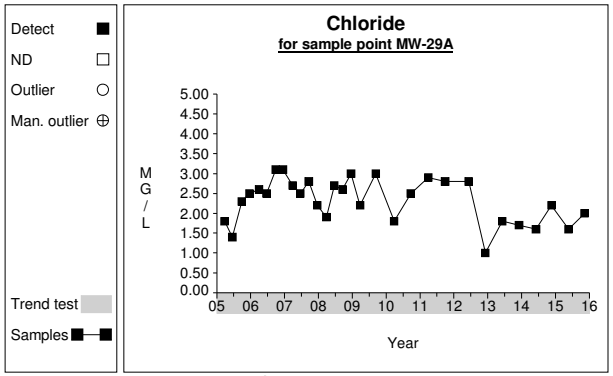
Graph 204



Graph 205

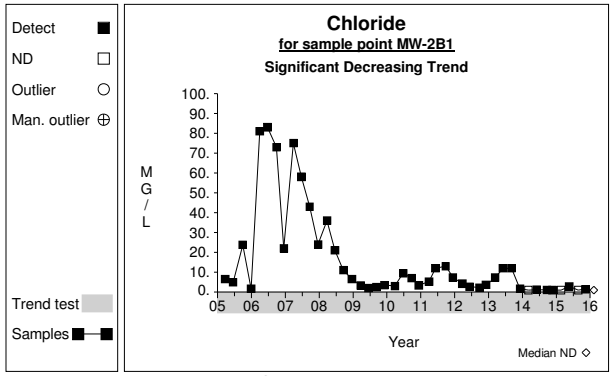


Graph 206

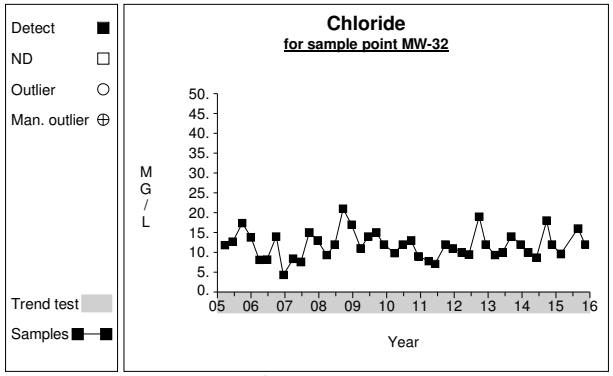


Graph 207

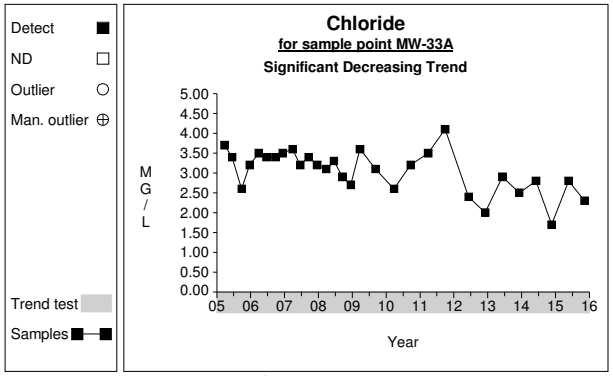
Time Series



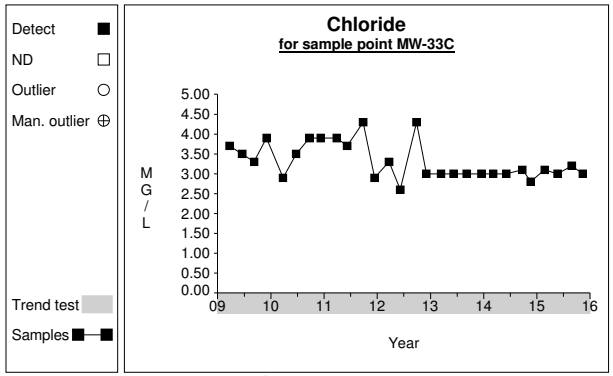
Graph 208



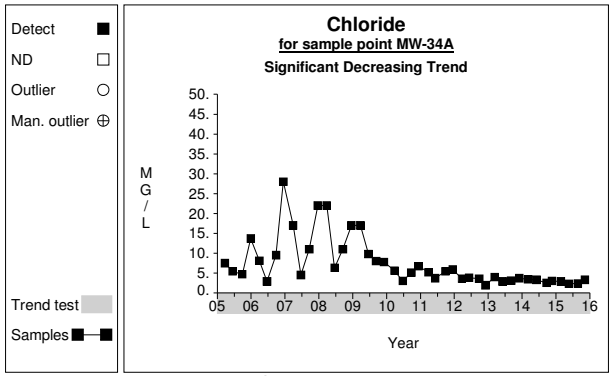
Graph 209



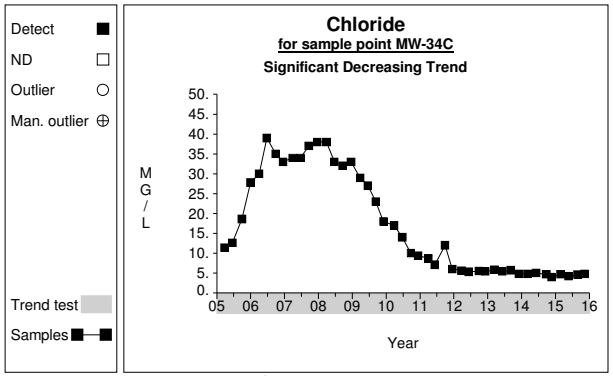
Graph 210



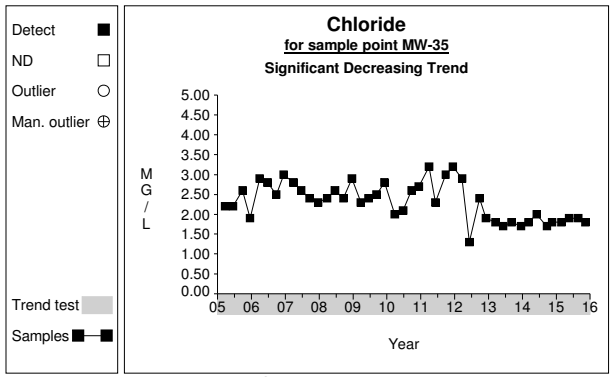
Graph 211



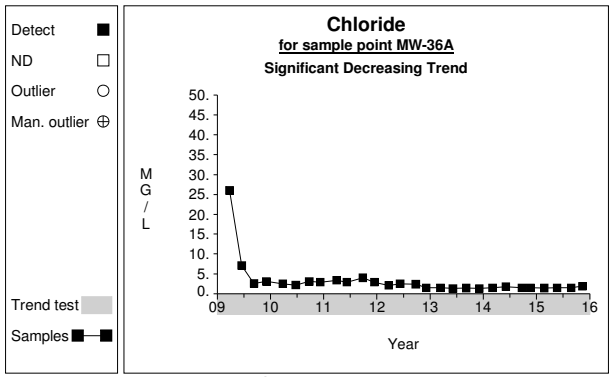
Graph 212



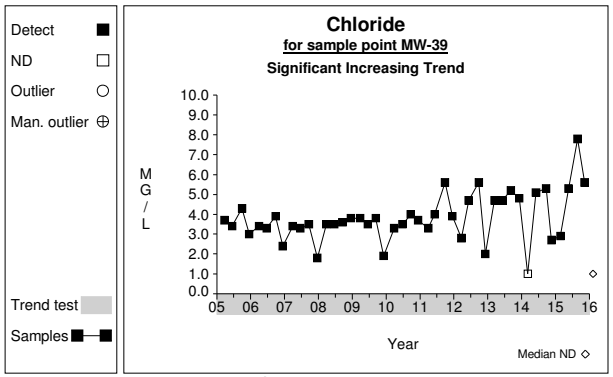
Graph 213



Graph 214

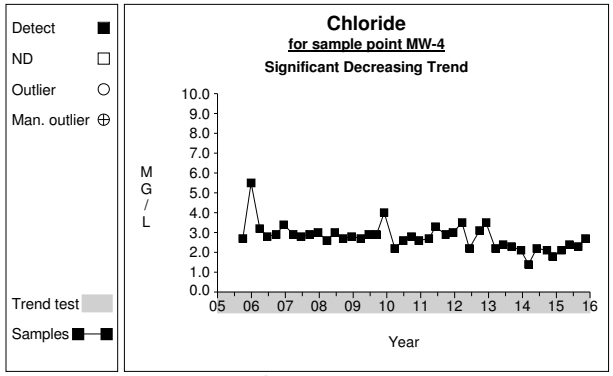


Graph 215

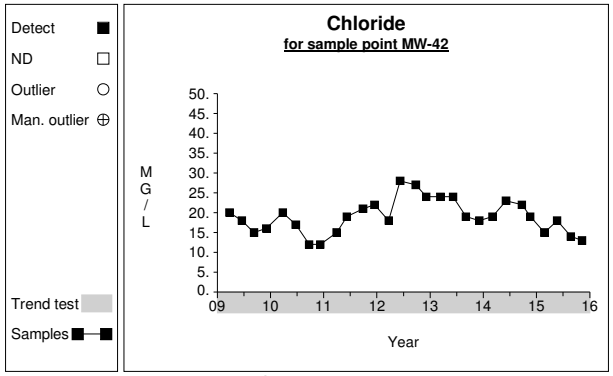


Graph 216

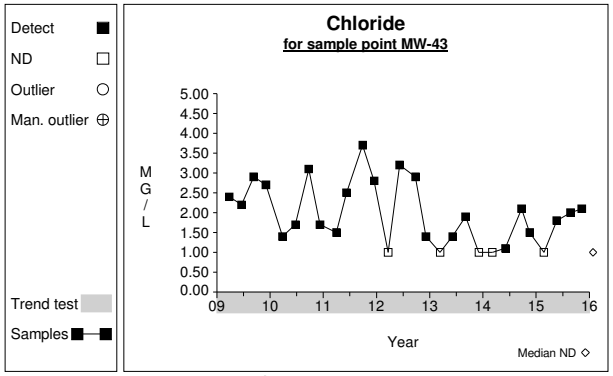
Time Series



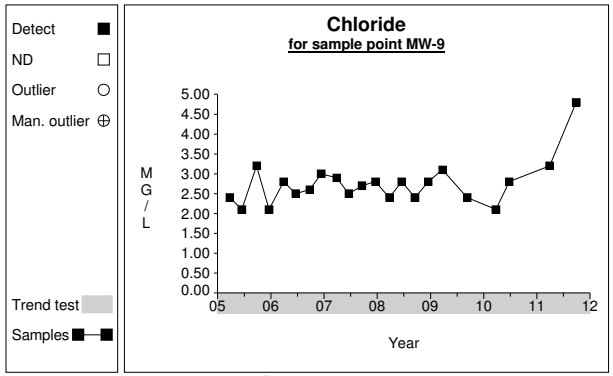
Graph 217



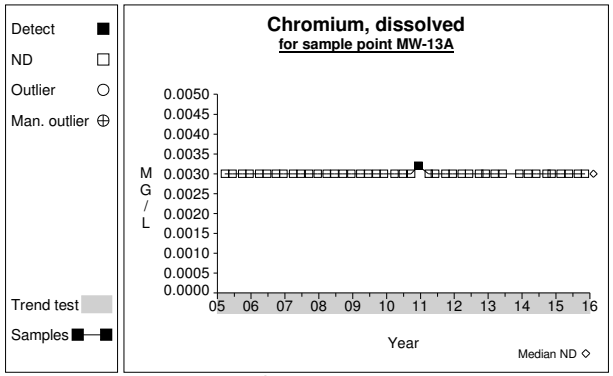
Graph 218



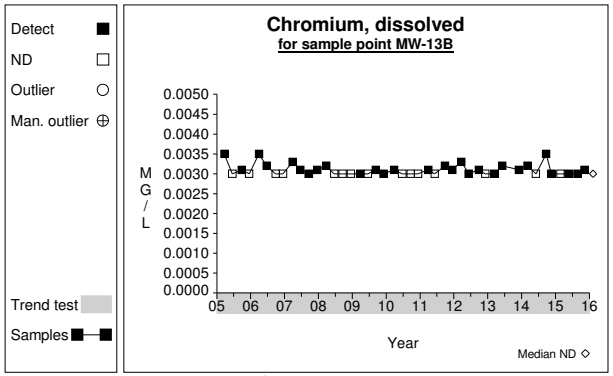
Graph 219



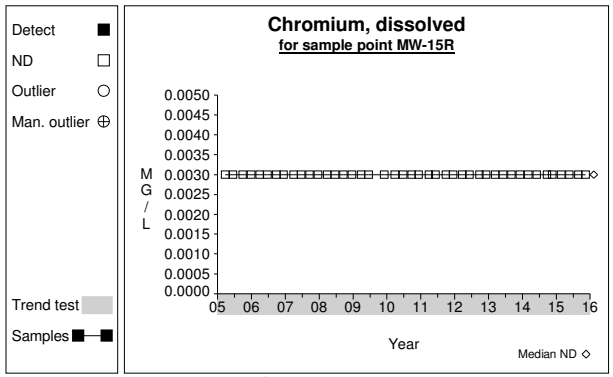
Graph 220



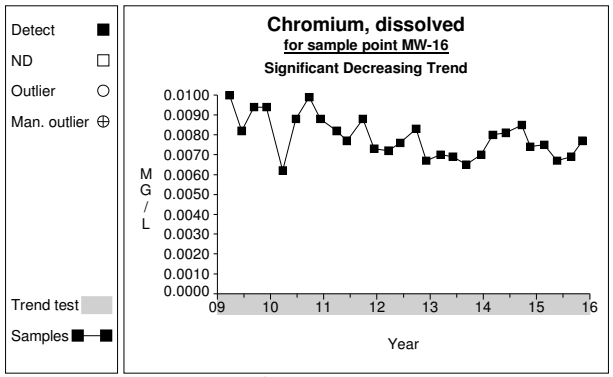
Graph 221



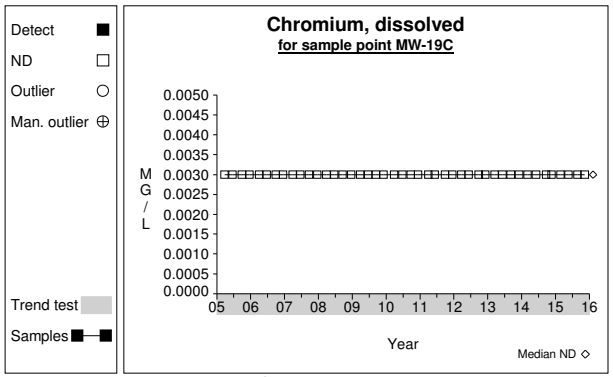
Graph 222



Graph 223

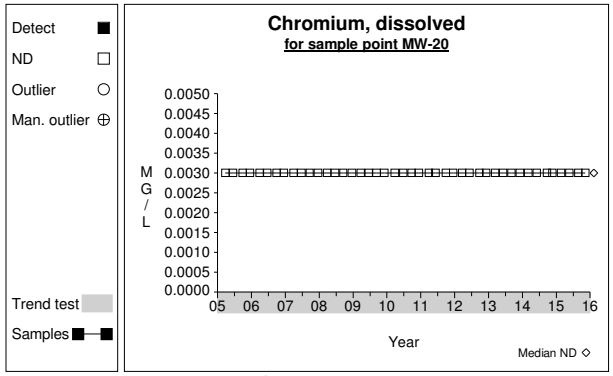


Graph 224

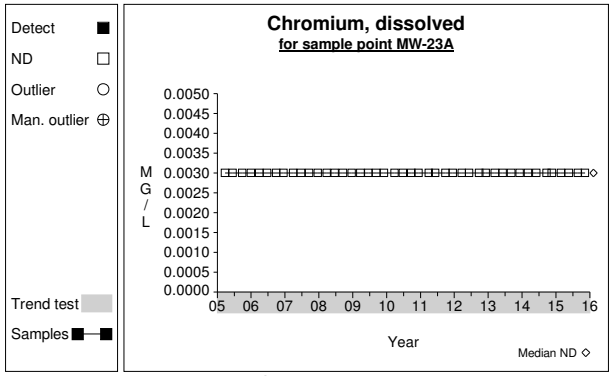


Graph 225

Time Series



Graph 226



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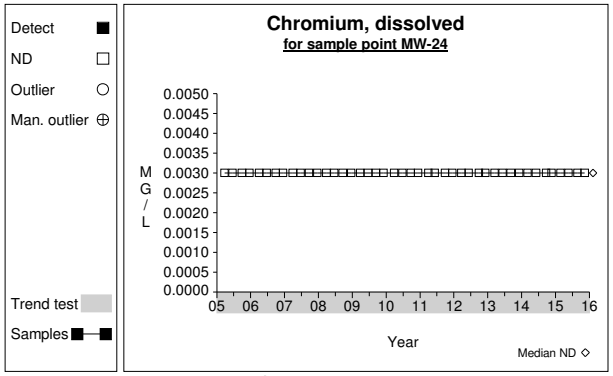
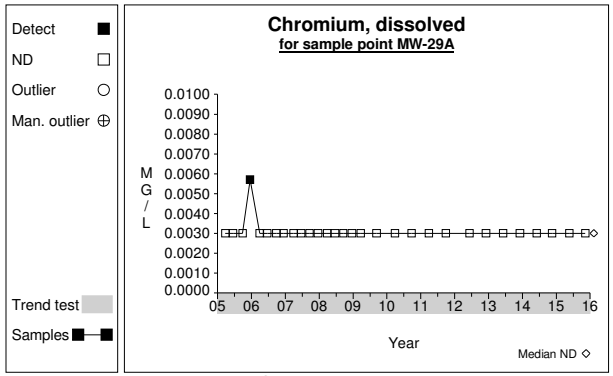


Graph 228



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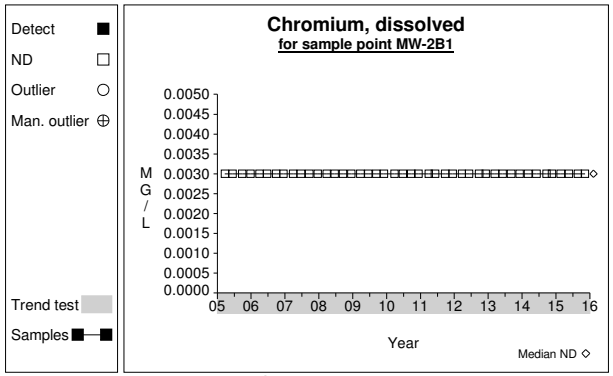
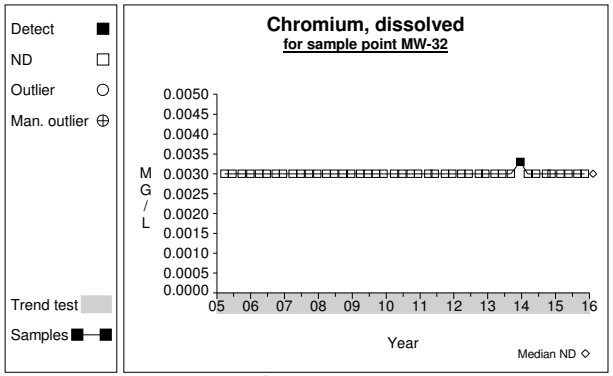
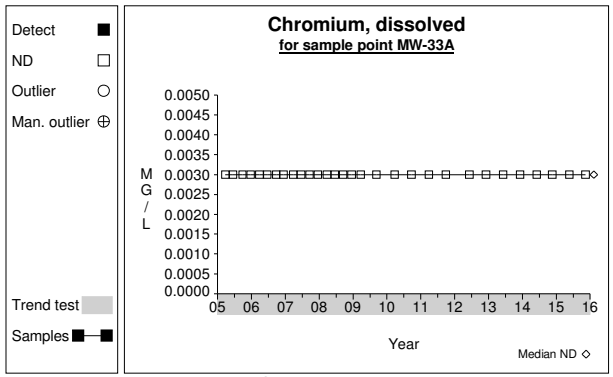


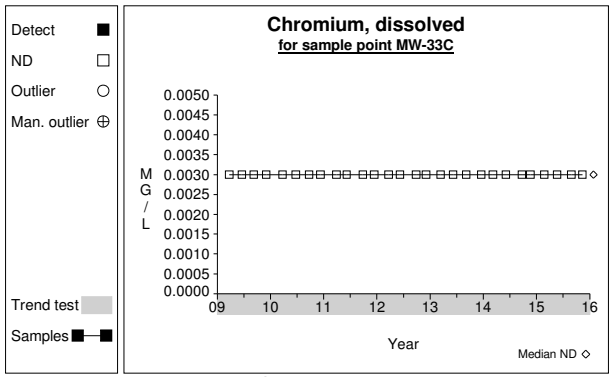
Graph 230



Graph 231



Graph 232



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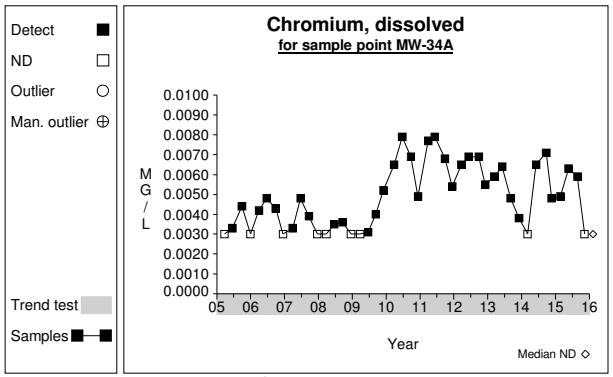
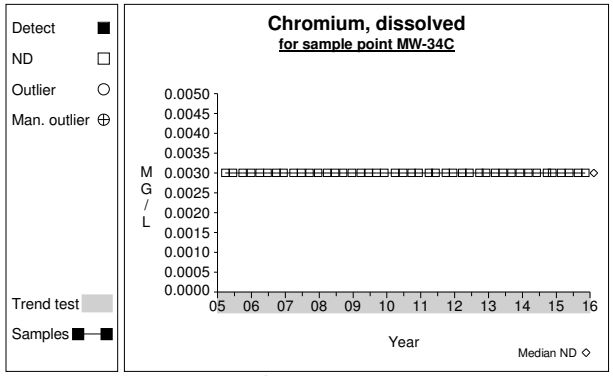
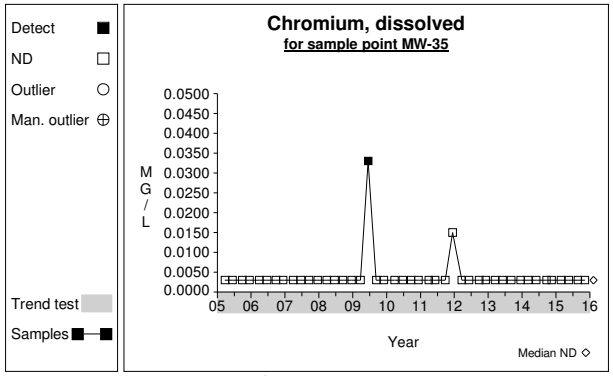


Graph 234

Time Series



Graph 235



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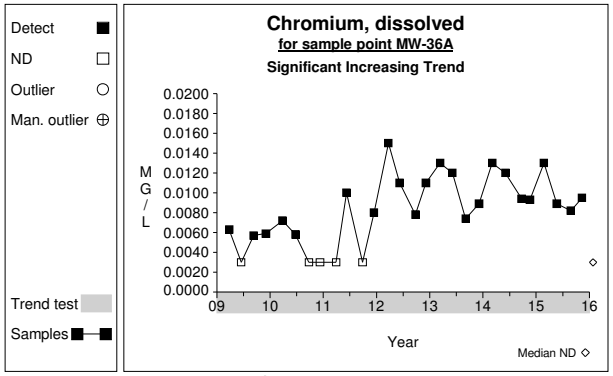
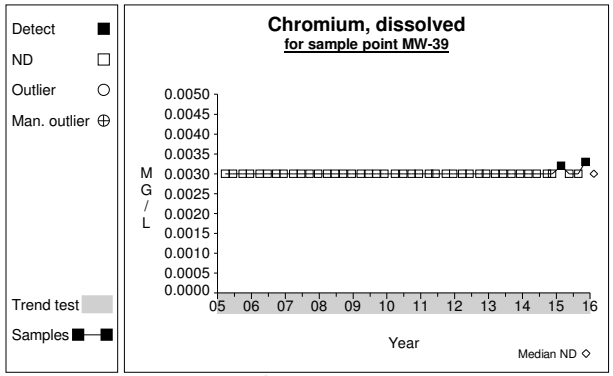
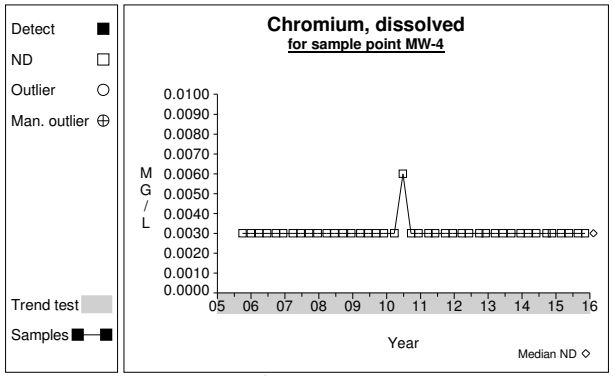


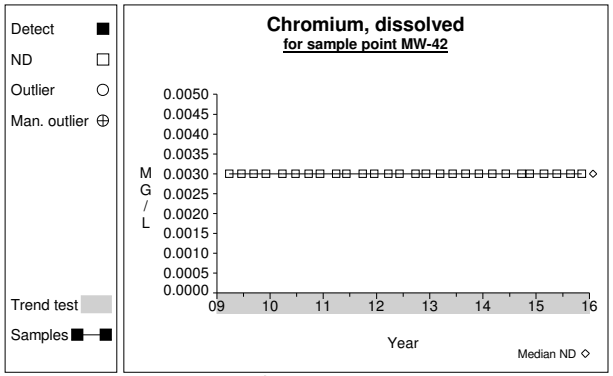
Graph 237



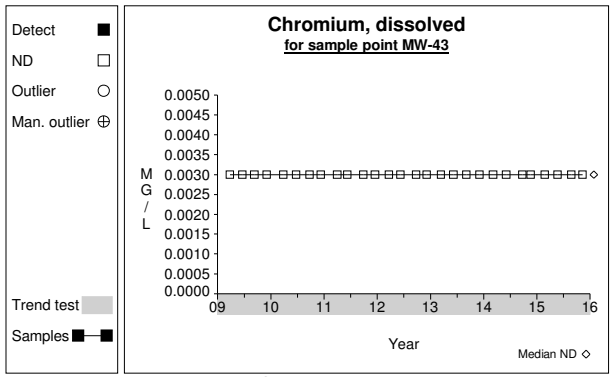
Graph 238



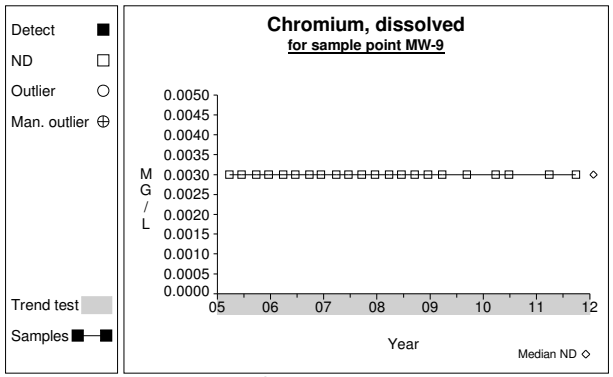
Graph 239



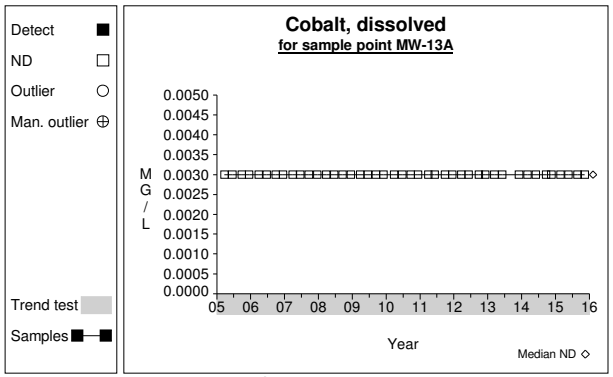
Graph 240



Graph 241

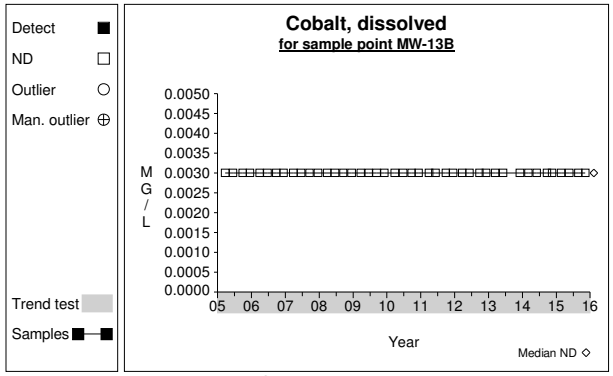


Graph 242

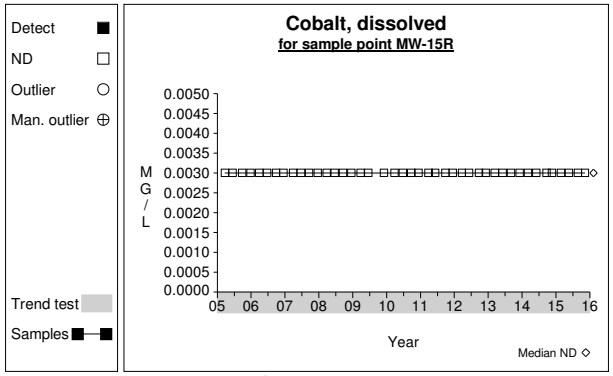


Graph 243

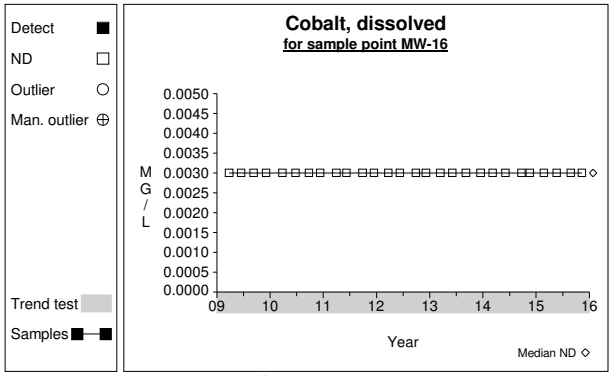
Time Series



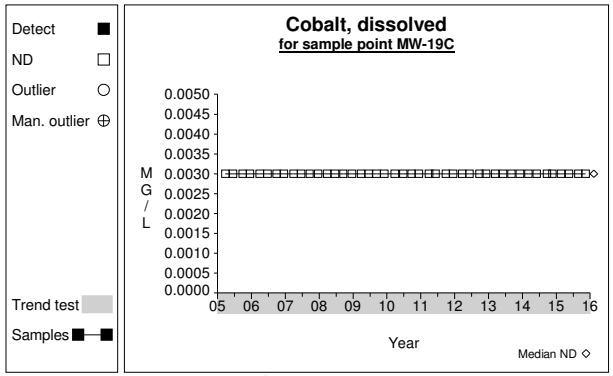
Graph 244



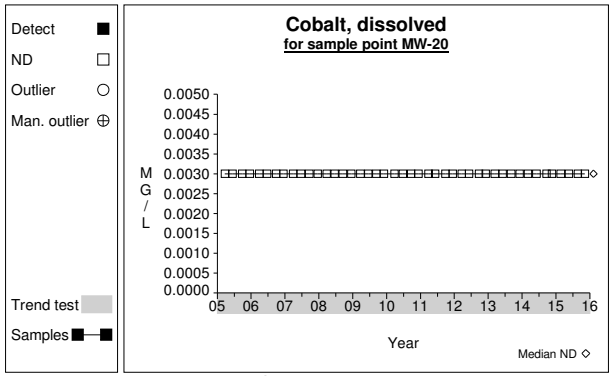
Graph 245



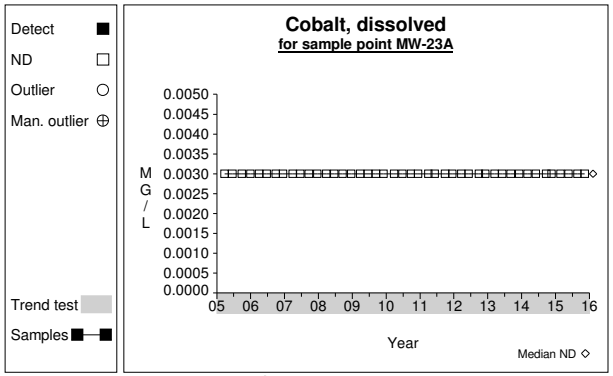
Graph 246



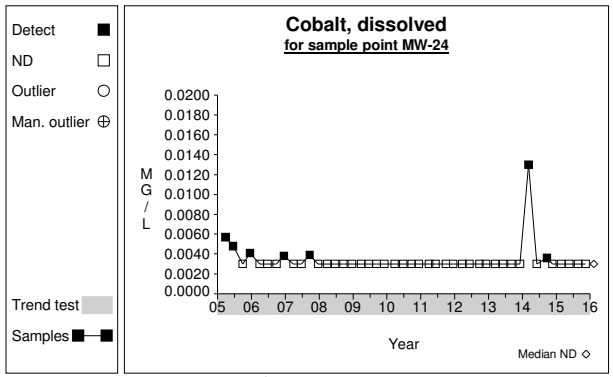
Graph 247



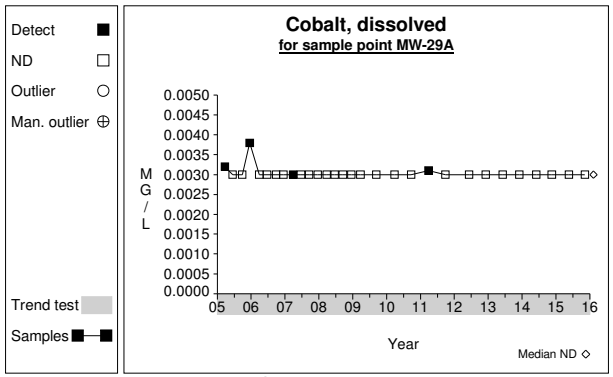
Graph 248



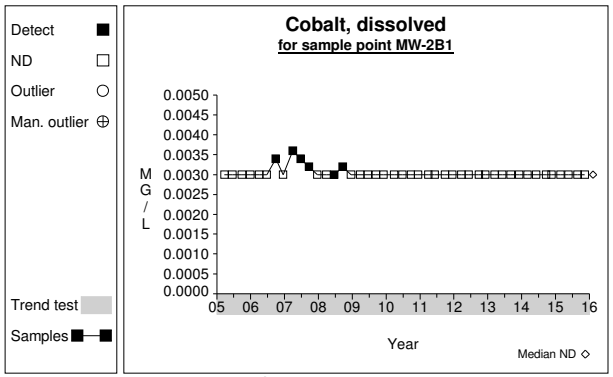
Graph 249



Graph 250

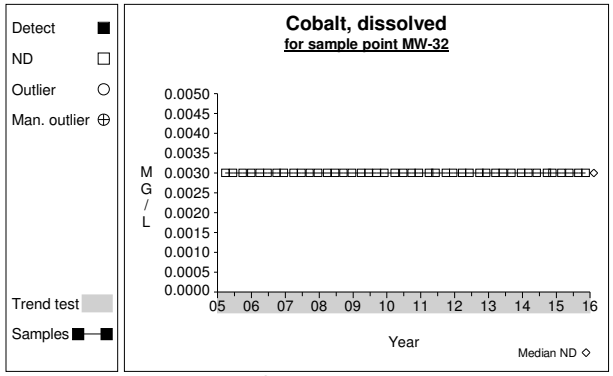


Graph 251

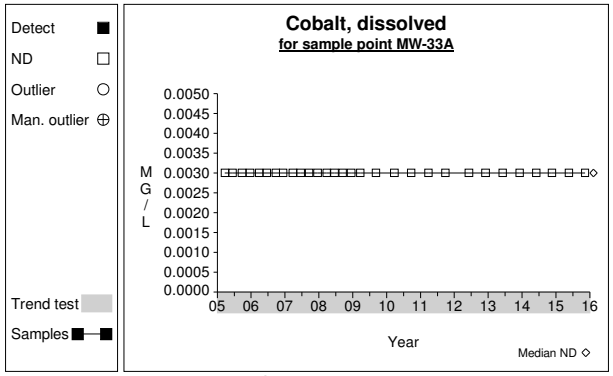


Graph 252

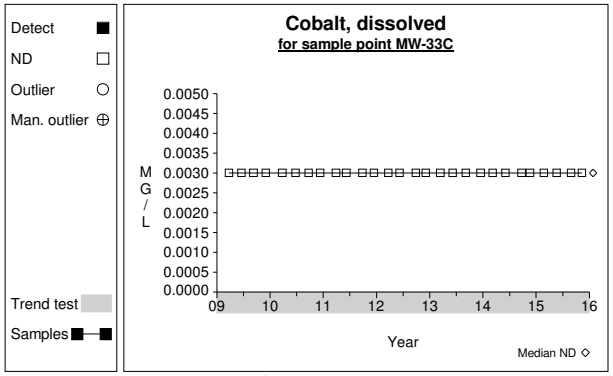
Time Series



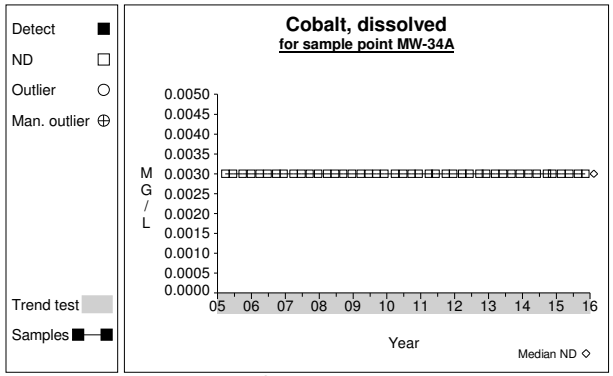
Graph 253



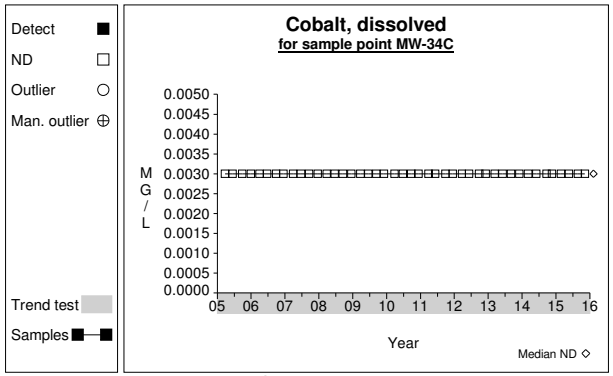
Graph 254



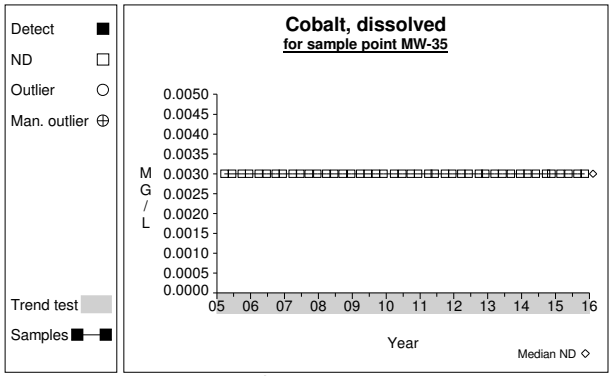
Graph 255



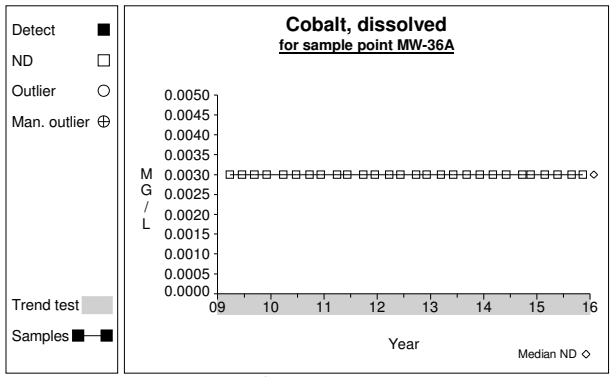
Graph 256



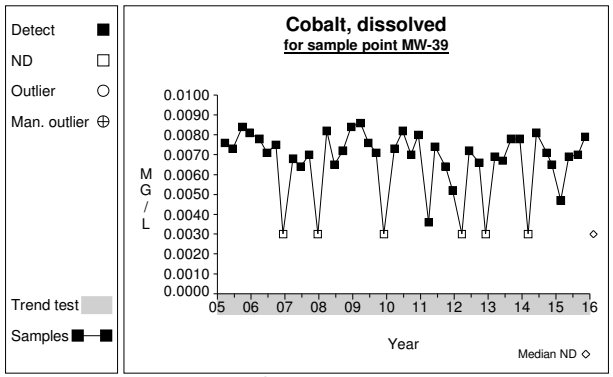
Graph 257



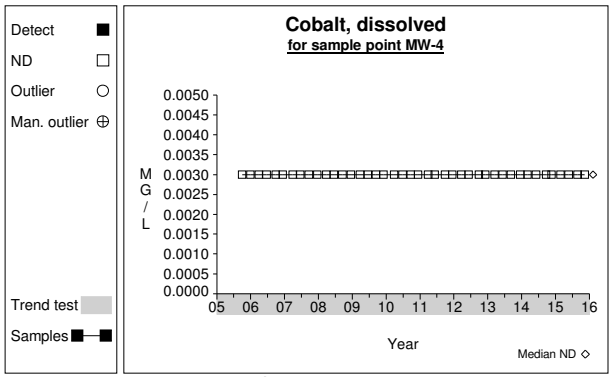
Graph 258



Graph 259

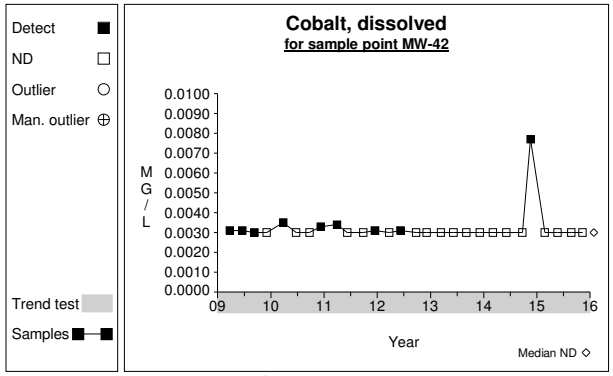


Graph 260

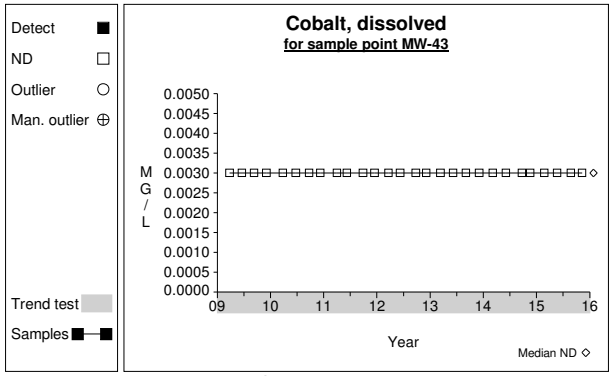


Graph 261

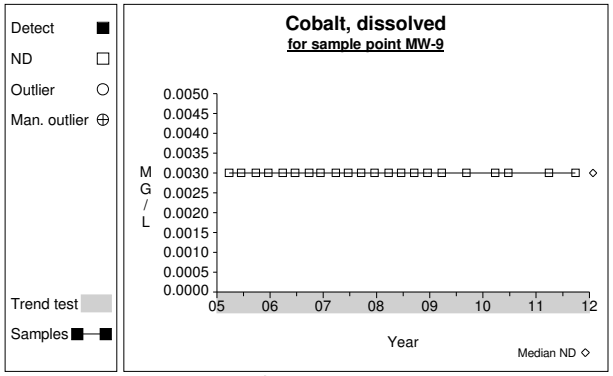
Time Series



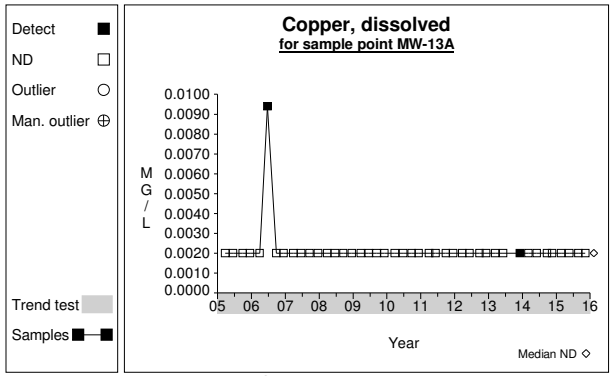
Graph 262



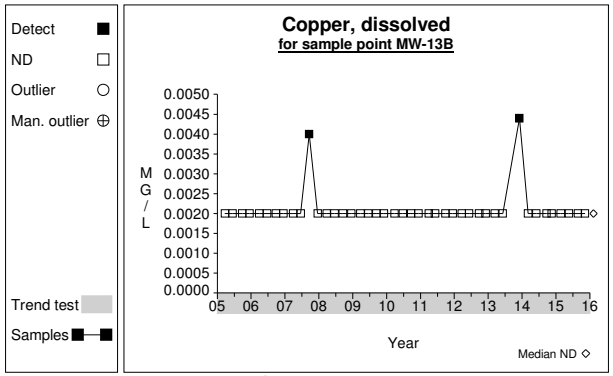
Graph 263



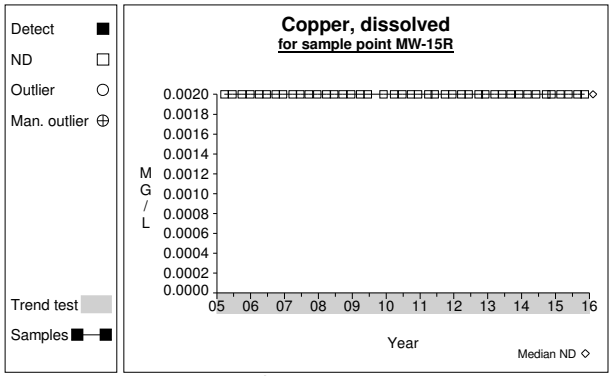
Graph 264



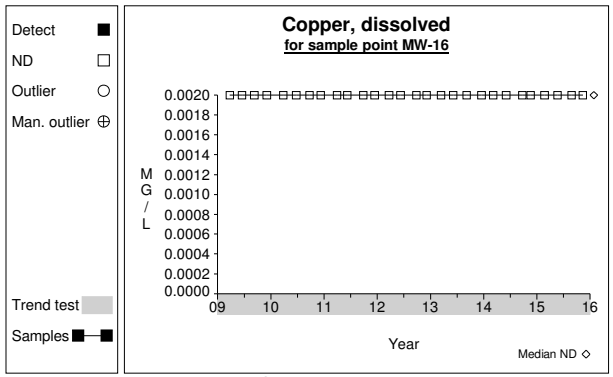
Graph 265



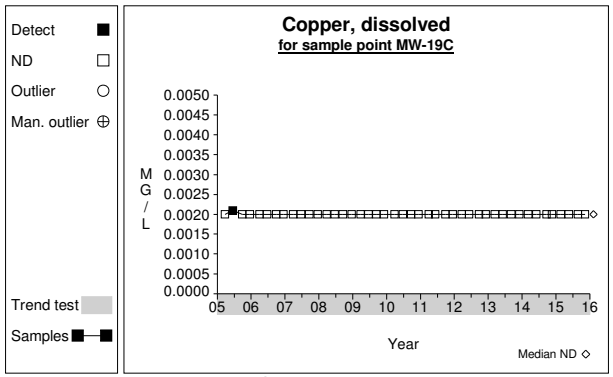
Graph 266



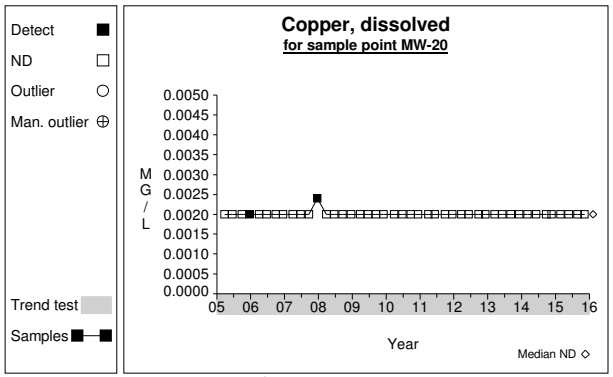
Graph 267



Graph 268

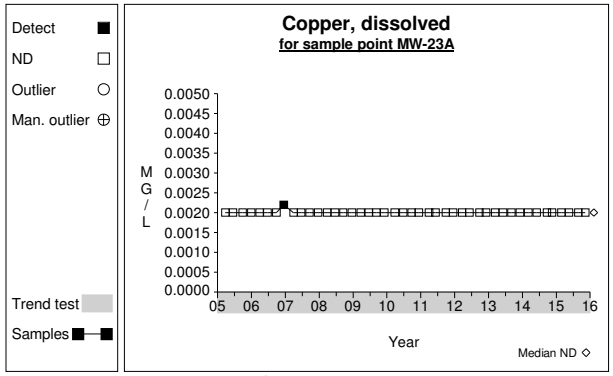


Graph 269

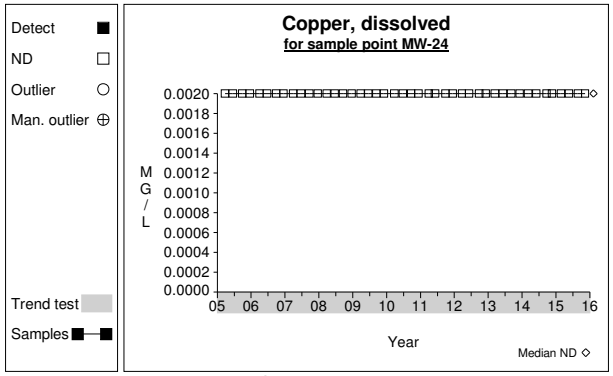


Graph 270

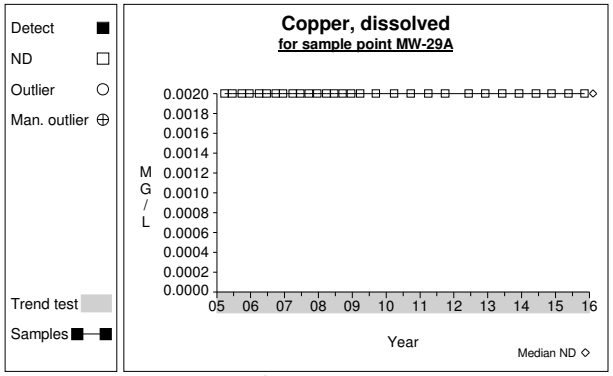
Time Series



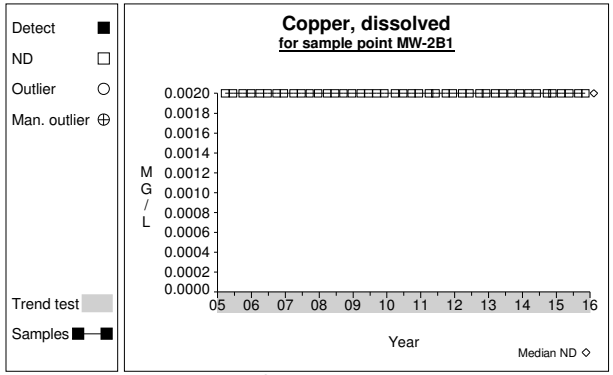
Graph 271



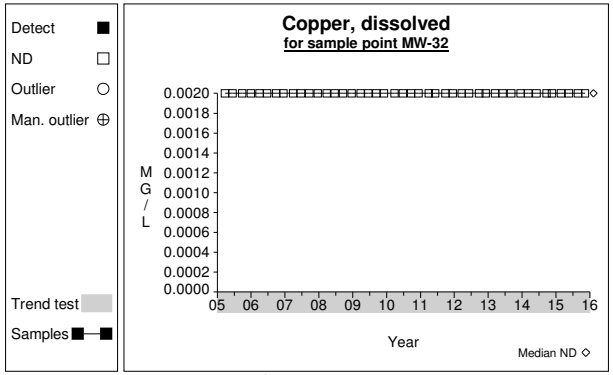
Graph 272



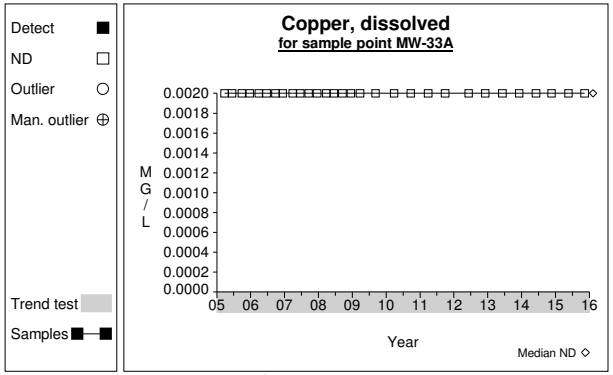
Graph 273



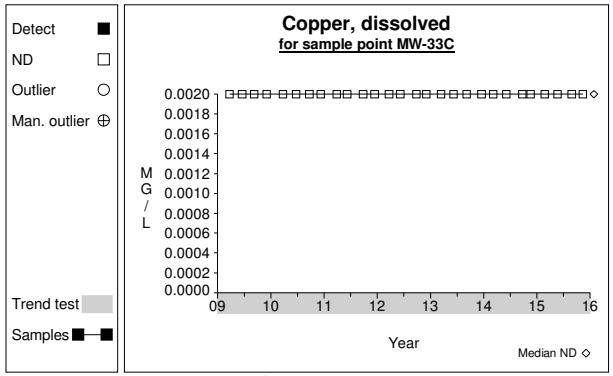
Graph 274



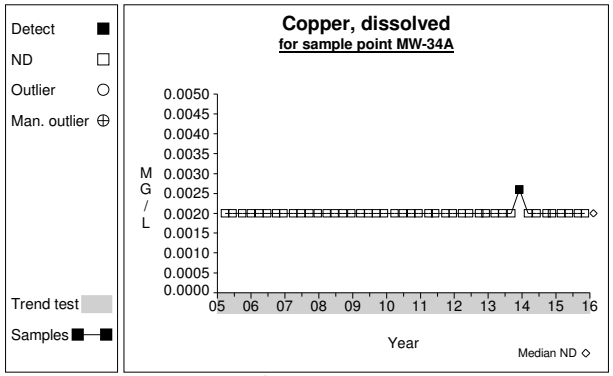
Graph 275



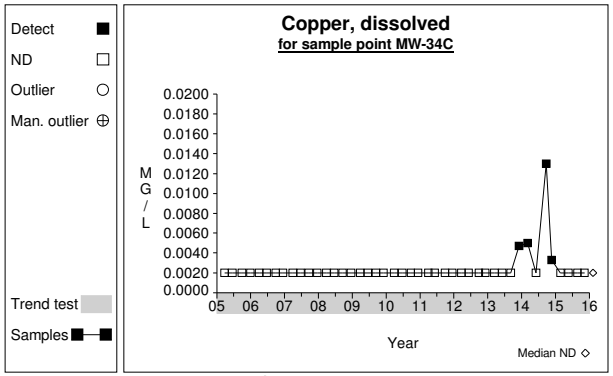
Graph 276



Graph 277

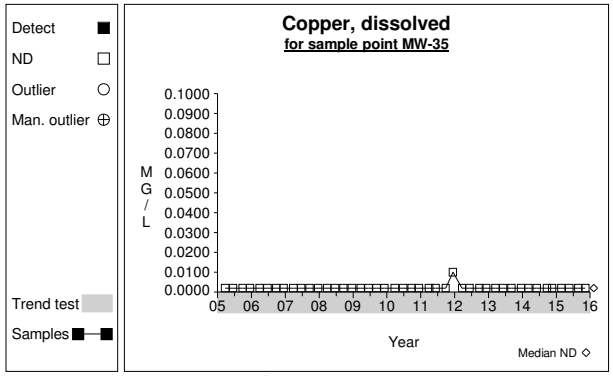


Graph 278

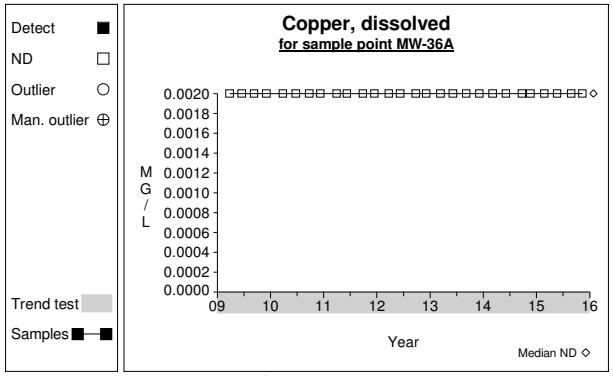


Graph 279

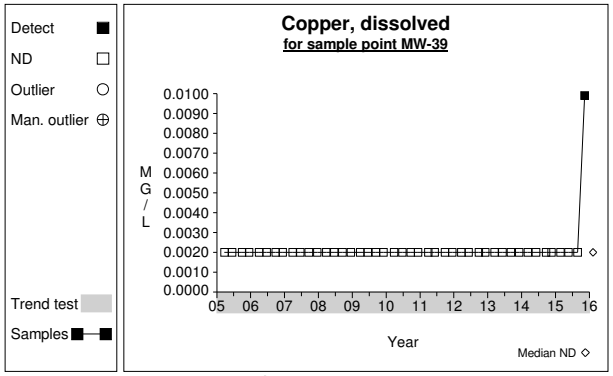
Time Series



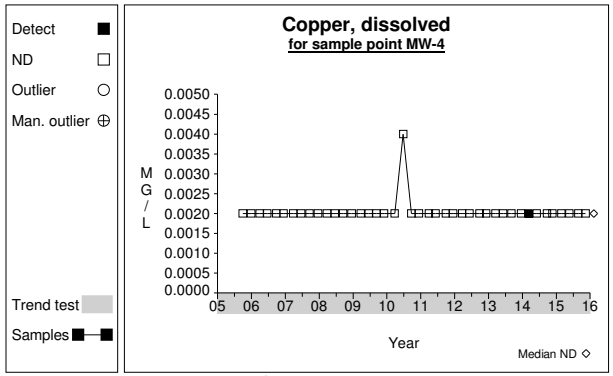
Graph 280



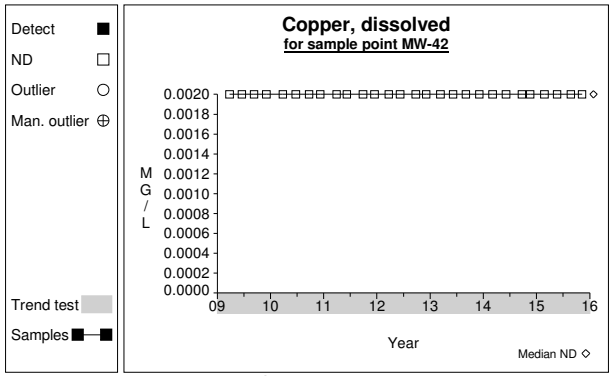
Graph 281



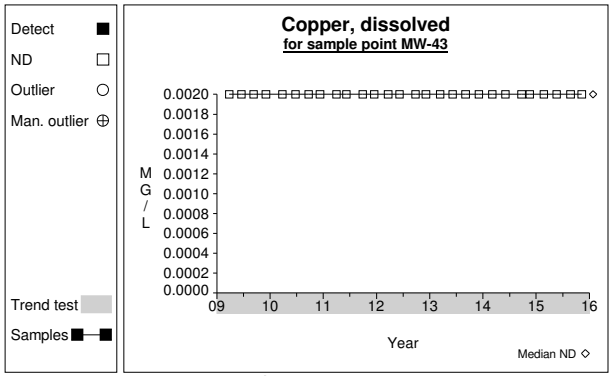
Graph 282



Graph 283



Graph 284



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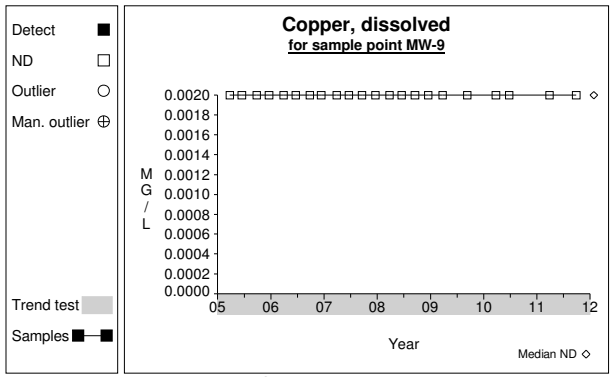
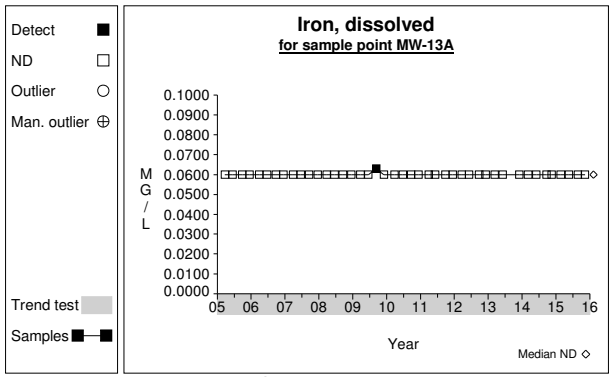


Graph 286



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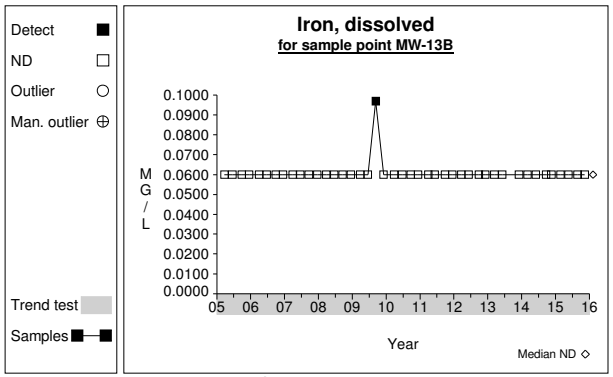
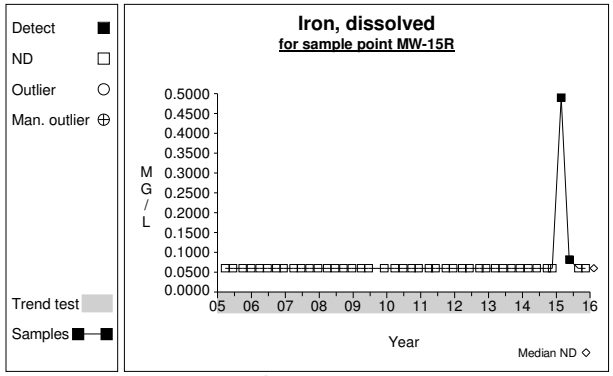
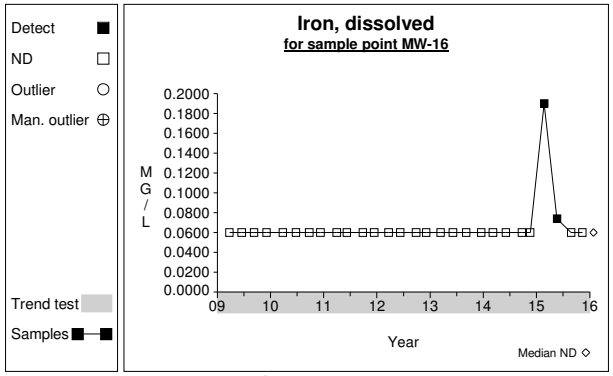


Graph 288

Time Series



Graph 289



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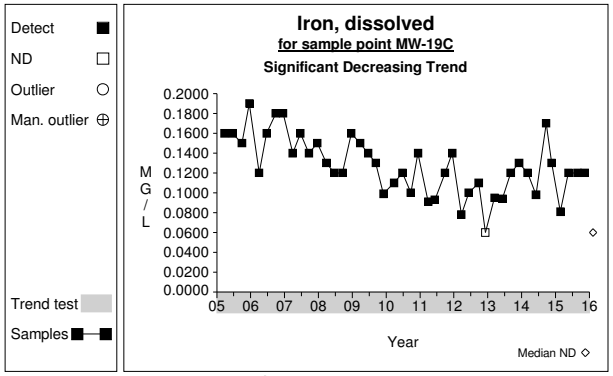

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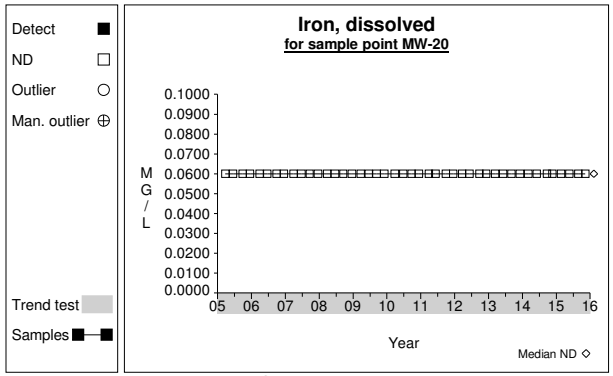
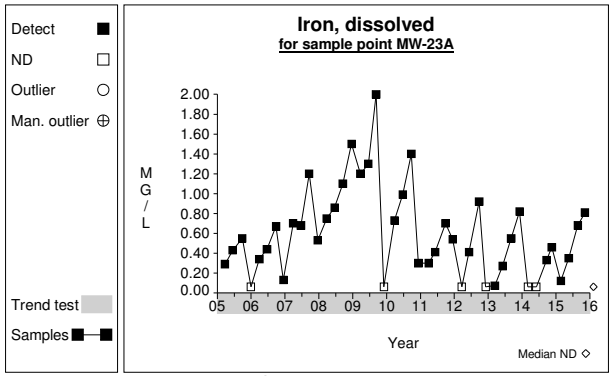
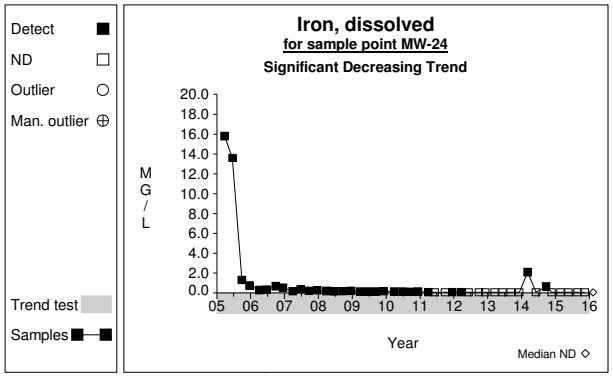


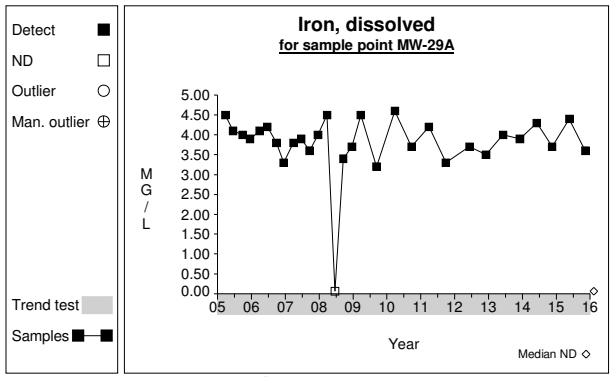
Graph 292



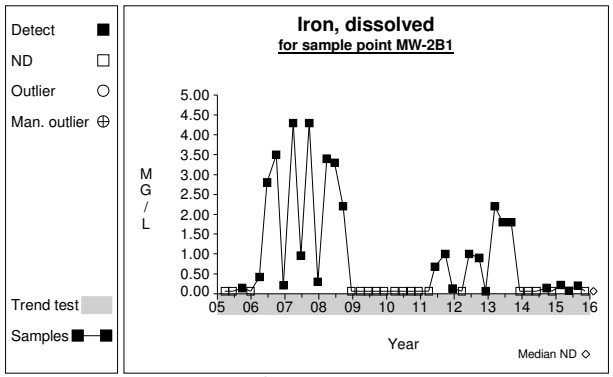
Graph 293



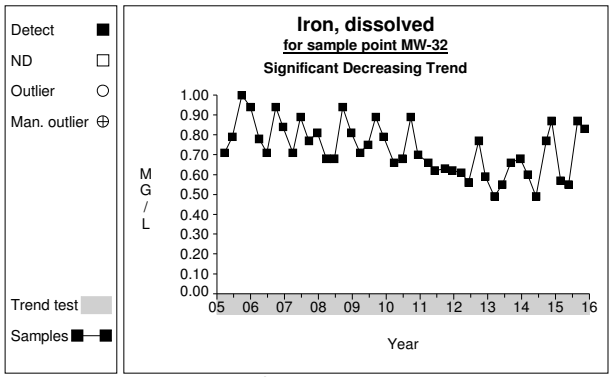
Graph 294



Graph 295

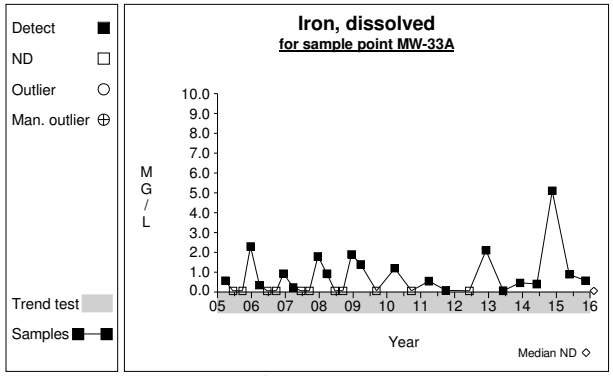


Graph 296

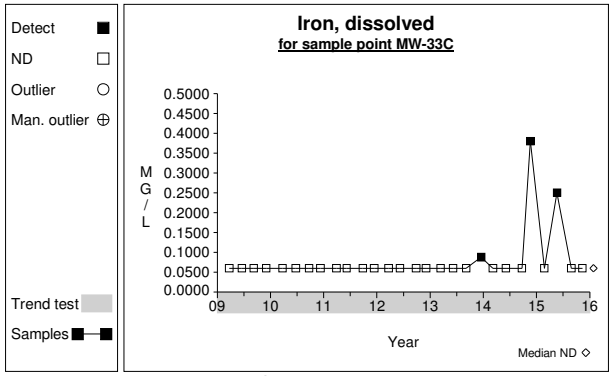


Graph 297

Time Series



Graph 298



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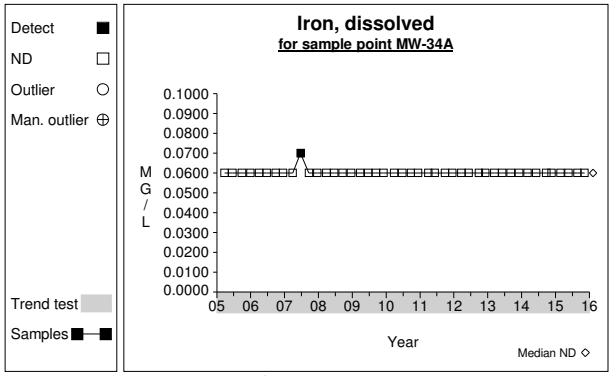
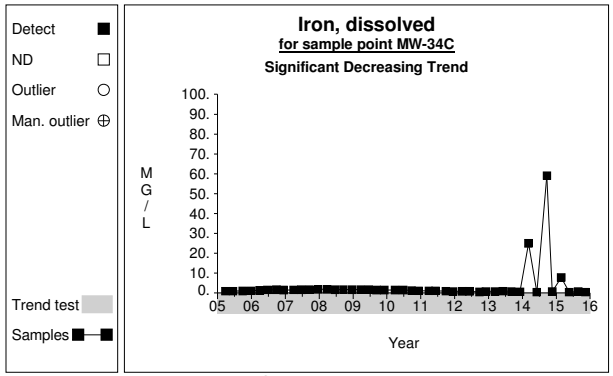
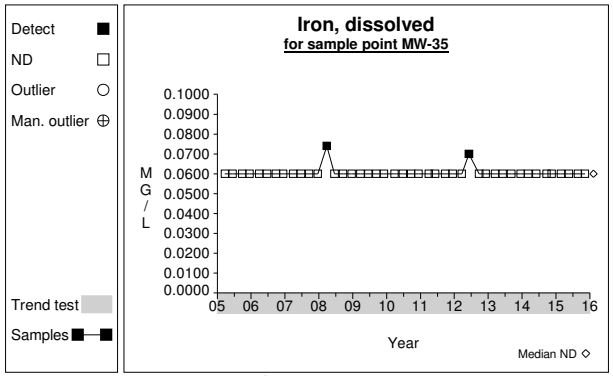


Graph 300



Graph 301



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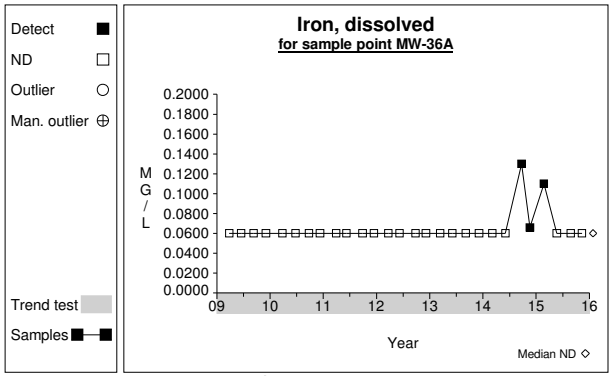

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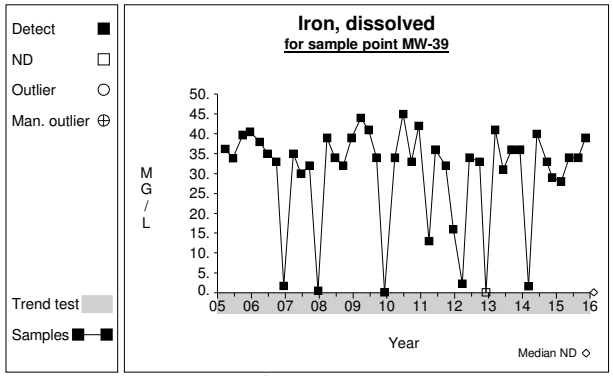
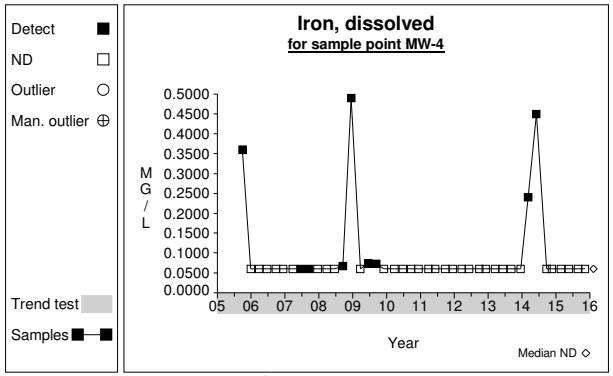
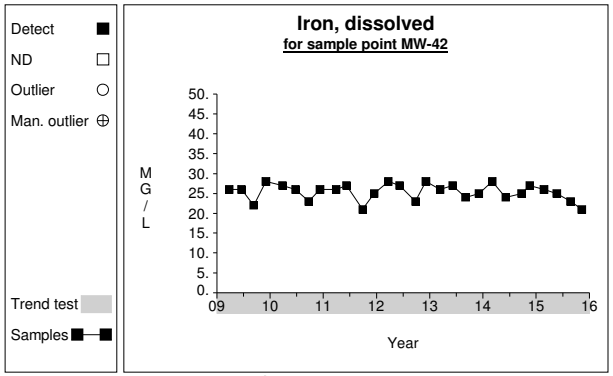


Graph 304

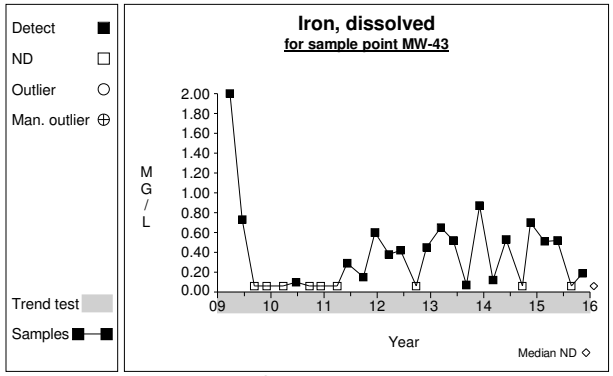


Graph 305

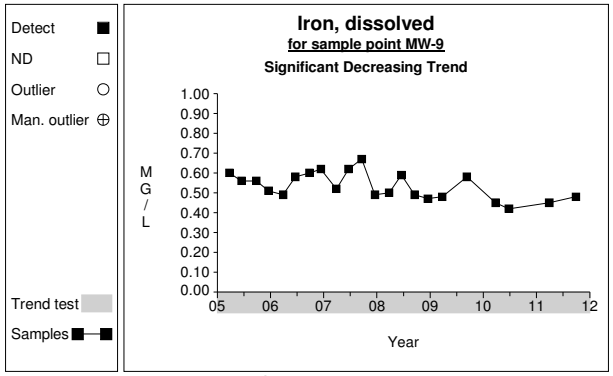


Graph 306

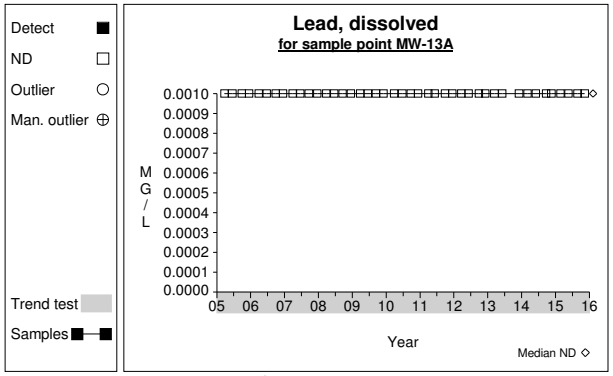
Time Series



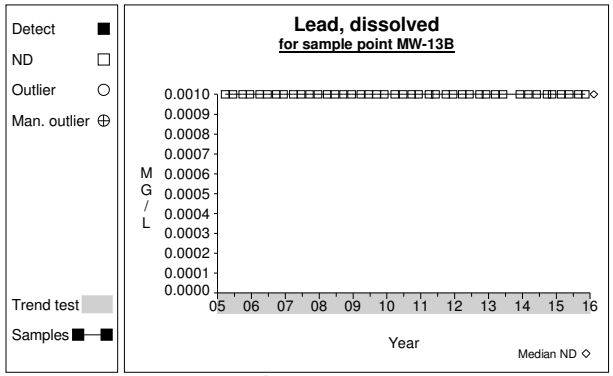
Graph 307



Graph 308



Graph 309



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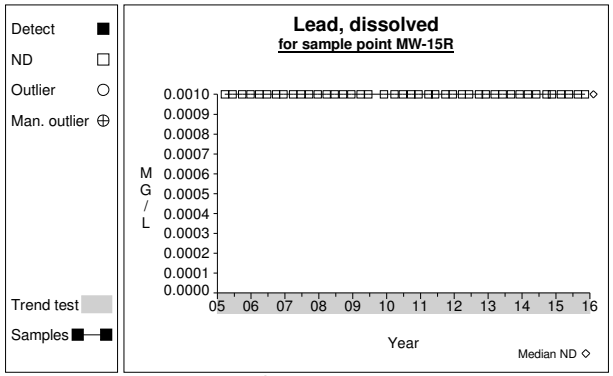

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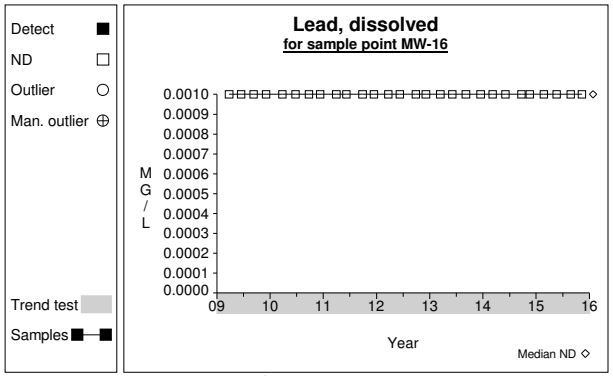
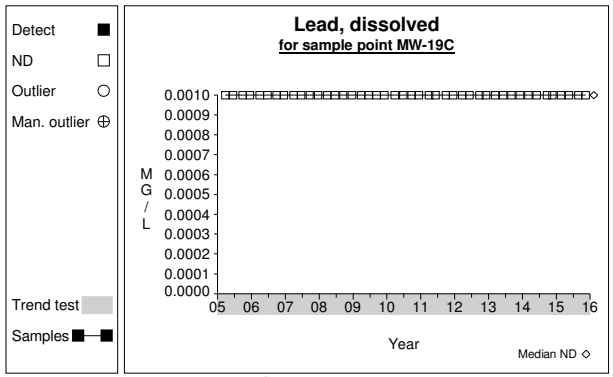
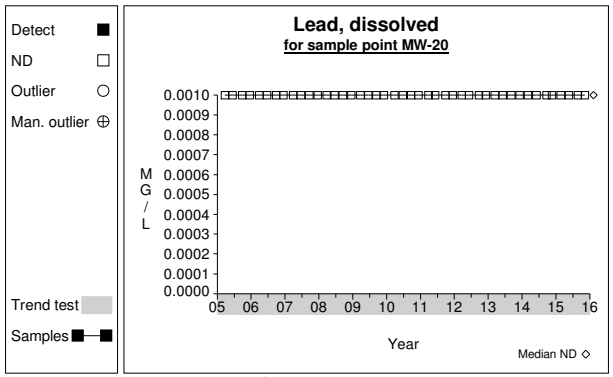


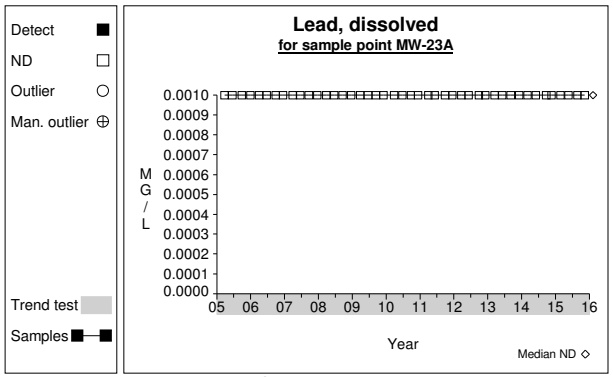
Graph 312



Graph 313

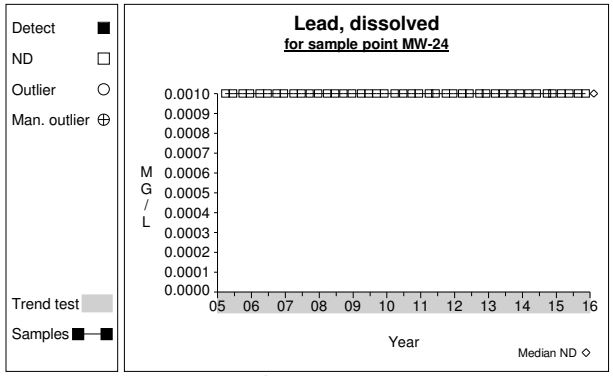


Graph 314

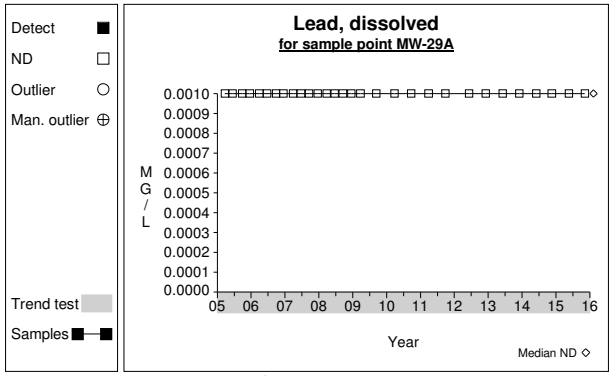


Graph 315

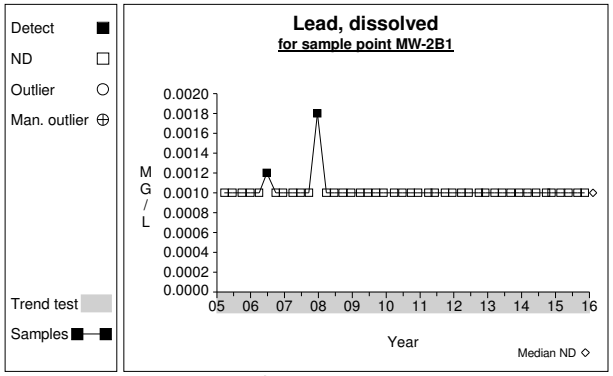
Time Series



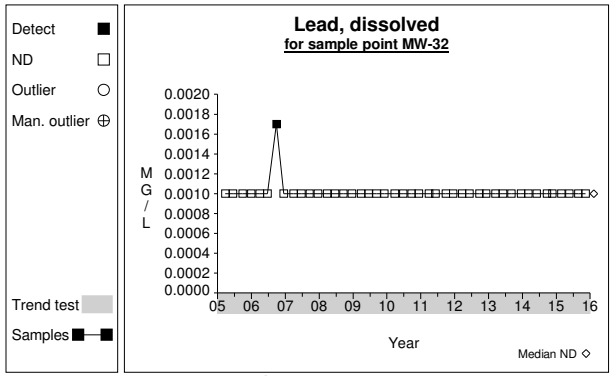
Graph 316



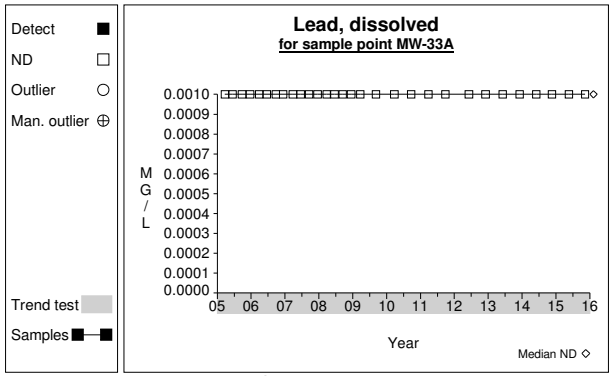
Graph 317



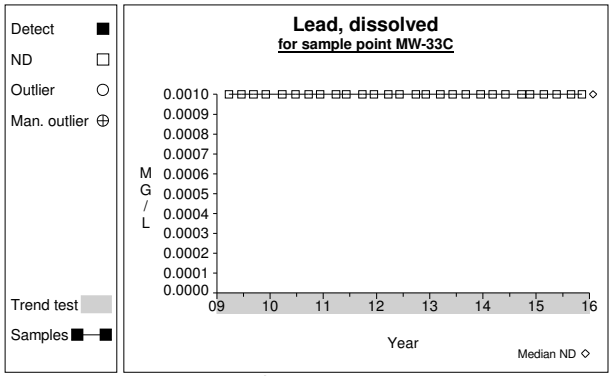
Graph 318



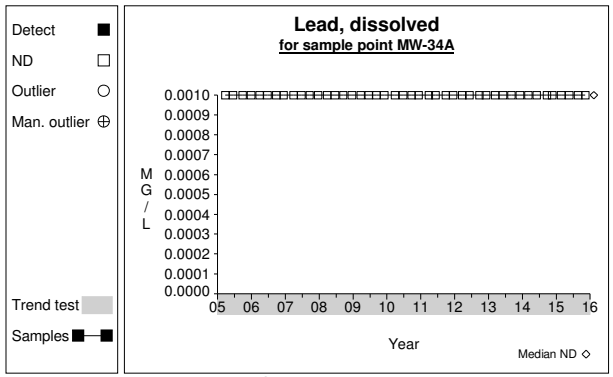
Graph 319



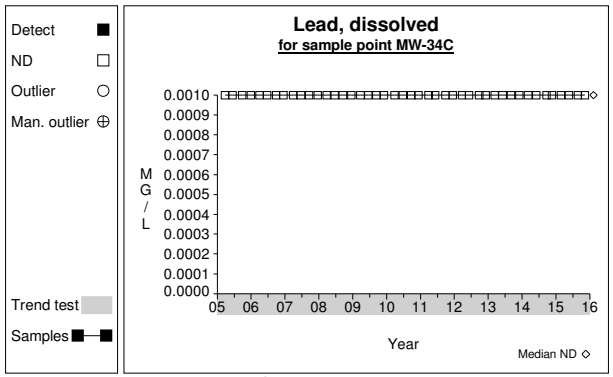
Graph 320



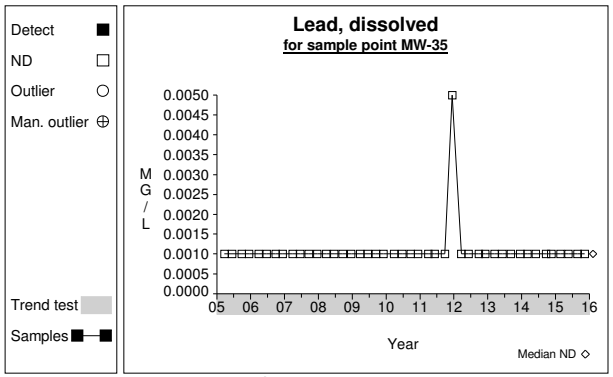
Graph 321



Graph 322

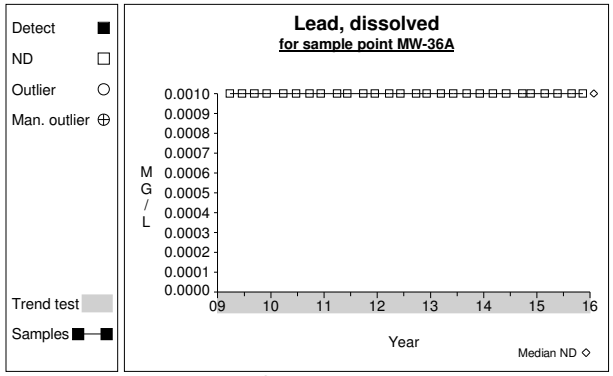


Graph 323

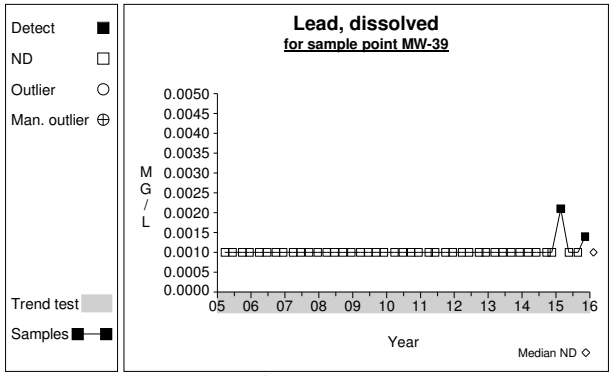


Graph 324

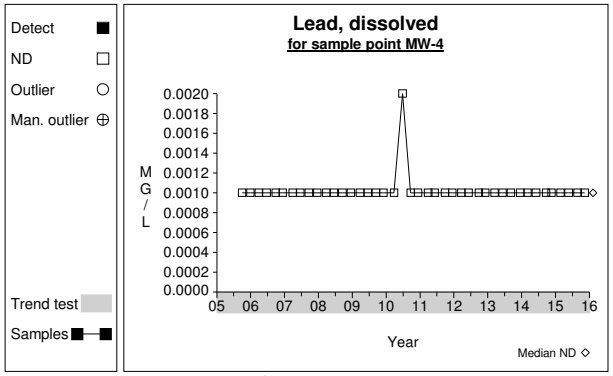
Time Series



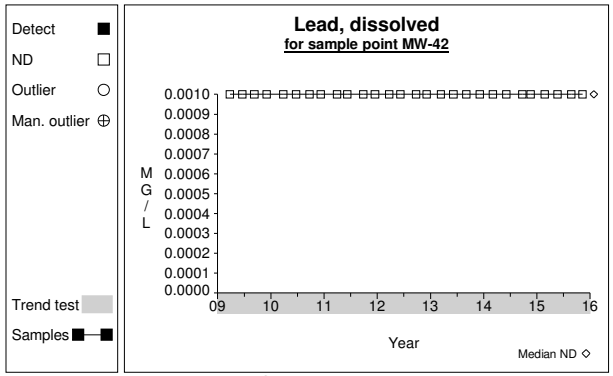
Graph 325



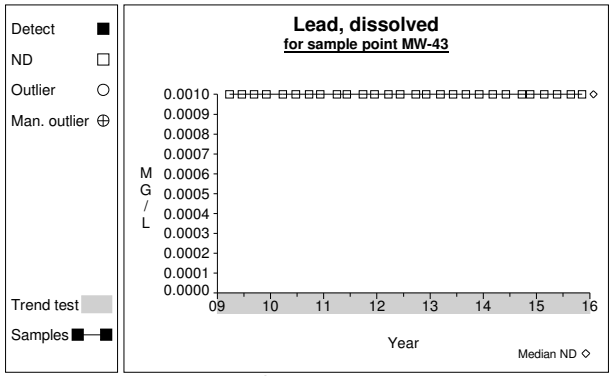
Graph 326



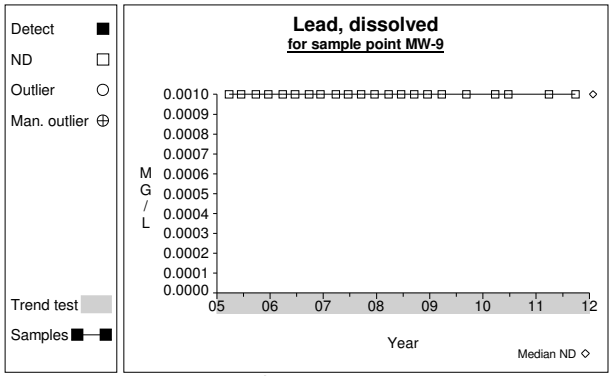
Graph 327



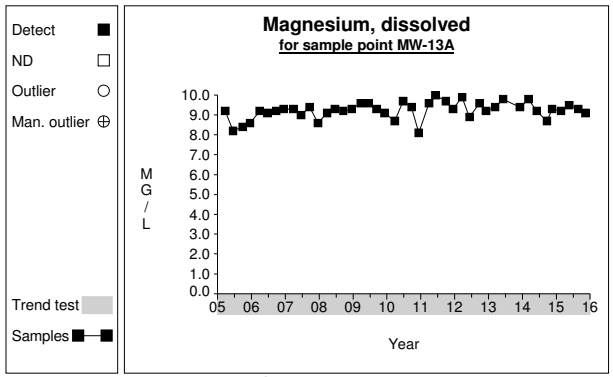
Graph 328



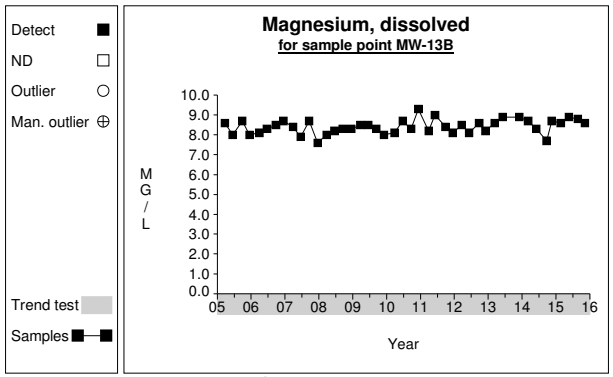
Graph 329



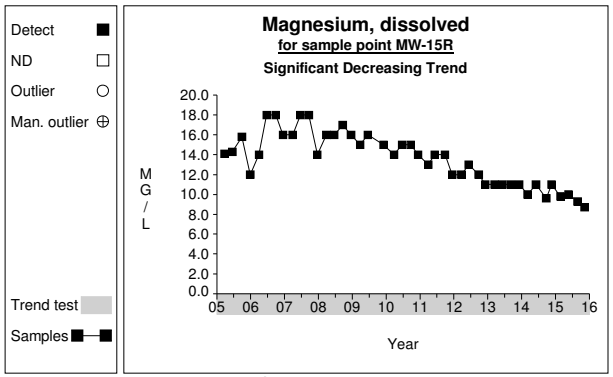
Graph 330



Graph 331

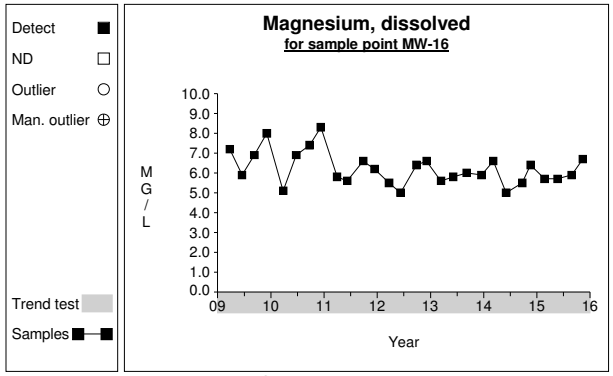


Graph 332

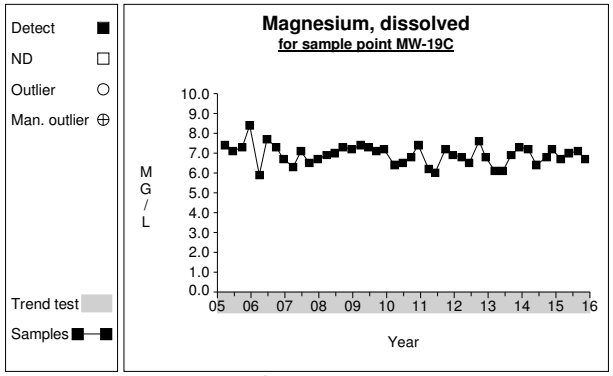


Graph 333

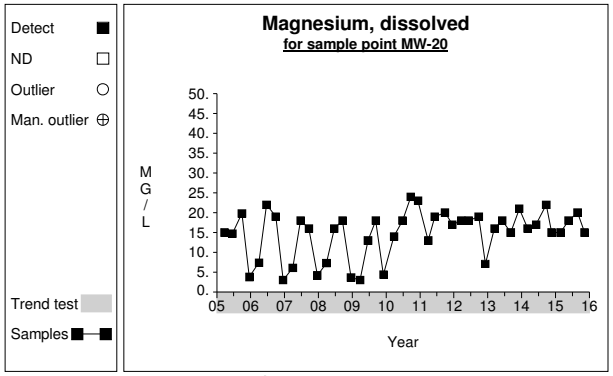
Time Series



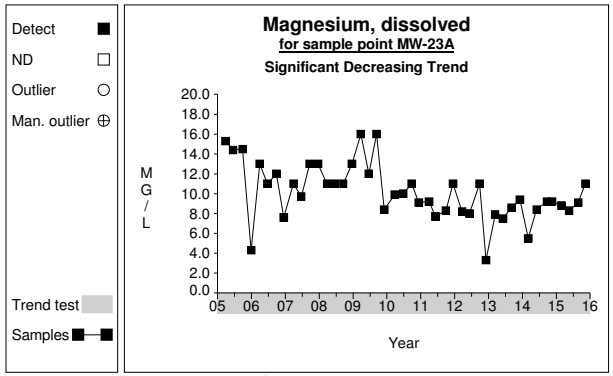
Graph 334



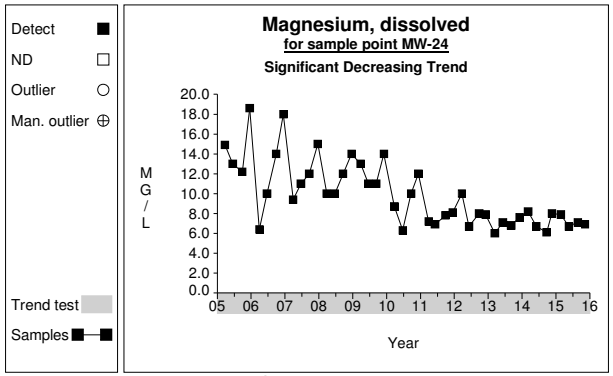
Graph 335



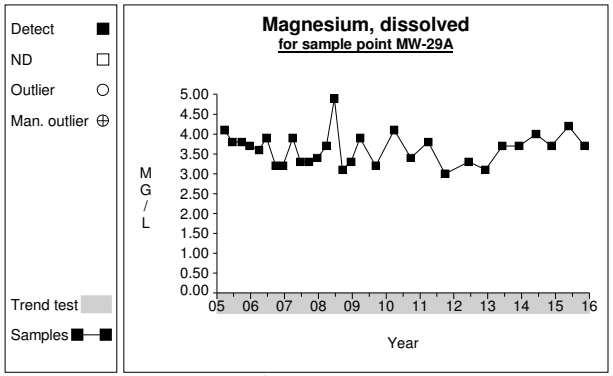
Graph 336



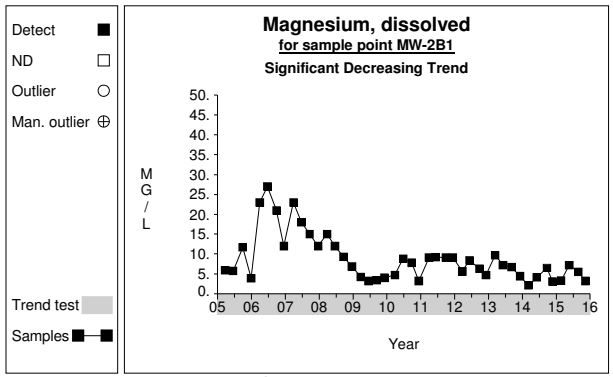
Graph 337



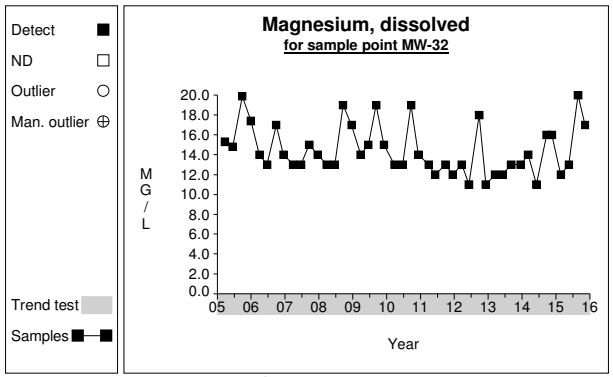
Graph 338



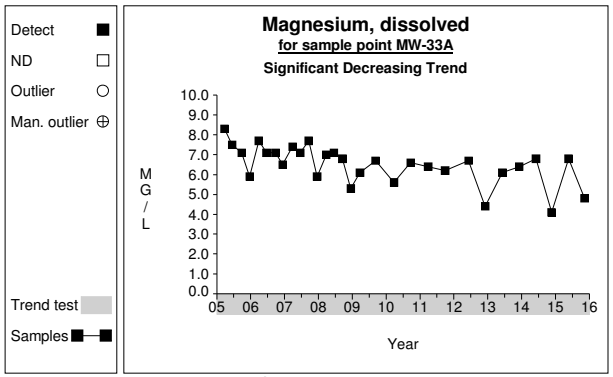
Graph 339



Graph 340

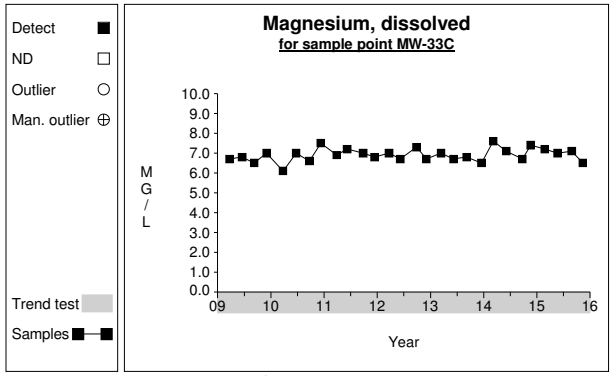


Graph 341

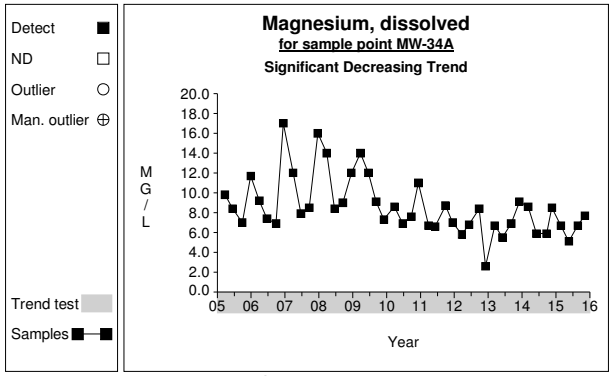


Graph 342

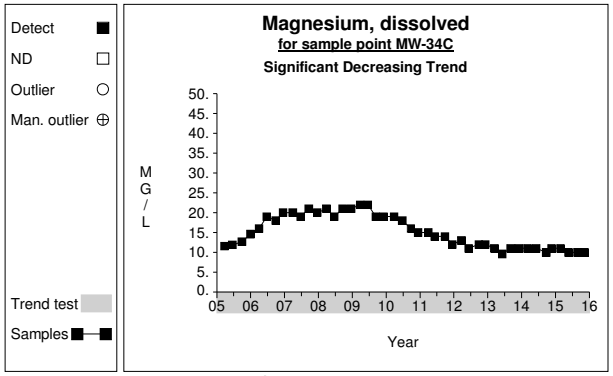
Time Series



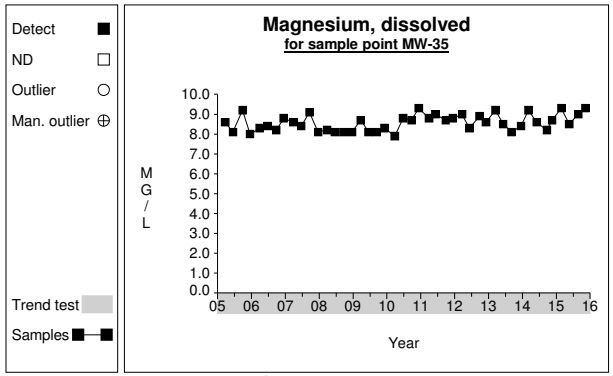
Graph 343



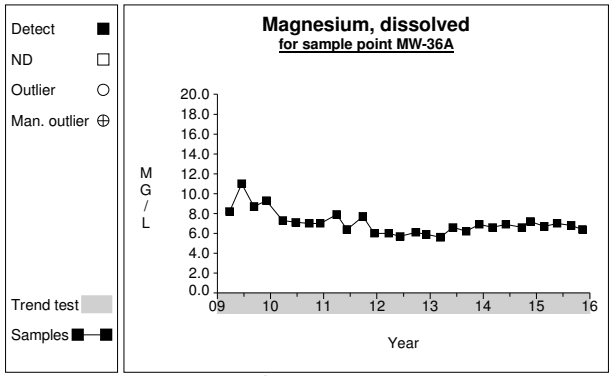
Graph 344



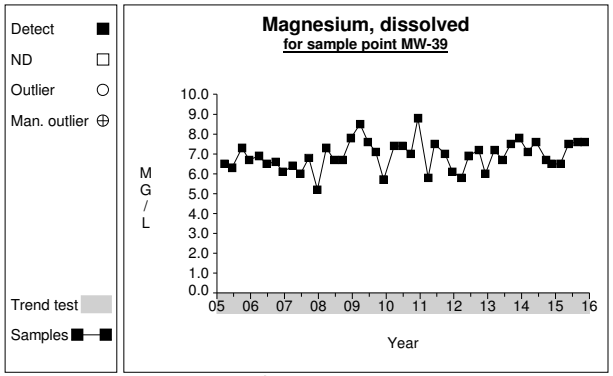
Graph 345



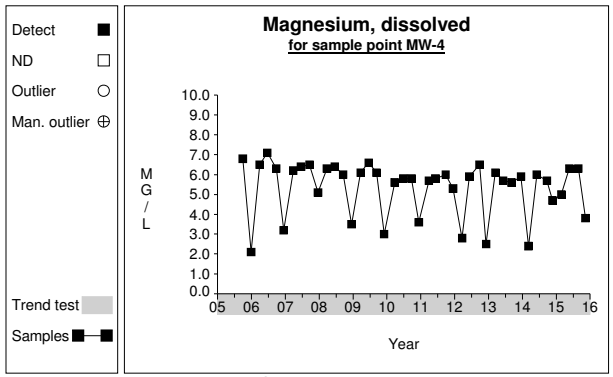
Graph 346



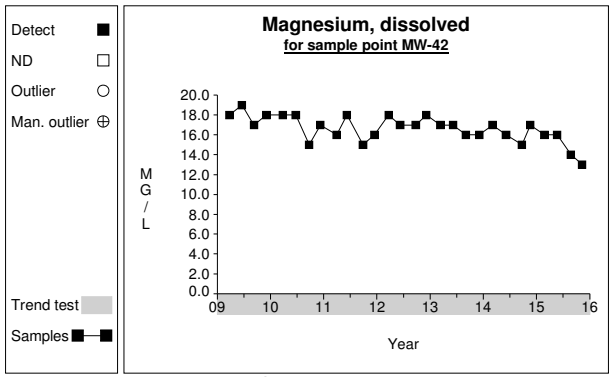
Graph 347



Graph 348



Graph 349



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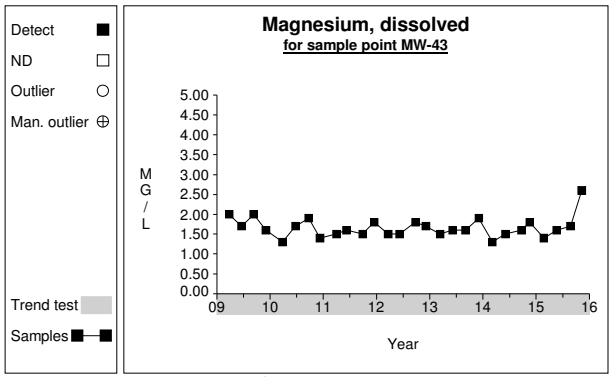
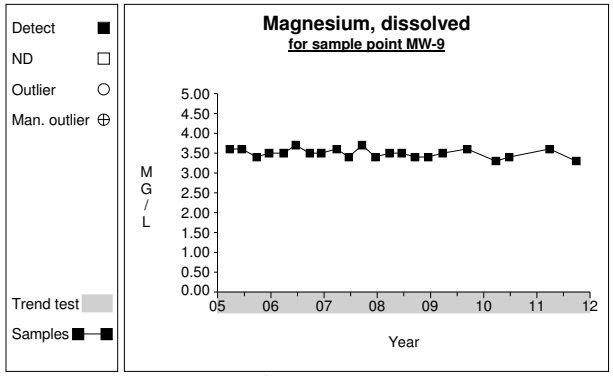
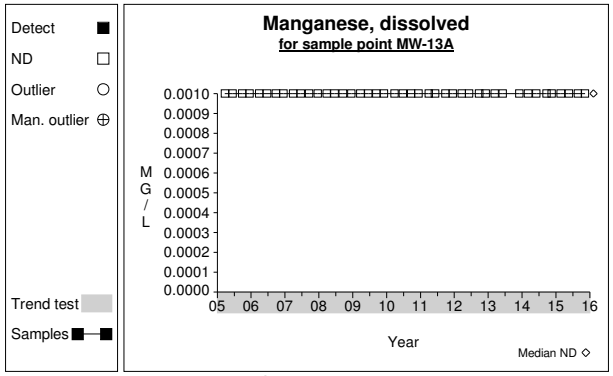


Graph 351

Time Series



Graph 352



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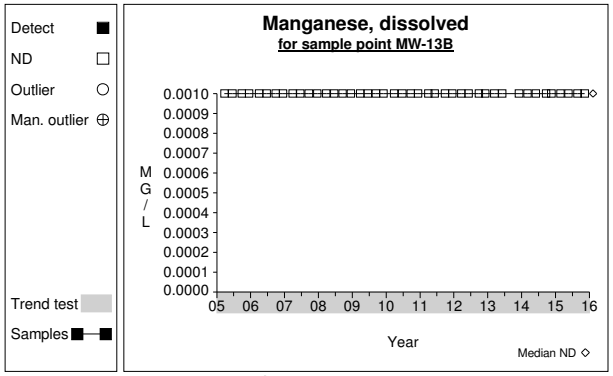
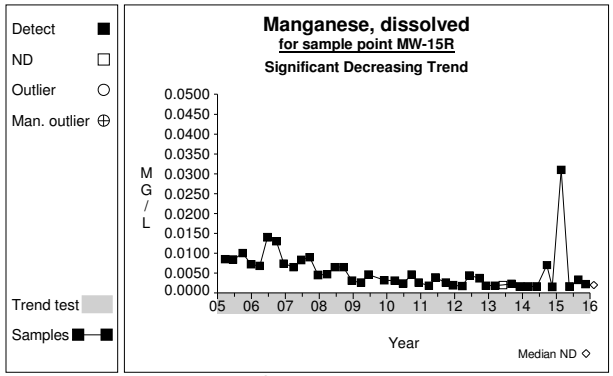
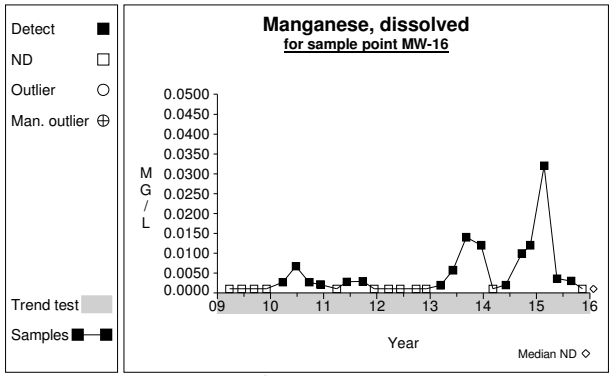


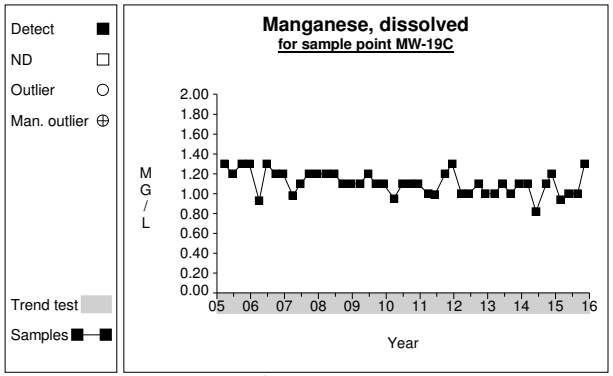
Graph 354



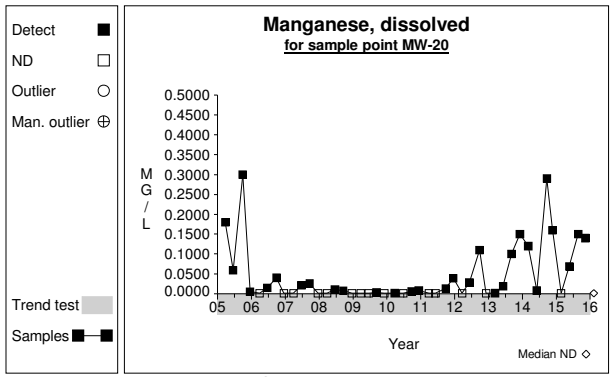
Graph 355



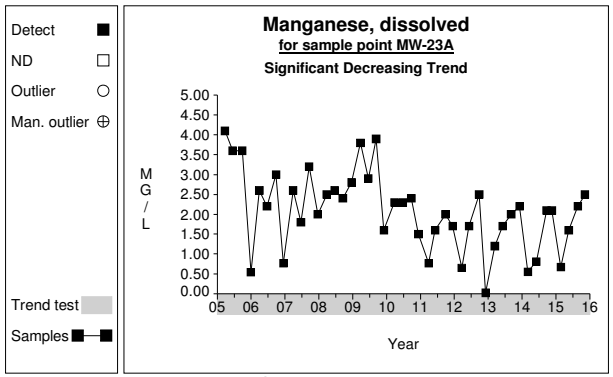
Graph 356



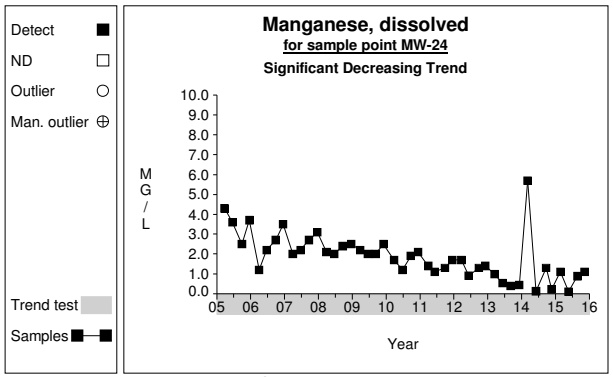
Graph 357



Graph 358

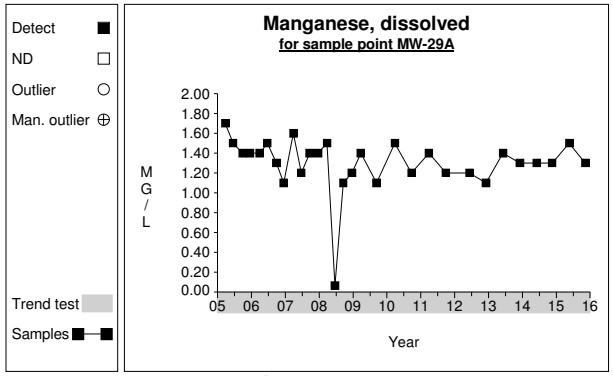


Graph 359

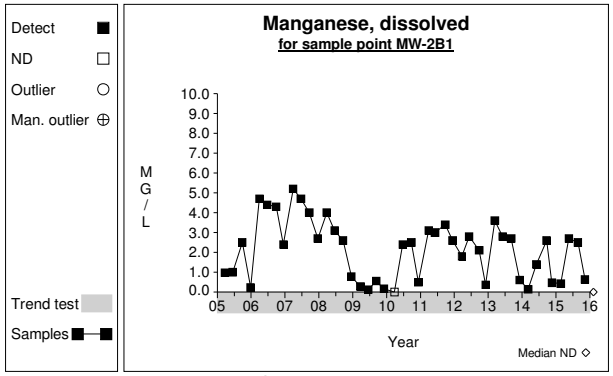


Graph 360

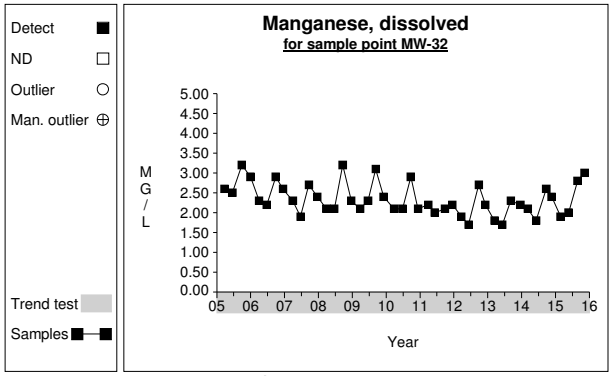
Time Series



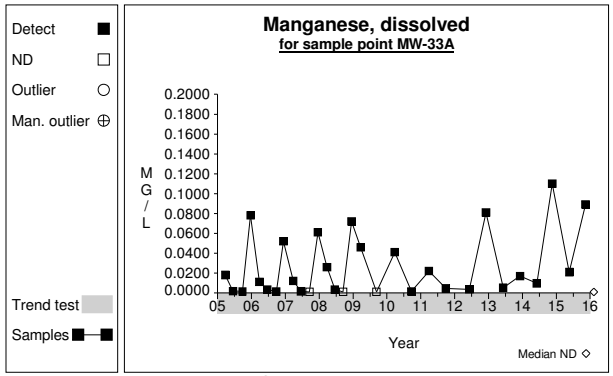
Graph 361



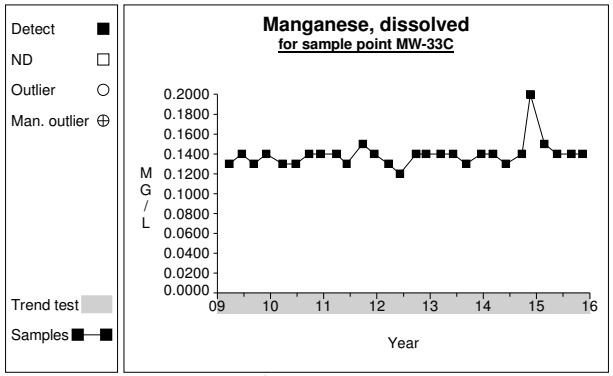
Graph 362



Graph 363



Graph 364



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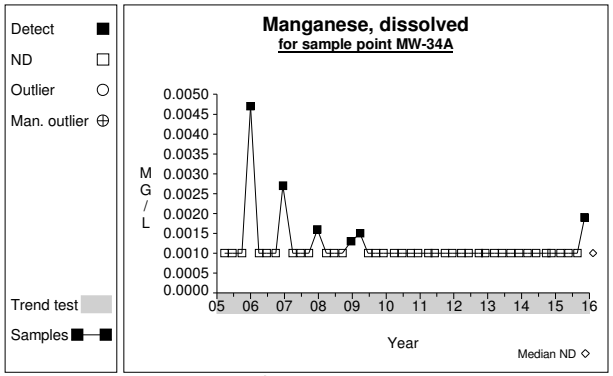
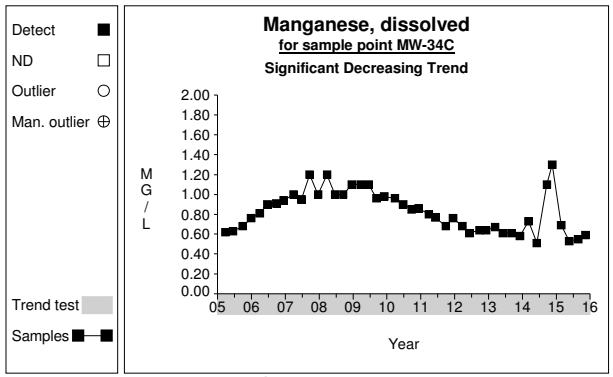
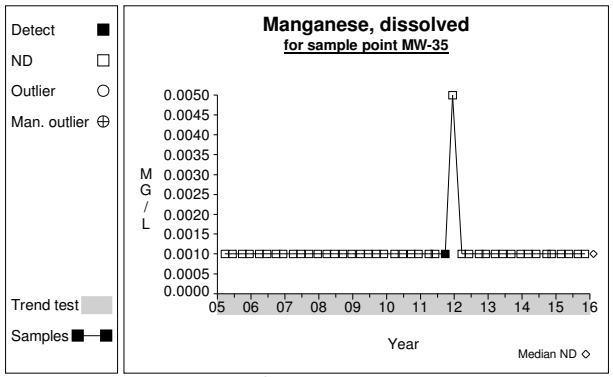


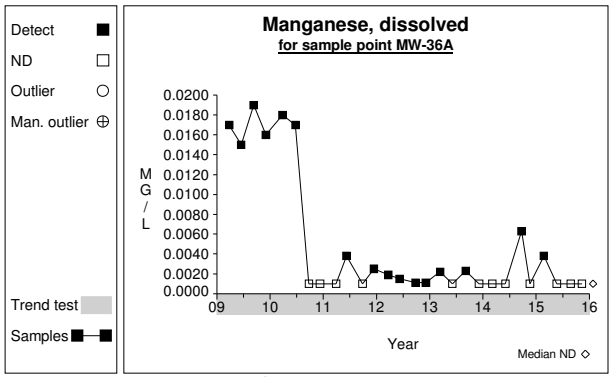
Graph 366



Graph 367

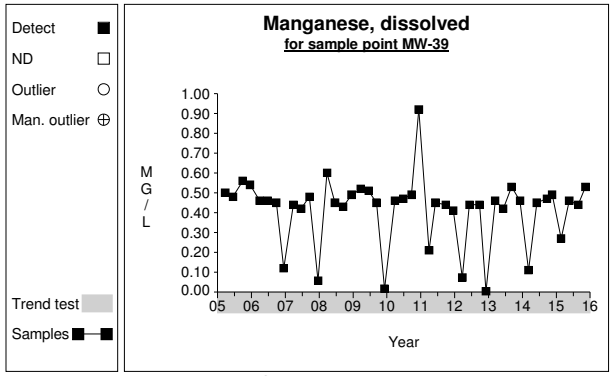


Graph 368

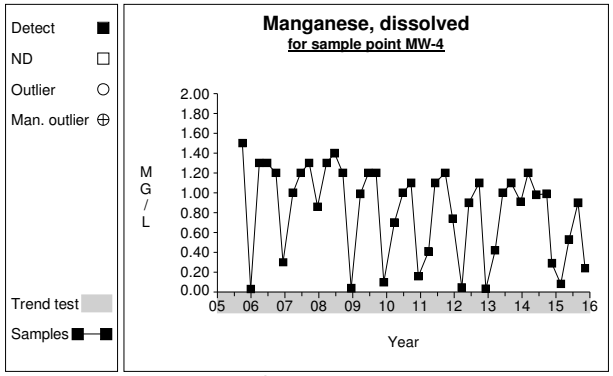


Graph 369

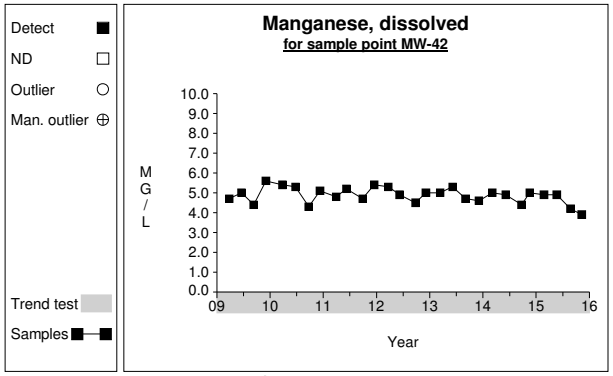
Time Series



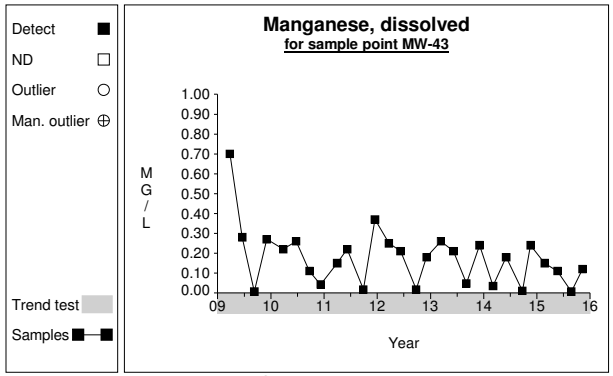
Graph 370



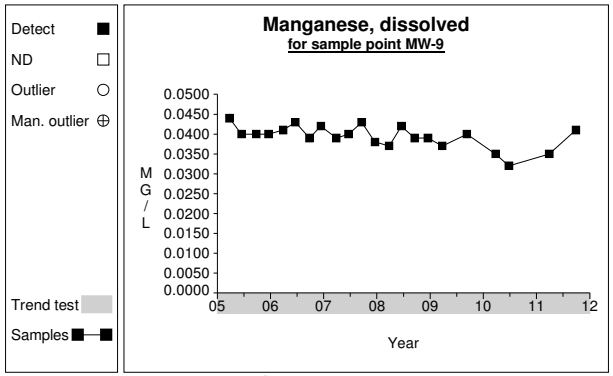
Graph 371



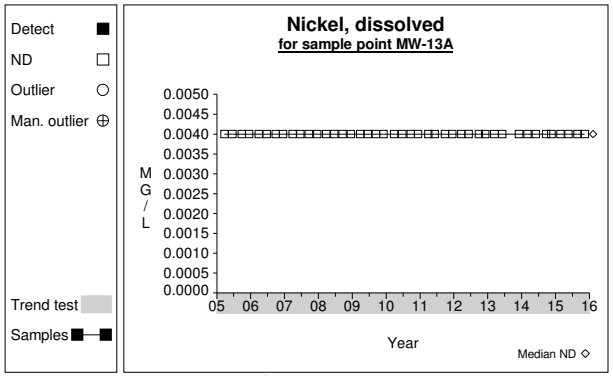
Graph 372



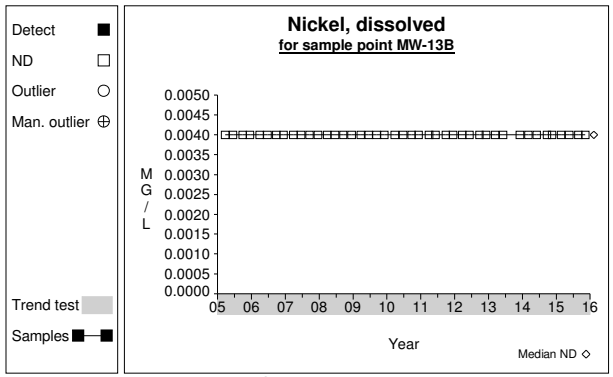
Graph 373



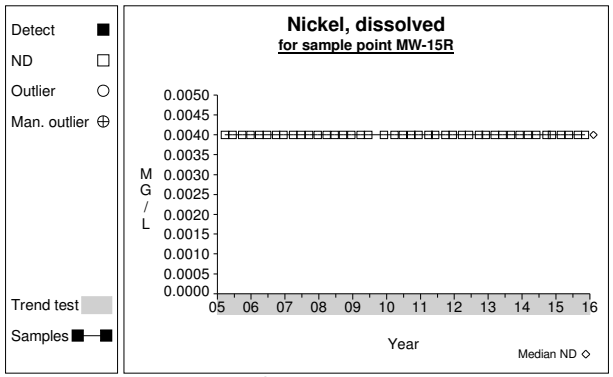
Graph 374



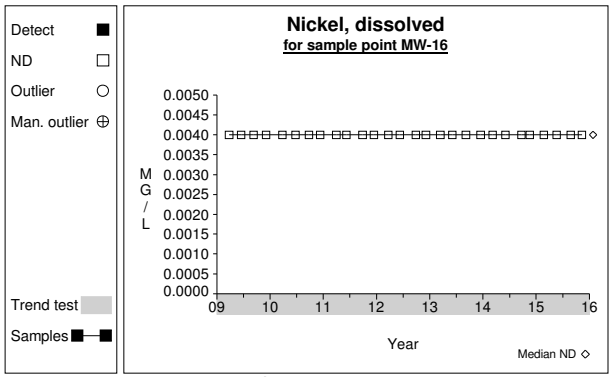
Graph 375



Graph 376

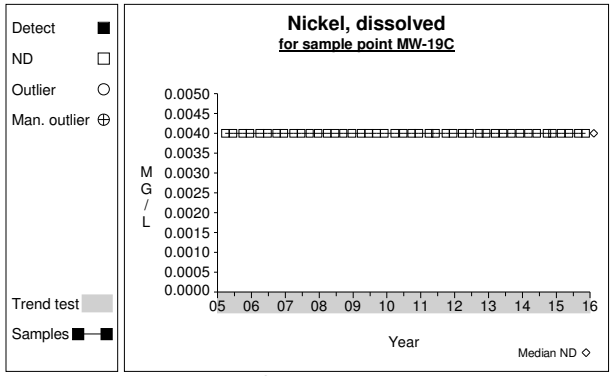


Graph 377

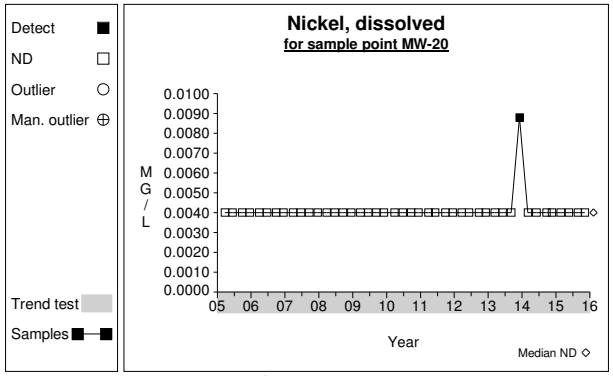


Graph 378

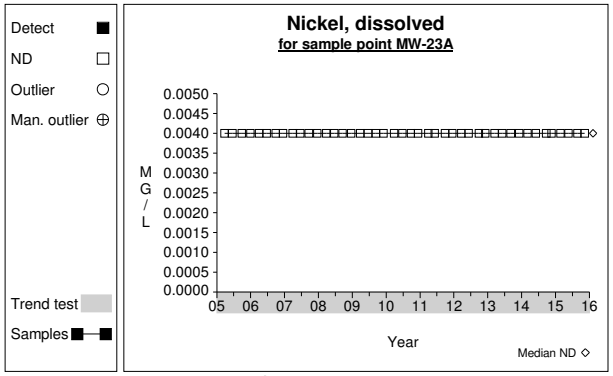
Time Series



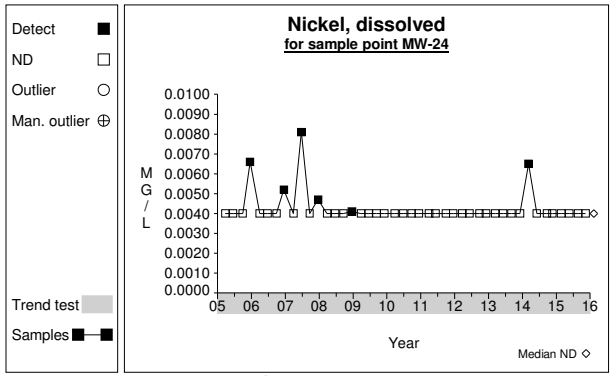
Graph 379



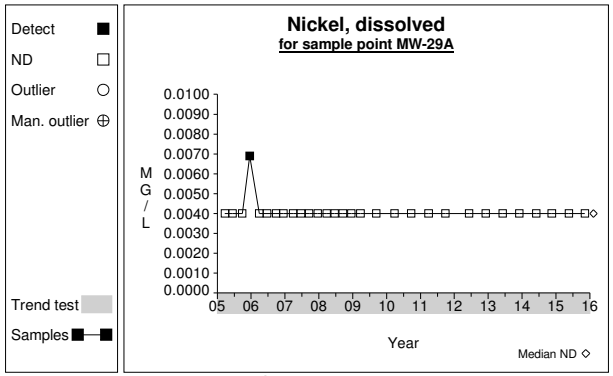
Graph 380



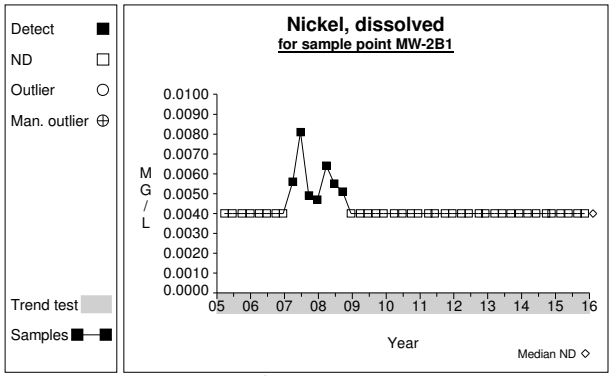
Graph 381



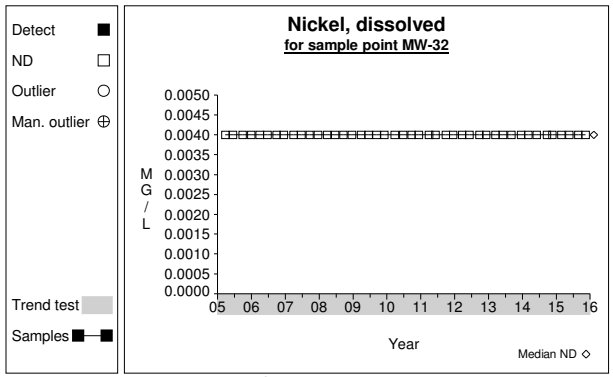
Graph 382



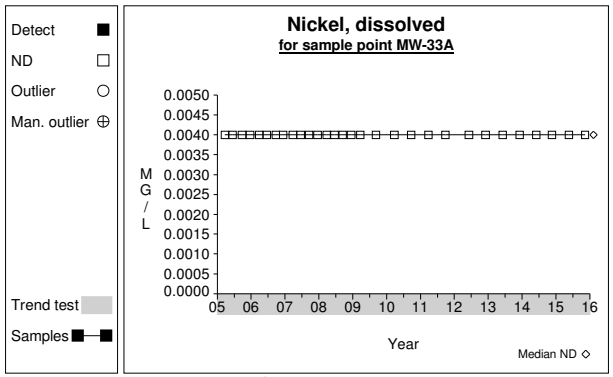
Graph 383



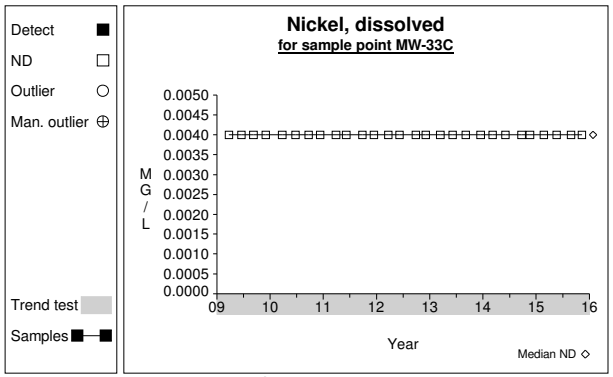
Graph 384



Graph 385

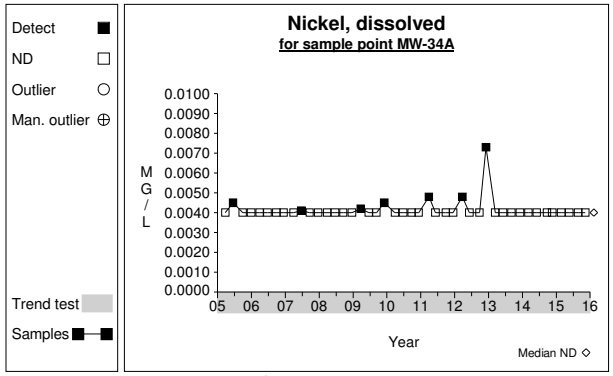


Graph 386

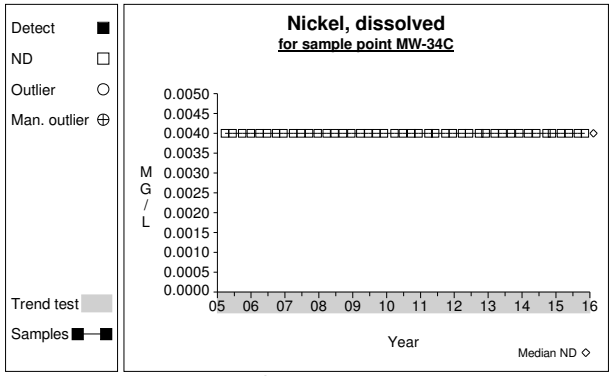


Graph 387

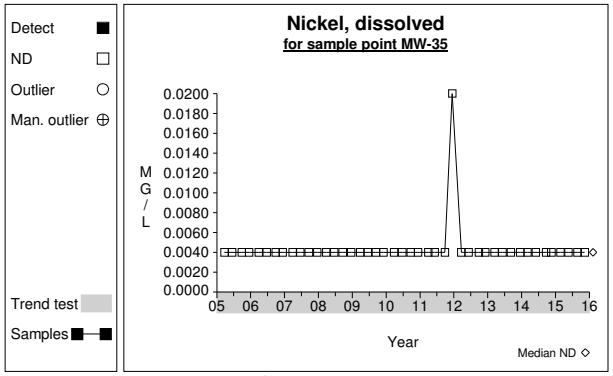
Time Series



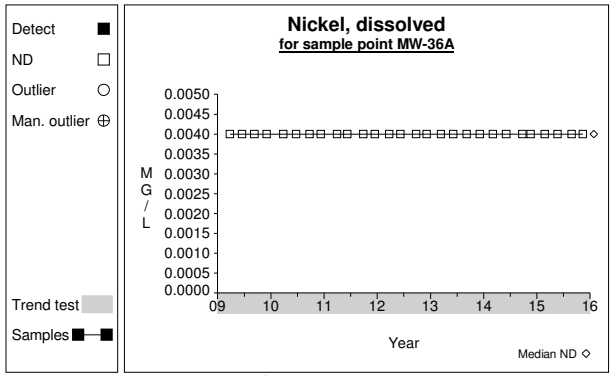
Graph 388



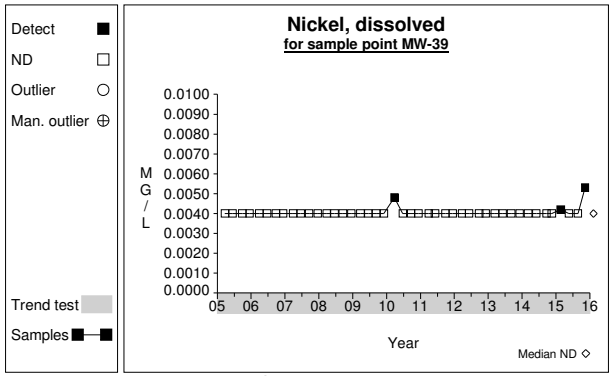
Graph 389



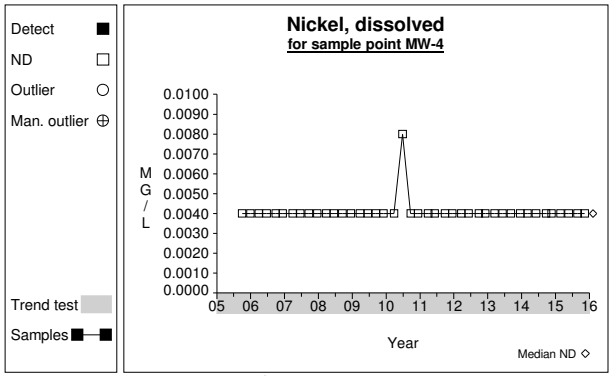
Graph 390



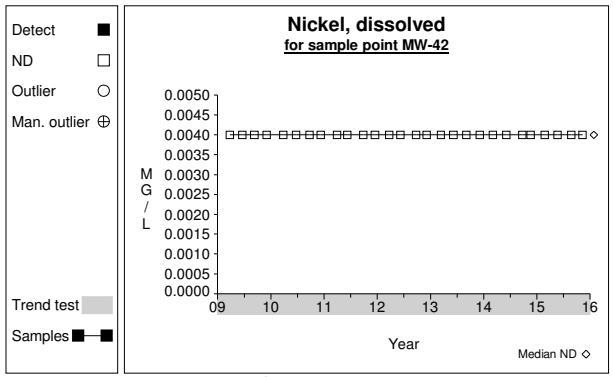
Graph 391



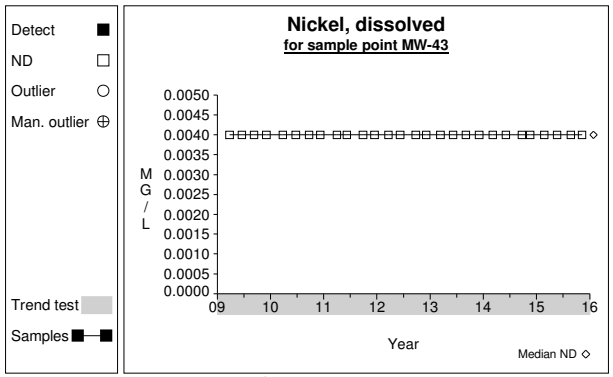
Graph 392



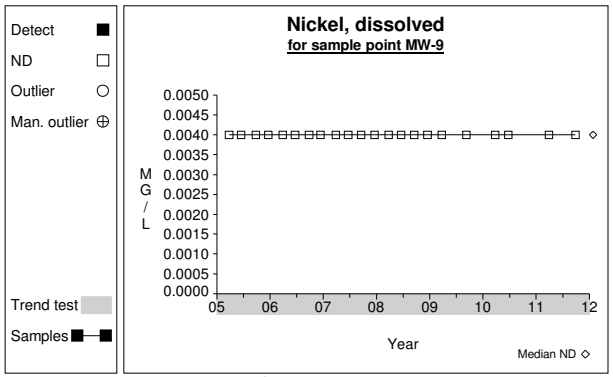
Graph 393



Graph 394

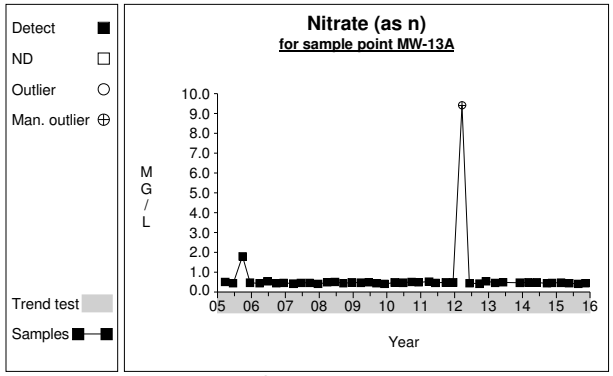


Graph 395

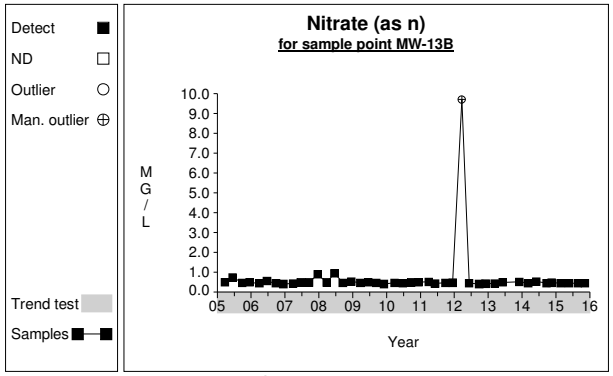


Graph 396

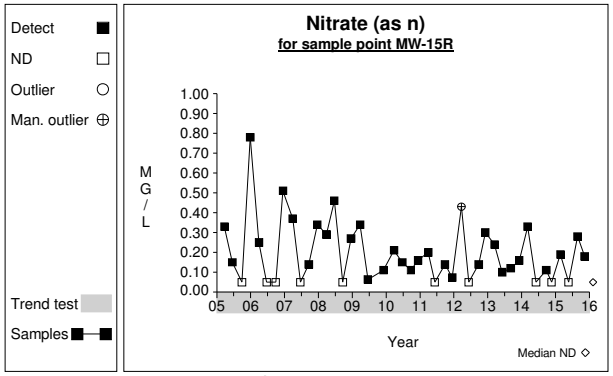
Time Series



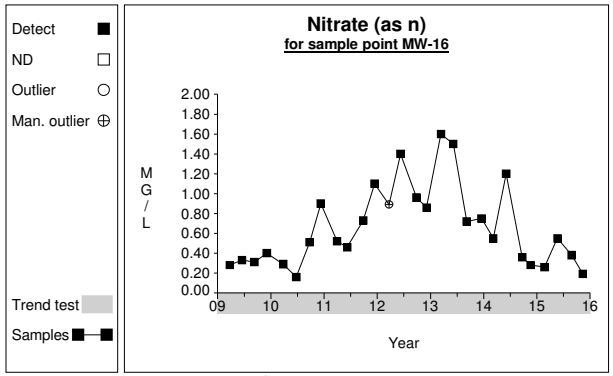
Graph 397



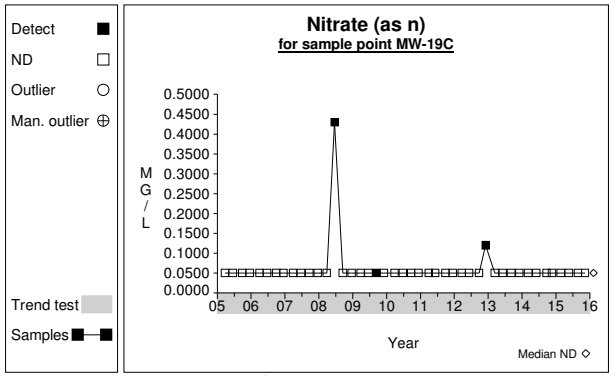
Graph 398



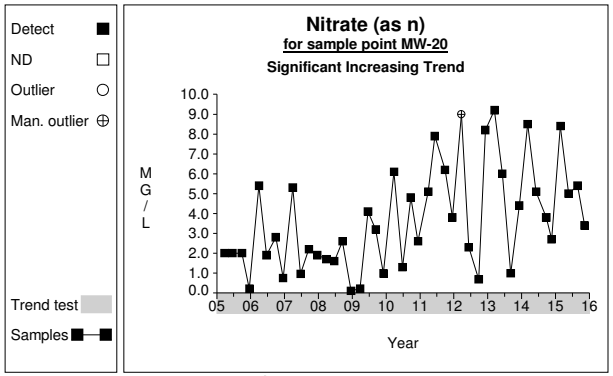
Graph 399



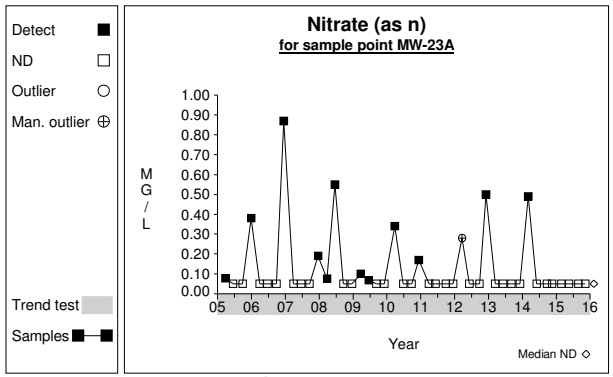
Graph 400



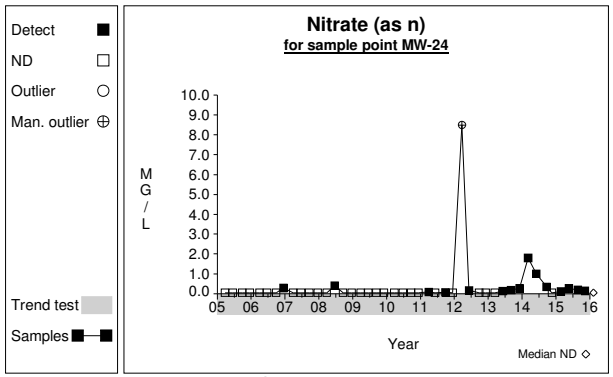
Graph 401



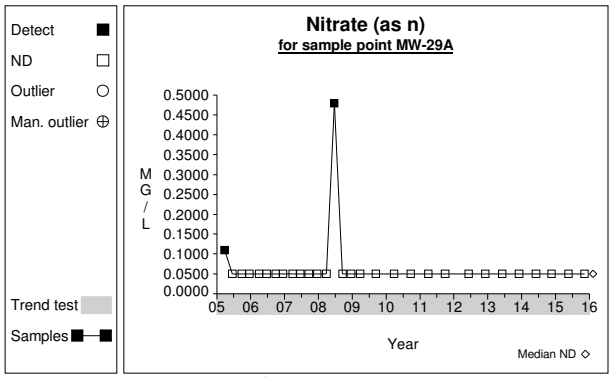
Graph 402



Graph 403

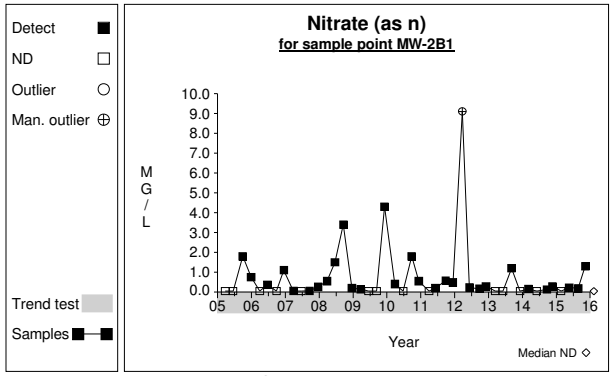


Graph 404

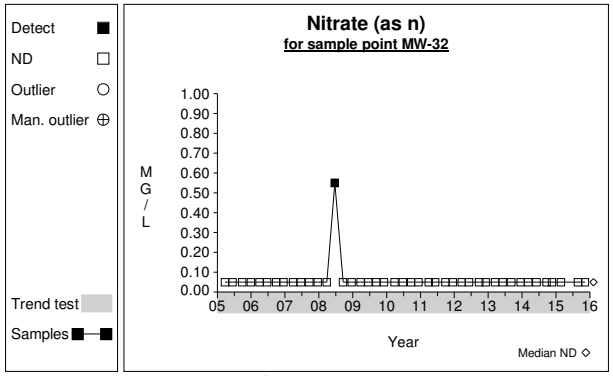


Graph 405

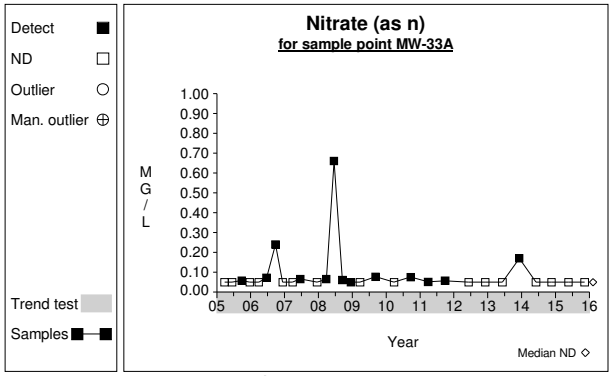
Time Series



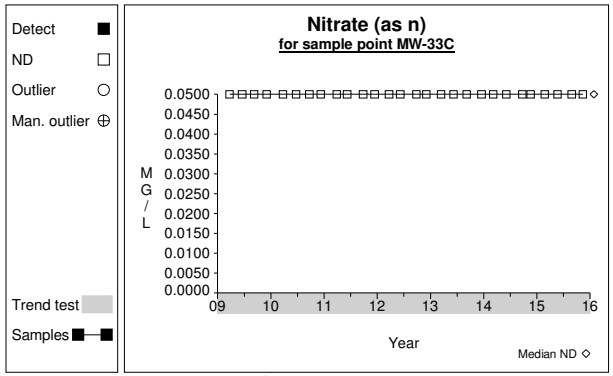
Graph 406



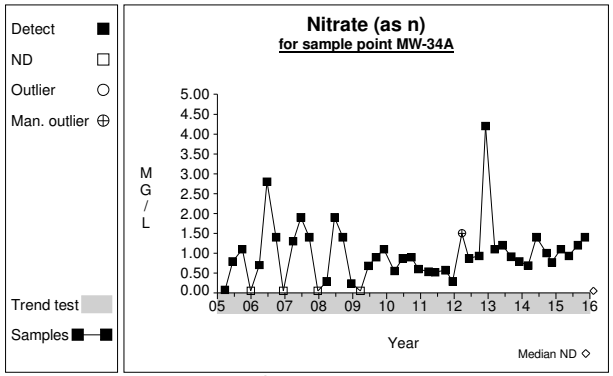
Graph 407



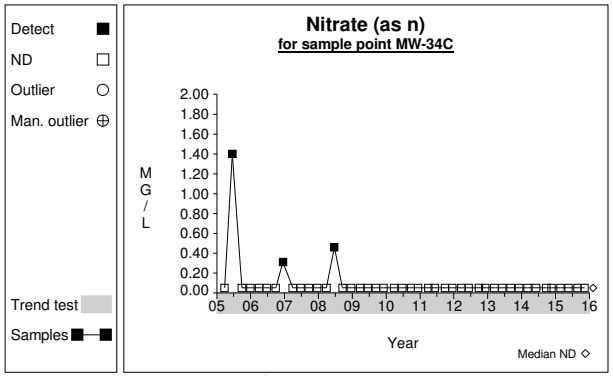
Graph 408



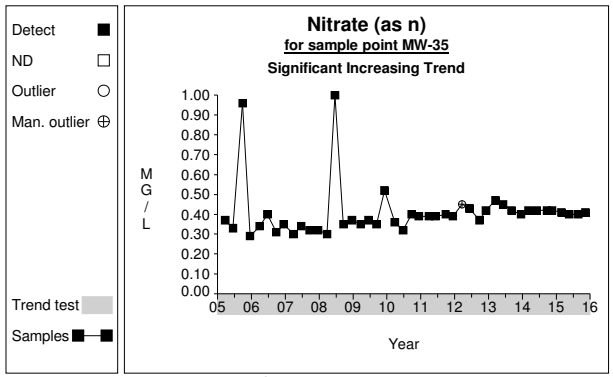
Graph 409



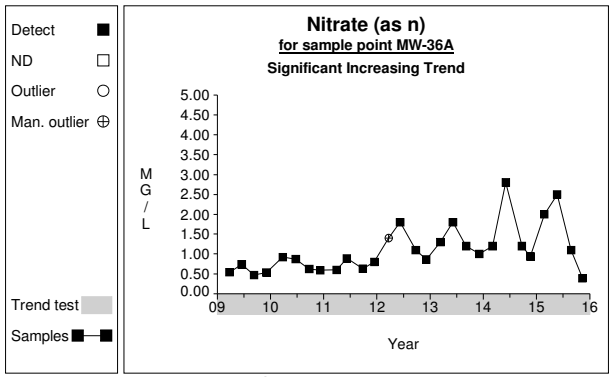
Graph 410



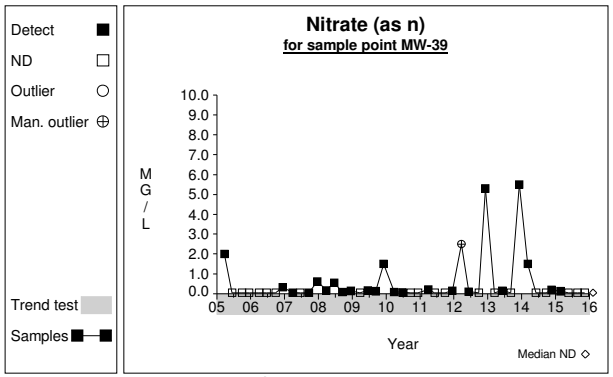
Graph 411



Graph 412

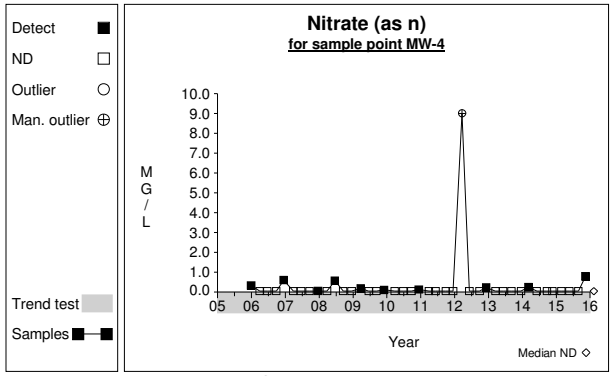


Graph 413

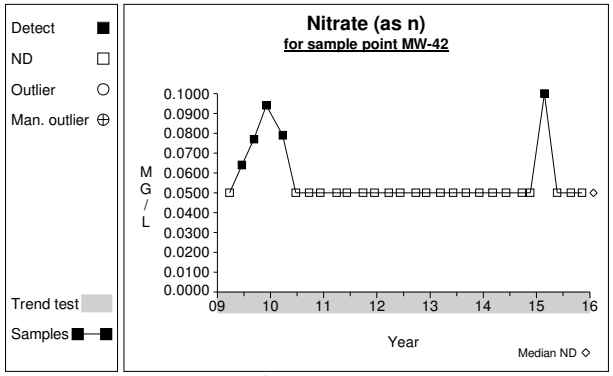


Graph 414

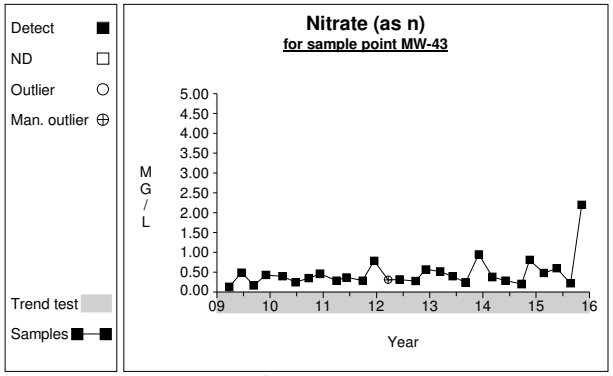
Time Series



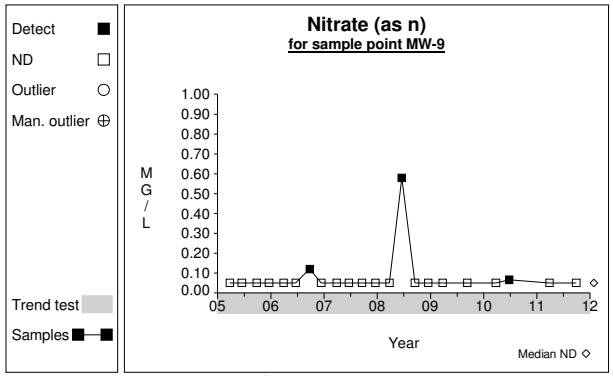
Graph 415



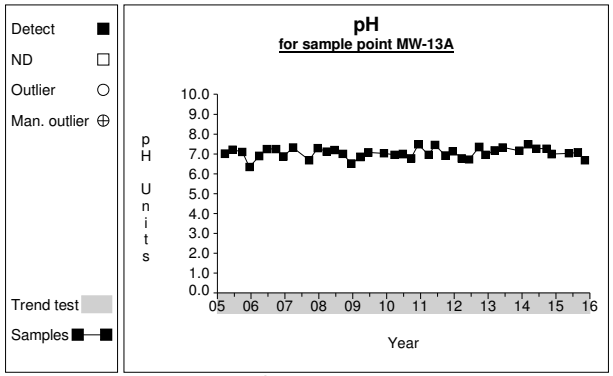
Graph 416



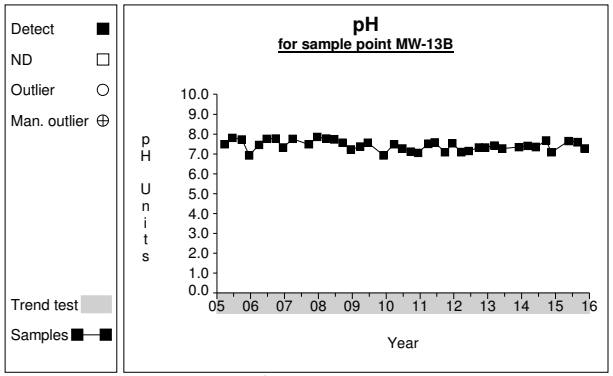
Graph 417



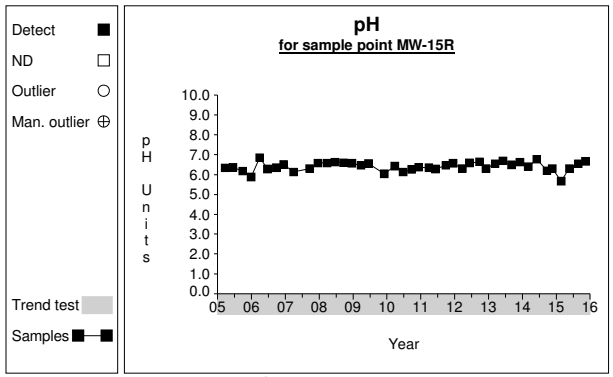
Graph 418



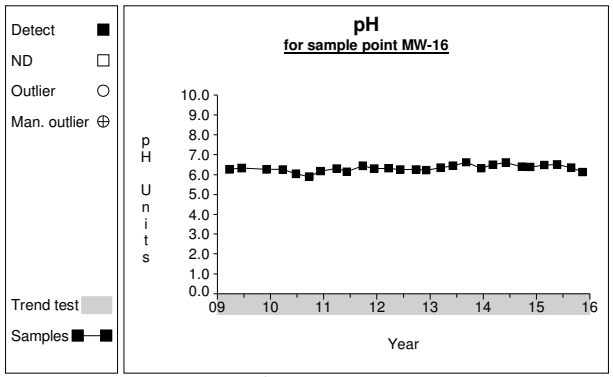
Graph 419



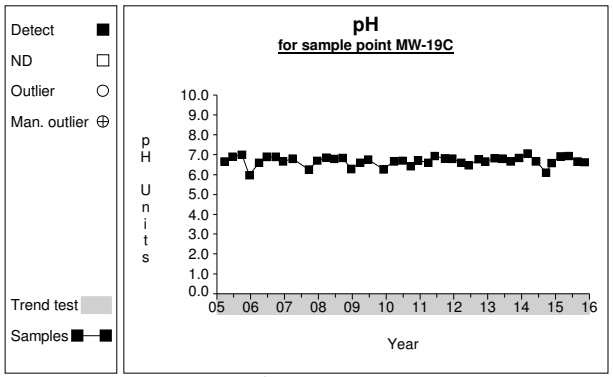
Graph 420



Graph 421

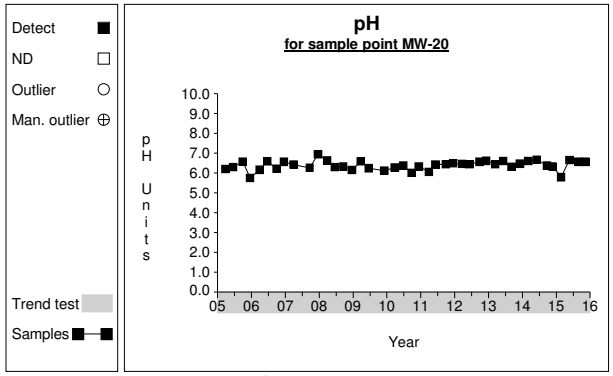


Graph 422

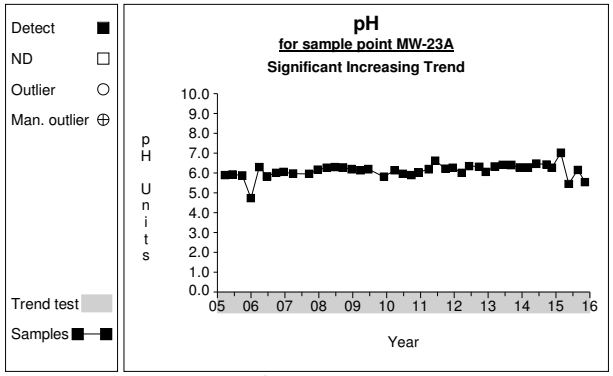


Graph 423

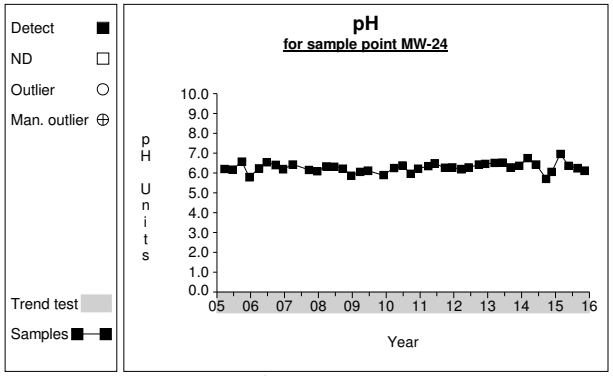
Time Series



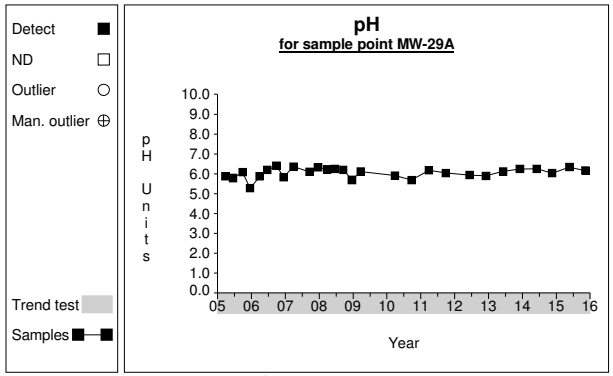
Graph 424



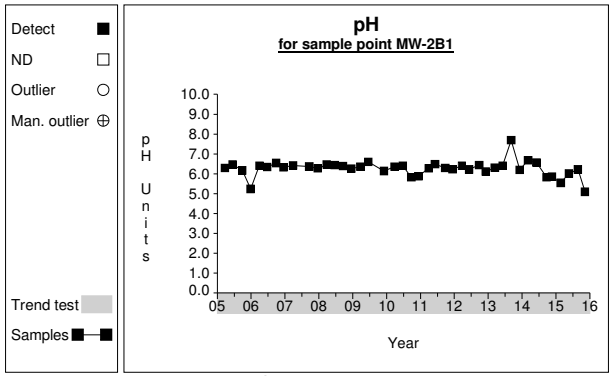
Graph 425



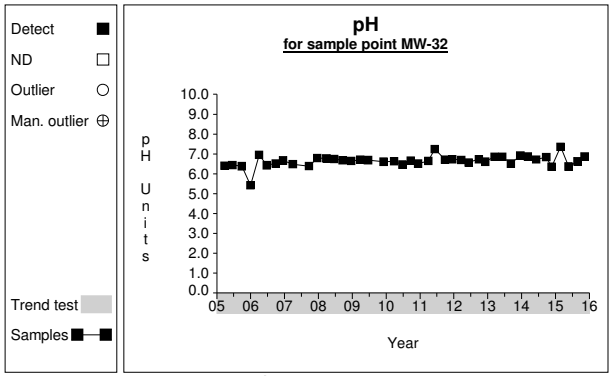
Graph 426



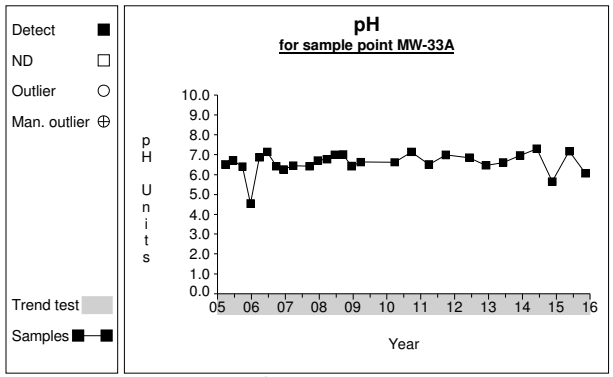
Graph 427



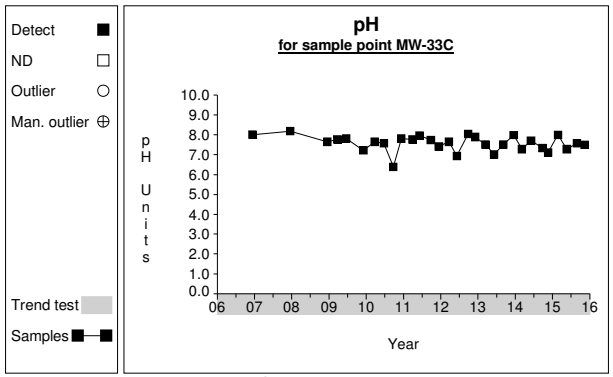
Graph 428



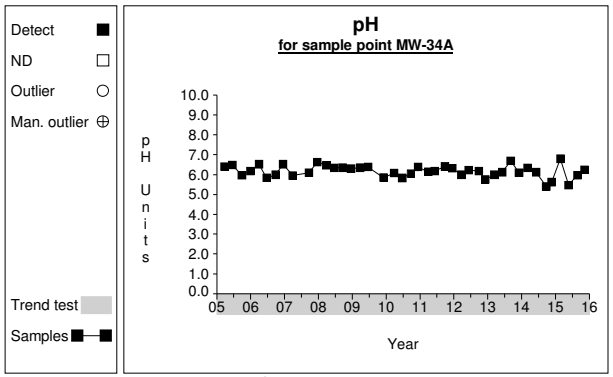
Graph 429



Graph 430

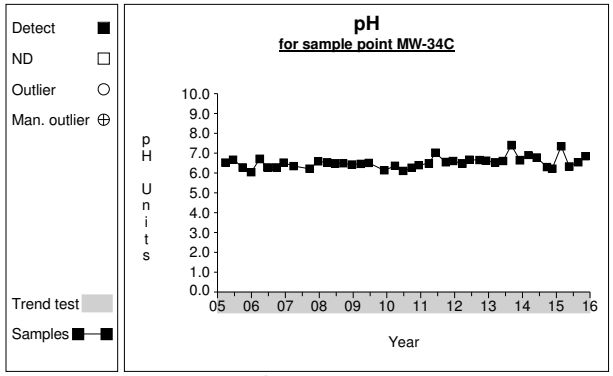


Graph 431

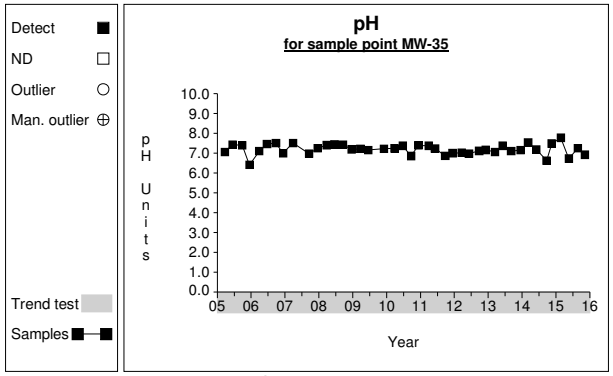


Graph 432

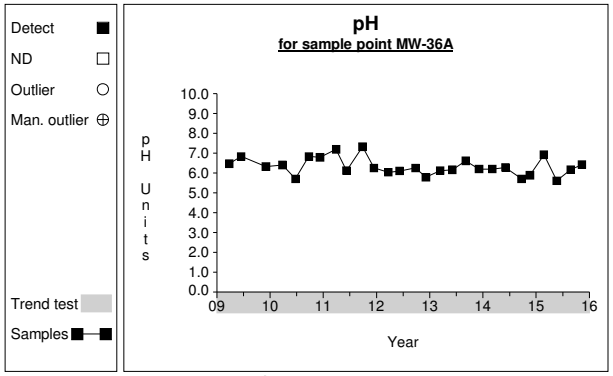
Time Series



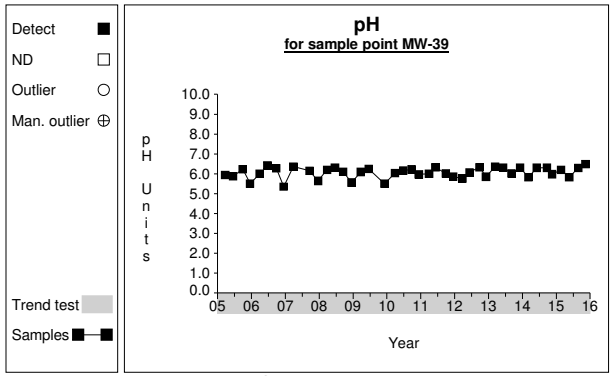
Graph 433



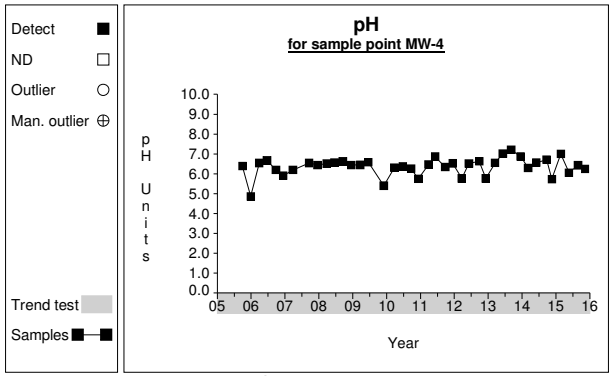
Graph 434



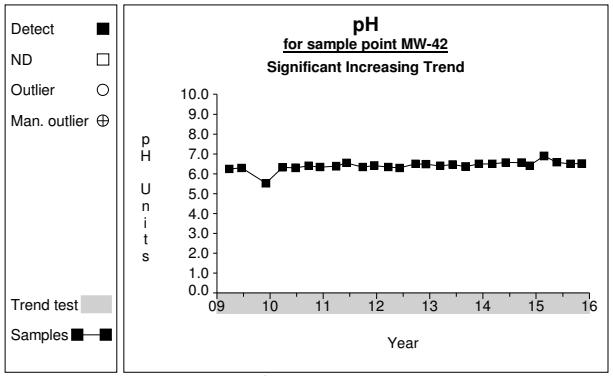
Graph 435



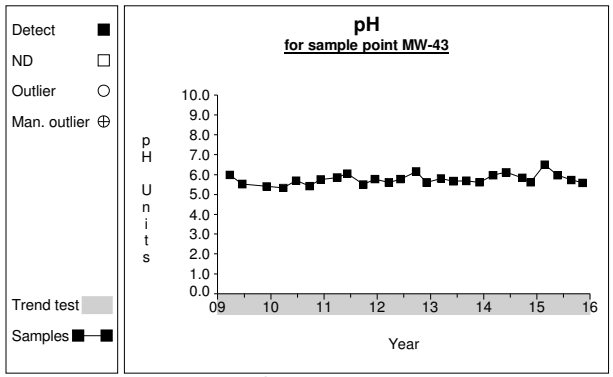
Graph 436



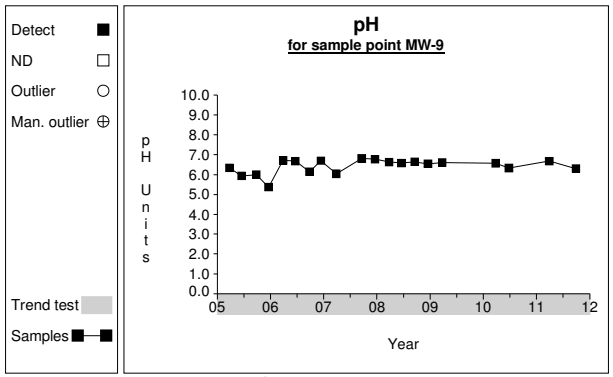
Graph 437



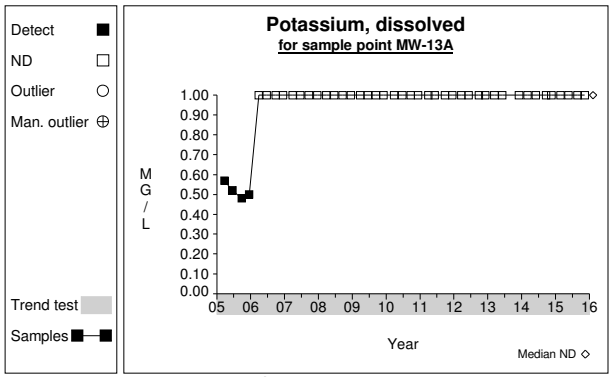
Graph 438



Graph 439

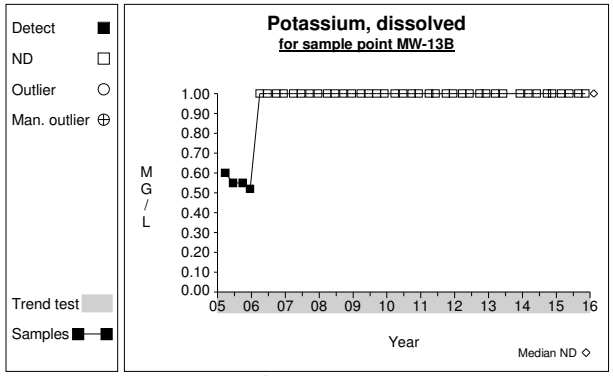


Graph 440

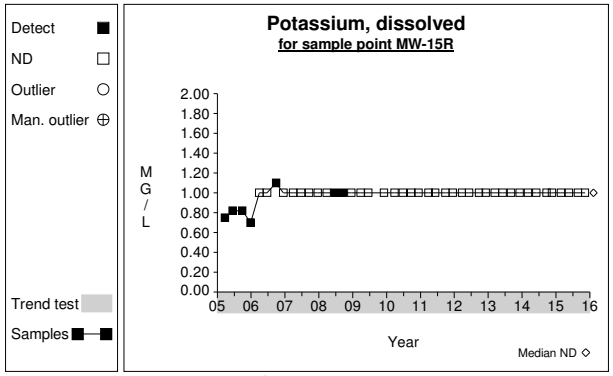


Graph 441

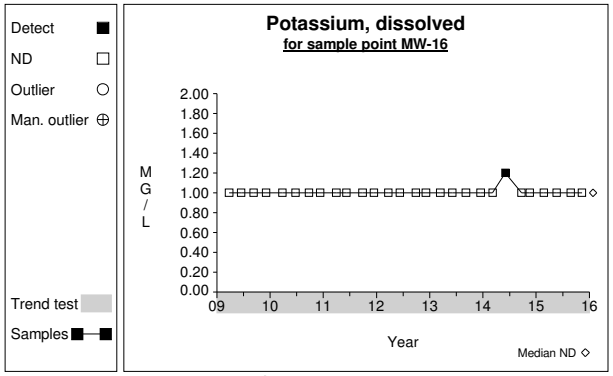
Time Series



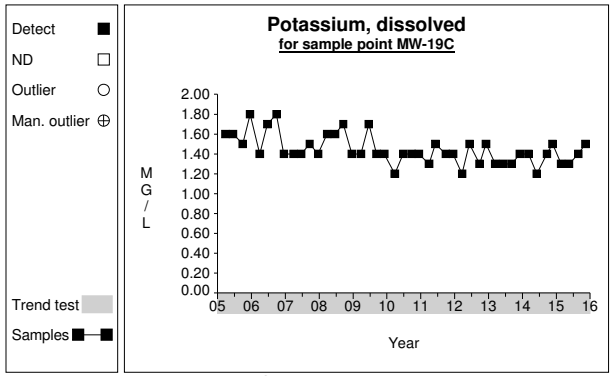
Graph 442



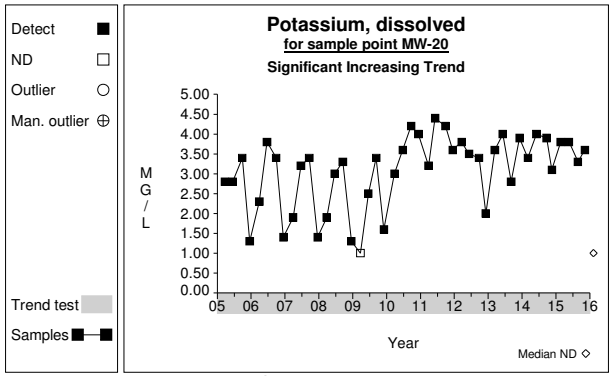
Graph 443



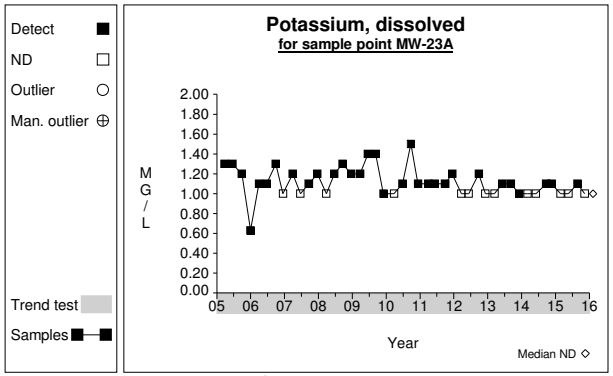
Graph 444



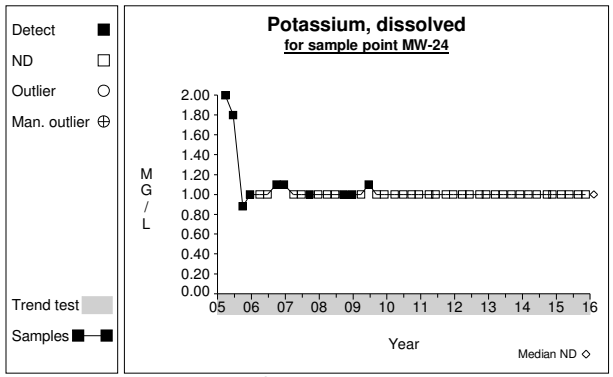
Graph 445



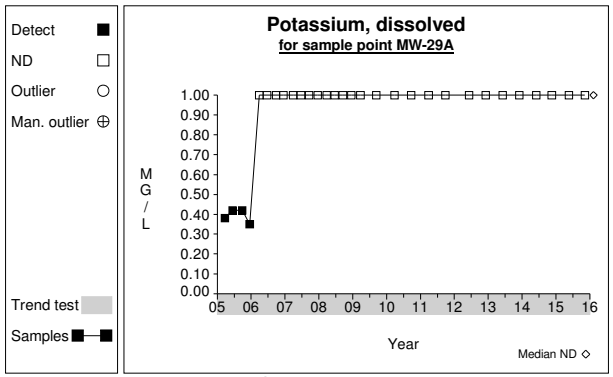
Graph 446



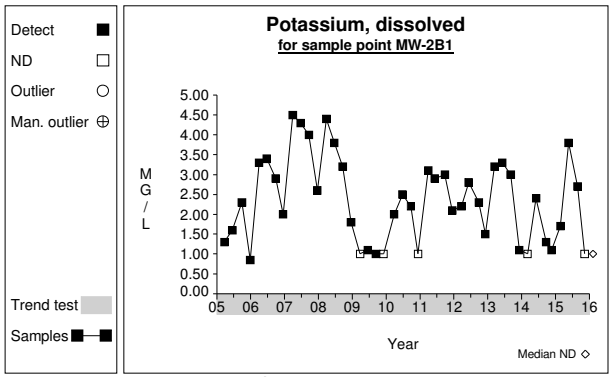
Graph 447



Graph 448

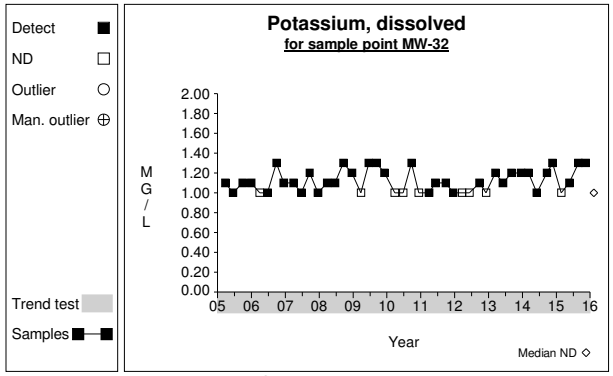


Graph 449

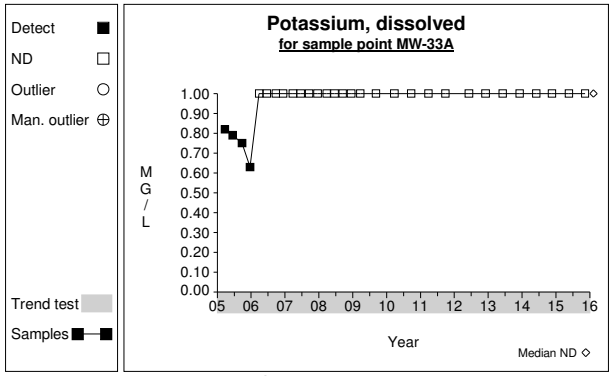


Graph 450

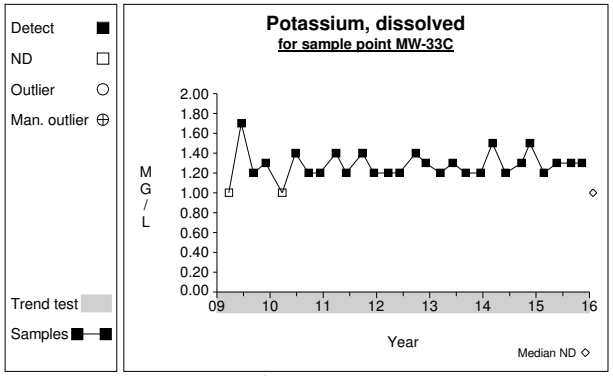
Time Series



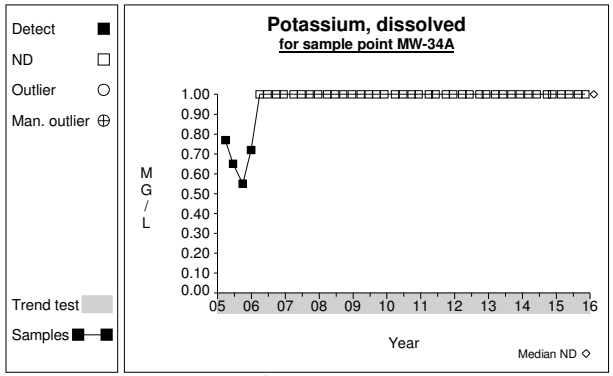
Graph 451



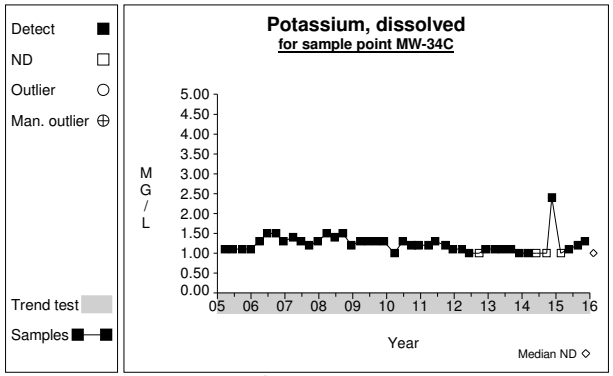
Graph 452



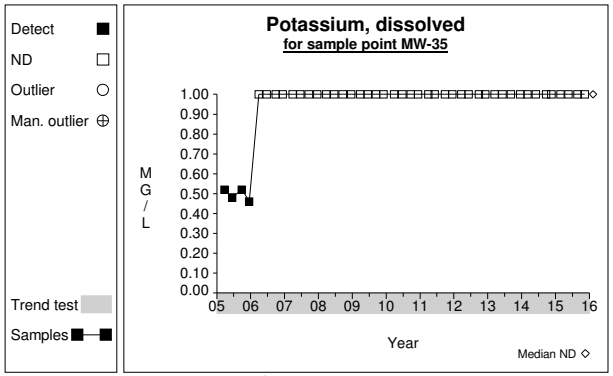
Graph 453



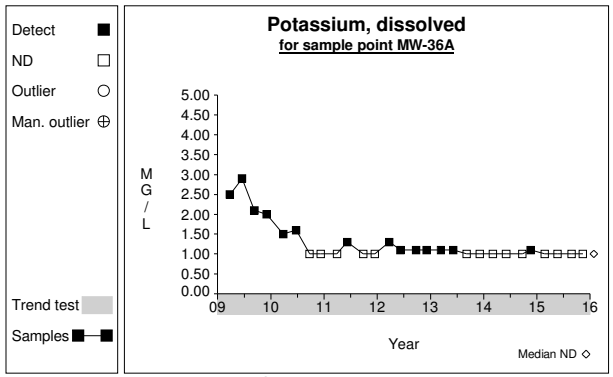
Graph 454



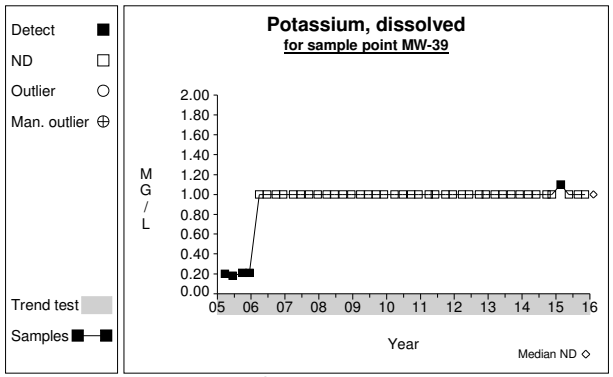
Graph 455



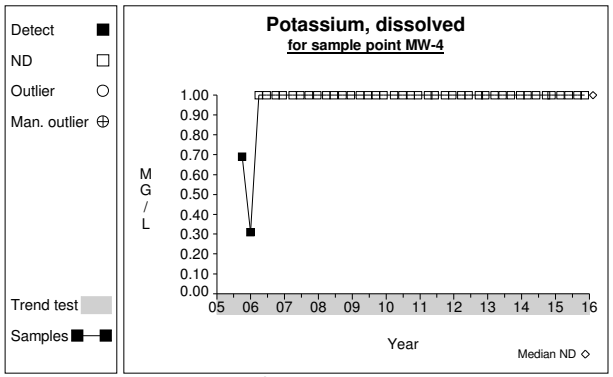
Graph 456



Graph 457

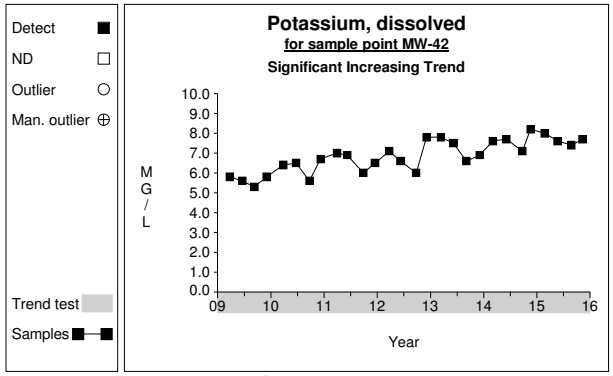


Graph 458

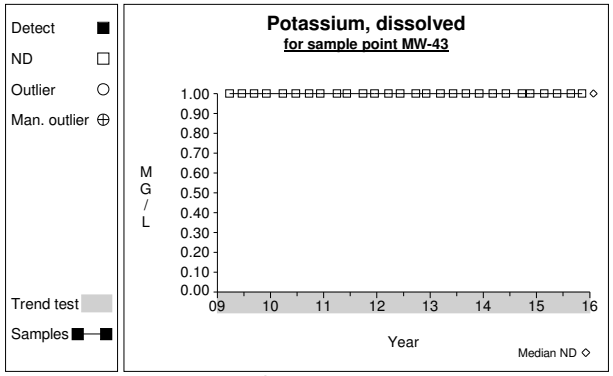


Graph 459

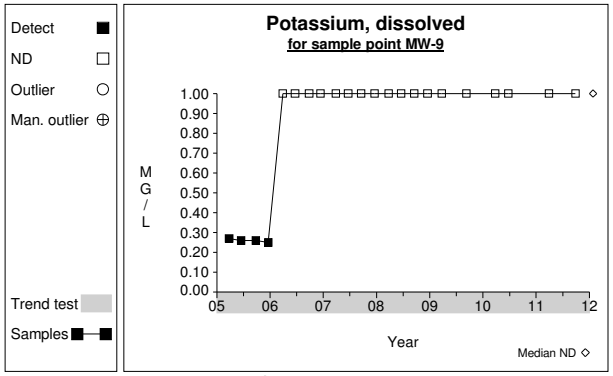
Time Series



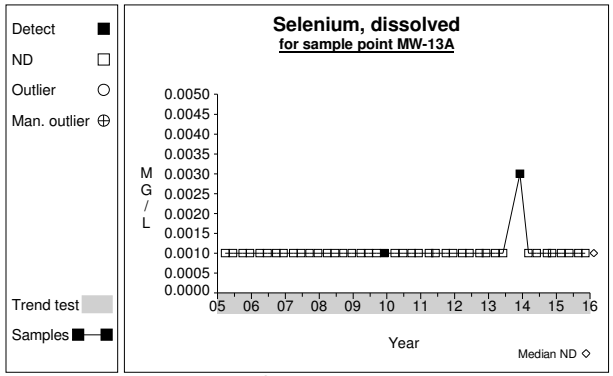
Graph 460



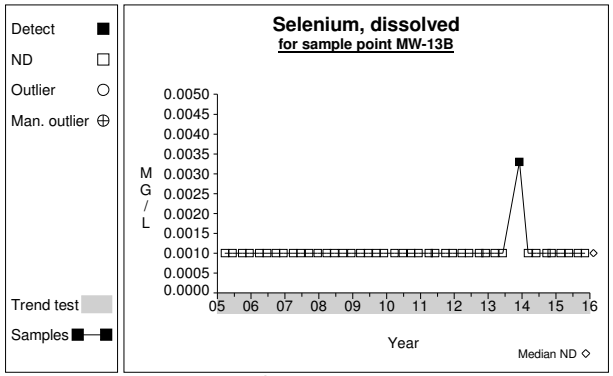
Graph 461



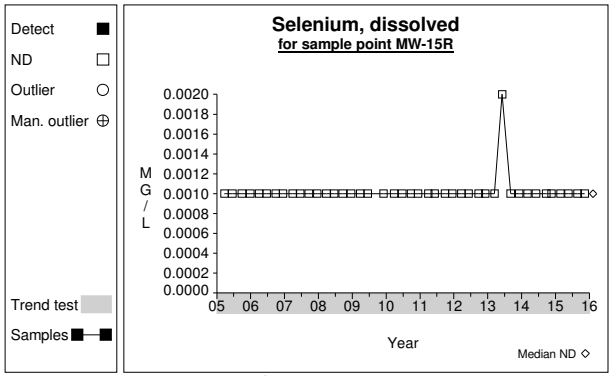
Graph 462



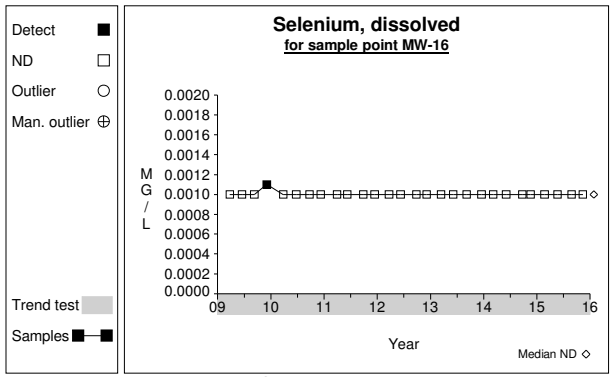
Graph 463



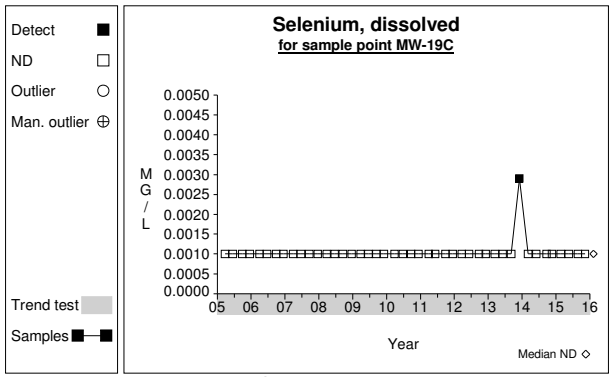
Graph 464



Graph 465



Graph 466



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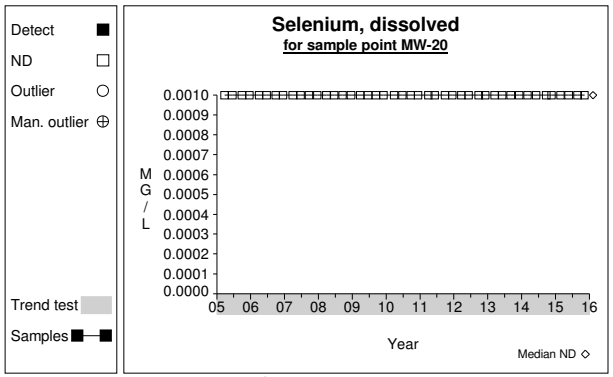
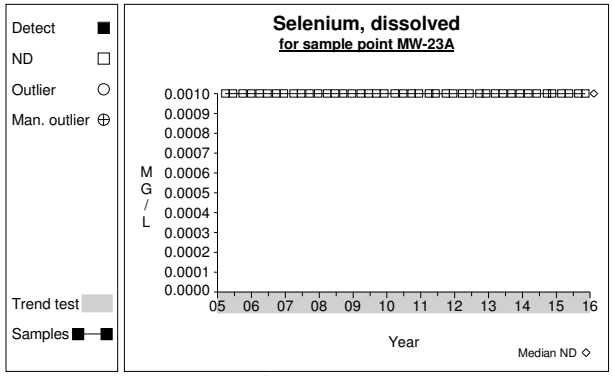
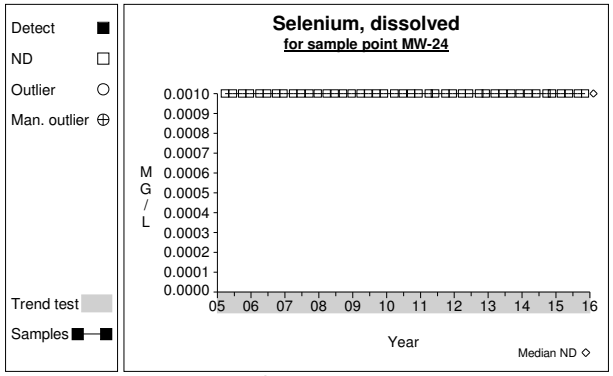


Graph 468

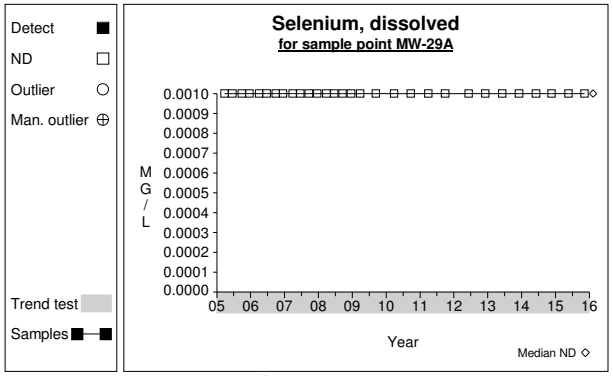
Time Series



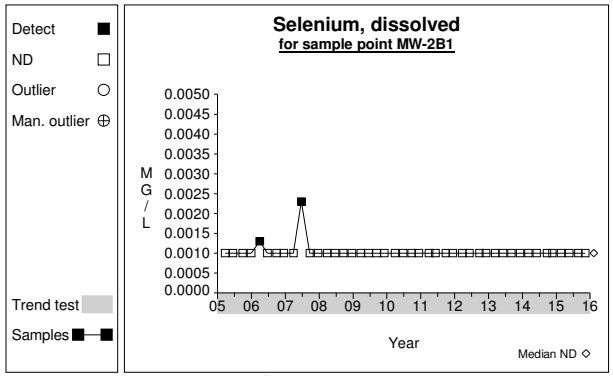
Graph 469



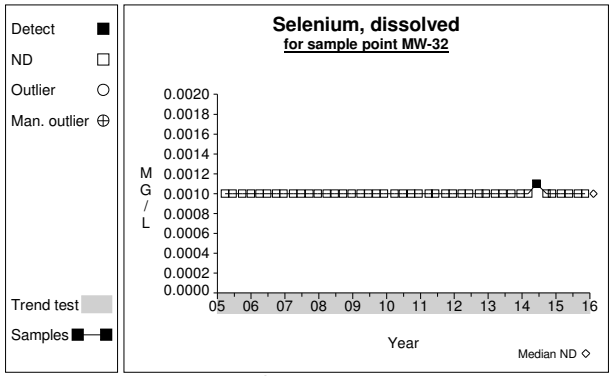
Graph 470



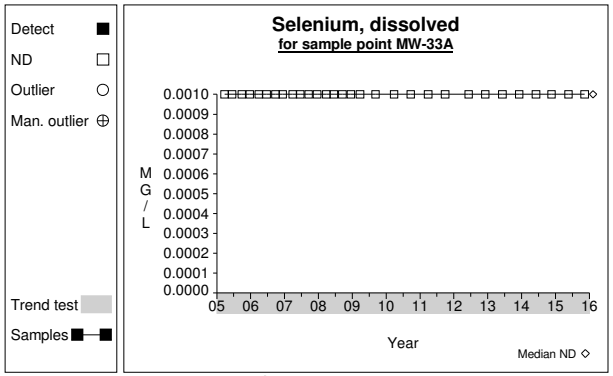
Graph 471



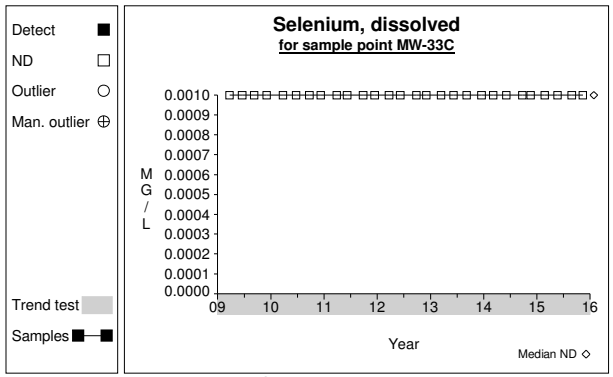
Graph 472



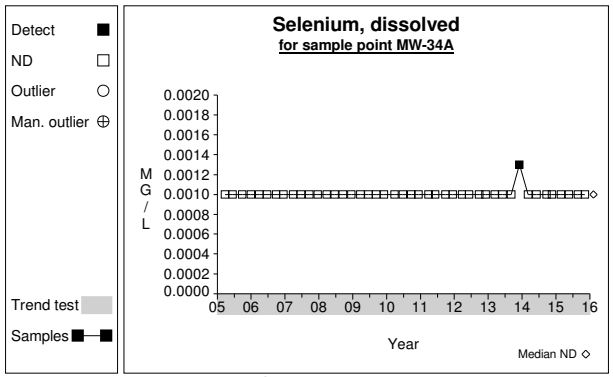
Graph 473



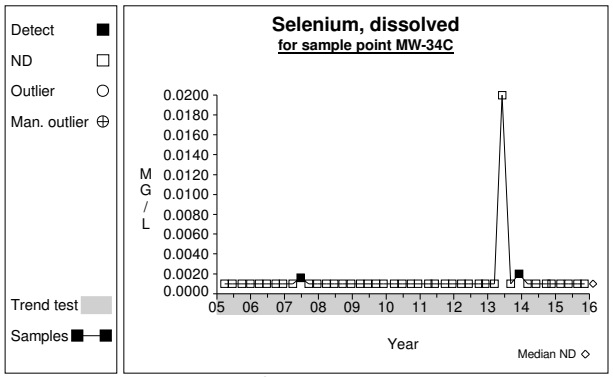
Graph 474



Graph 475

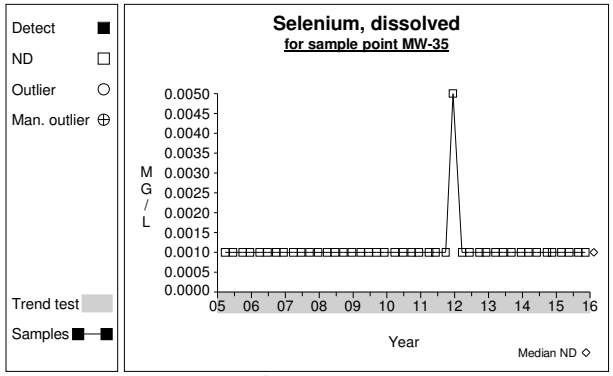


Graph 476

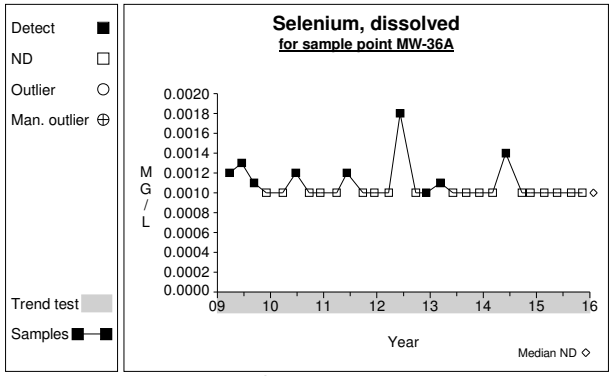


Graph 477

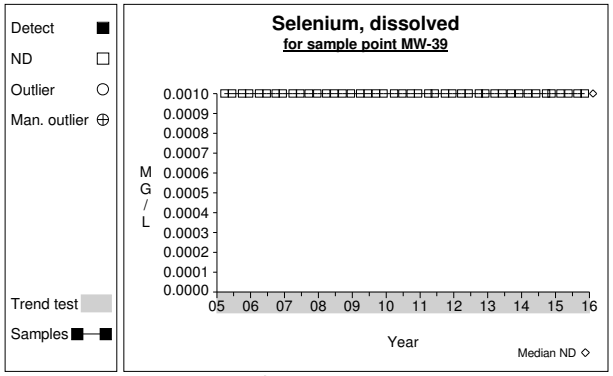
Time Series



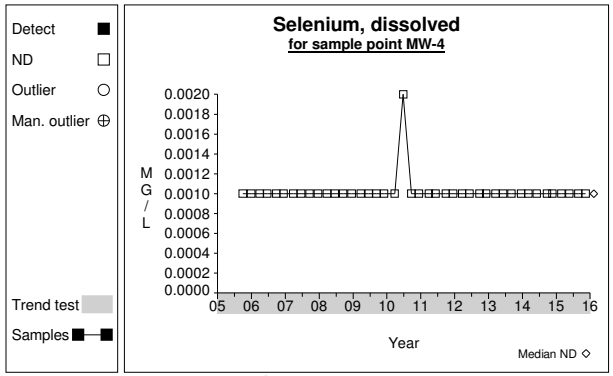
Graph 478



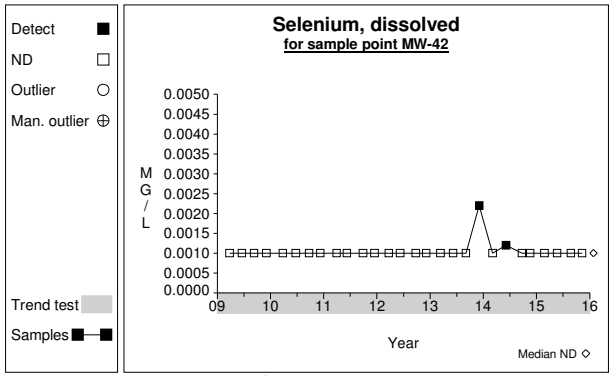
Graph 479



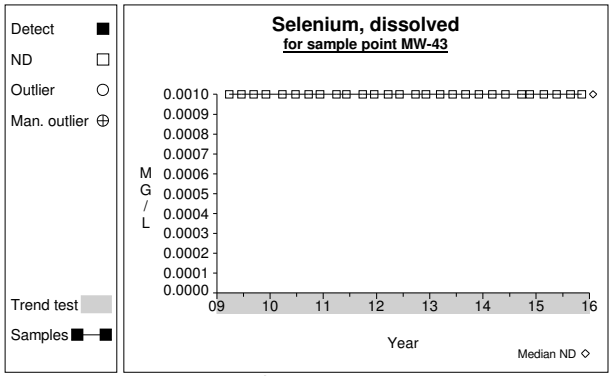
Graph 480



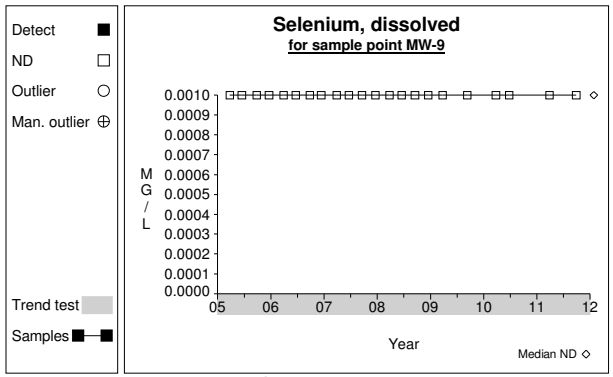
Graph 481



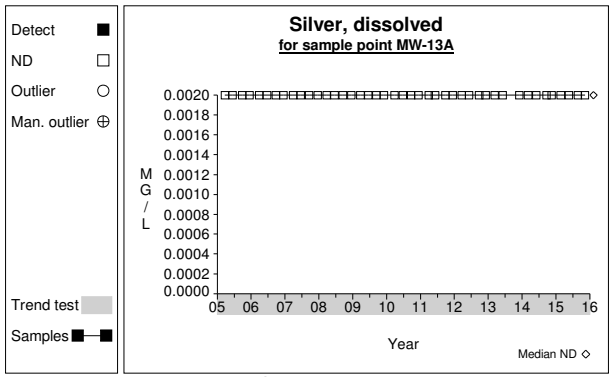
Graph 482



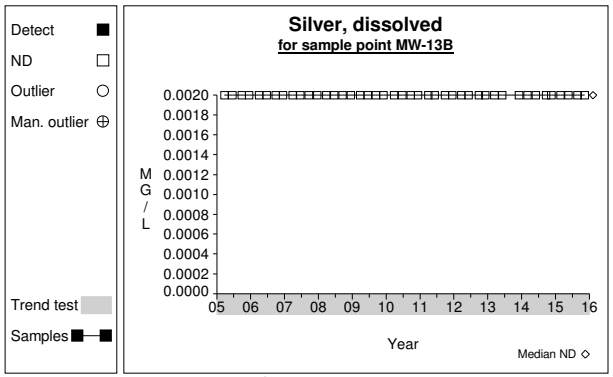
Graph 483



Graph 484

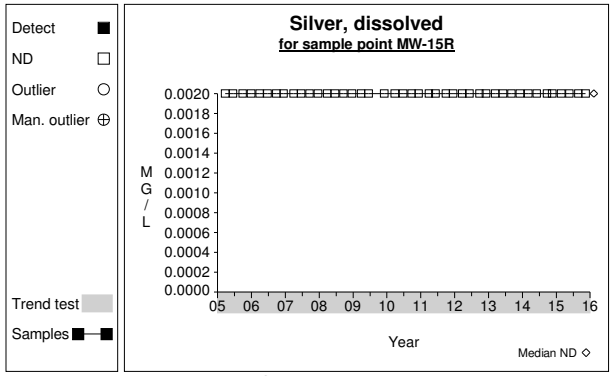


Graph 485

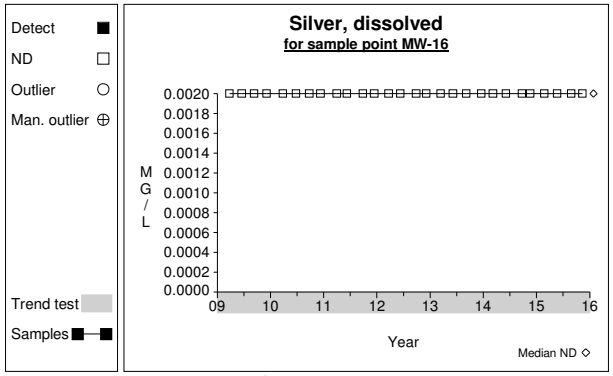


Graph 486

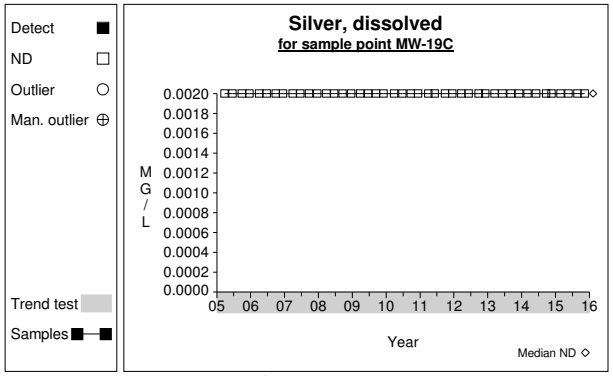
Time Series



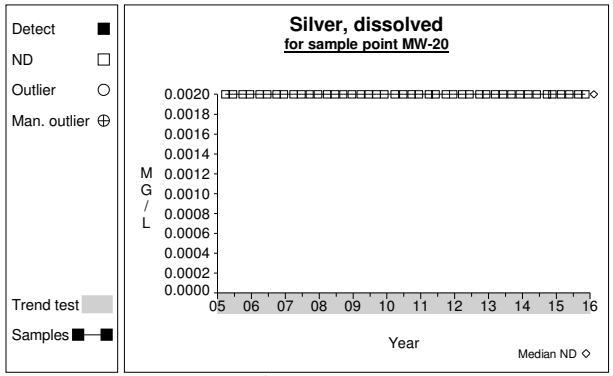
Graph 487



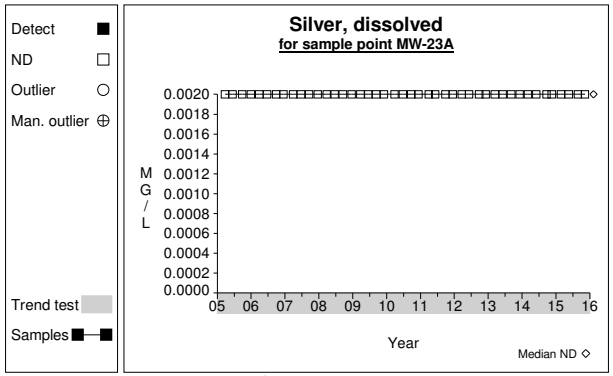
Graph 488



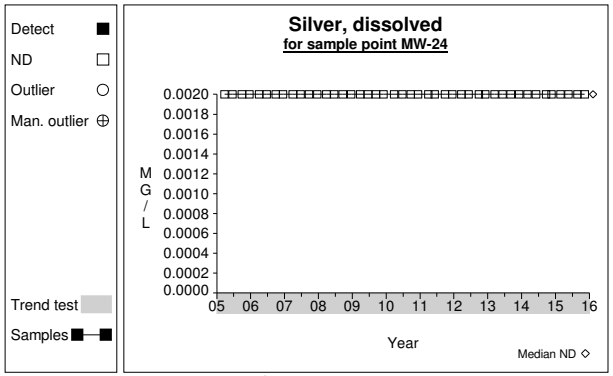
Graph 489



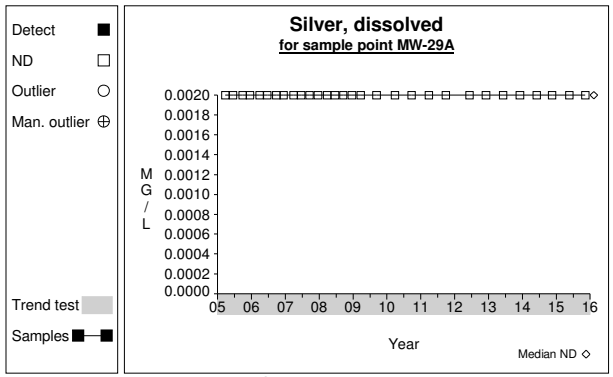
Graph 490



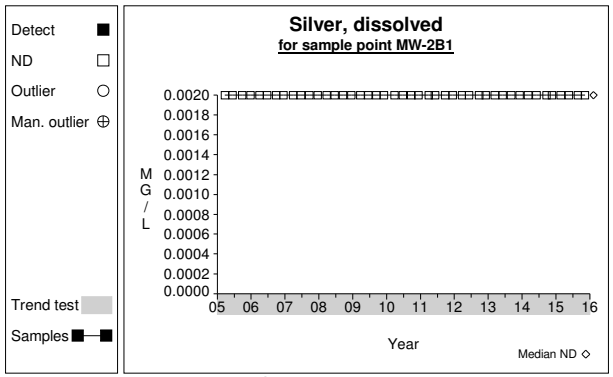
Graph 491



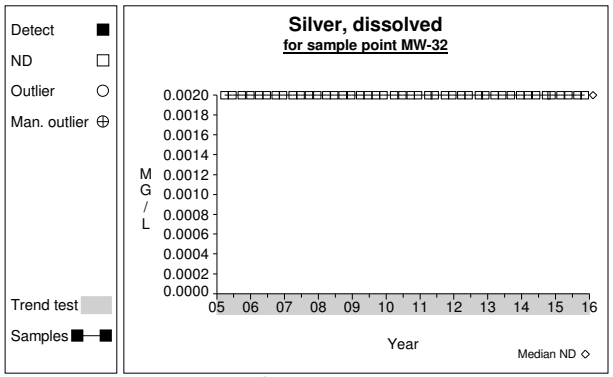
Graph 492



Graph 493

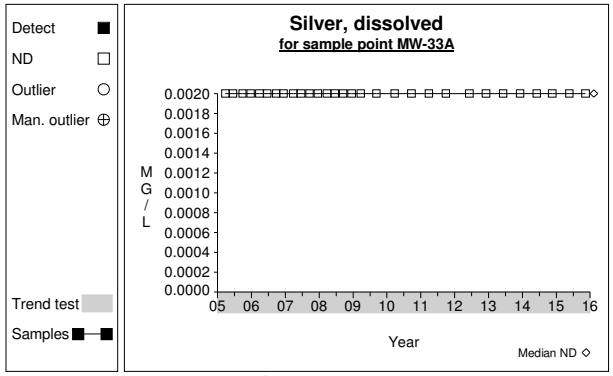


Graph 494

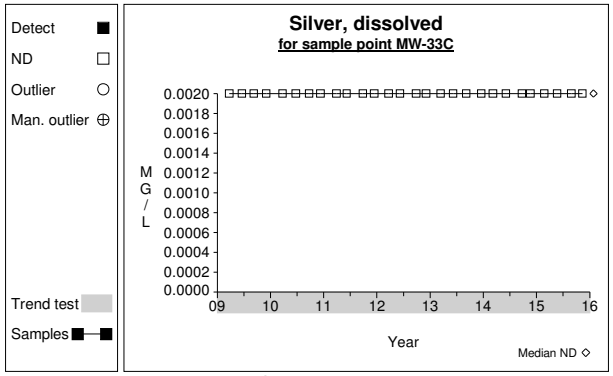


Graph 495

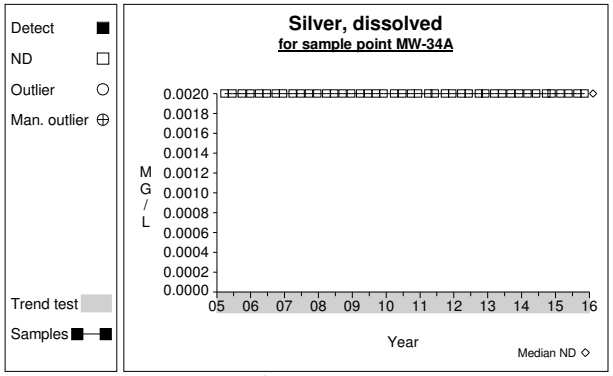
Time Series



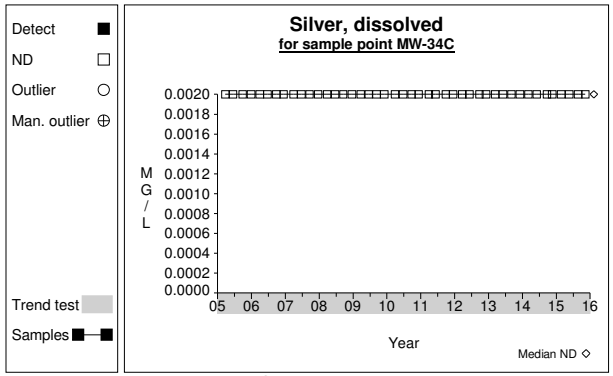
Graph 496



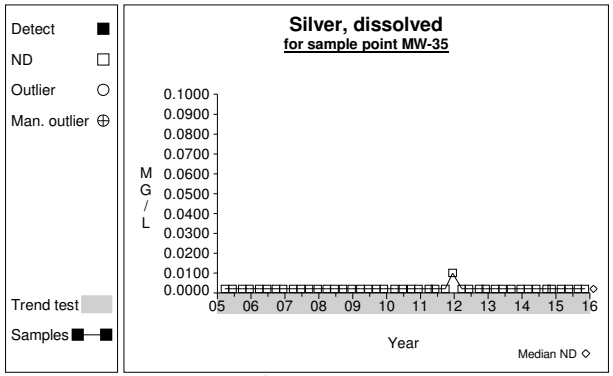
Graph 497



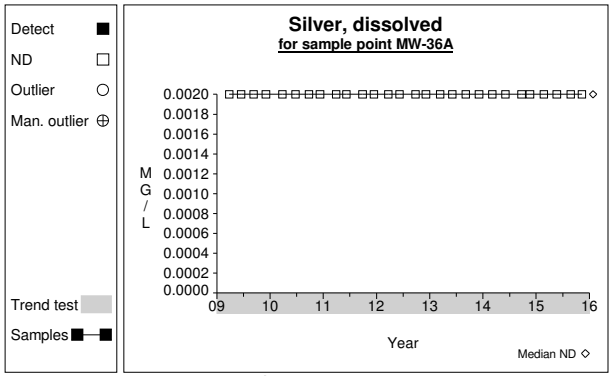
Graph 498



Graph 499



Graph 500



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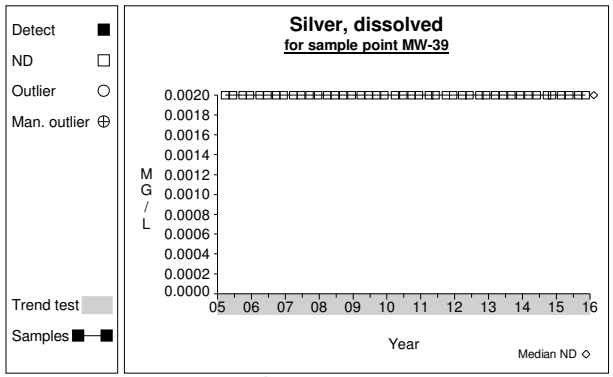
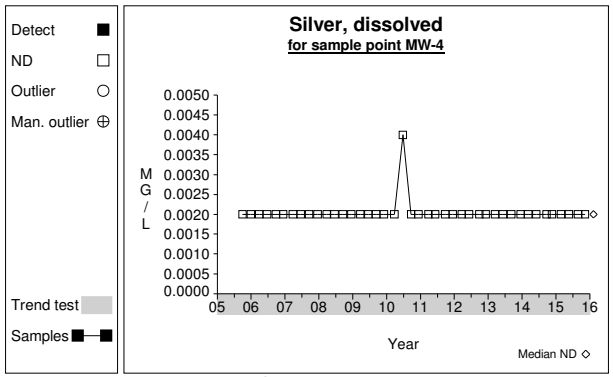
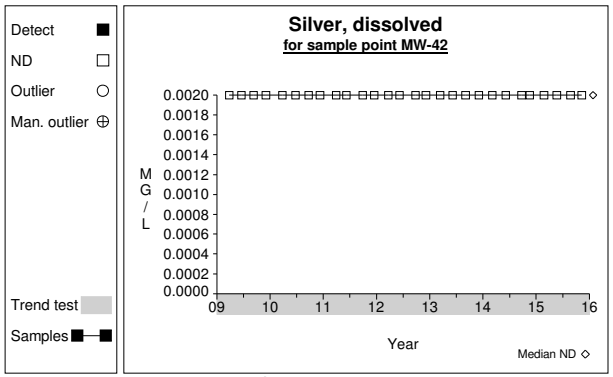


Graph 502

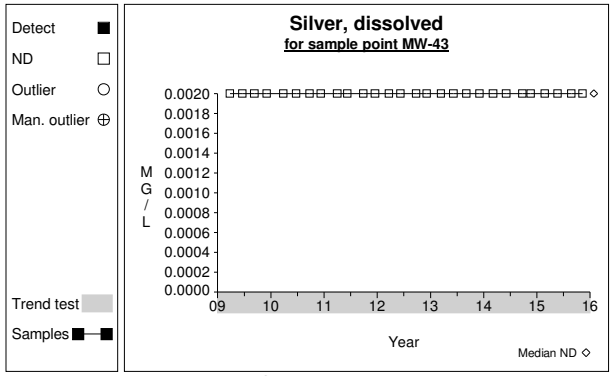


Graph 503

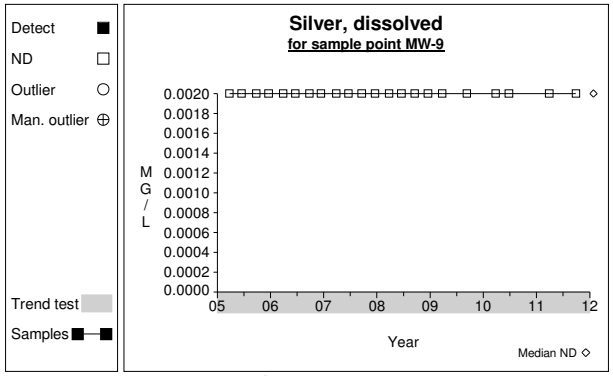


Graph 504

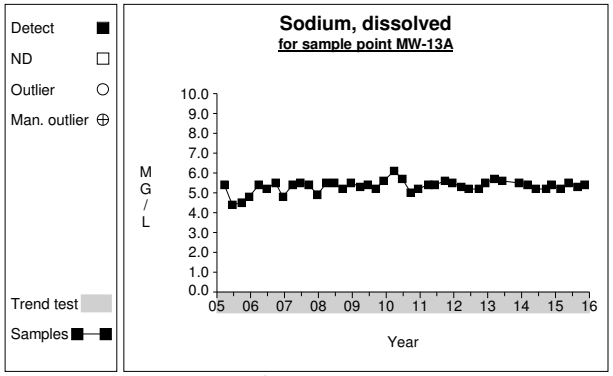
Time Series



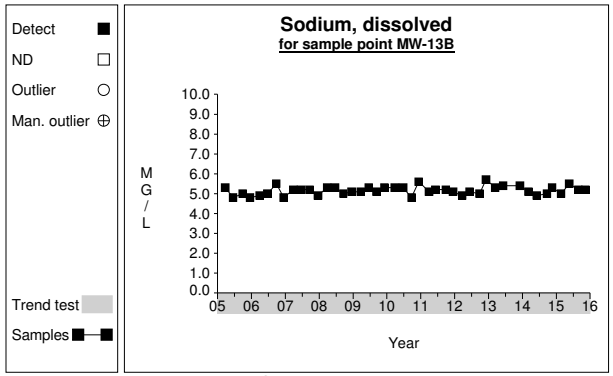
Graph 505



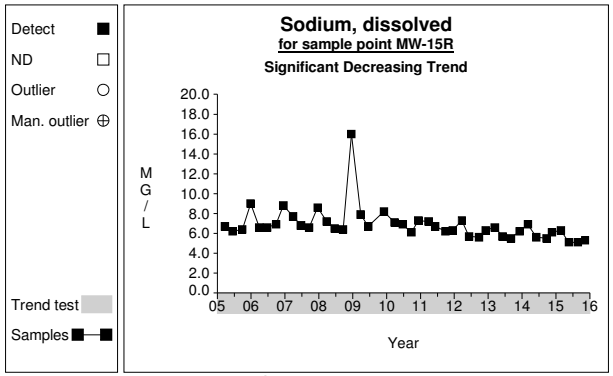
Graph 506



Graph 507



Graph 508



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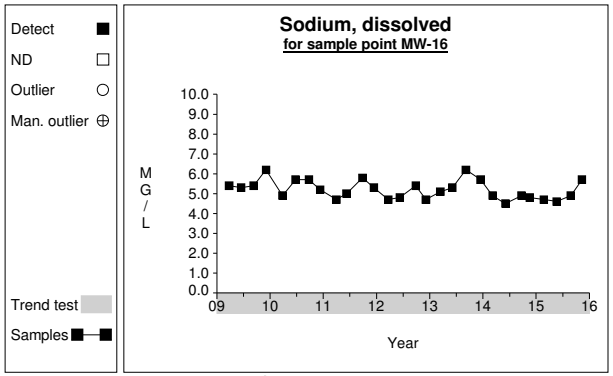
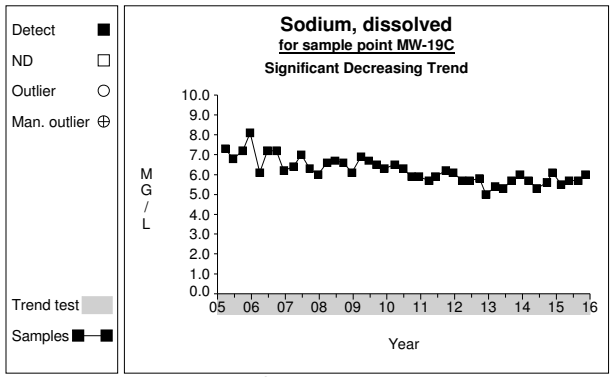
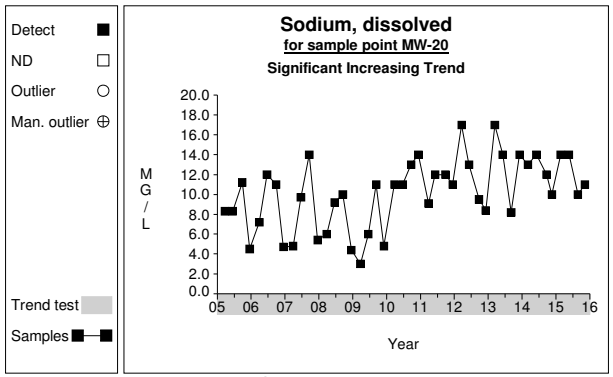


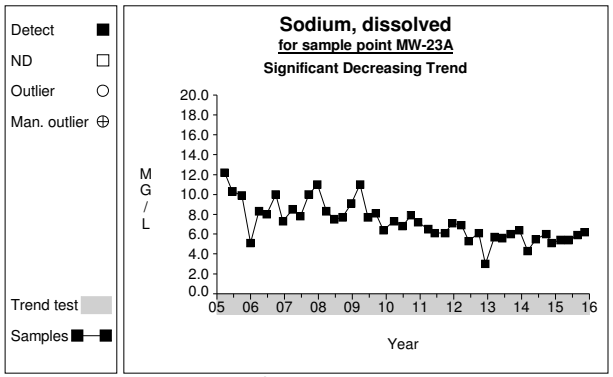
Graph 510



Graph 511

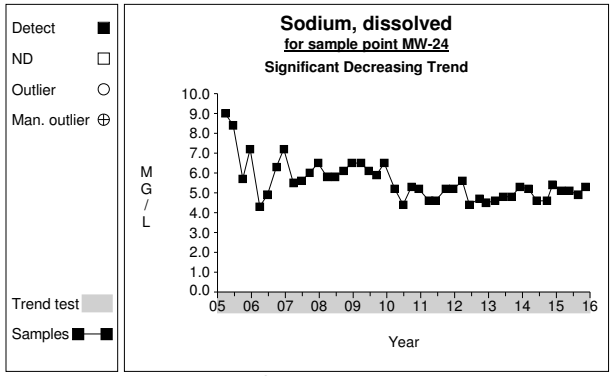


Graph 512

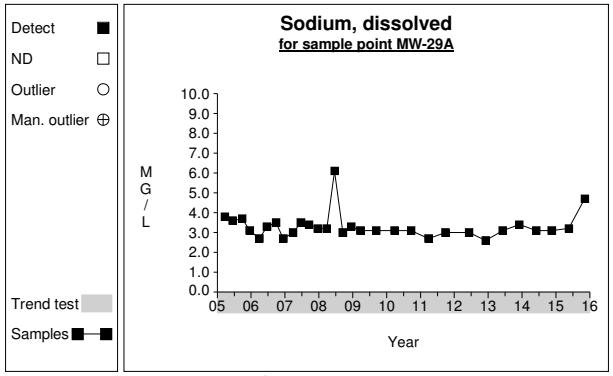


Graph 513

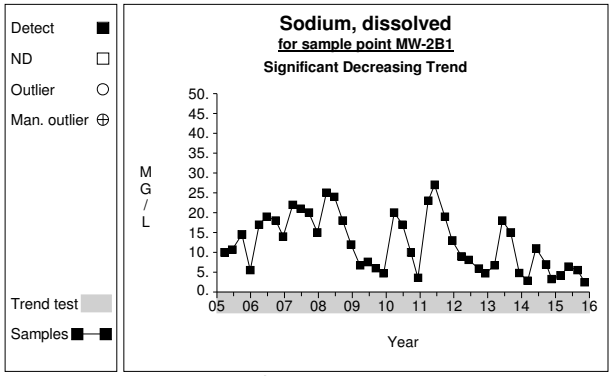
Time Series



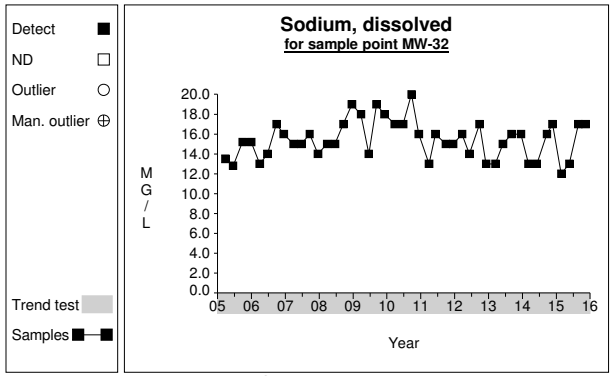
Graph 514



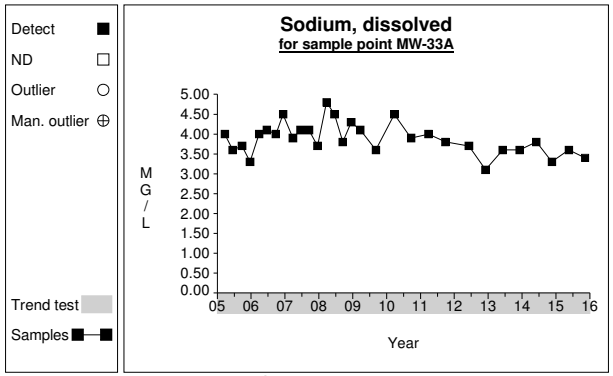
Graph 515



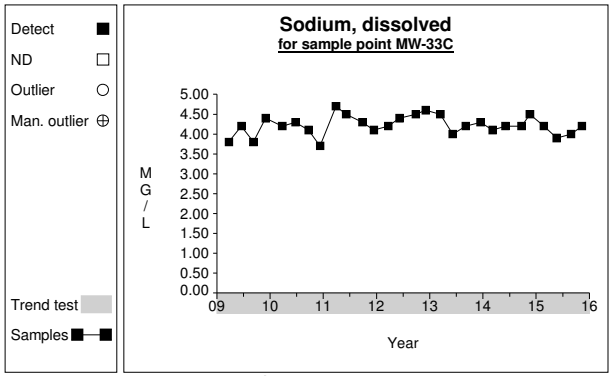
Graph 516



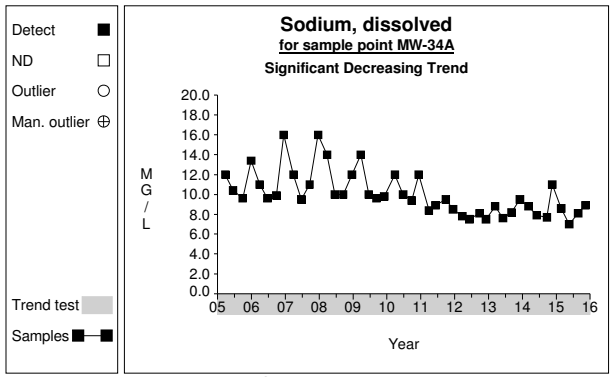
Graph 517



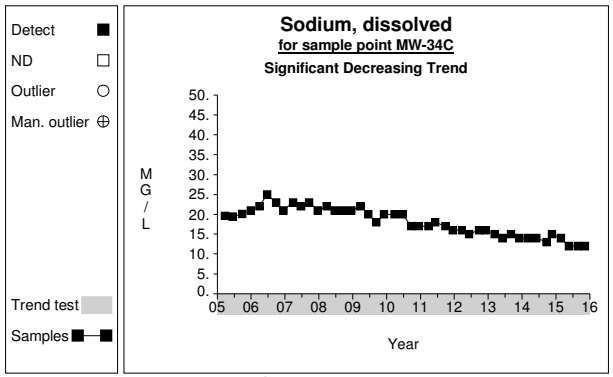
Graph 518



Graph 519



Graph 520



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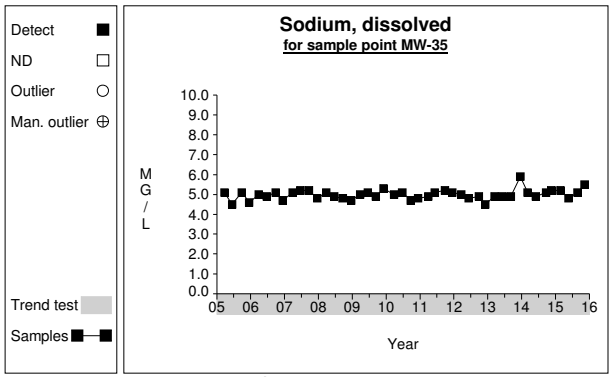
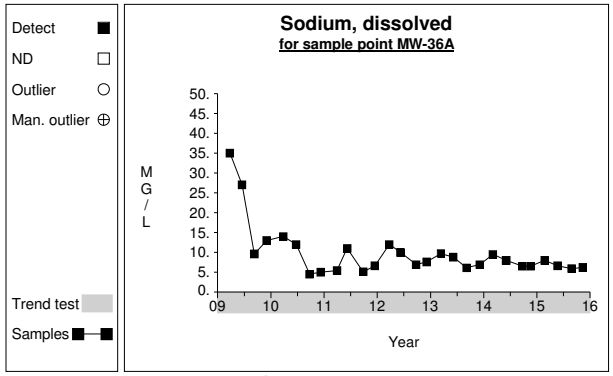
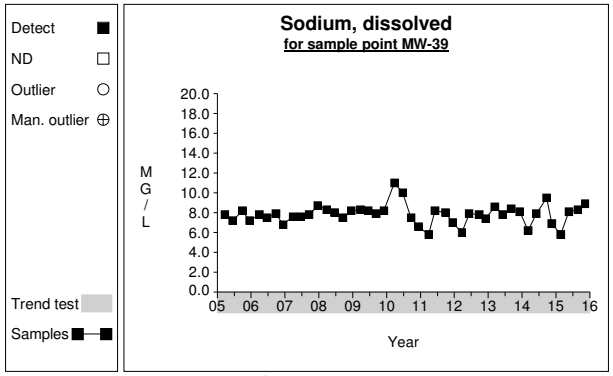


Graph 522

Time Series



Graph 523



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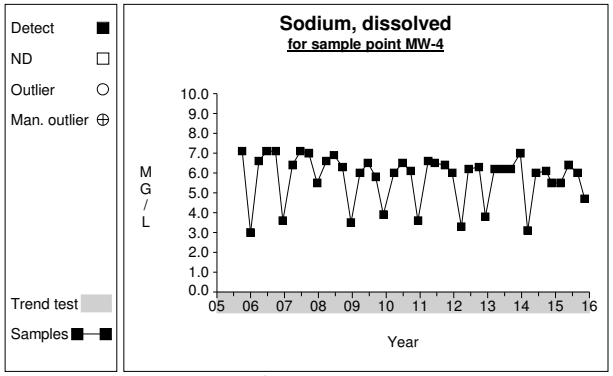

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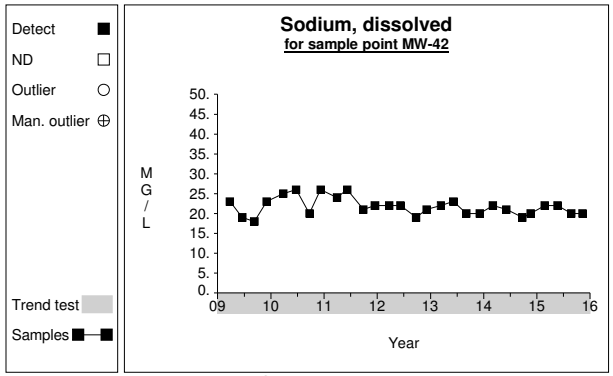

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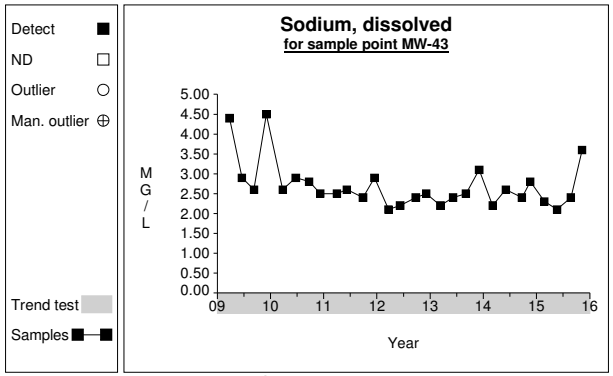

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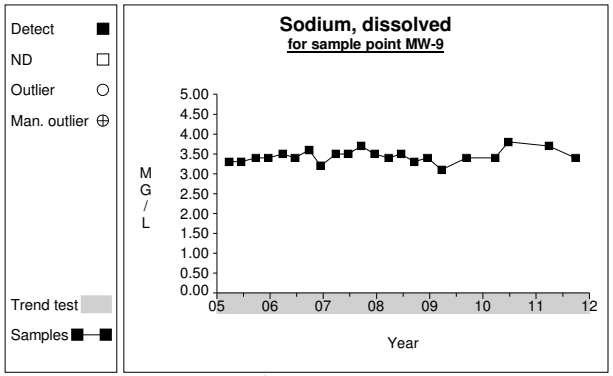

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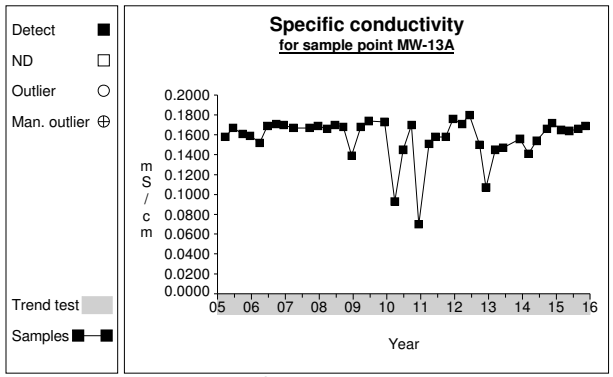

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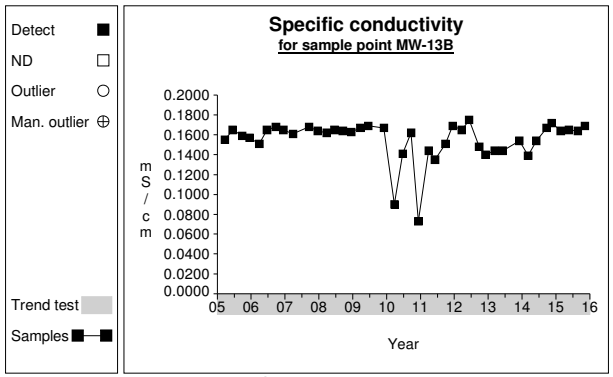

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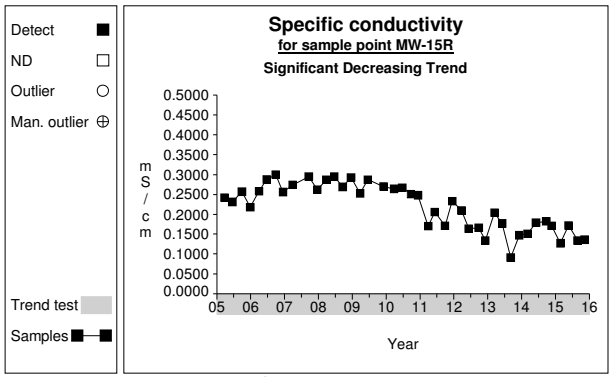
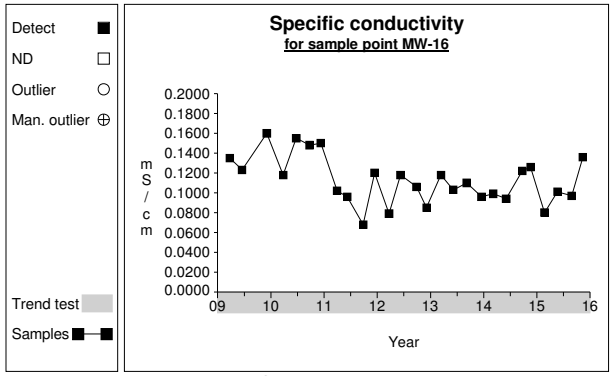


Graph 531

Time Series



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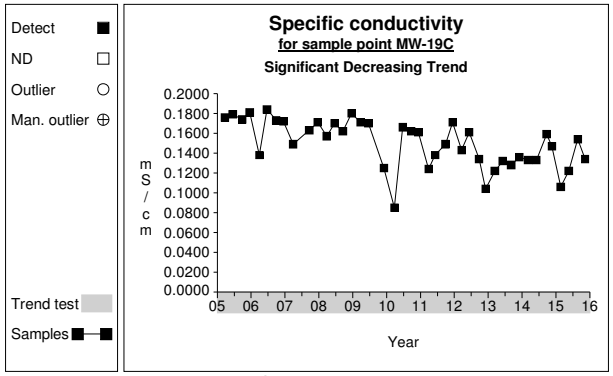

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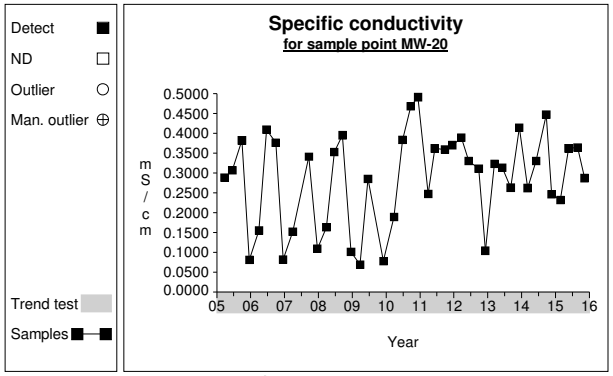

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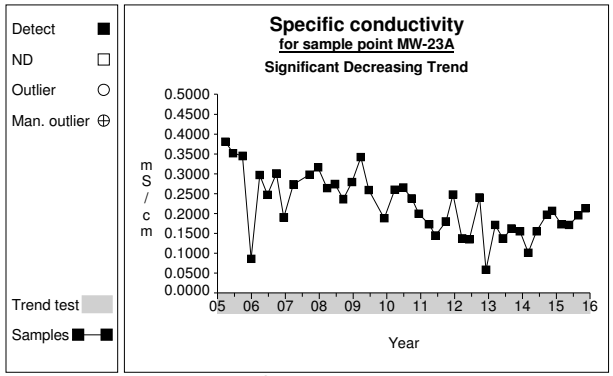
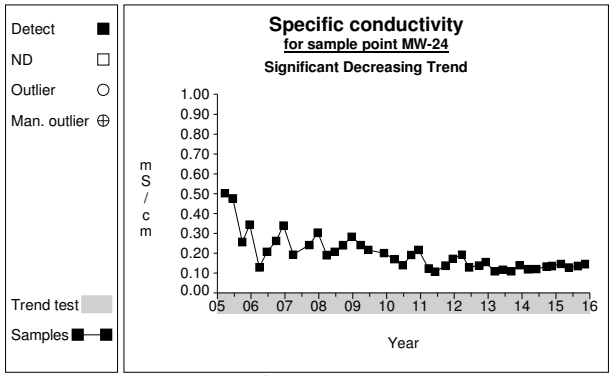
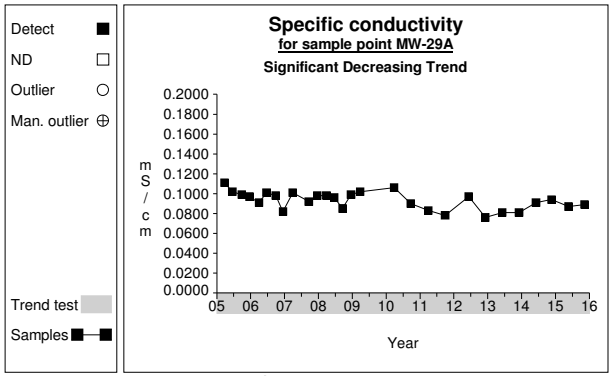


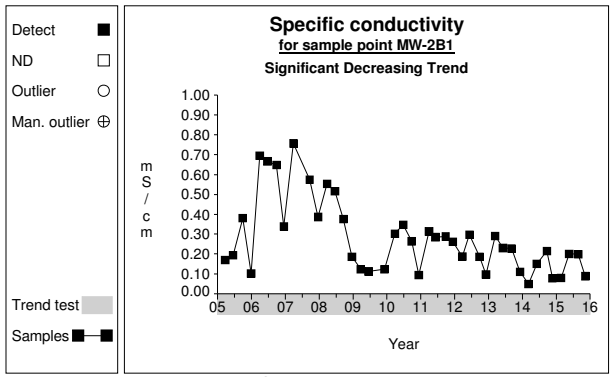
Graph 535



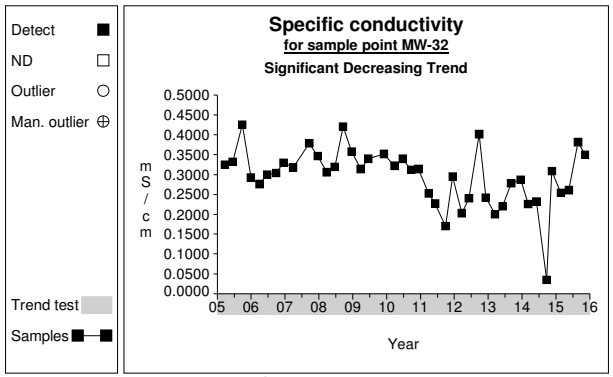
Graph 536



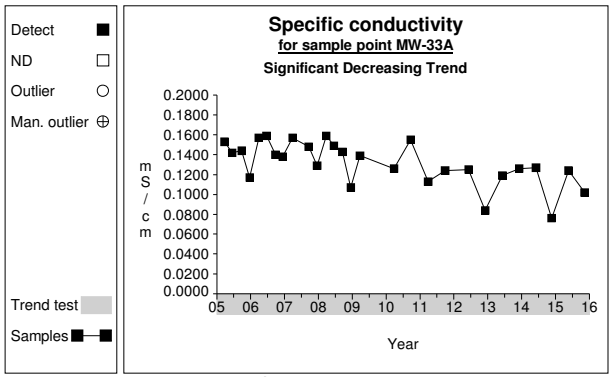
Graph 537



Graph 538

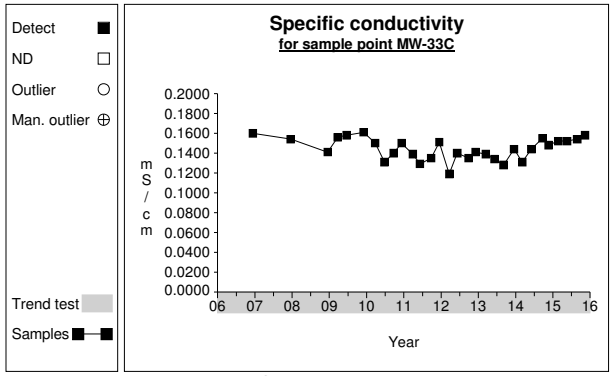


Graph 539

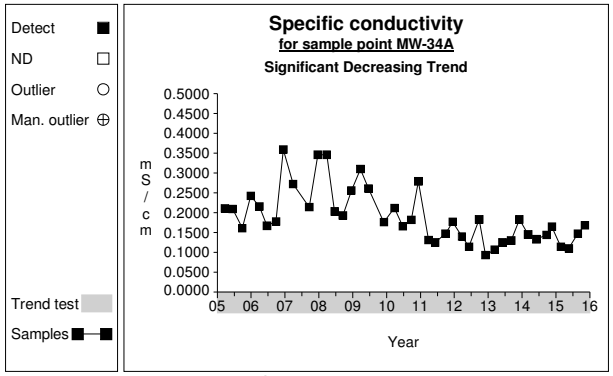


Graph 540

Time Series



Graph 541



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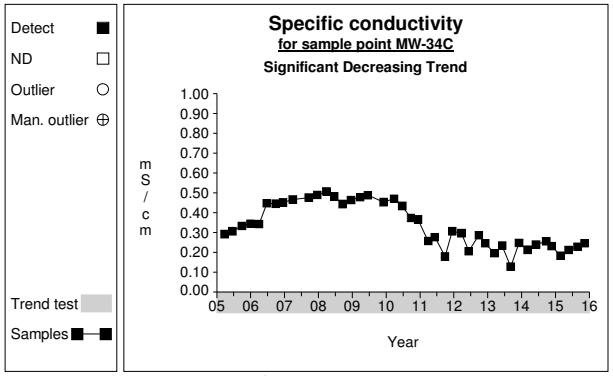

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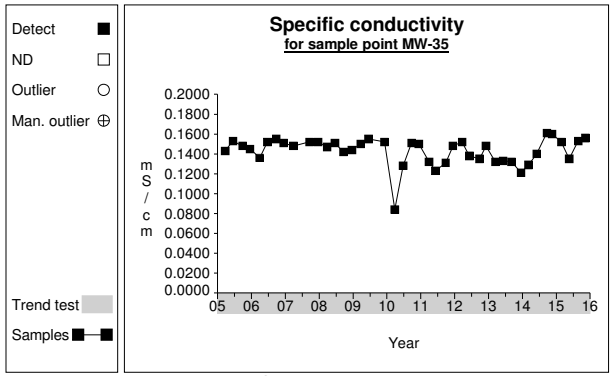

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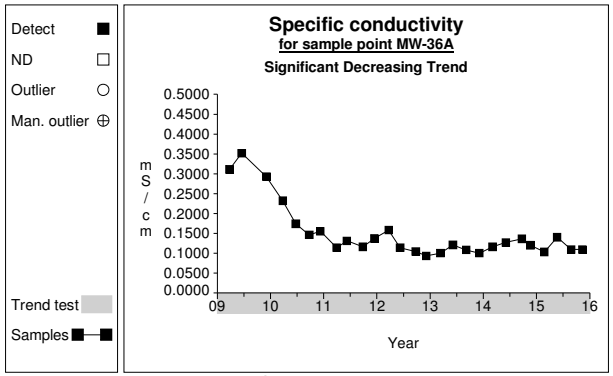

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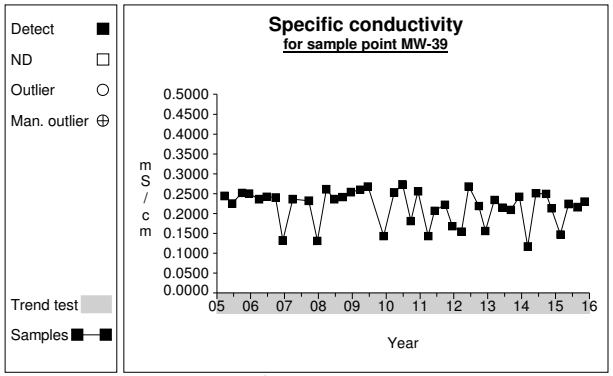

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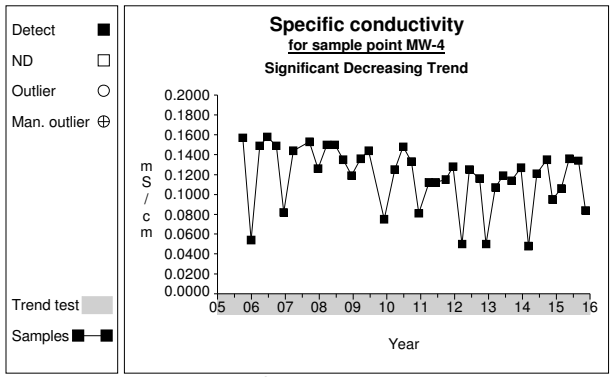
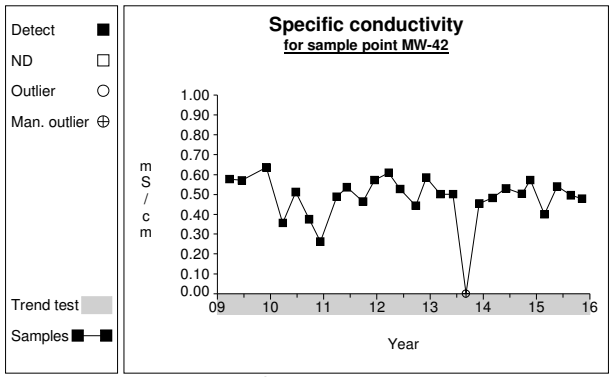
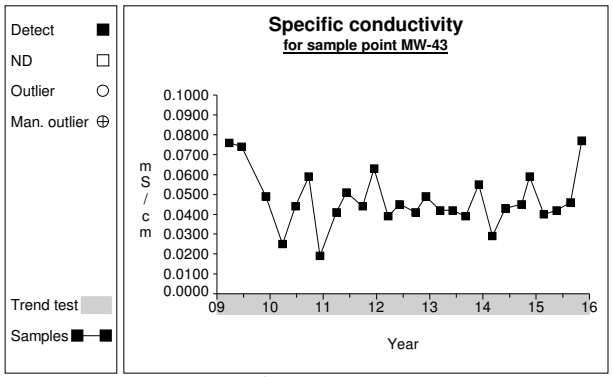


Graph 547

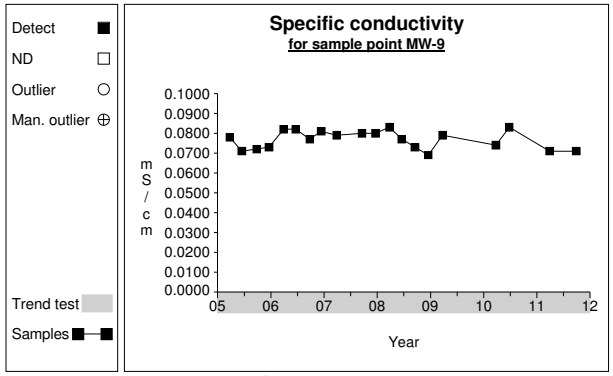


Graph 548

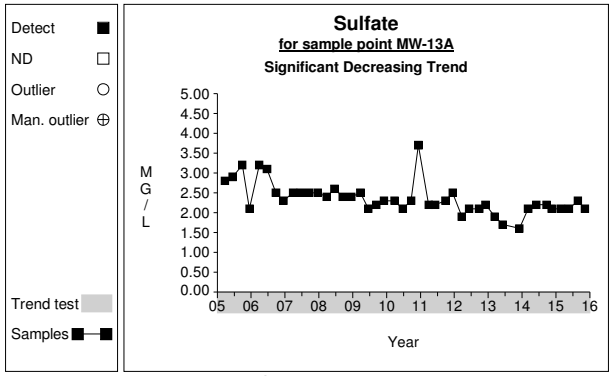


Graph 549

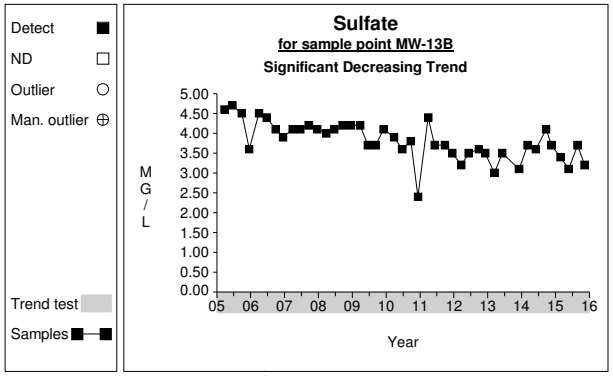
Time Series



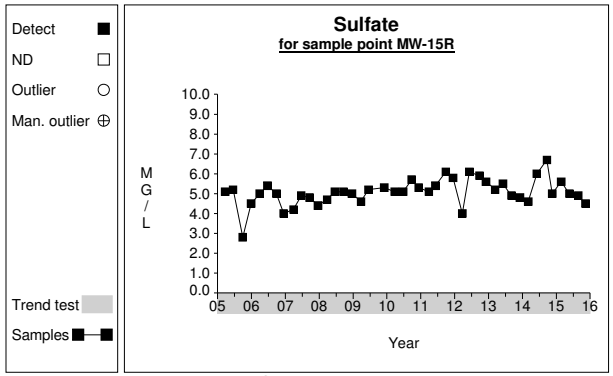
Graph 550



Graph 551



Graph 552



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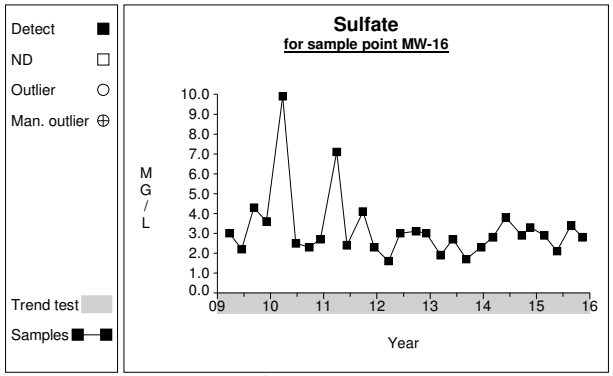
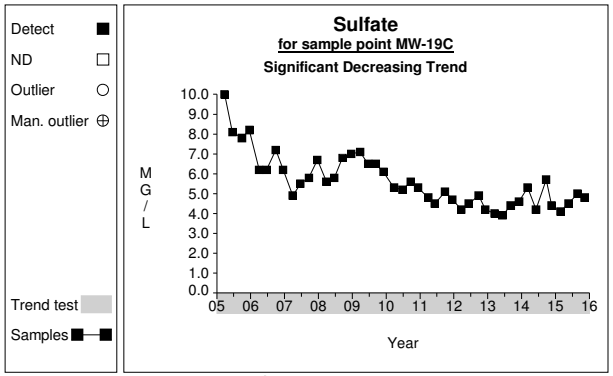


Graph 554



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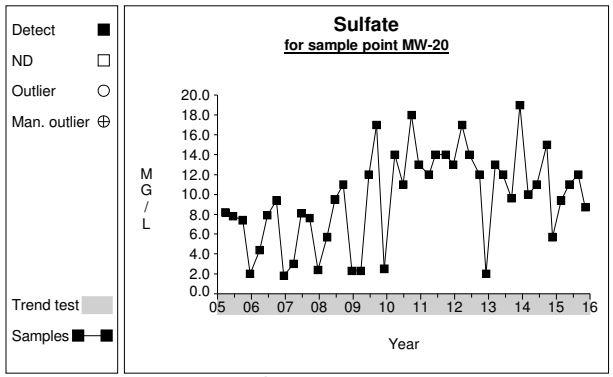
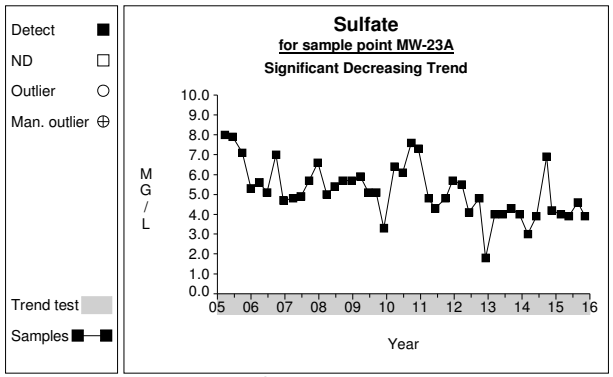
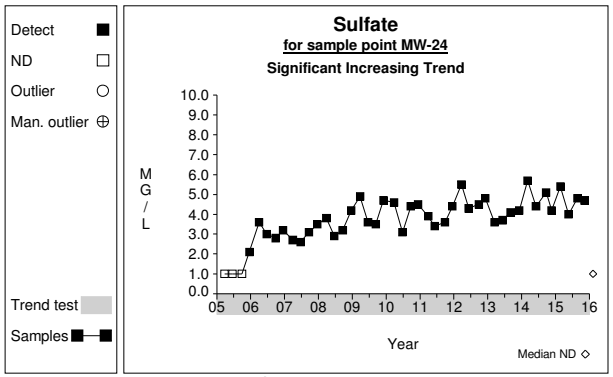


Graph 556

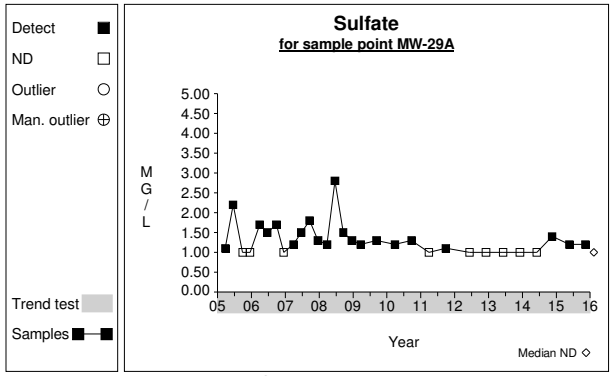


Graph 557

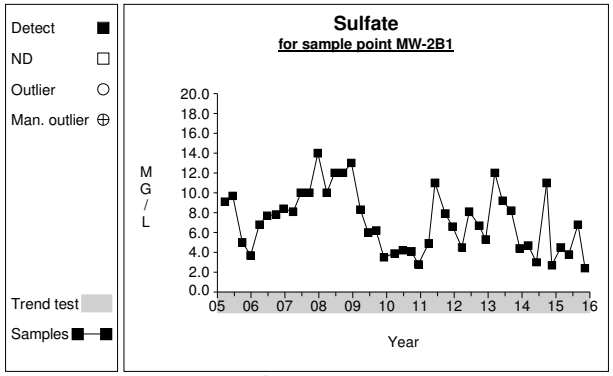


Graph 558

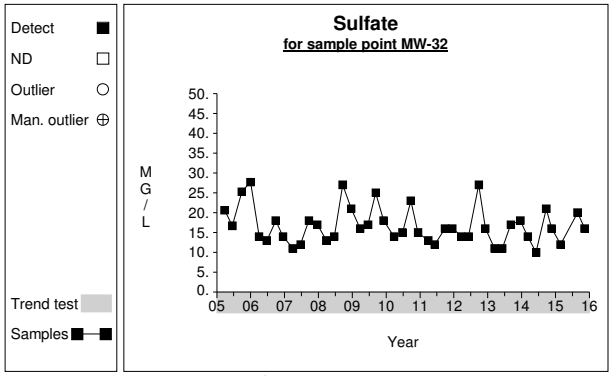
Time Series



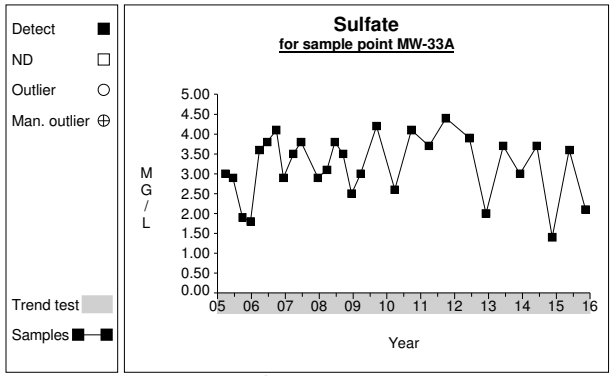
Graph 559



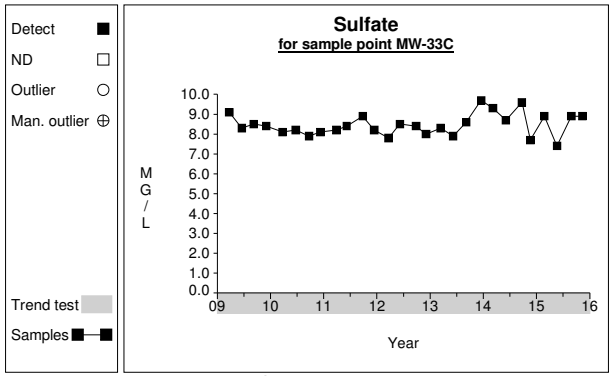
Graph 560



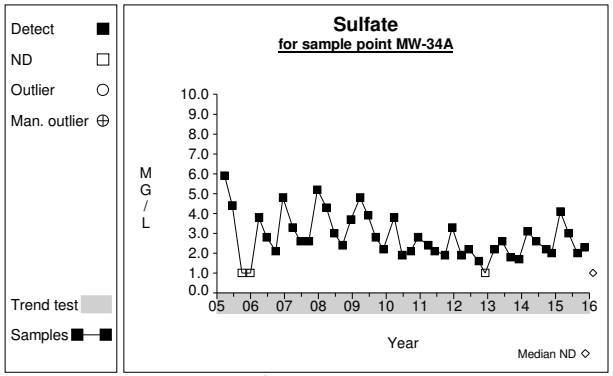
Graph 561



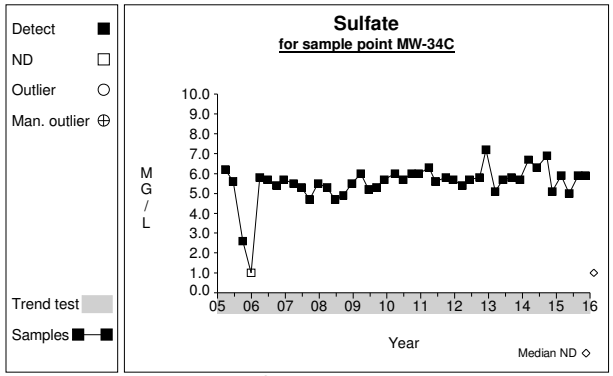
Graph 562



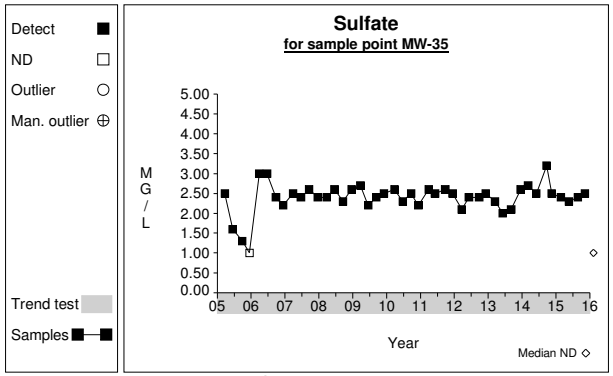
Graph 563



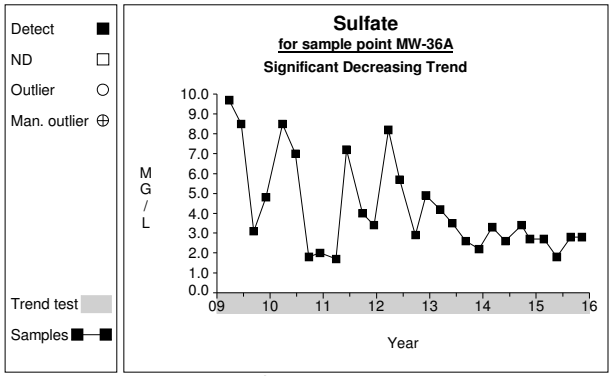
Graph 564



Graph 565

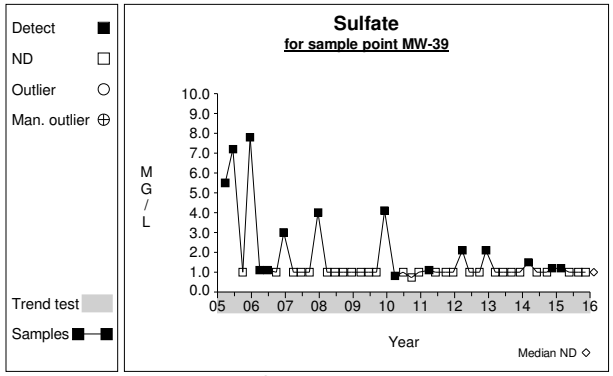


Graph 566

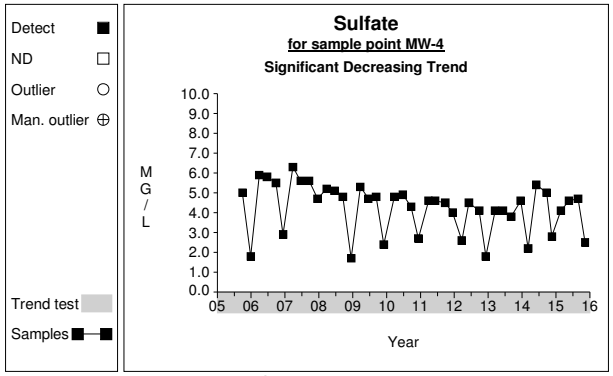


Graph 567

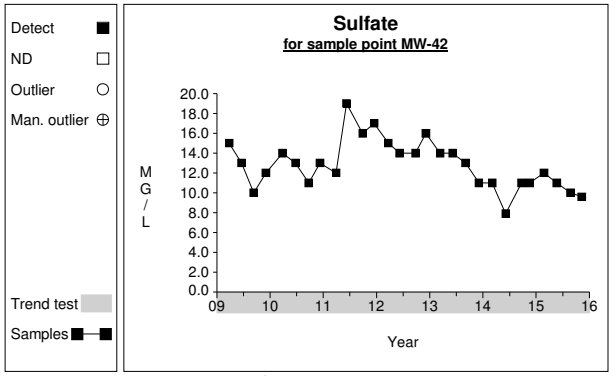
Time Series



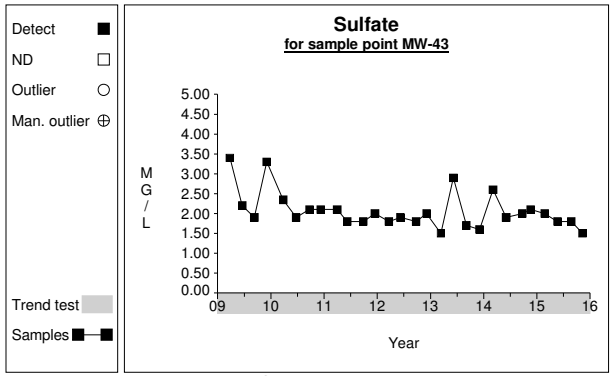
Graph 568



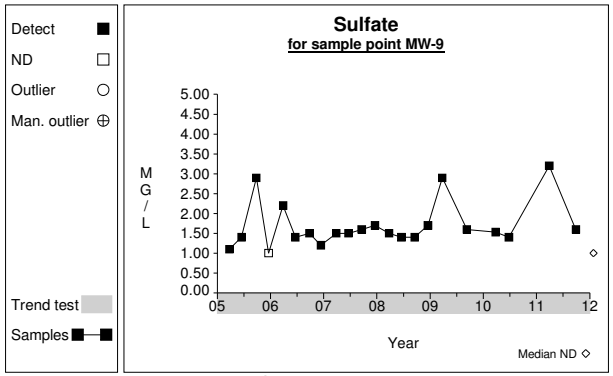
Graph 569



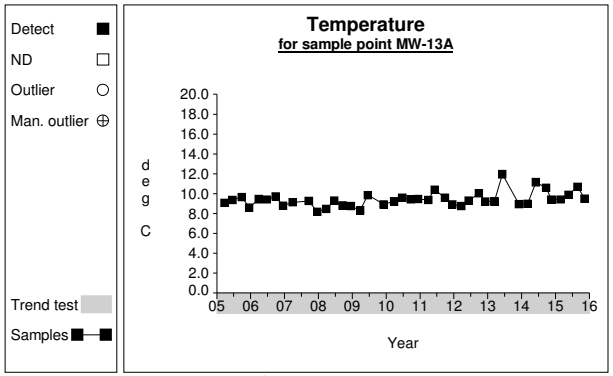
Graph 570



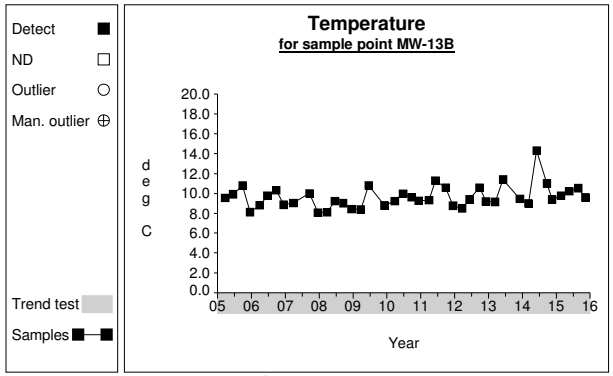
Graph 571



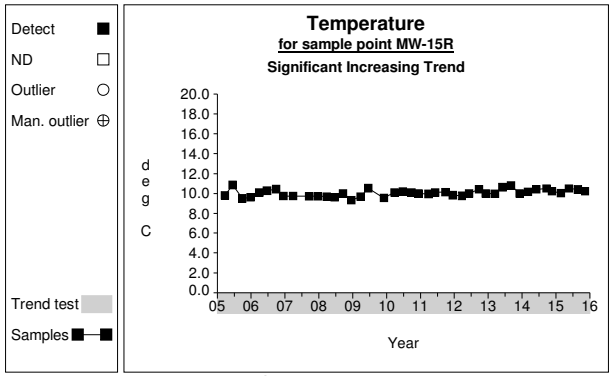
Graph 572



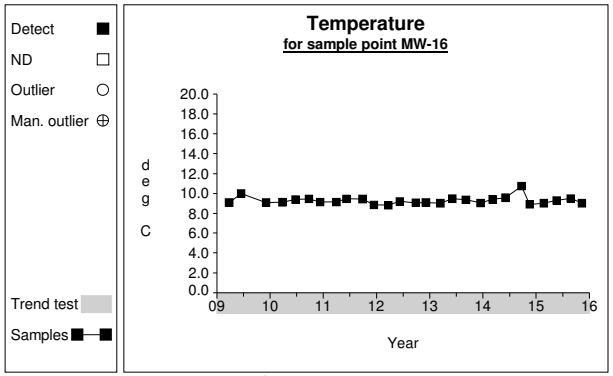
Graph 573



Graph 574

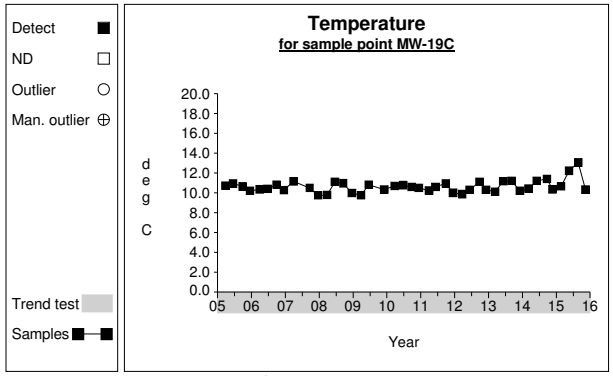


Graph 575

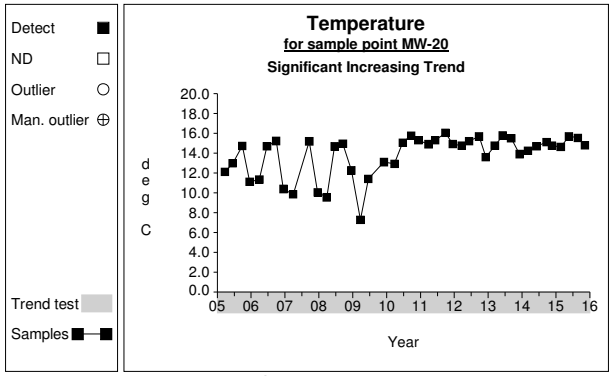


Graph 576

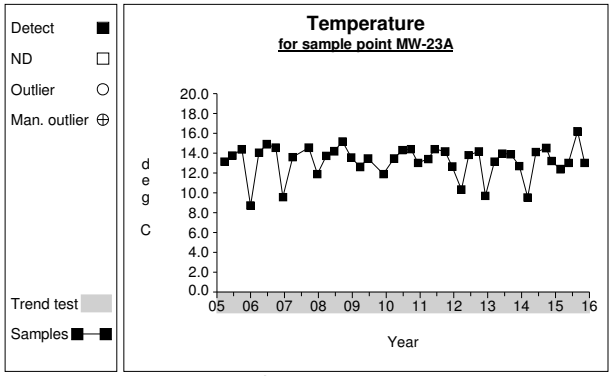
Time Series



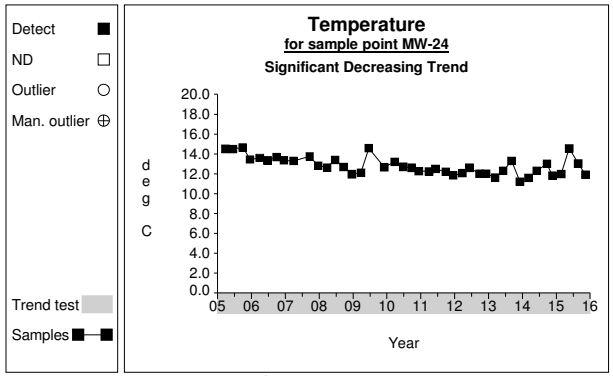
Graph 577



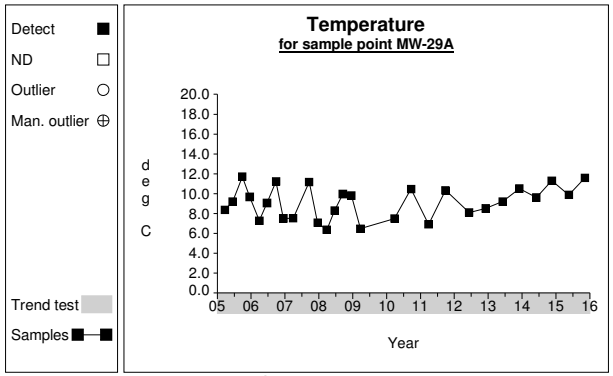
Graph 578



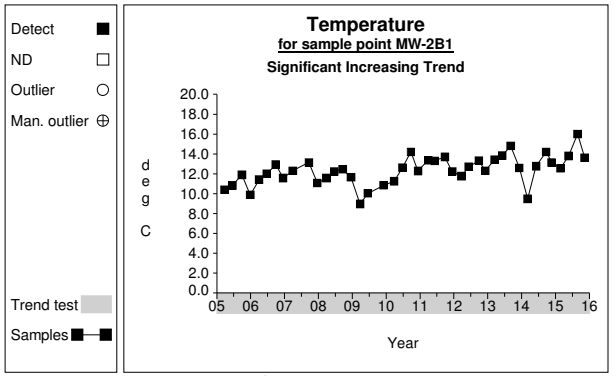
Graph 579



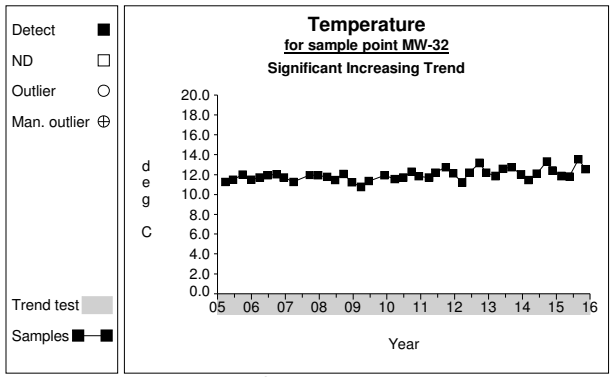
Graph 580



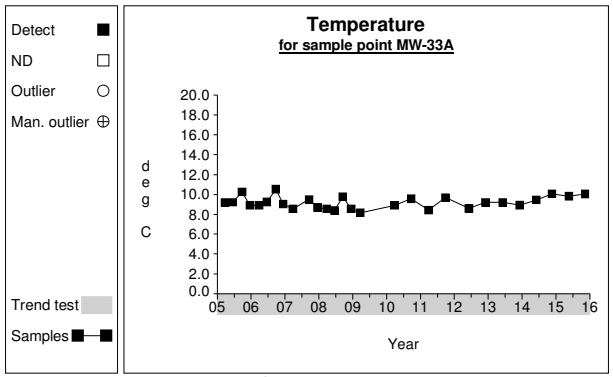
Graph 581



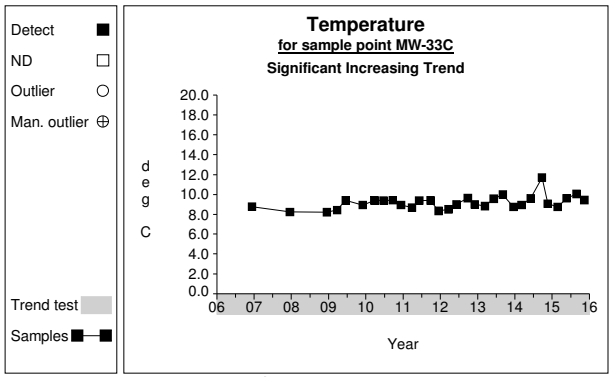
Graph 582



Graph 583

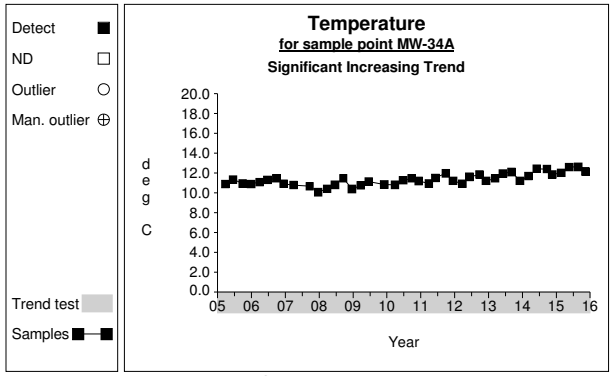


Graph 584

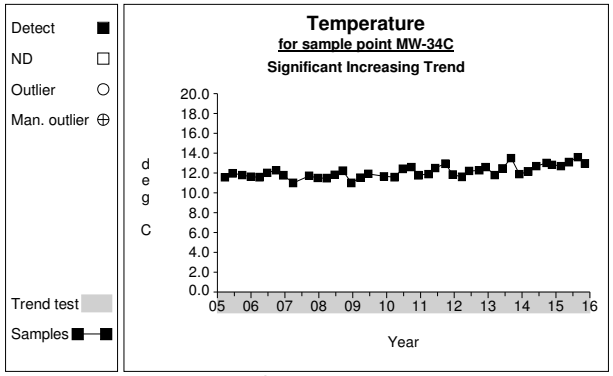


Graph 585

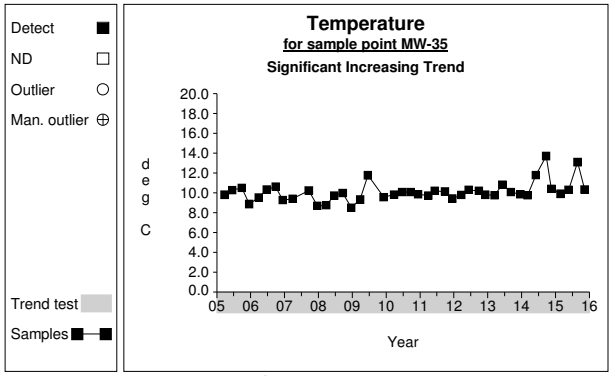
Time Series



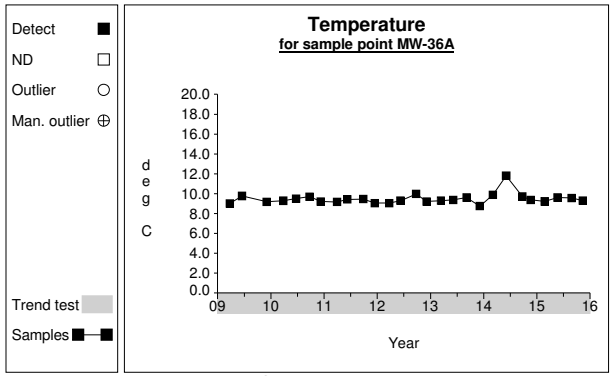
Graph 586



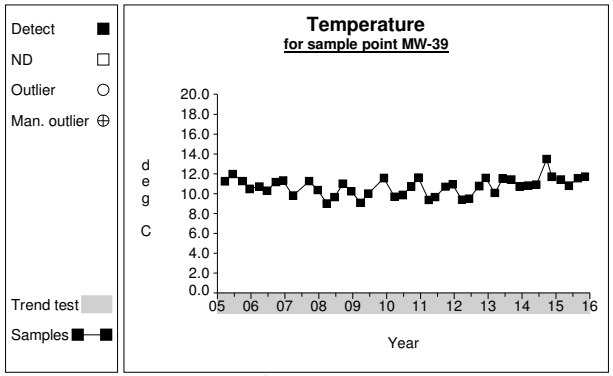
Graph 587



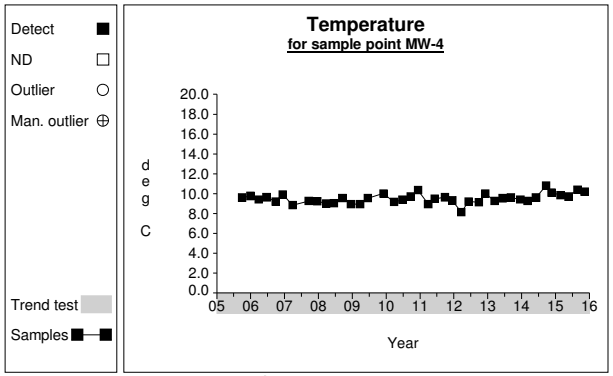
Graph 588



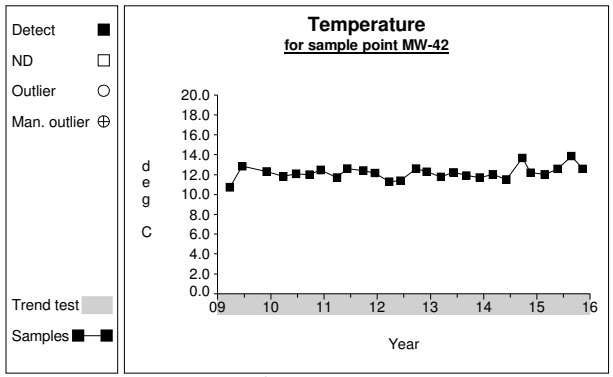
Graph 589



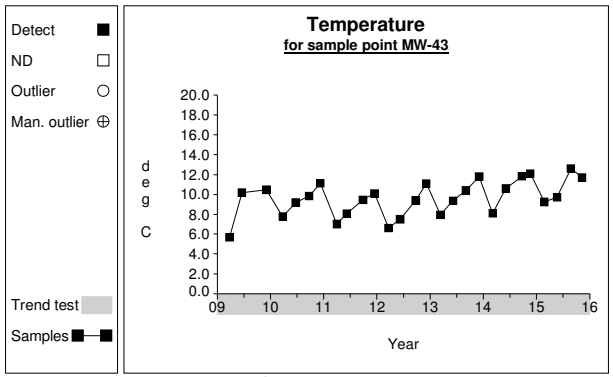
Graph 590



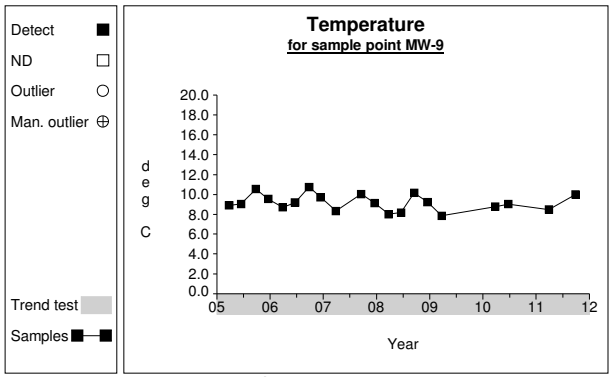
Graph 591



Graph 592

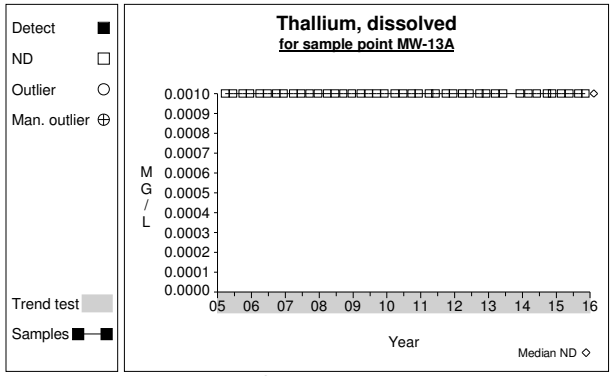


Graph 593

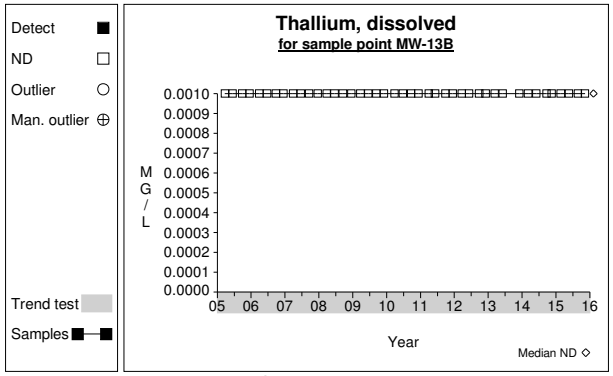


Graph 594

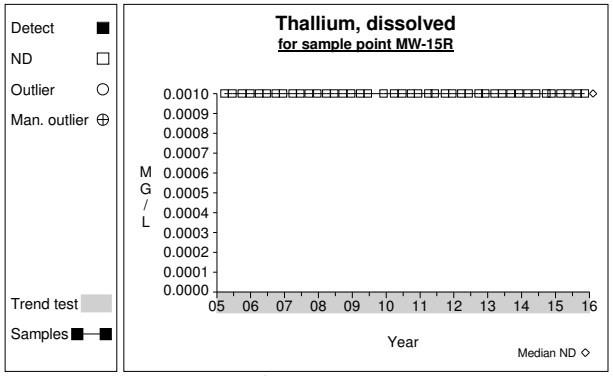
Time Series



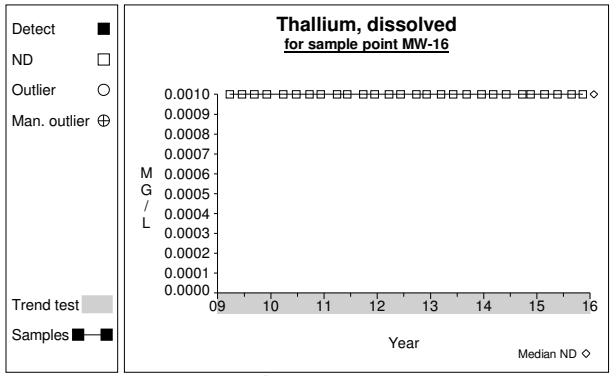
Graph 595



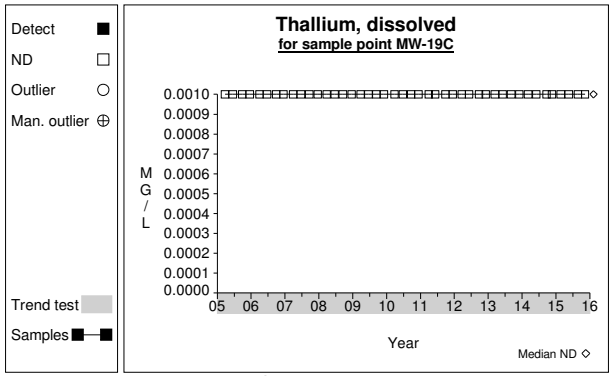
Graph 596



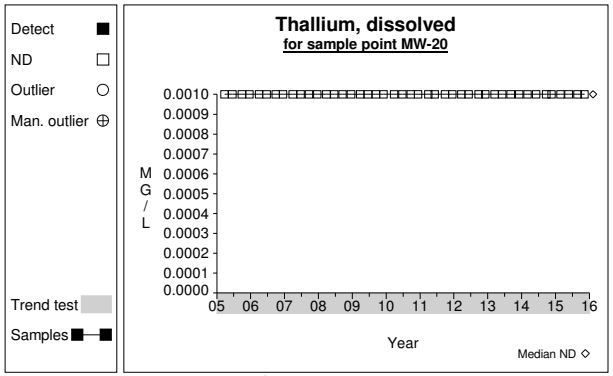
Graph 597



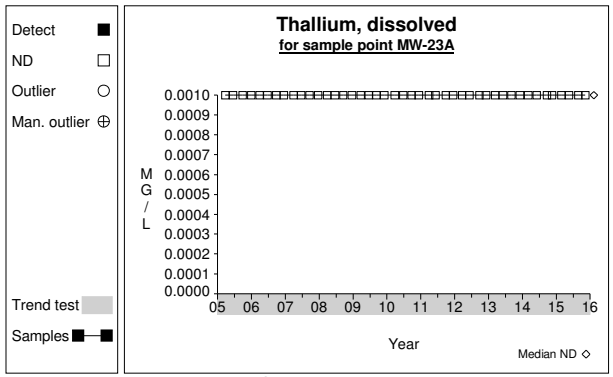
Graph 598



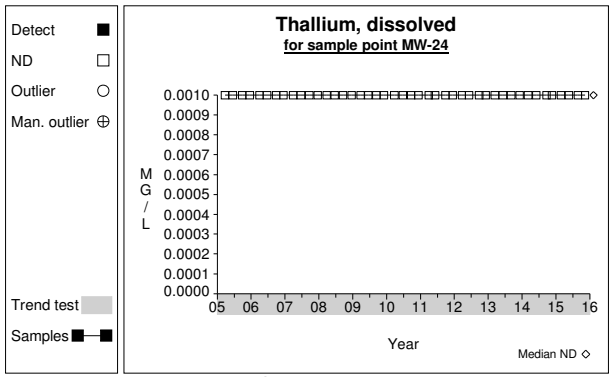
Graph 599



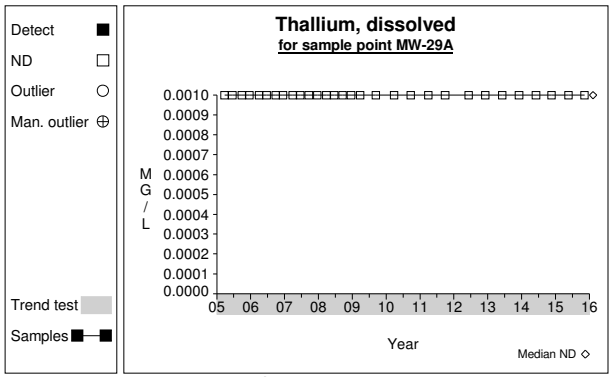
Graph 600



Graph 601

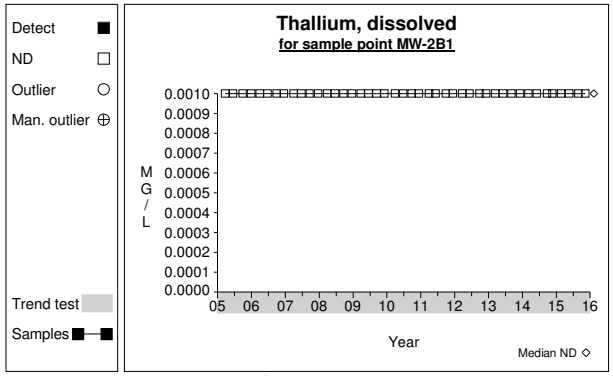


Graph 602

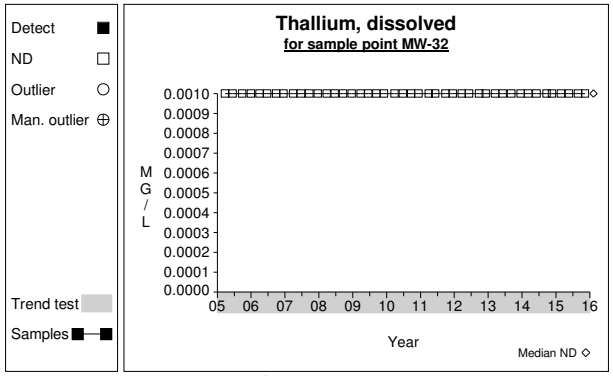


Graph 603

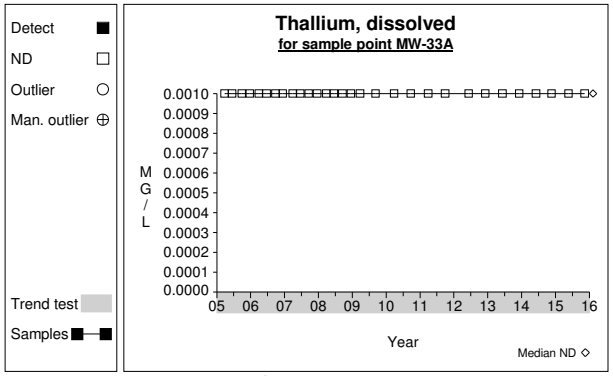
Time Series



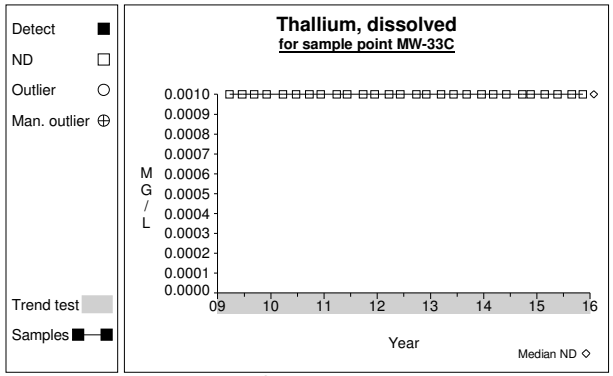
Graph 604



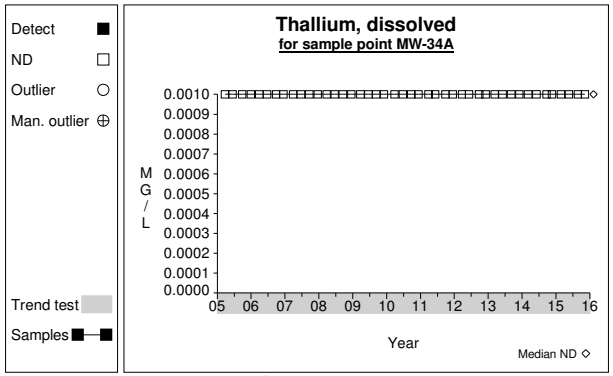
Graph 605



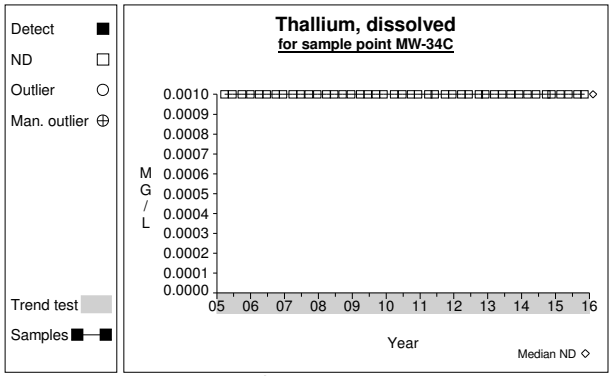
Graph 606



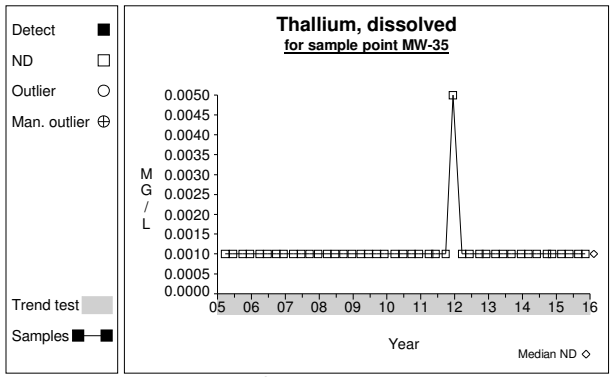
Graph 607



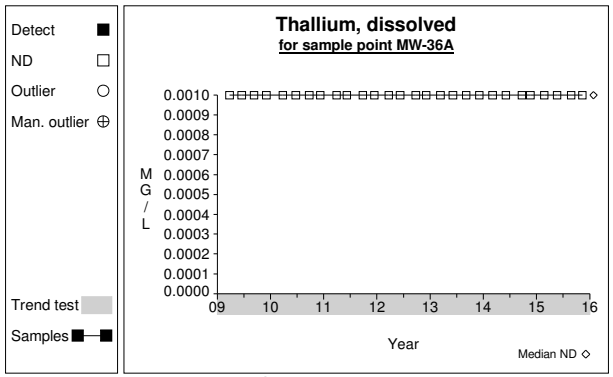
Graph 608



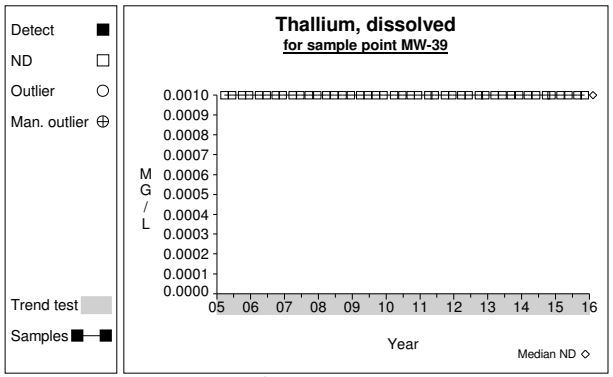
Graph 609



Graph 610

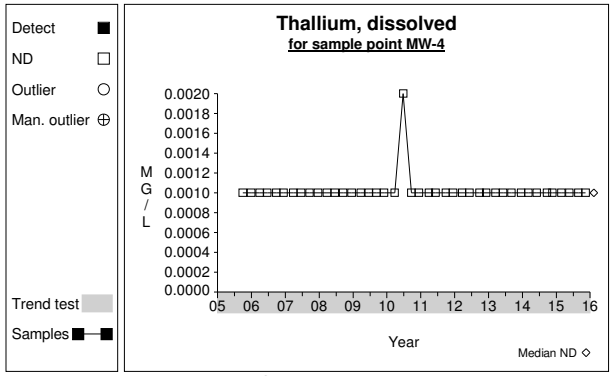


Graph 611

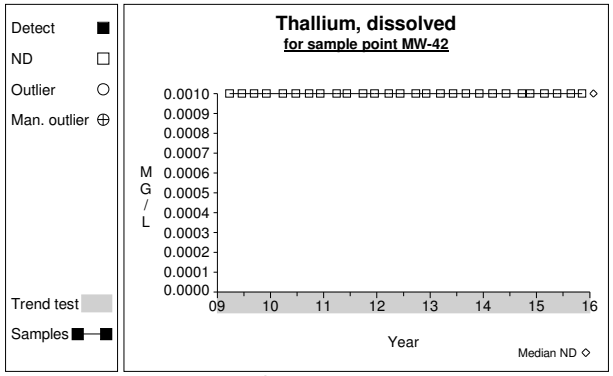


Graph 612

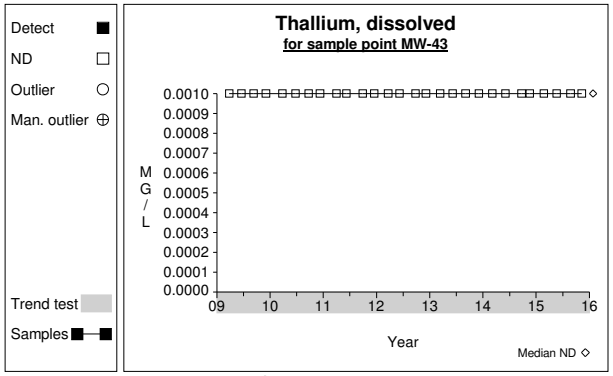
Time Series



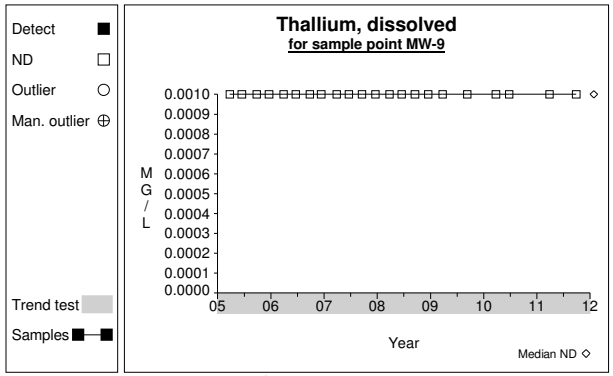
Graph 613



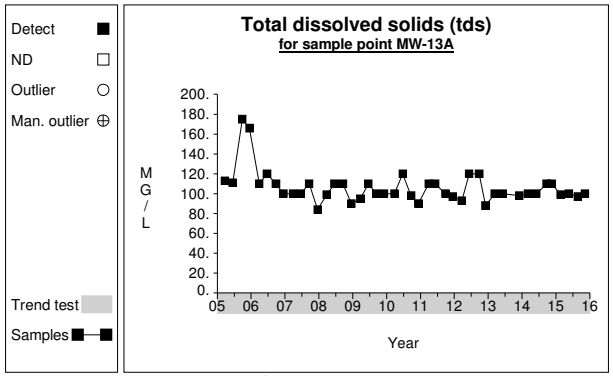
Graph 614



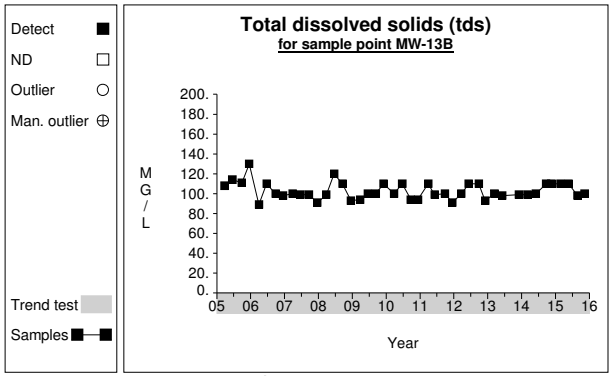
Graph 615



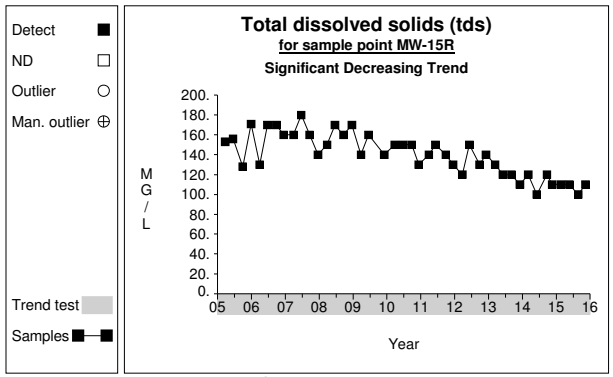
Graph 616



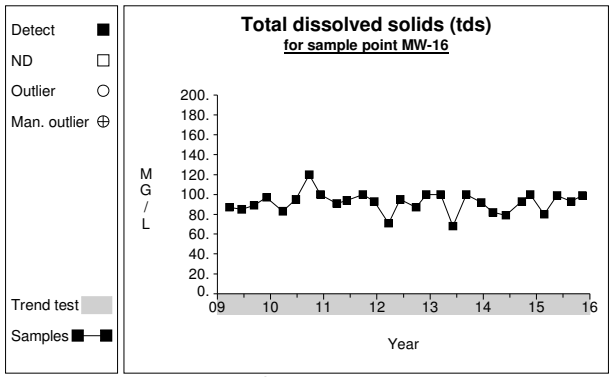
Graph 617



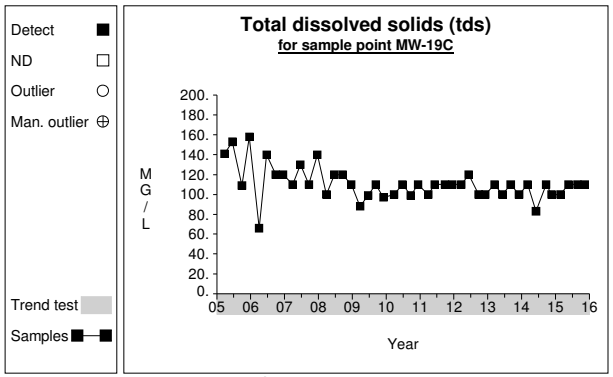
Graph 618



Graph 619

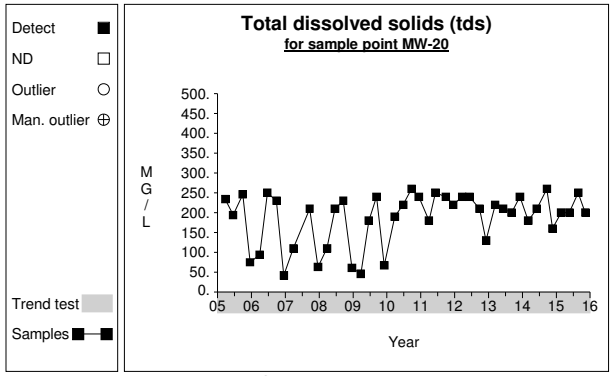


Graph 620

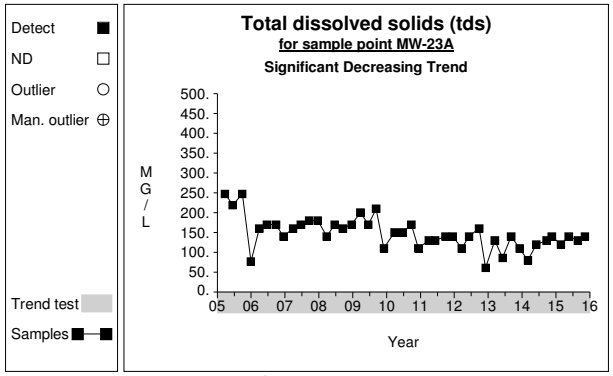


Graph 621

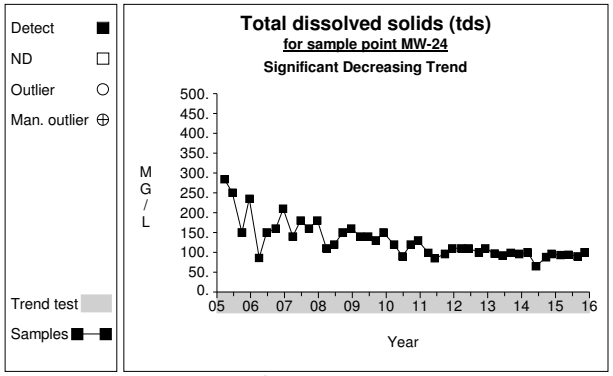
Time Series



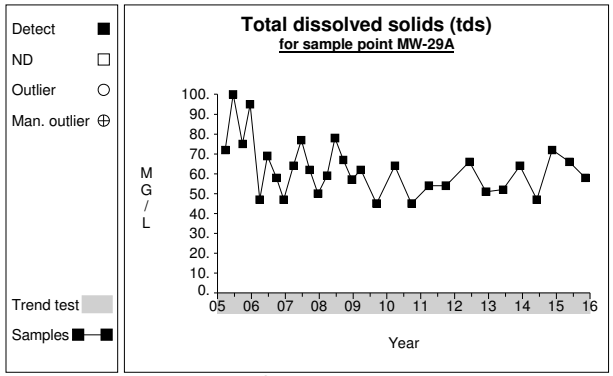
Graph 622



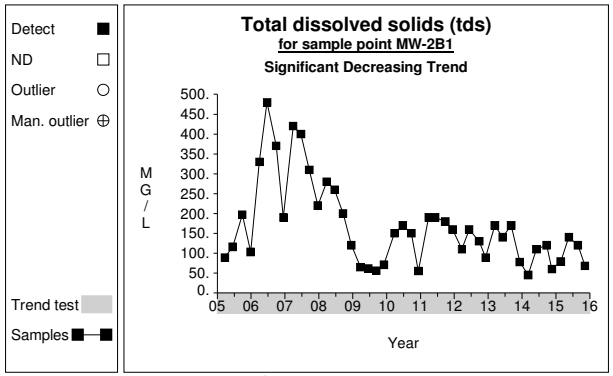
Graph 623



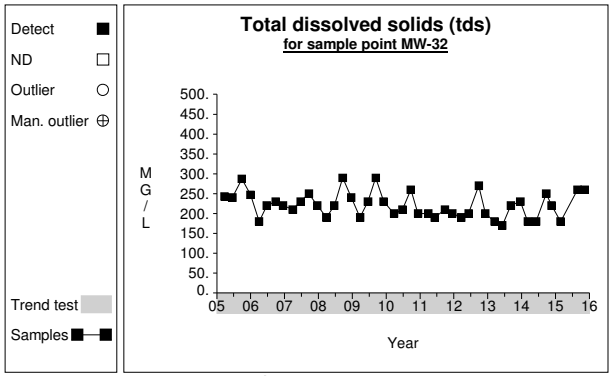
Graph 624



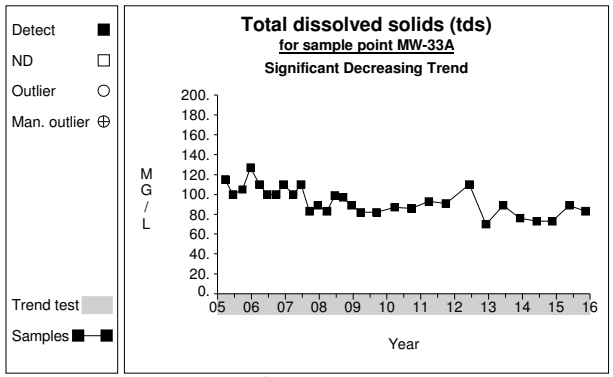
Graph 625



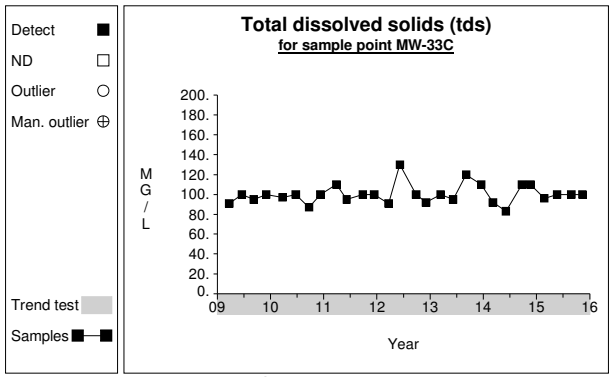
Graph 626



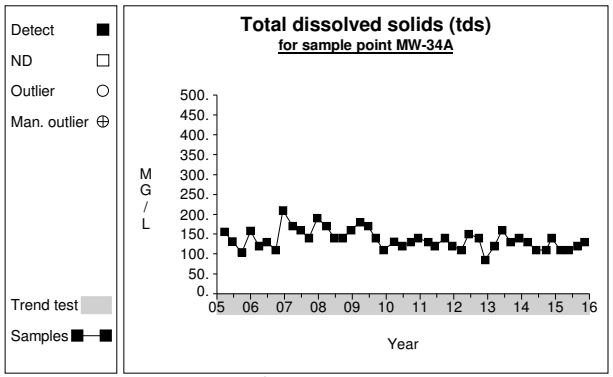
Graph 627



Graph 628

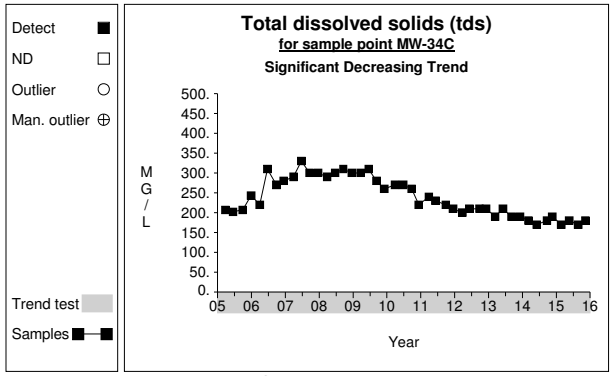


Graph 629

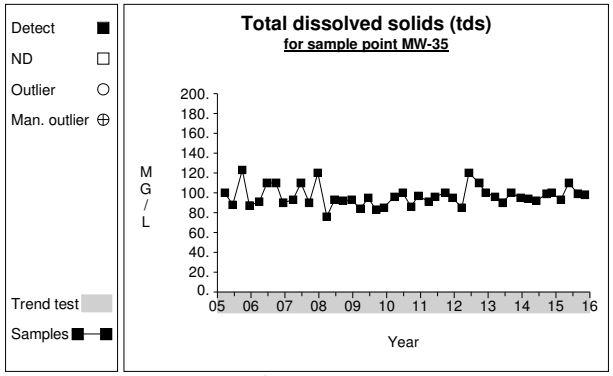


Graph 630

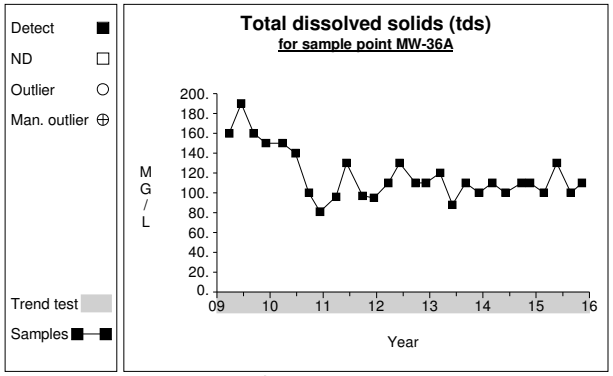
Time Series



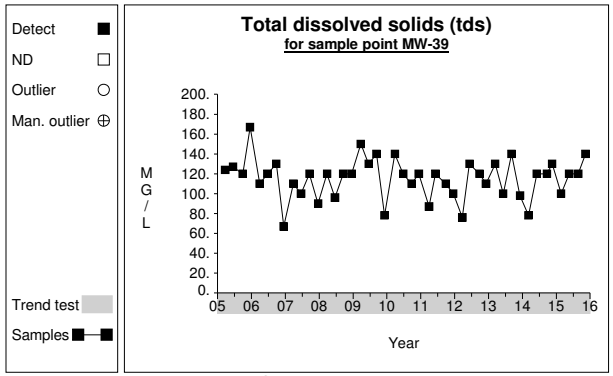
Graph 631



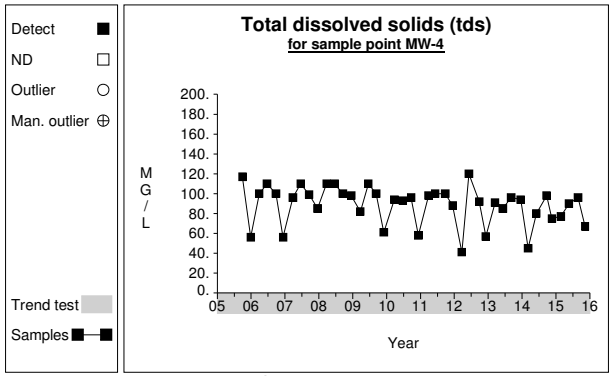
Graph 632



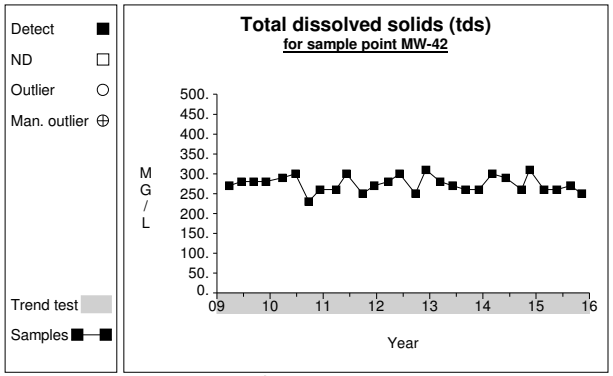
Graph 633



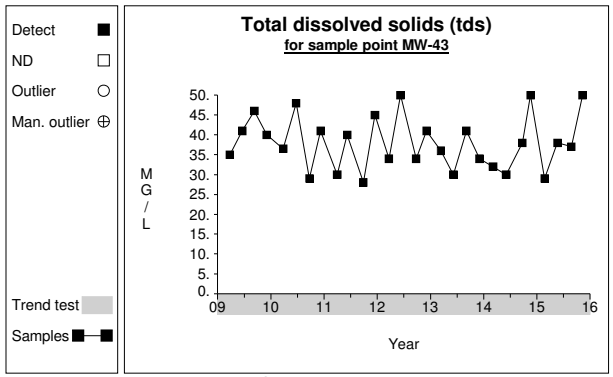
Graph 634



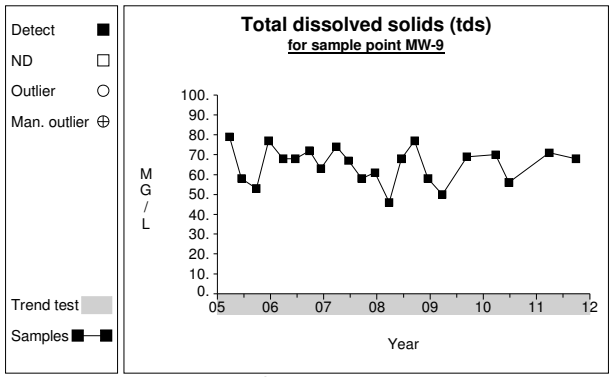
Graph 635



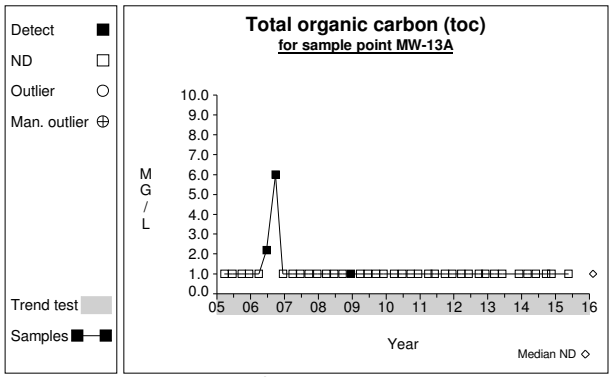
Graph 636



Graph 637

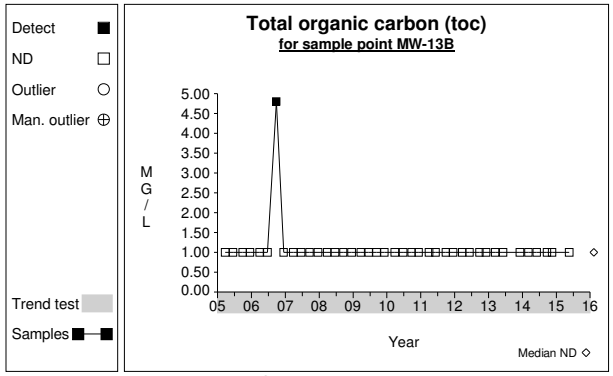


Graph 638

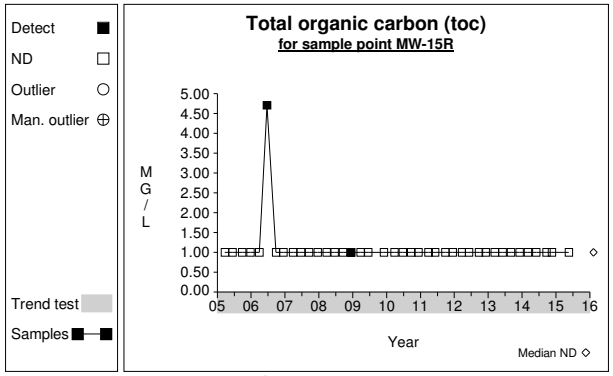


Graph 639

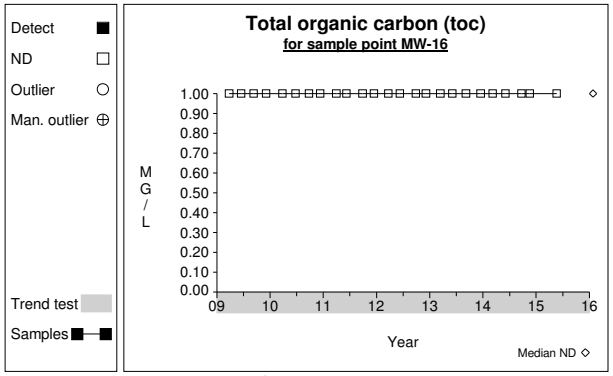
Time Series



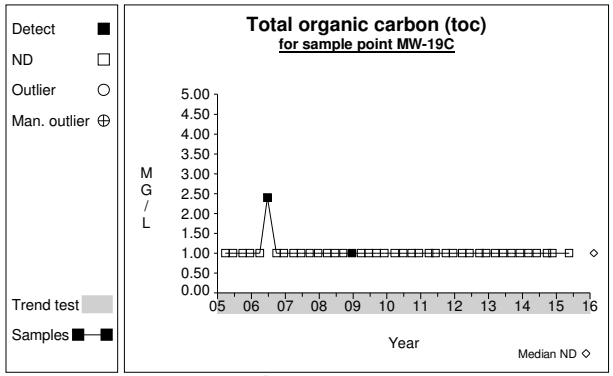
Graph 640



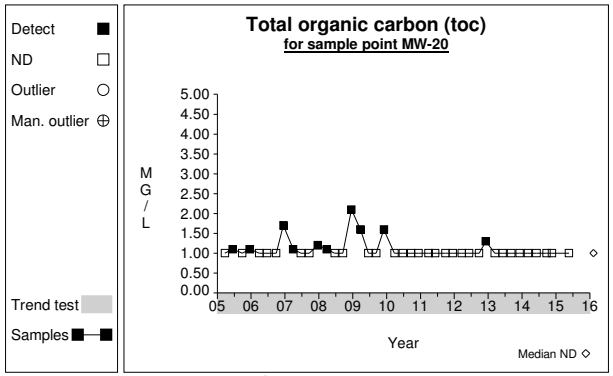
Graph 641



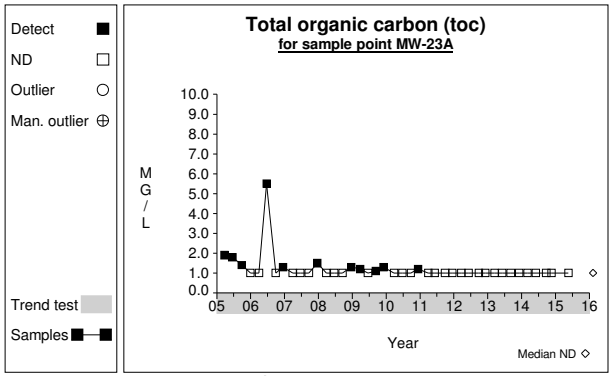
Graph 642



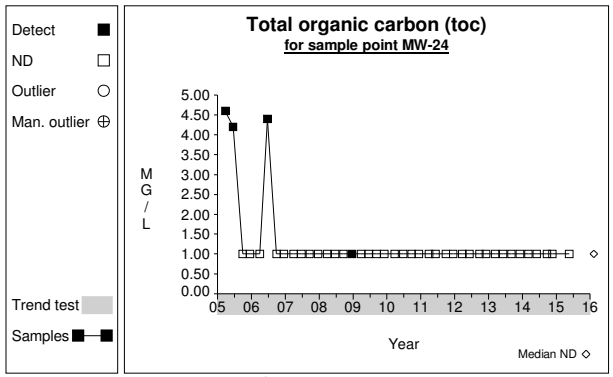
Graph 643



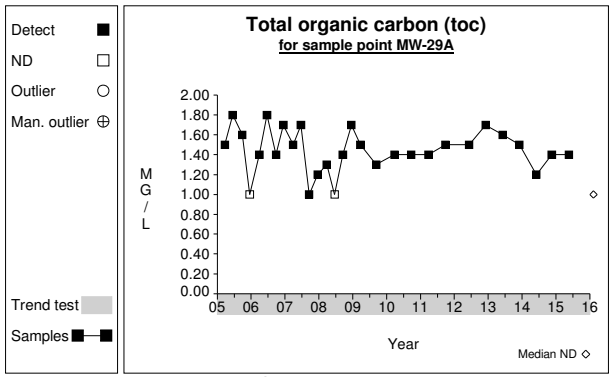
Graph 644



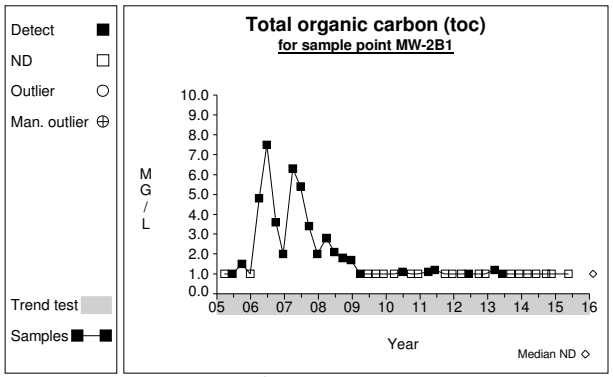
Graph 645



Graph 646

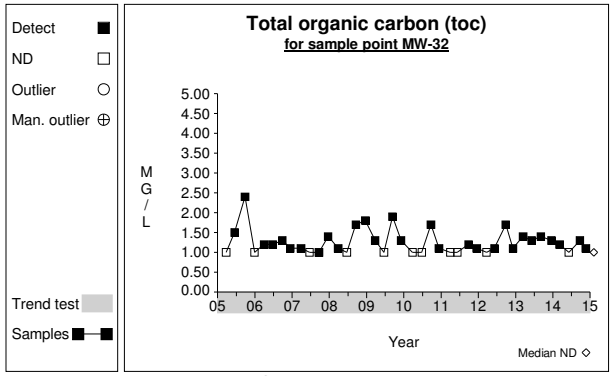


Graph 647

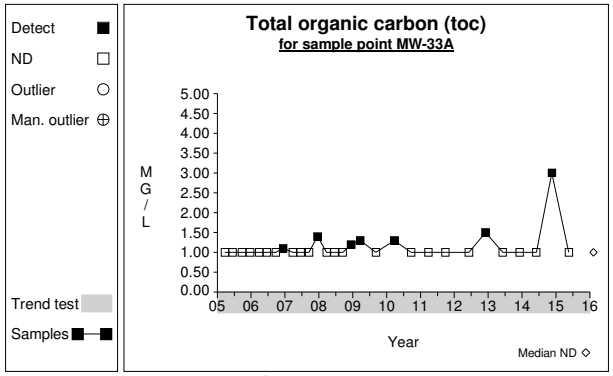


Graph 648

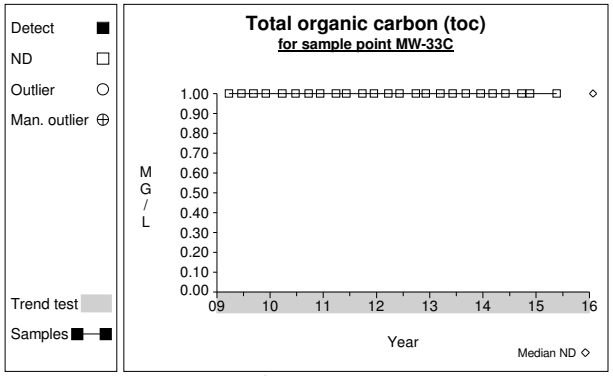
Time Series



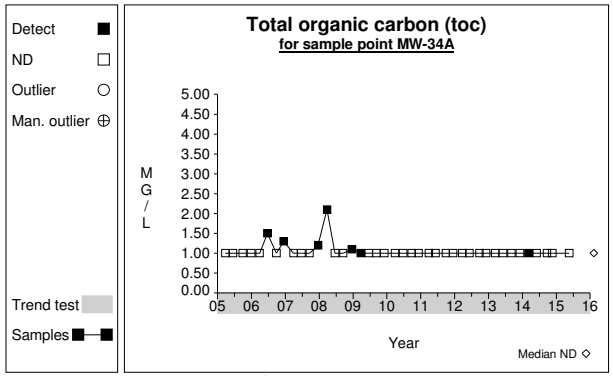
Graph 649



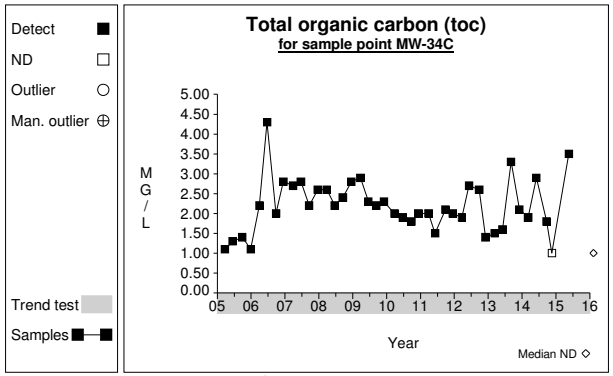
Graph 650



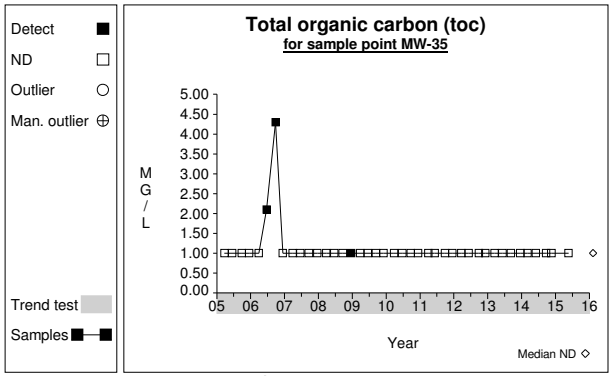
Graph 651



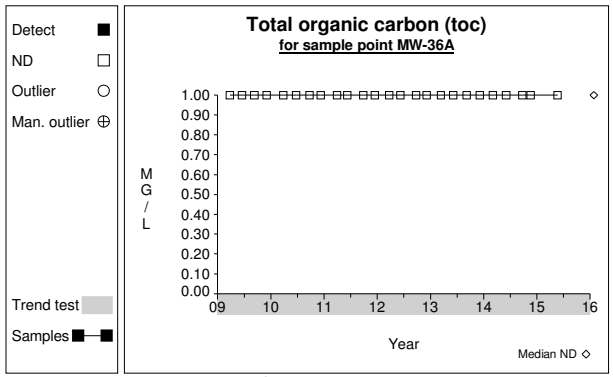
Graph 652



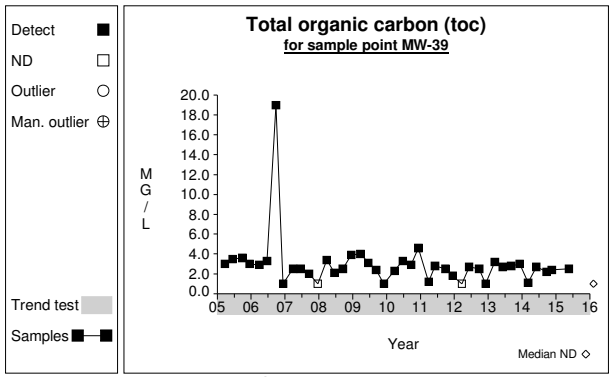
Graph 653



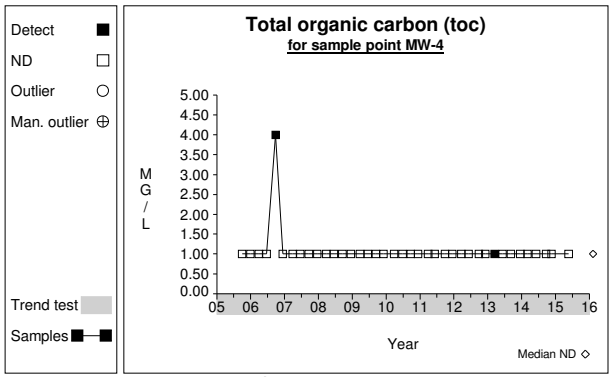
Graph 654



Graph 655

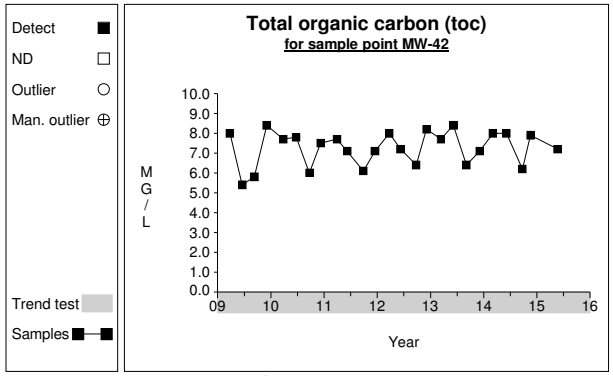


Graph 656

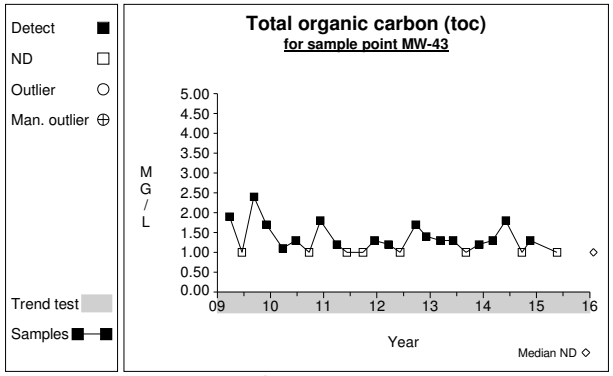


Graph 657

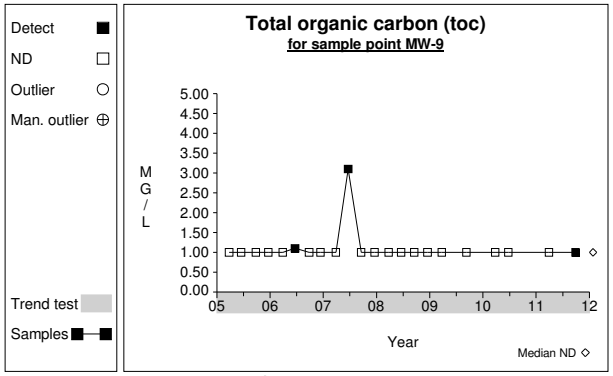
Time Series



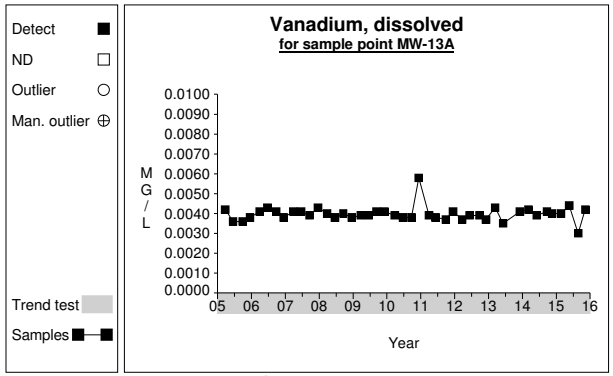
Graph 658



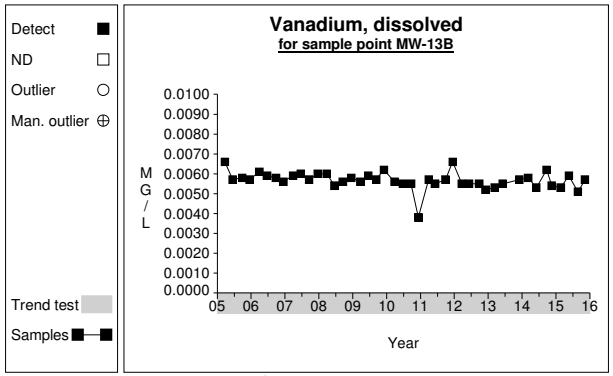
Graph 659



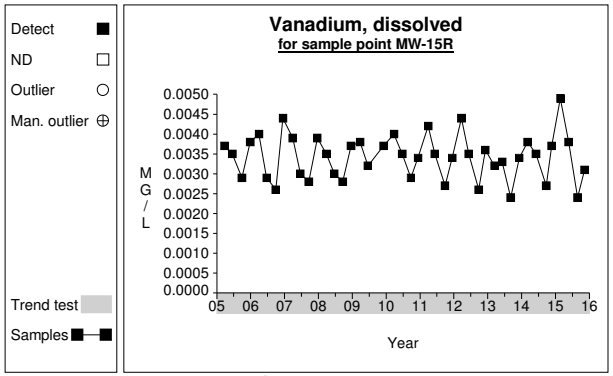
Graph 660



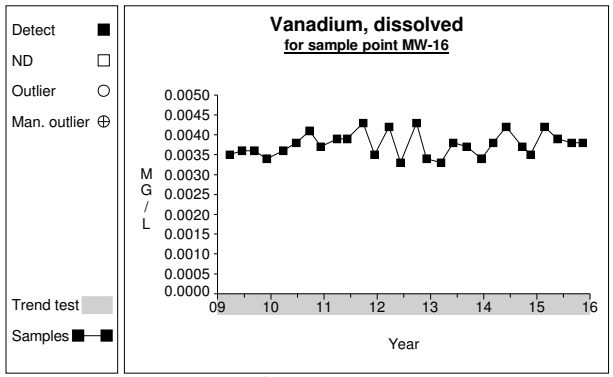
Graph 661



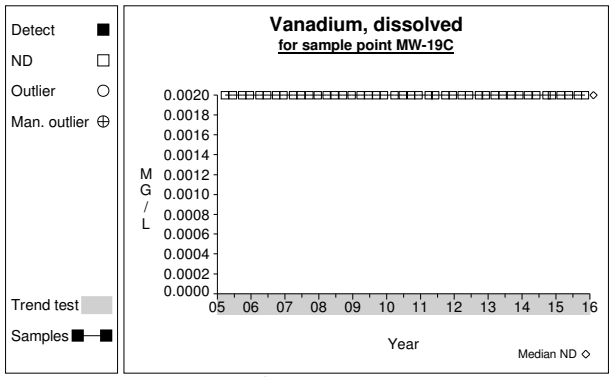
Graph 662



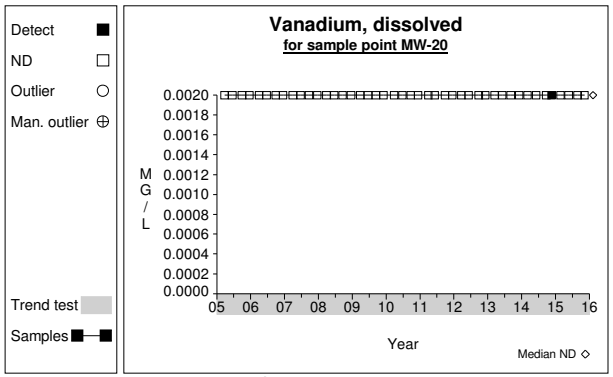
Graph 663



Graph 664

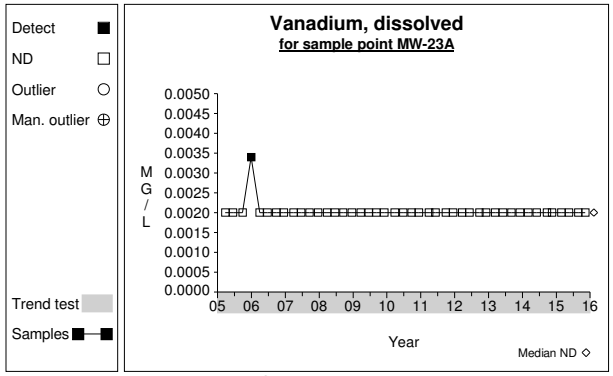


Graph 665

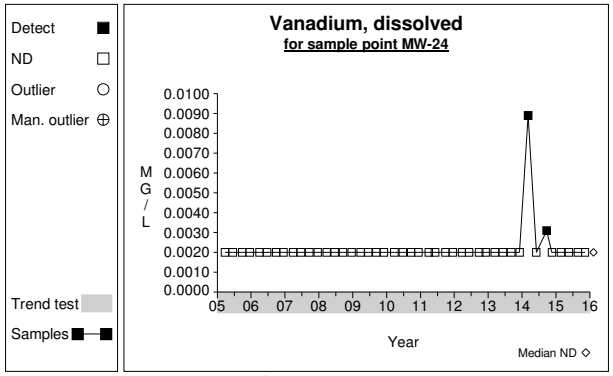


Graph 666

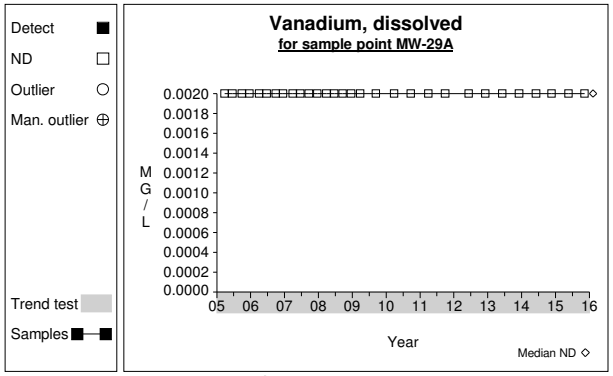
Time Series



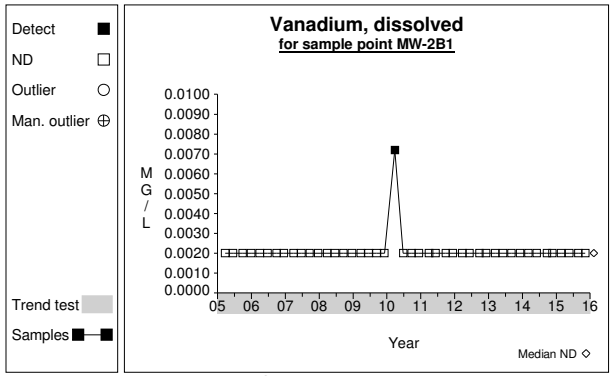
Graph 667



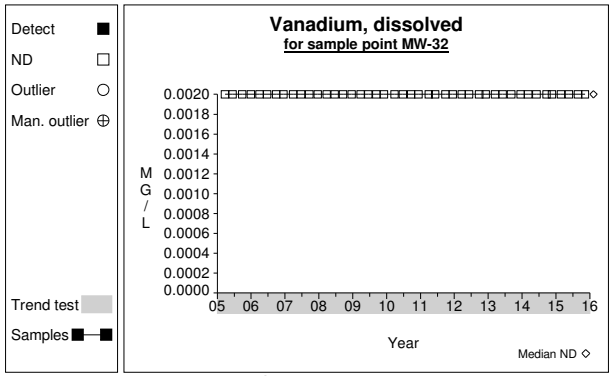
Graph 668



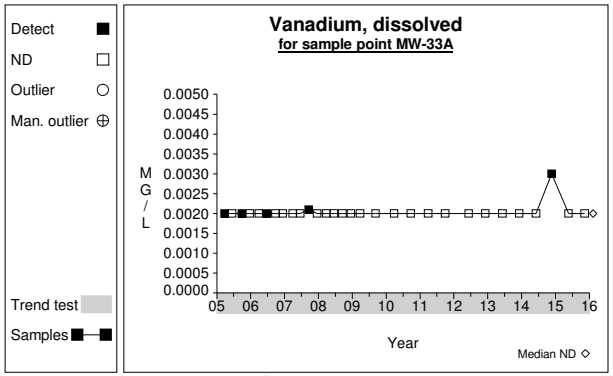
Graph 669



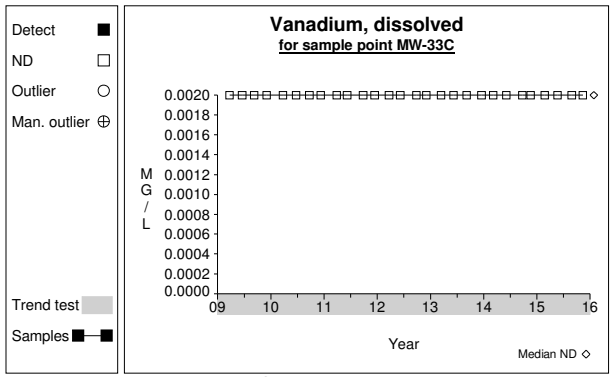
Graph 670



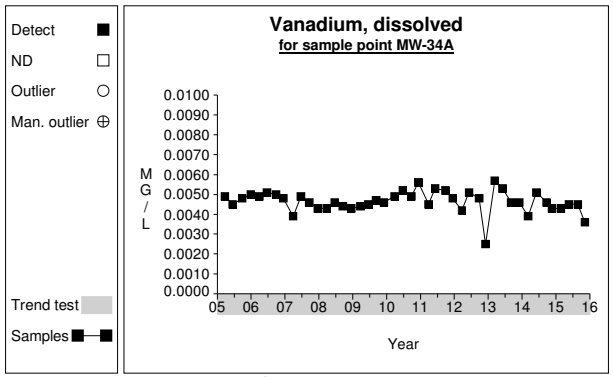
Graph 671



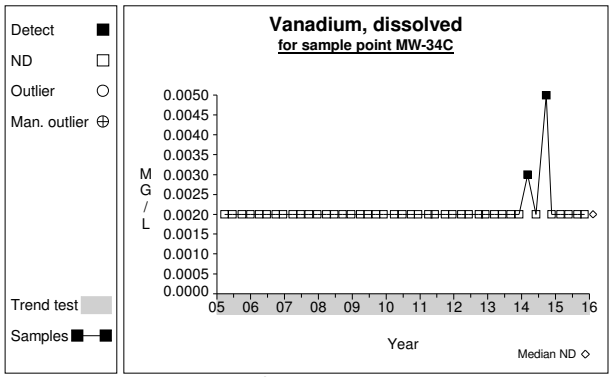
Graph 672



Graph 673

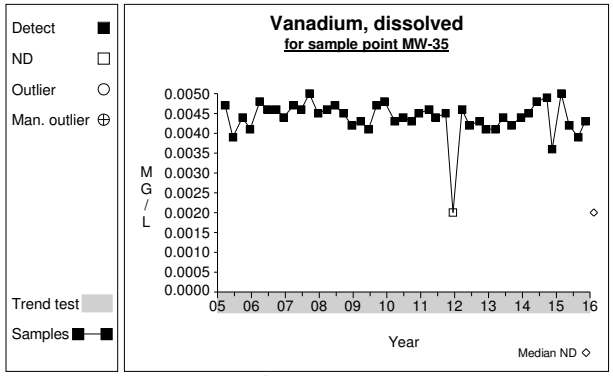


Graph 674

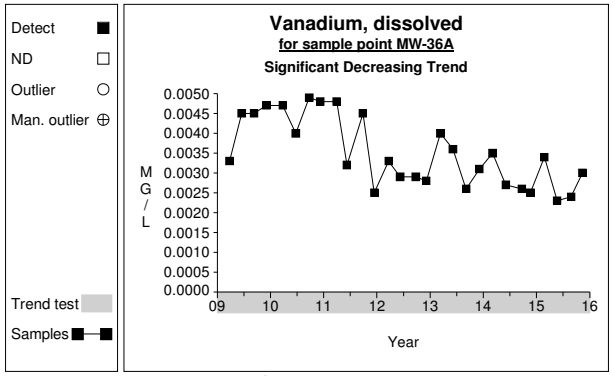


Graph 675

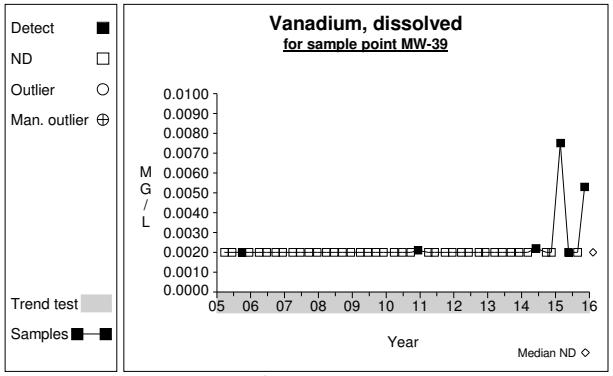
Time Series



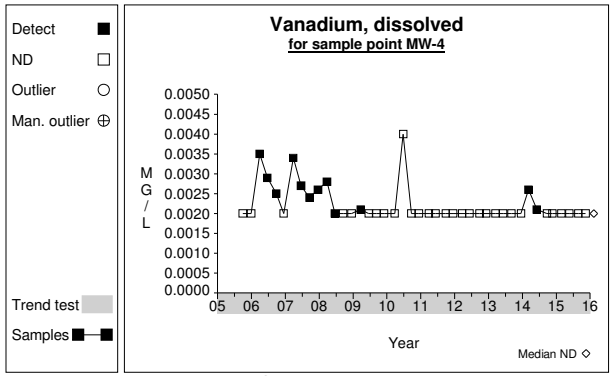
Graph 676



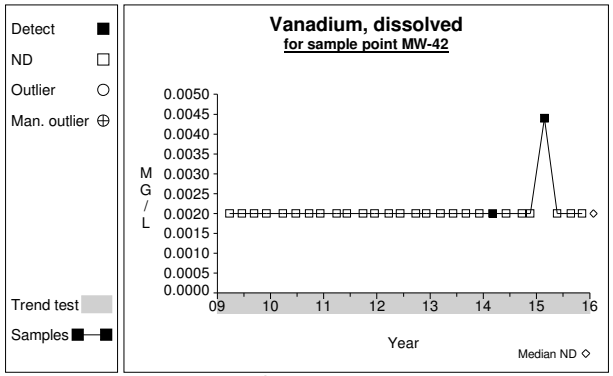
Graph 677



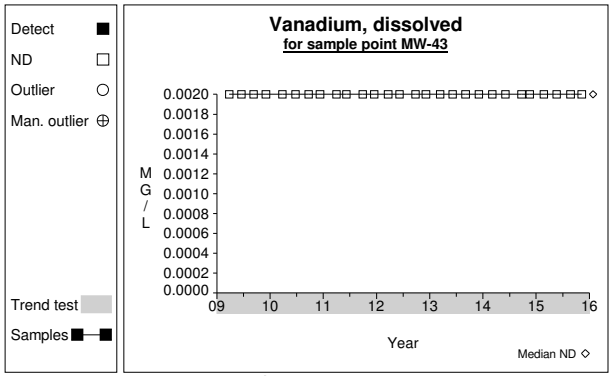
Graph 678



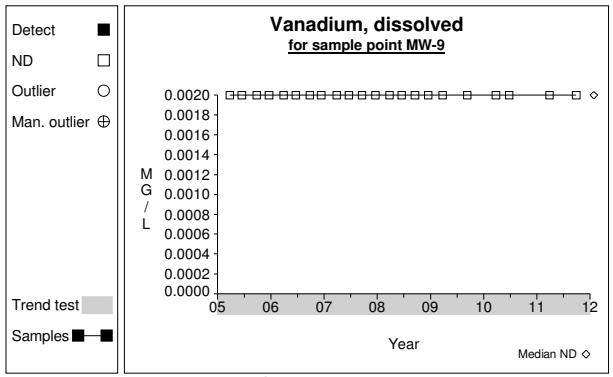
Graph 679



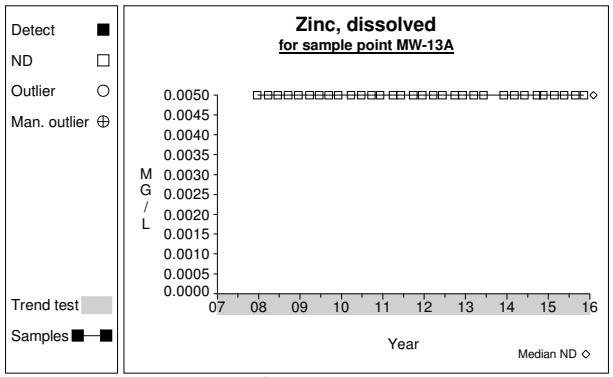
Graph 680



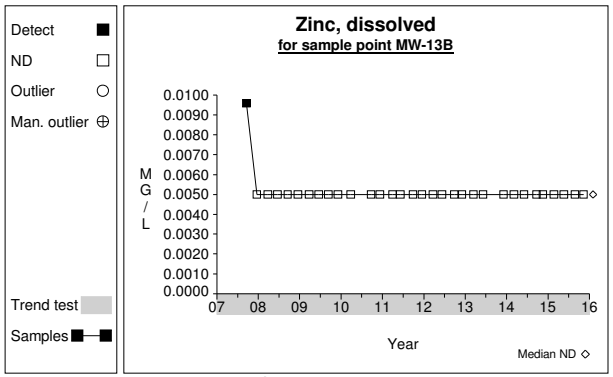
Graph 681



Graph 682

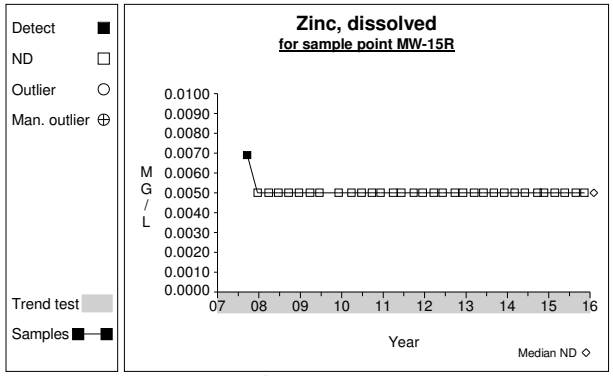


Graph 683

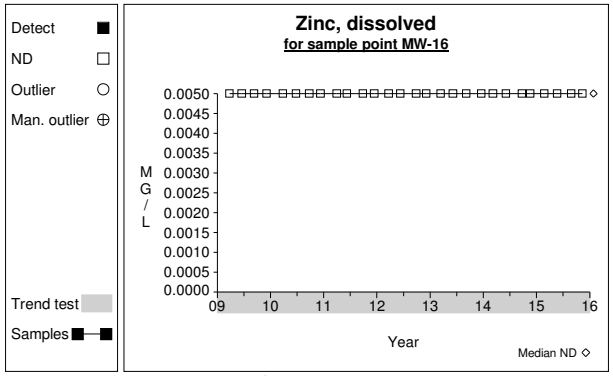


Graph 684

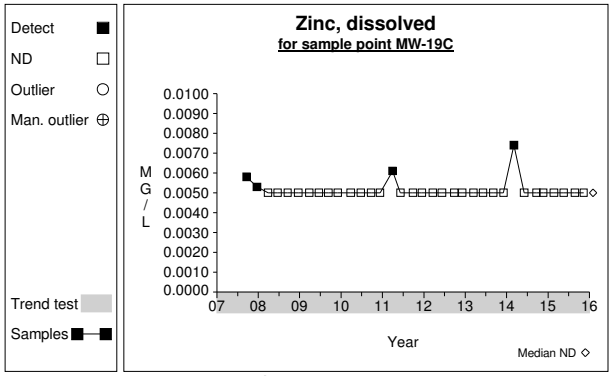
Time Series



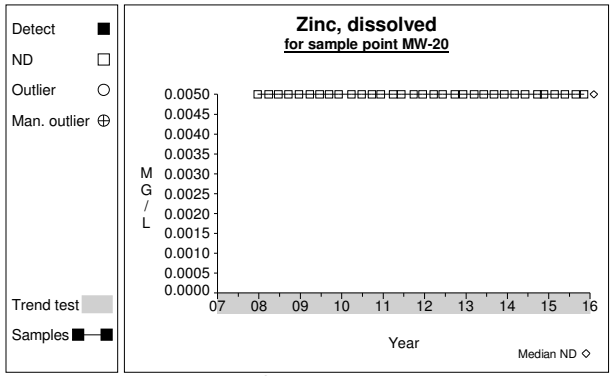
Graph 685



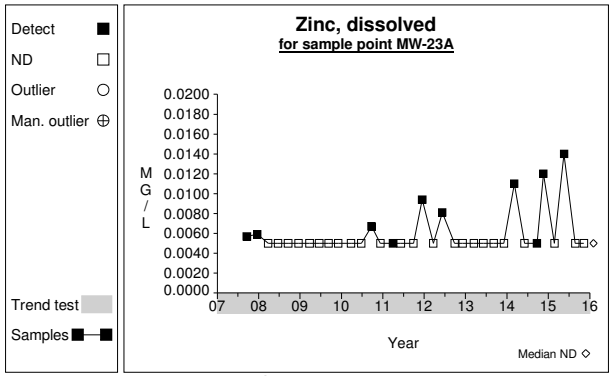
Graph 686



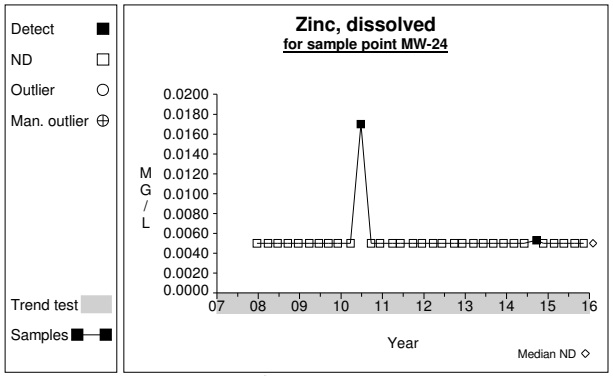
Graph 687



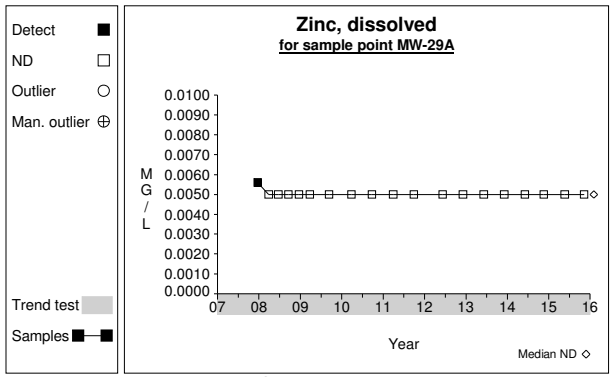
Graph 688



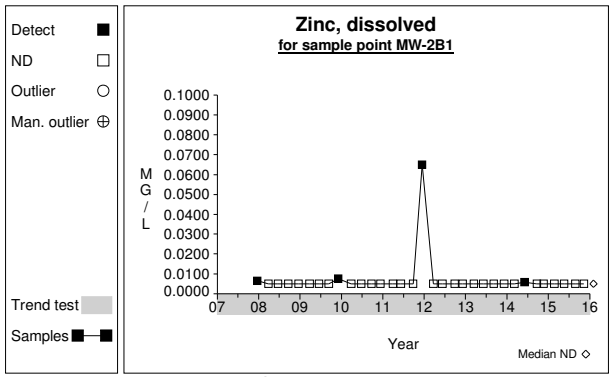
Graph 689



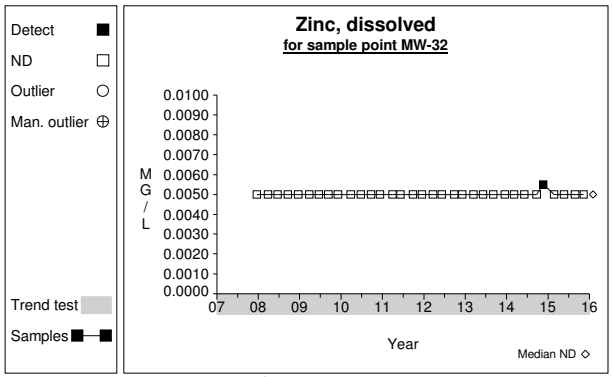
Graph 690



Graph 691

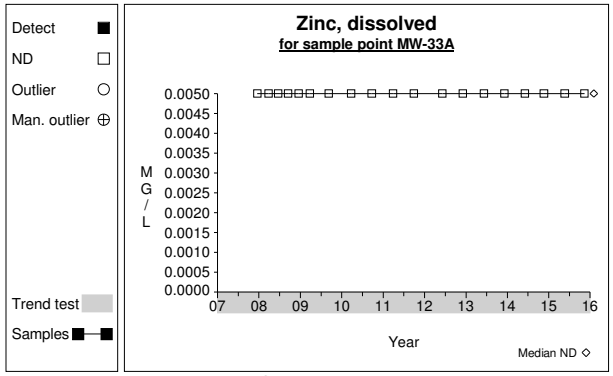


Graph 692

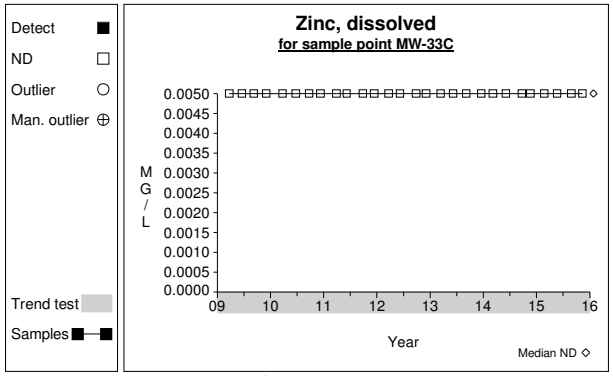


Graph 693

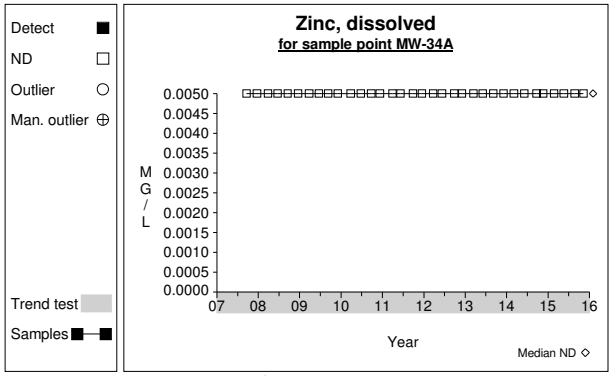
Time Series



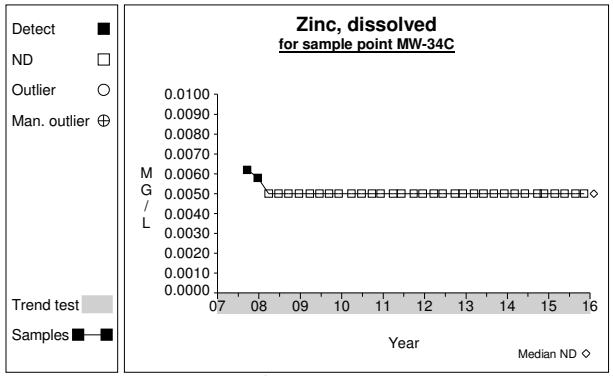
Graph 694



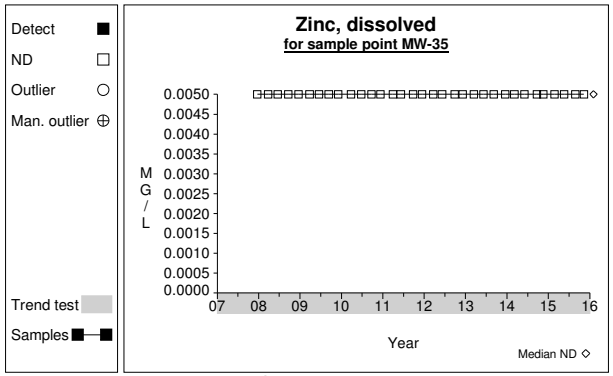
Graph 695



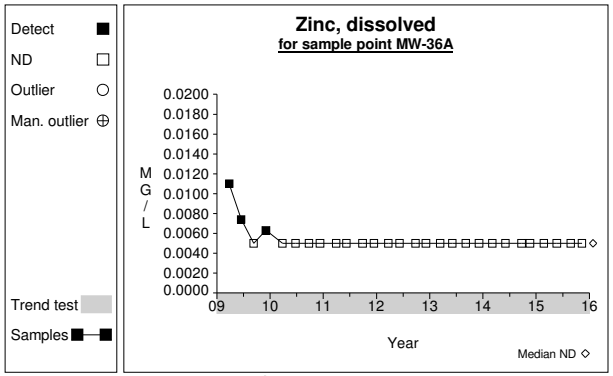
Graph 696



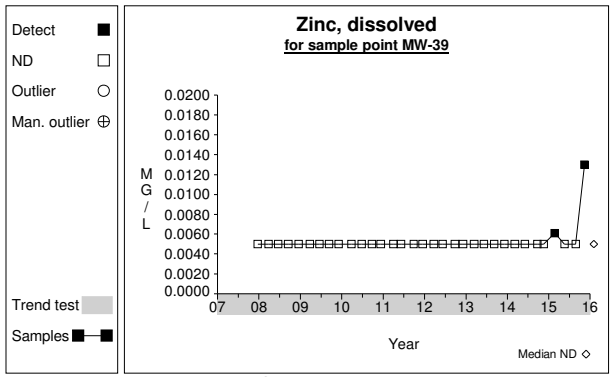
Graph 697



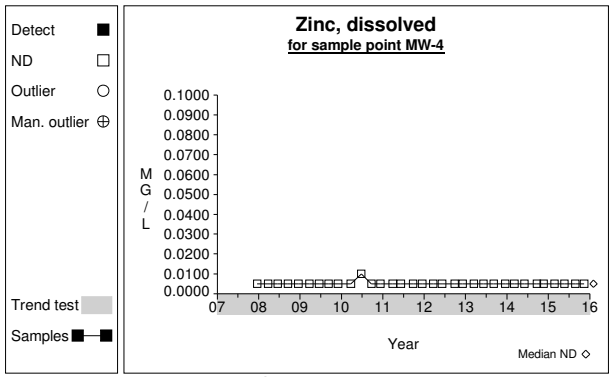
Graph 698



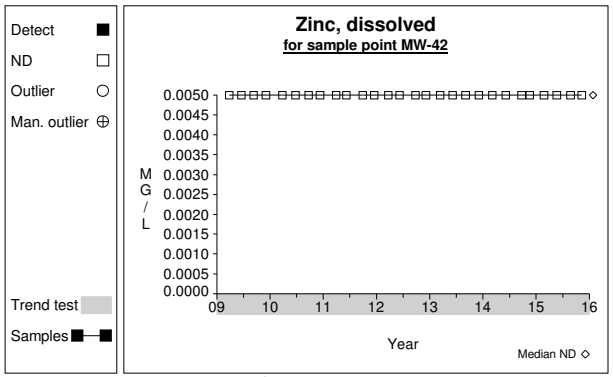
Graph 699



Graph 700

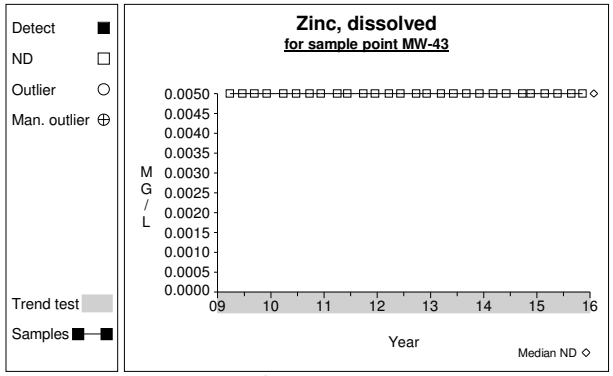


Graph 701

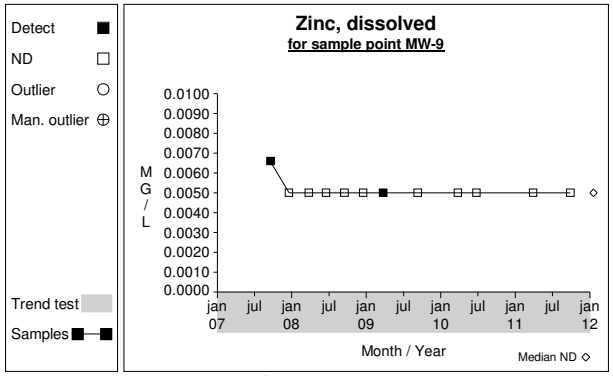


Graph 702

Time Series

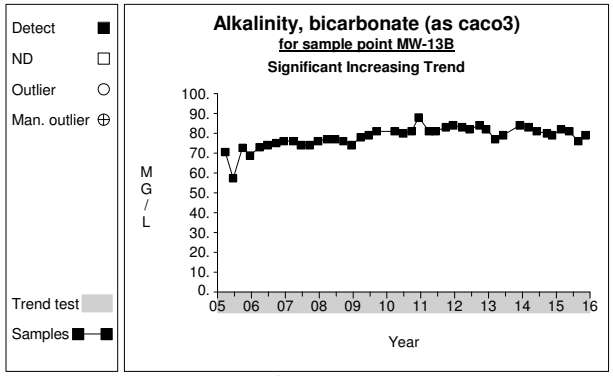


Graph 703

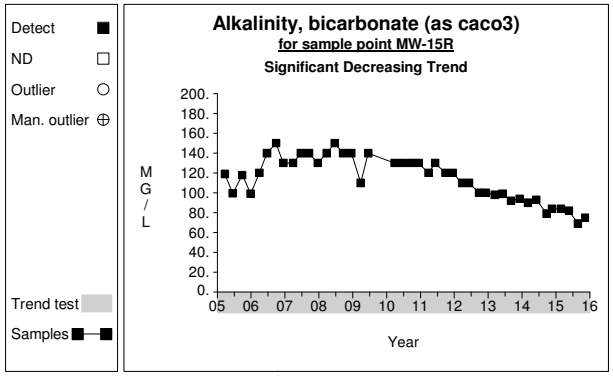


Graph 704

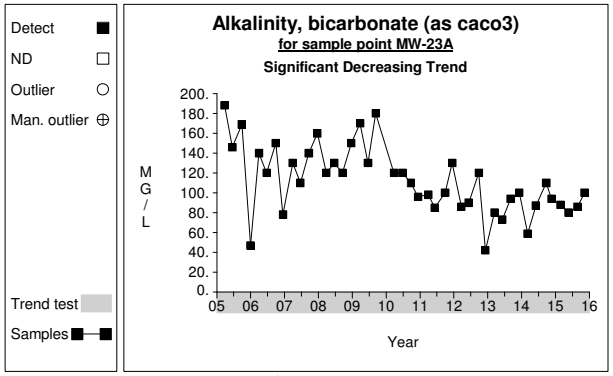
Time Series



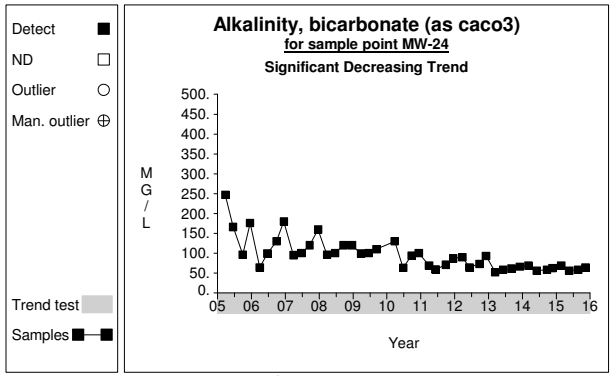
Graph 2



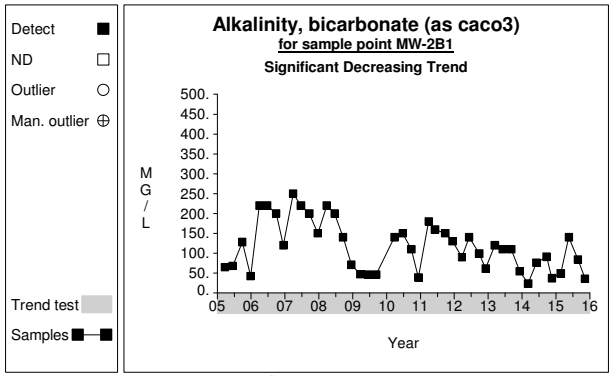
Graph 3



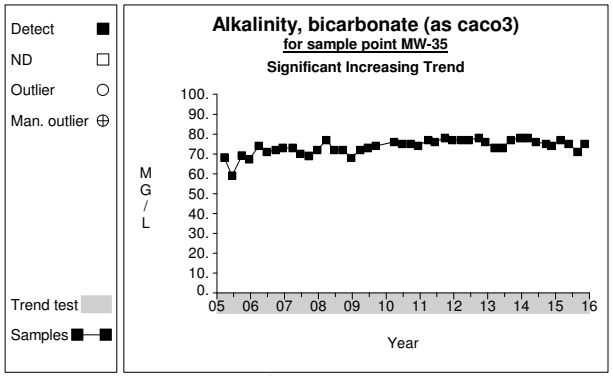
Graph 7



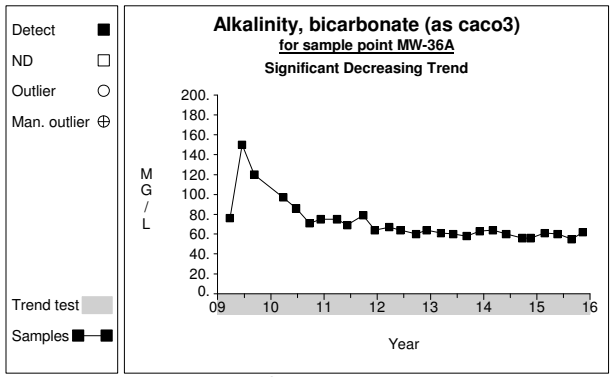
Graph 8



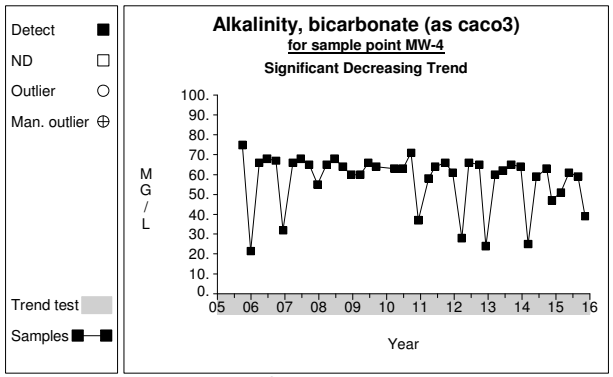
Graph 10



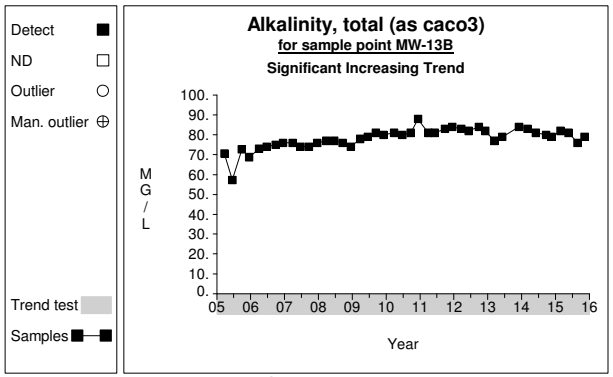
Graph 16



Graph 17

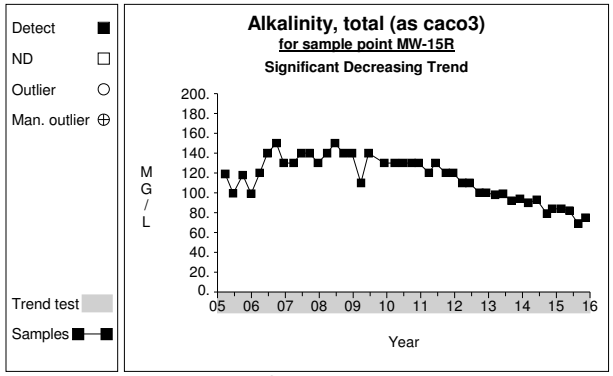


Graph 19

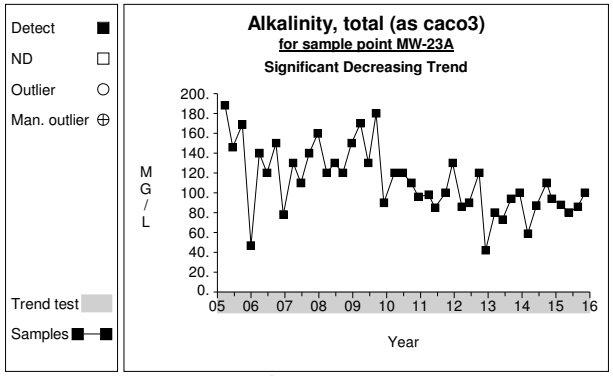


Graph 24

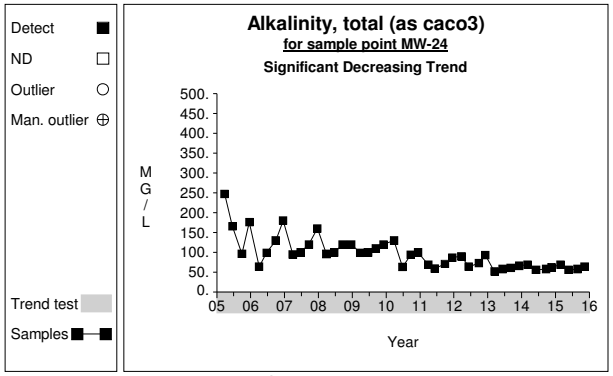
Time Series



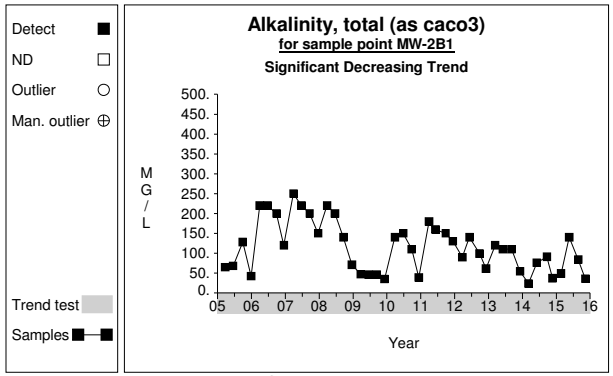
Graph 25



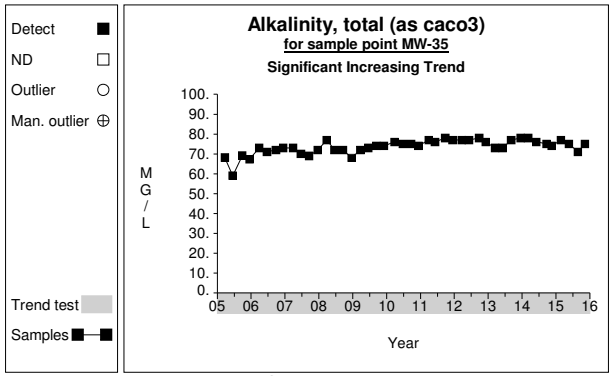
Graph 29



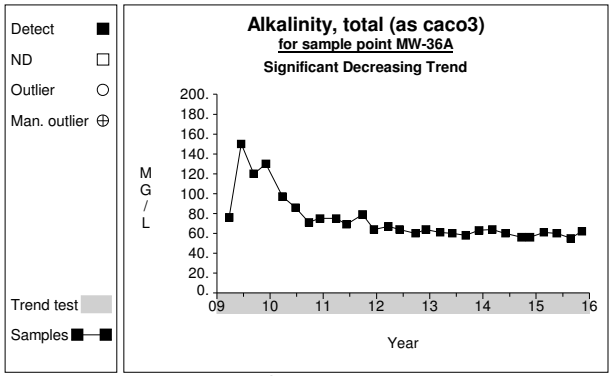
Graph 30



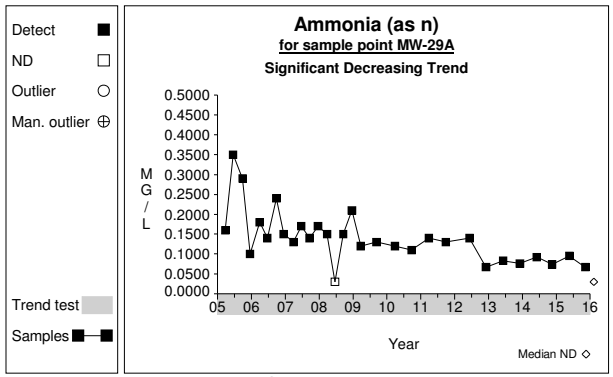
Graph 32



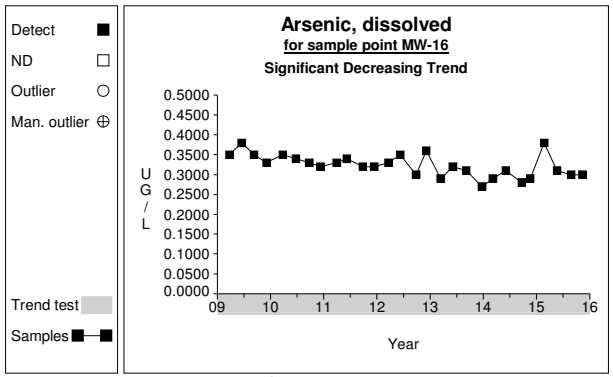
Graph 38



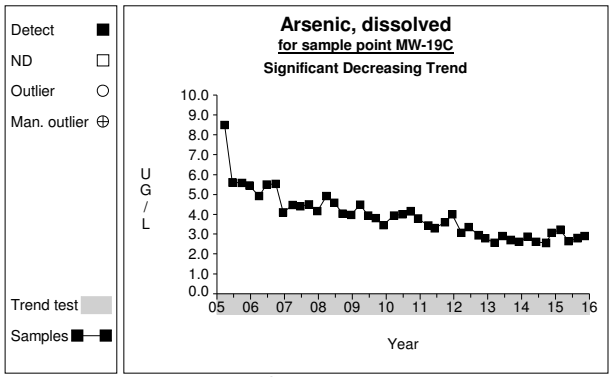
Graph 39



Graph 53

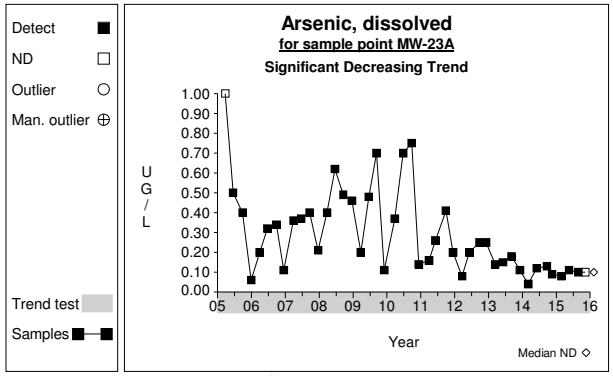


Graph 92

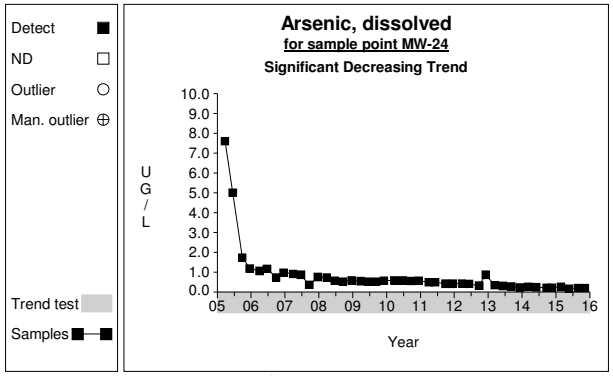


Graph 93

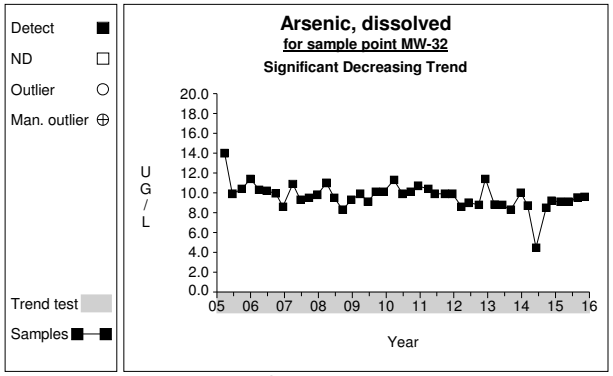
Time Series



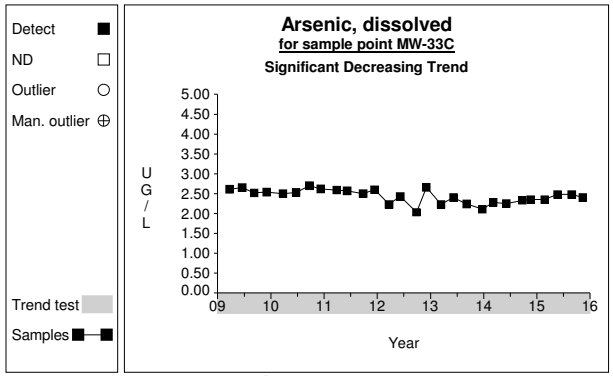
Graph 95



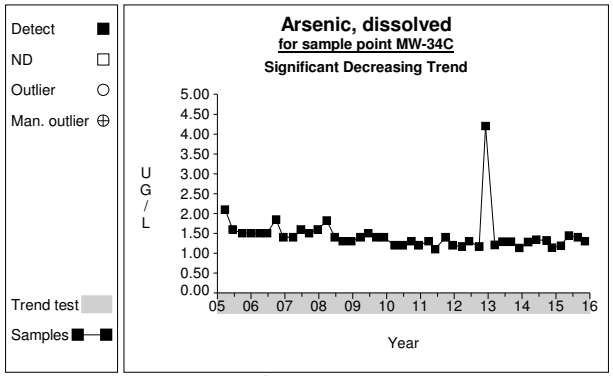
Graph 96



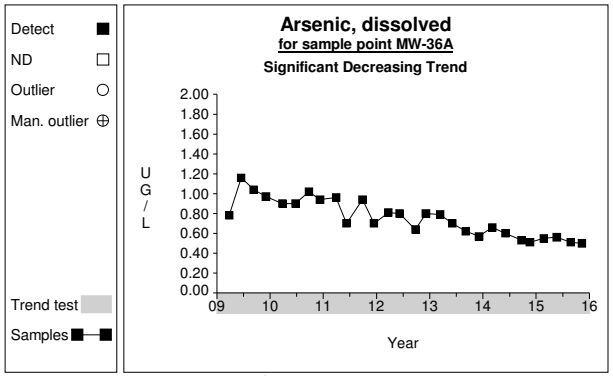
Graph 99



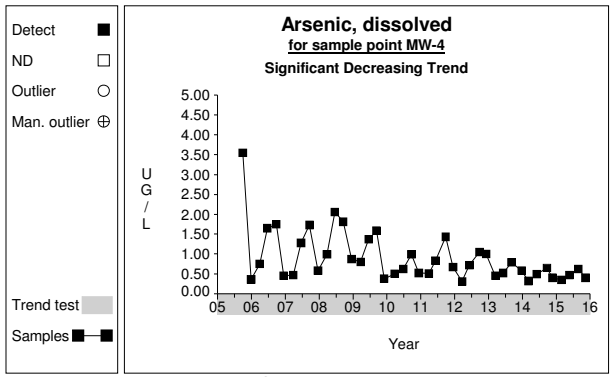
Graph 101



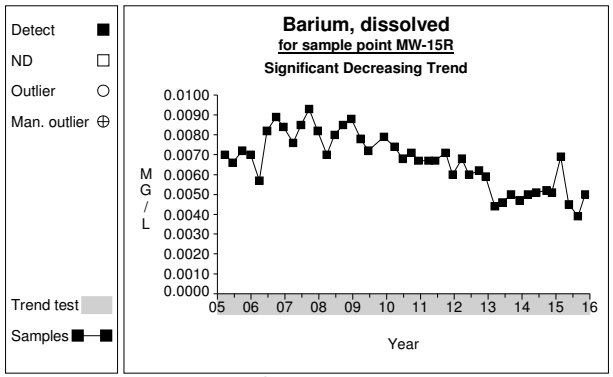
Graph 103



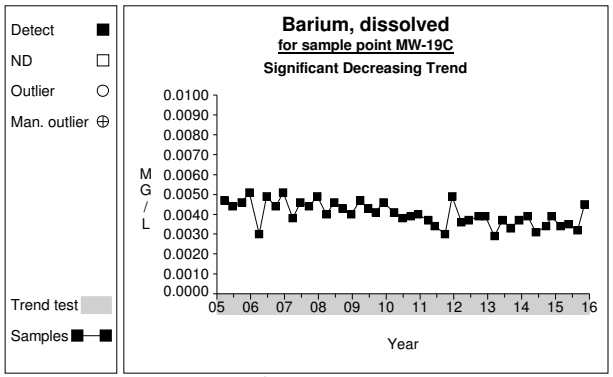
Graph 105



Graph 107

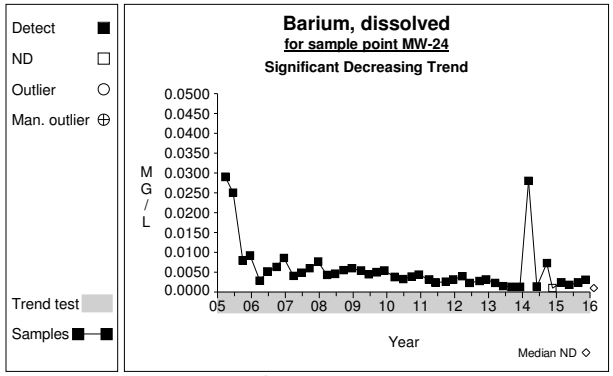


Graph 113

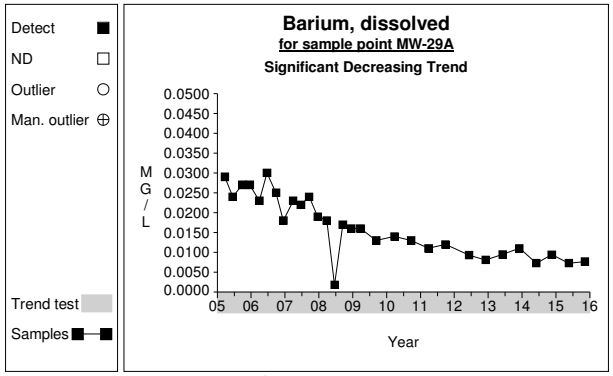


Graph 115

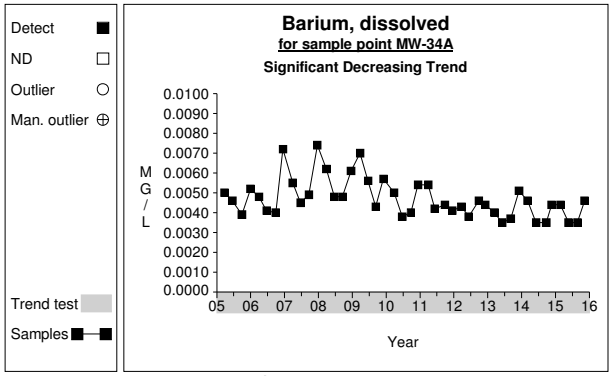
Time Series



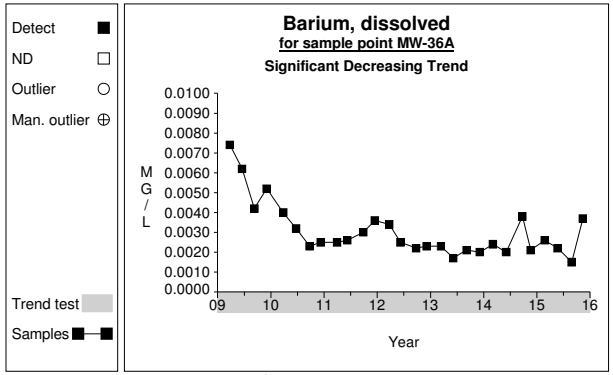
Graph 118



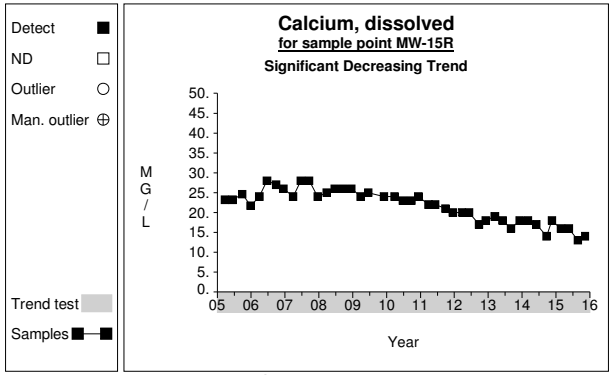
Graph 119



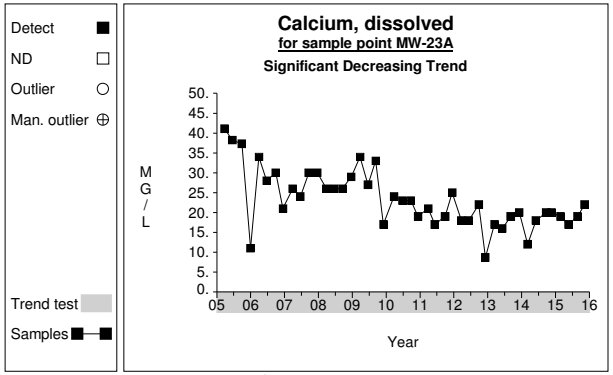
Graph 124



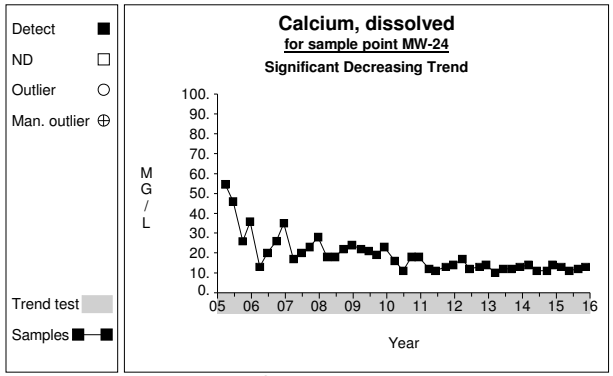
Graph 127



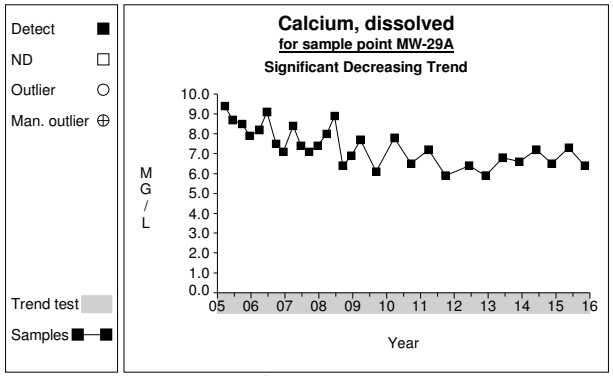
Graph 179



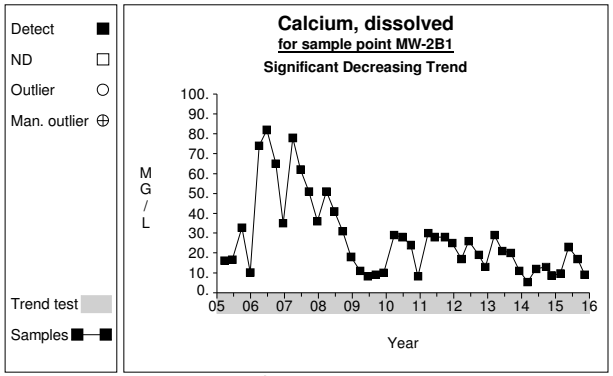
Graph 183



Graph 184

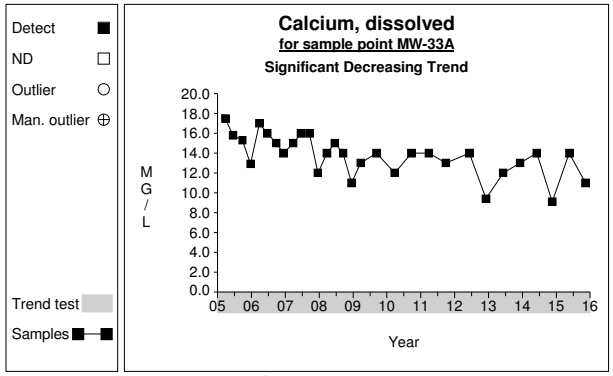


Graph 185

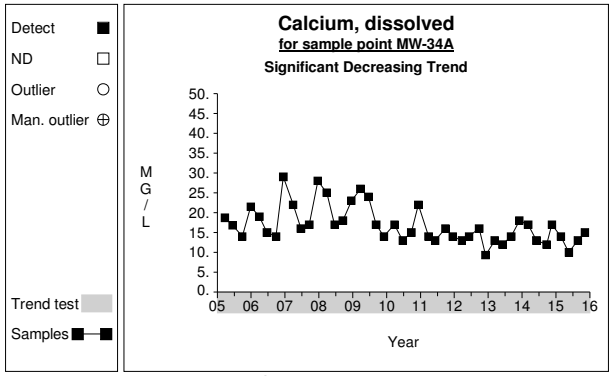


Graph 186

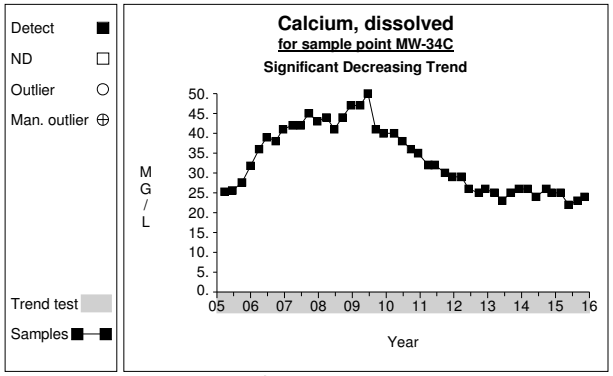
Time Series



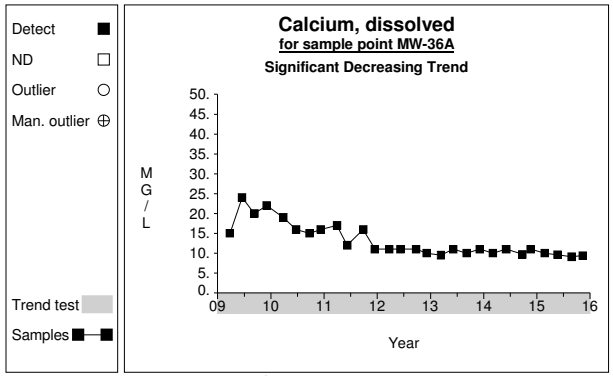
Graph 188



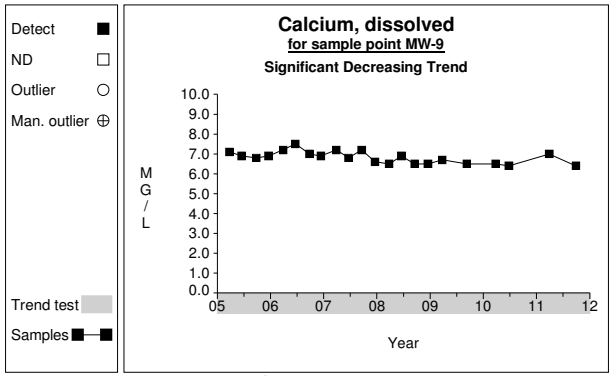
Graph 190



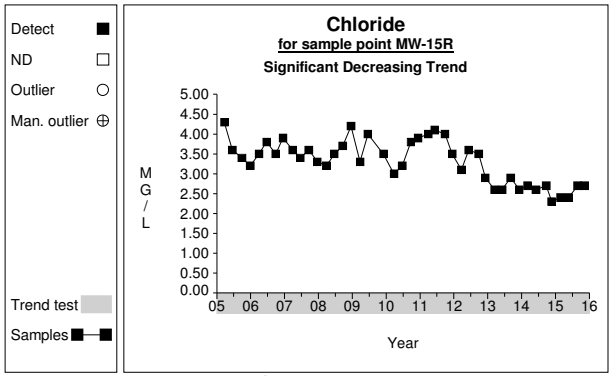
Graph 191



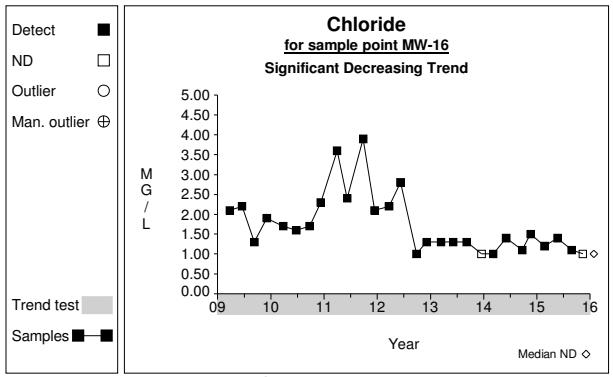
Graph 193



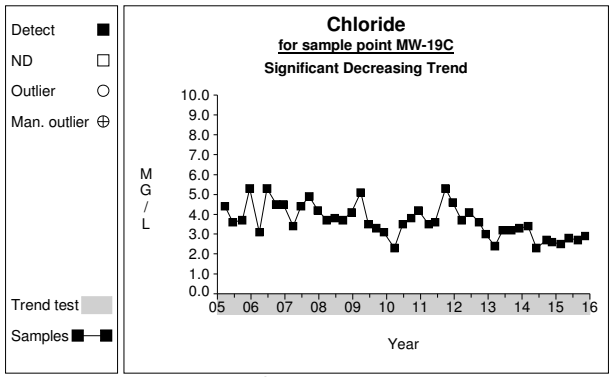
Graph 198



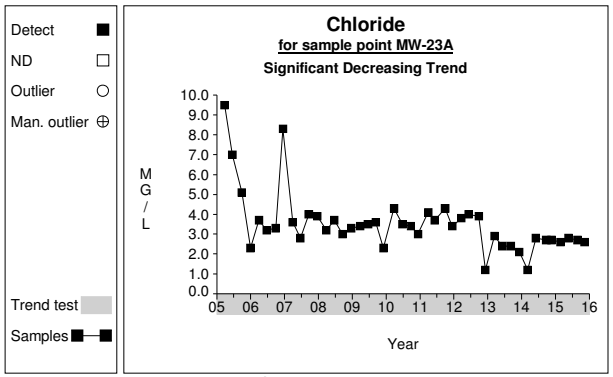
Graph 201



Graph 202

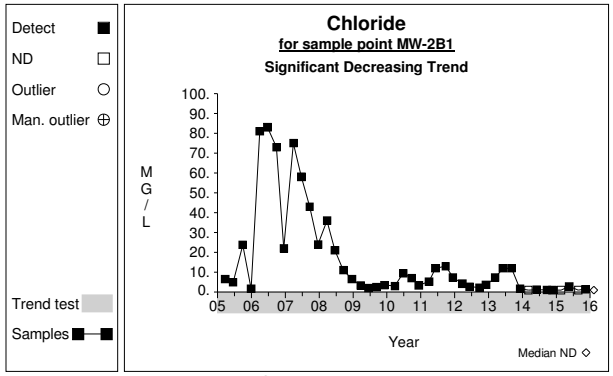


Graph 203

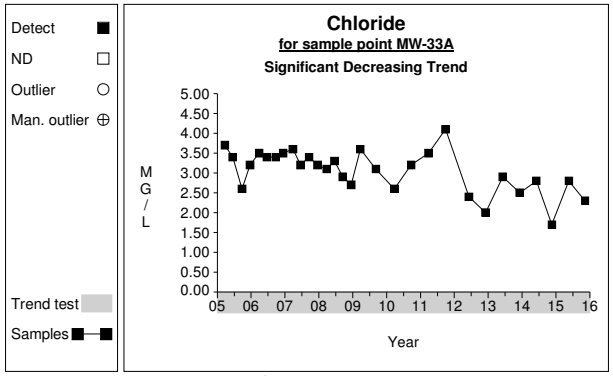


Graph 205

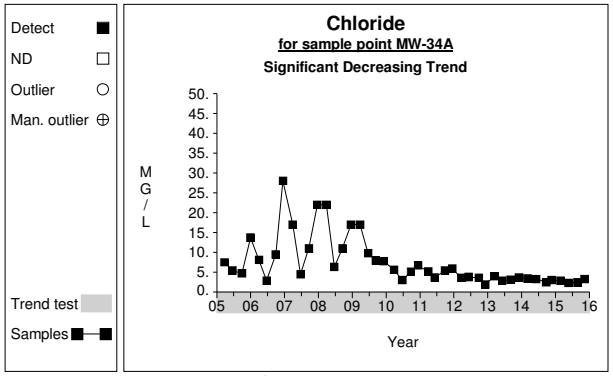
Time Series



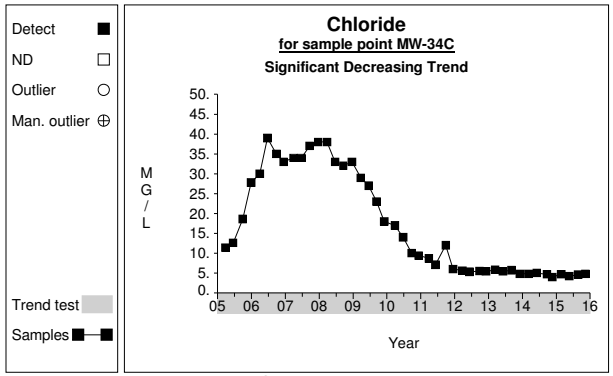
Graph 208



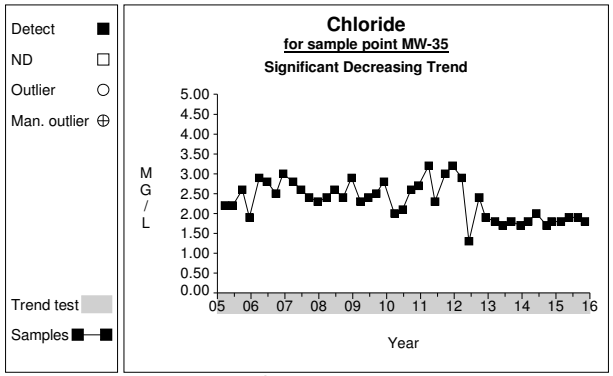
Graph 210



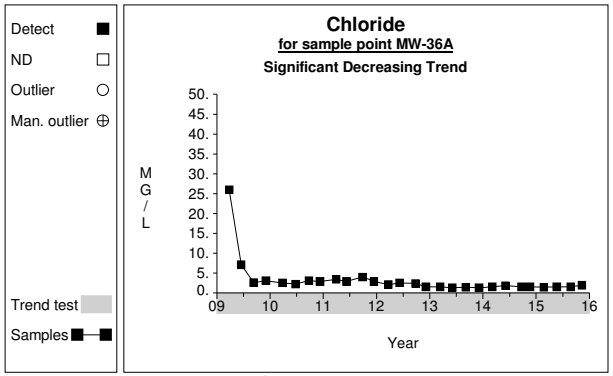
Graph 212



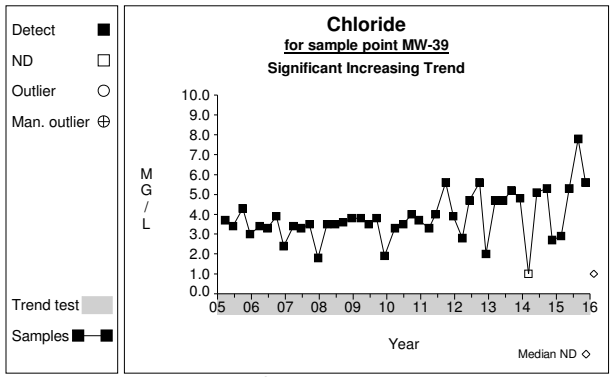
Graph 213



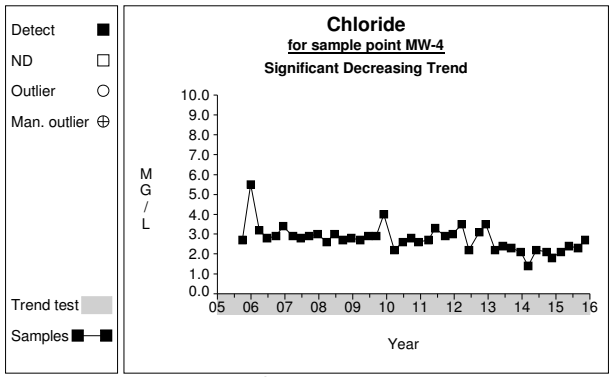
Graph 214



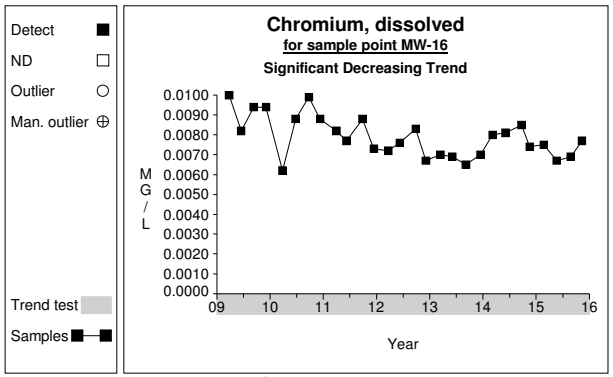
Graph 215



Graph 216

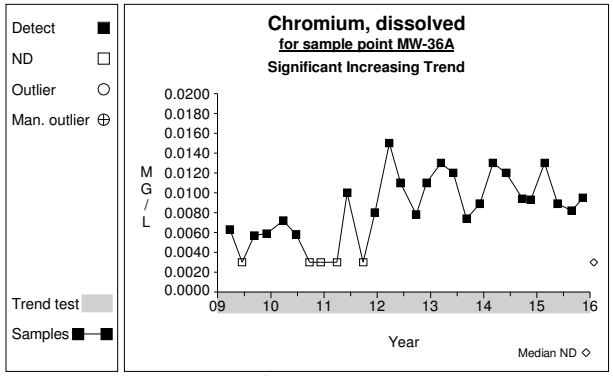


Graph 217

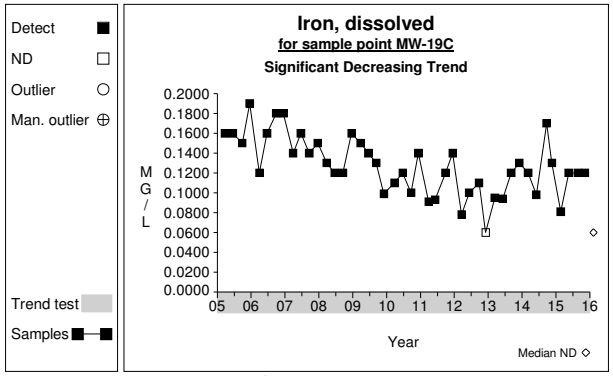


Graph 224

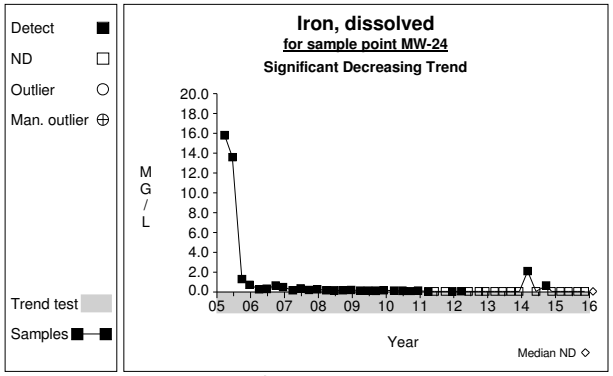
Time Series



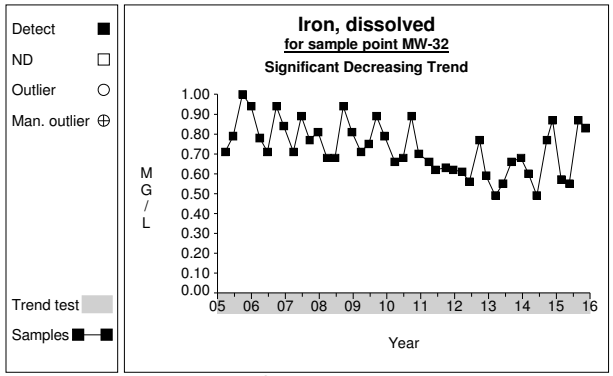
Graph 237



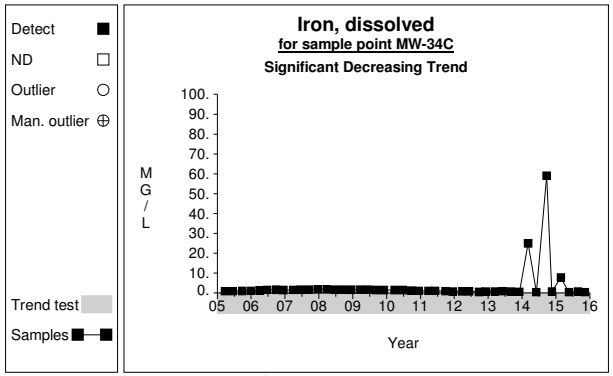
Graph 291



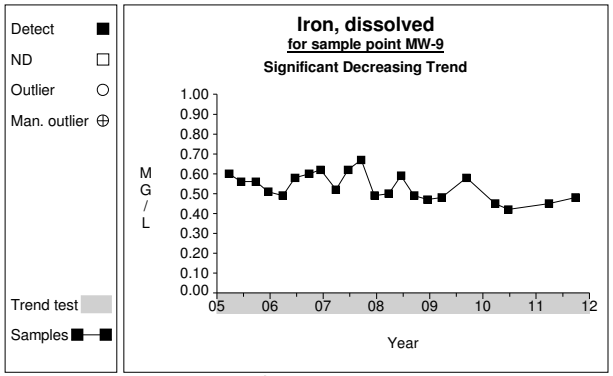
Graph 294



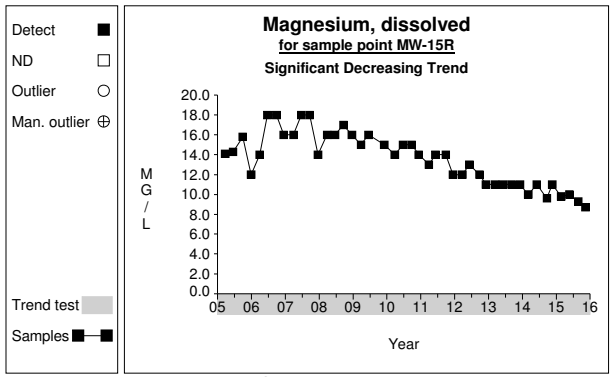
Graph 297



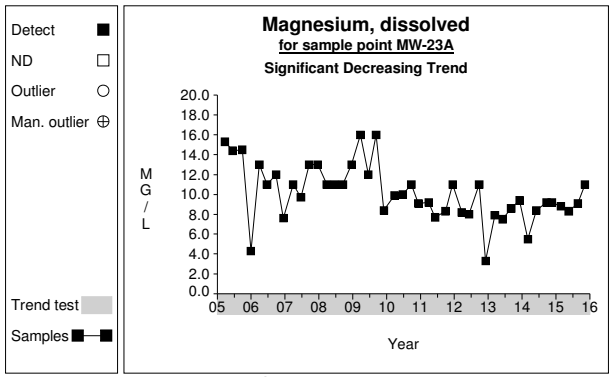
Graph 301



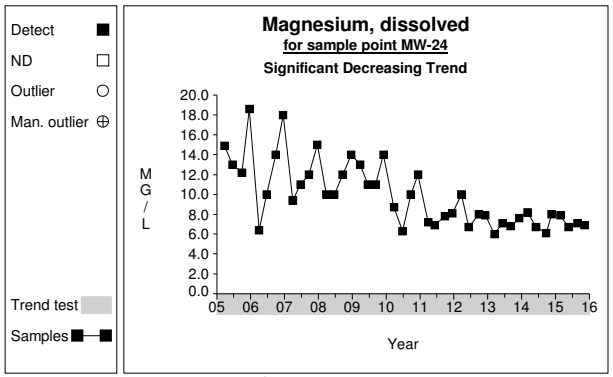
Graph 308



Graph 333

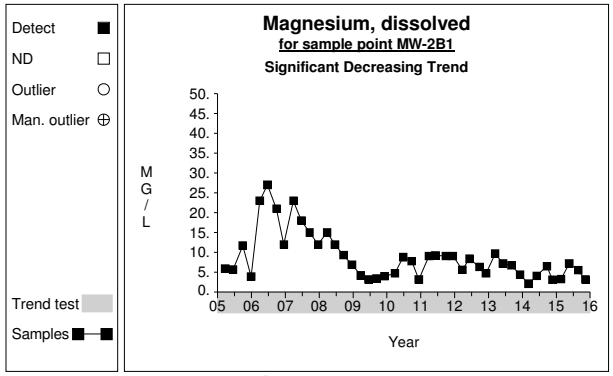


Graph 337

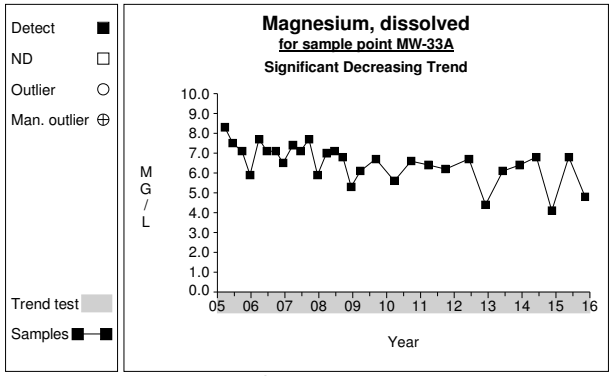


Graph 338

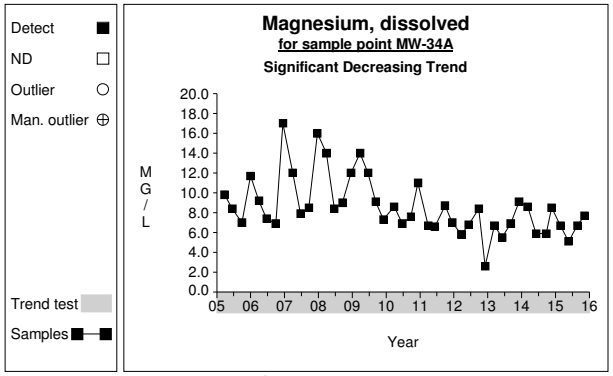
Time Series



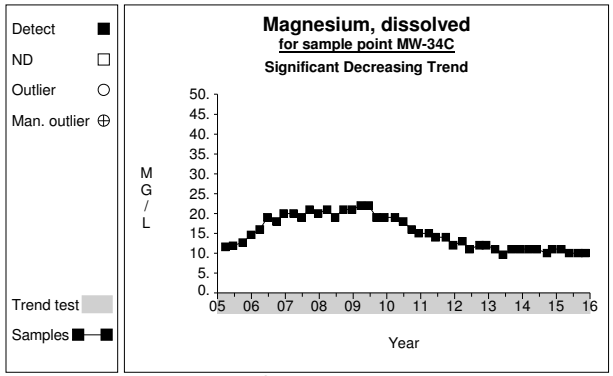
Graph 340



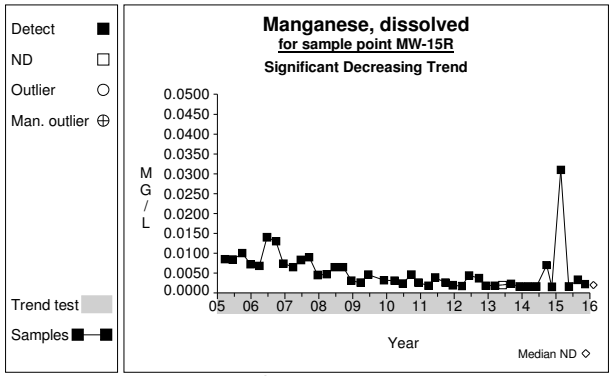
Graph 342



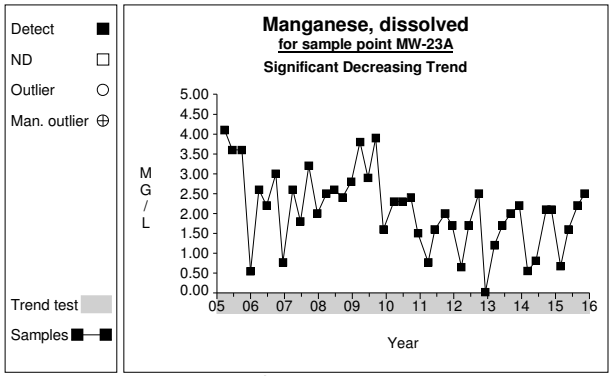
Graph 344



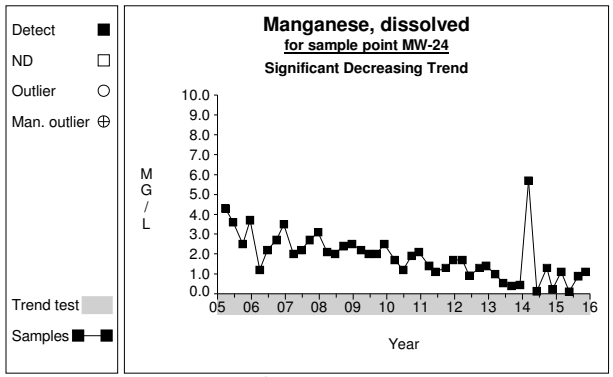
Graph 345



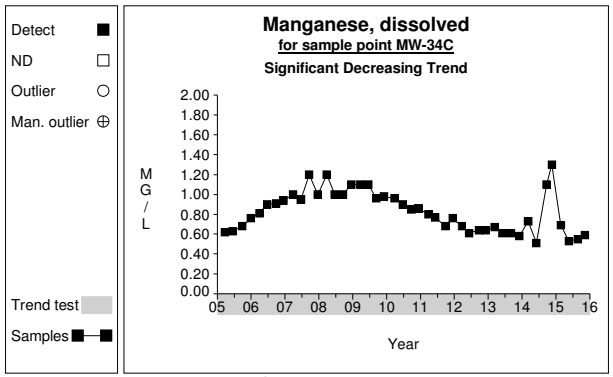
Graph 355



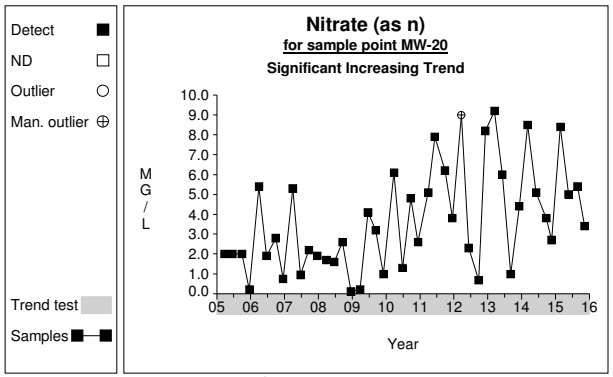
Graph 359



Graph 360

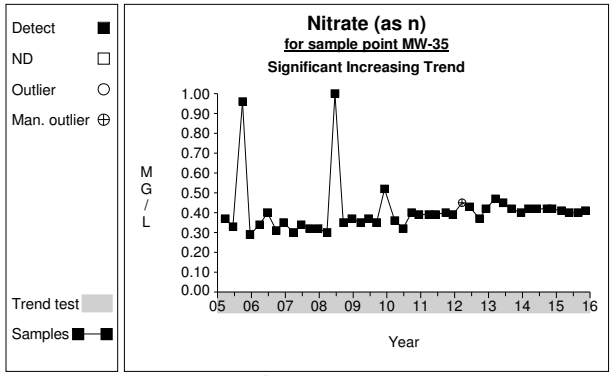


Graph 367

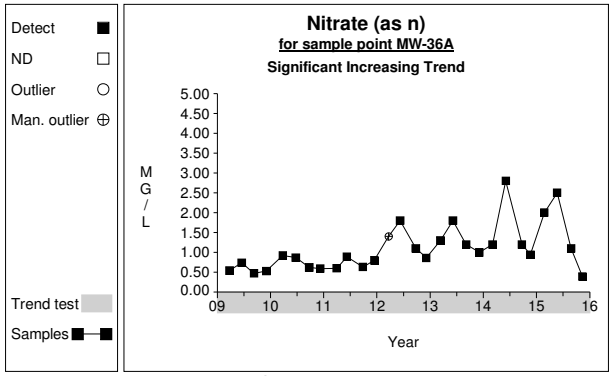


Graph 402

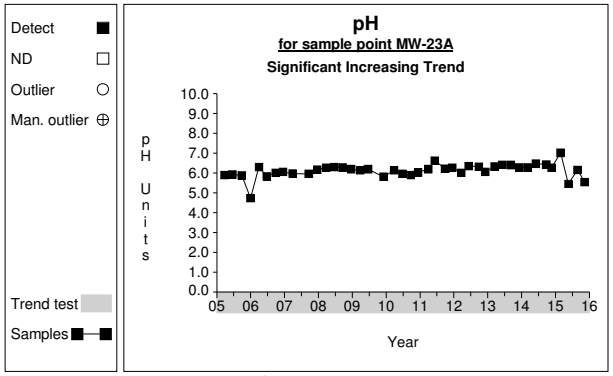
Time Series



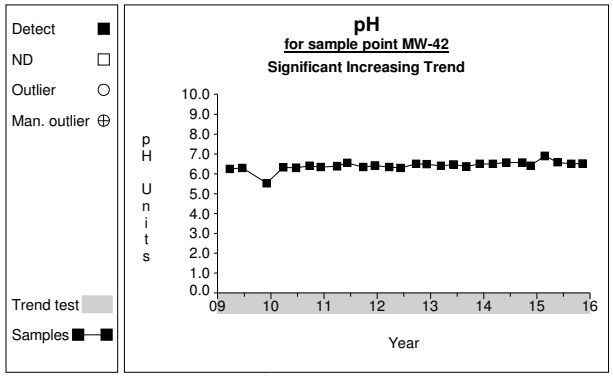
Graph 412



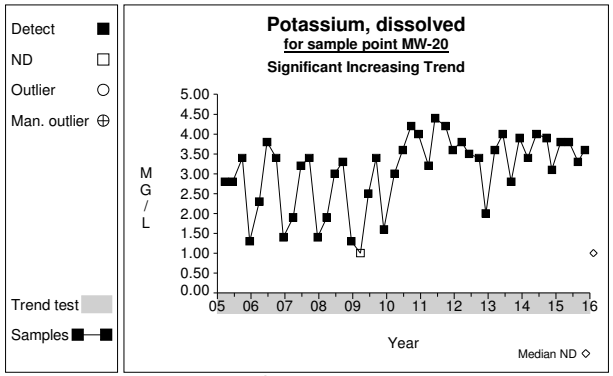
Graph 413



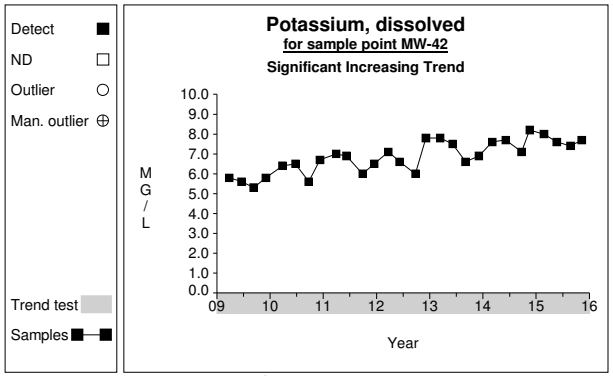
Graph 425



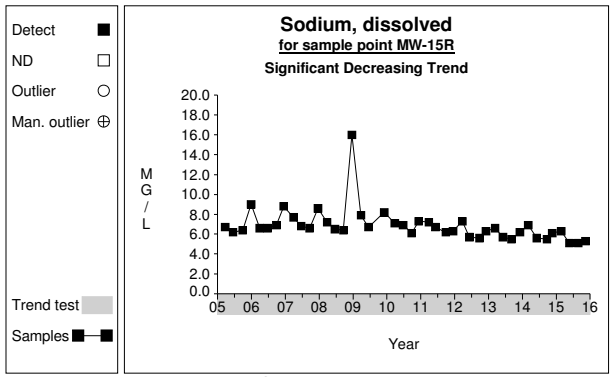
Graph 438



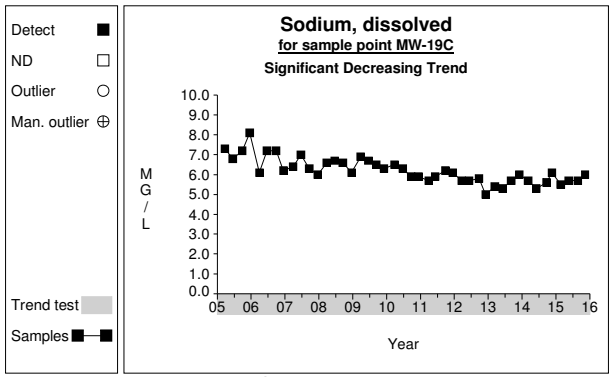
Graph 446



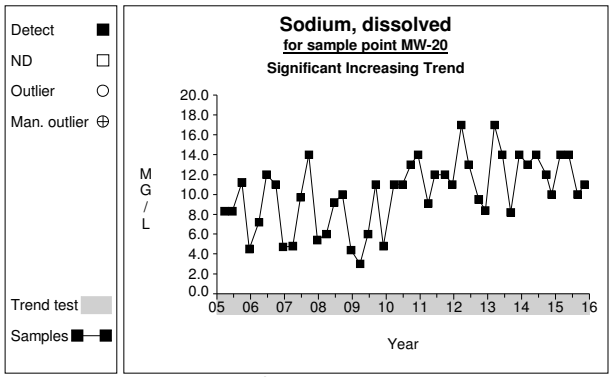
Graph 460



Graph 509

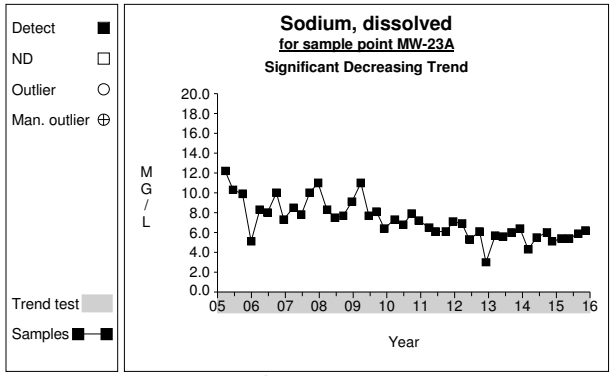


Graph 511

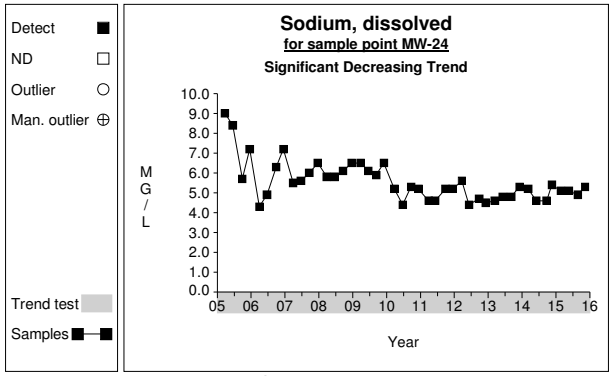


Graph 512

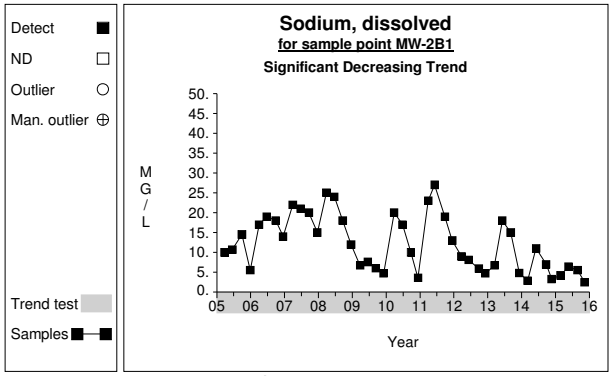
Time Series



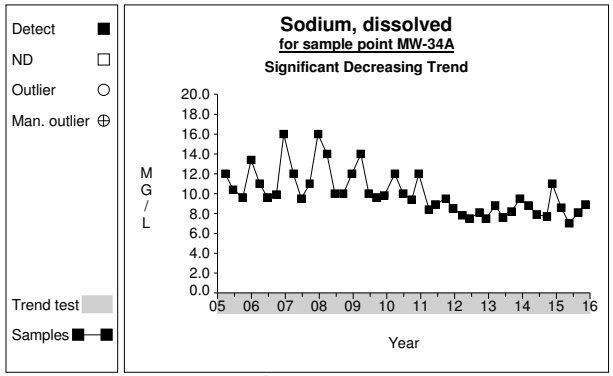
Graph 513



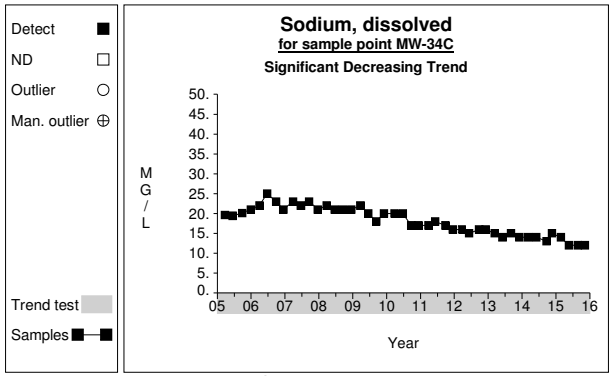
Graph 514



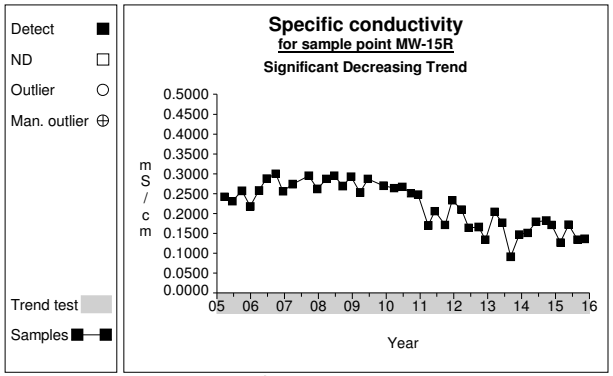
Graph 516



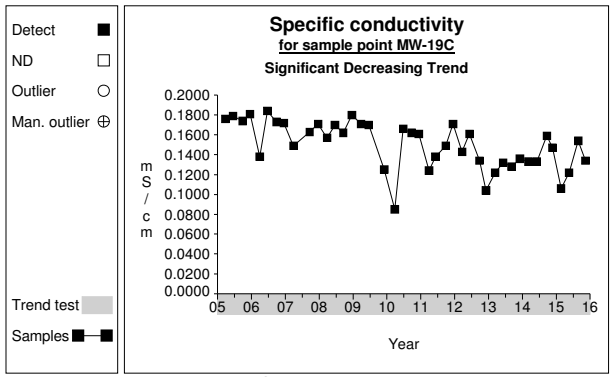
Graph 520



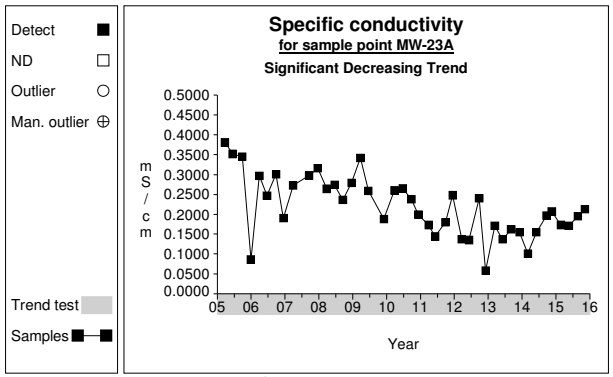
Graph 521



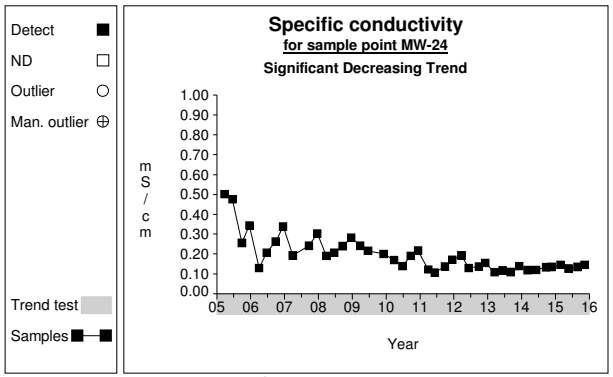
Graph 531



Graph 533

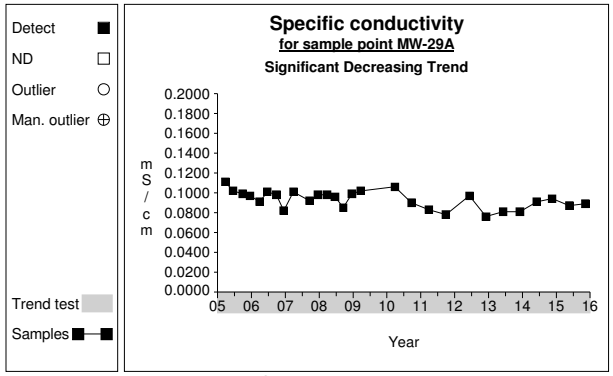


Graph 535

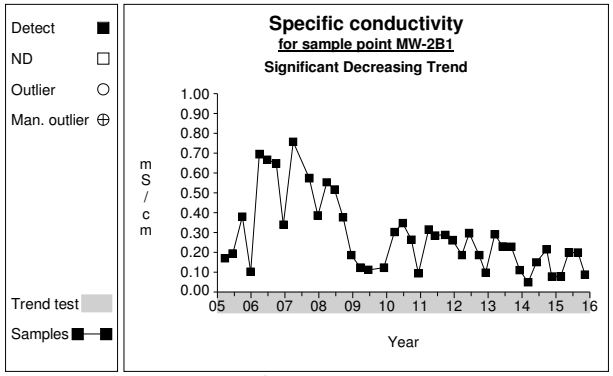


Graph 536

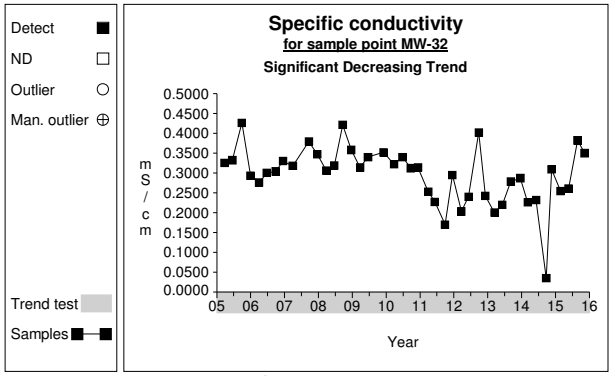
Time Series



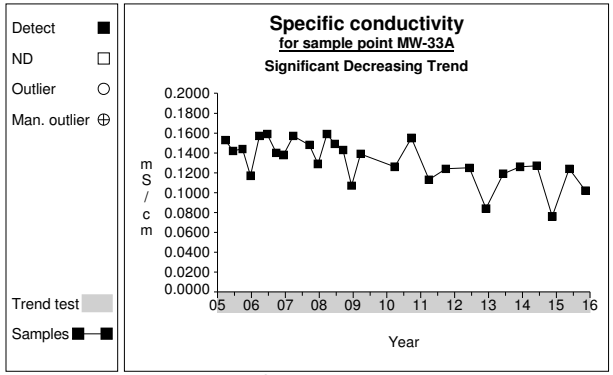
Graph 537



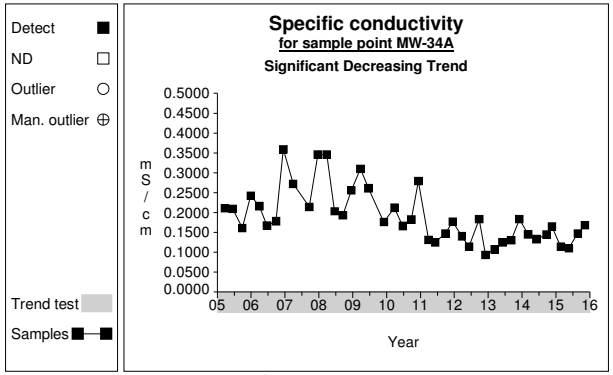
Graph 538



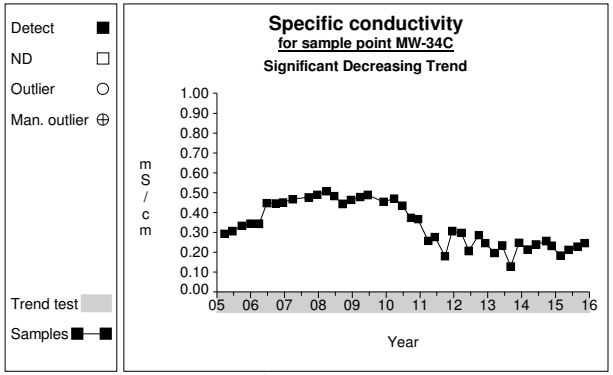
Graph 539



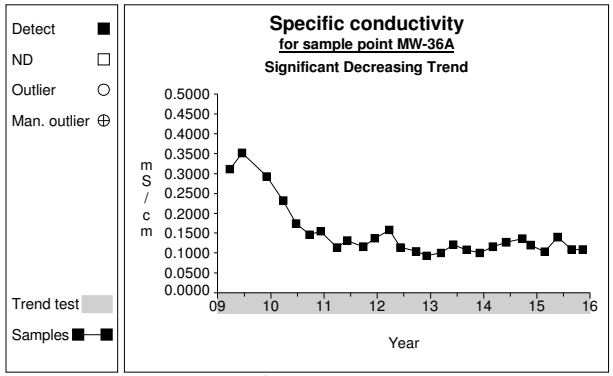
Graph 540



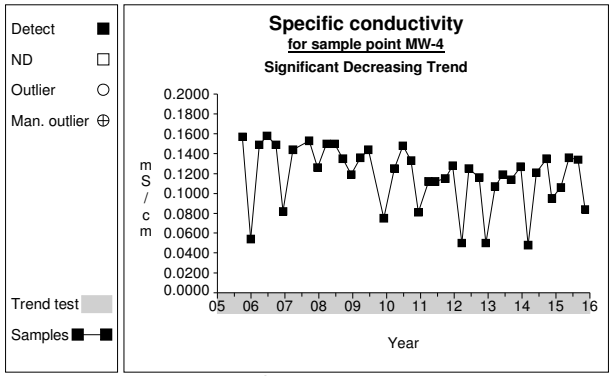
Graph 542



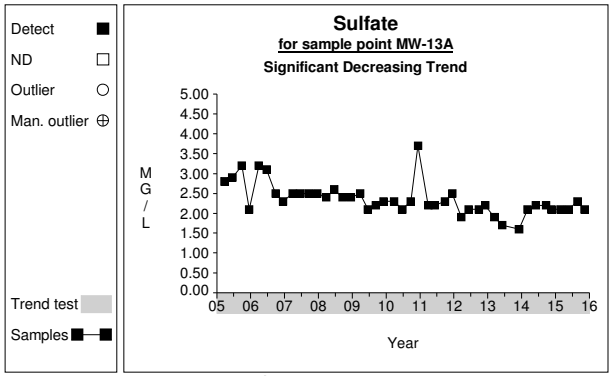
Graph 543



Graph 545

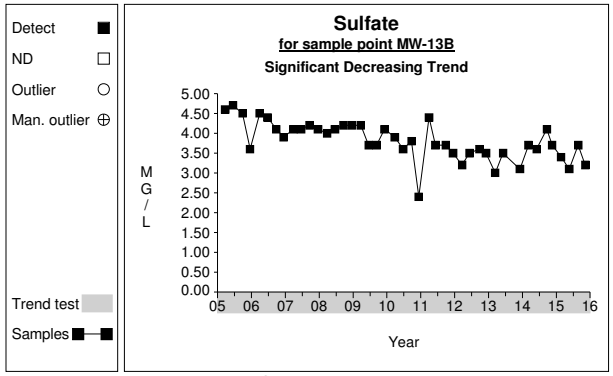


Graph 547

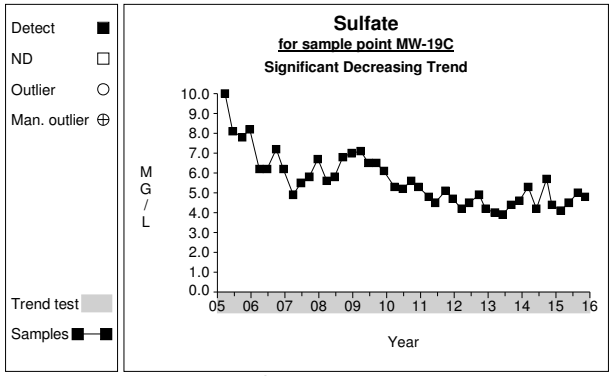


Graph 551

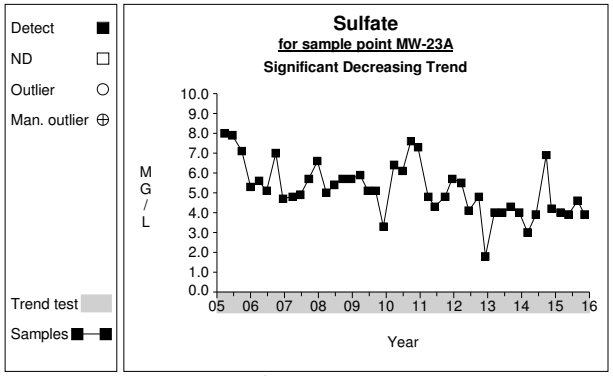
Time Series



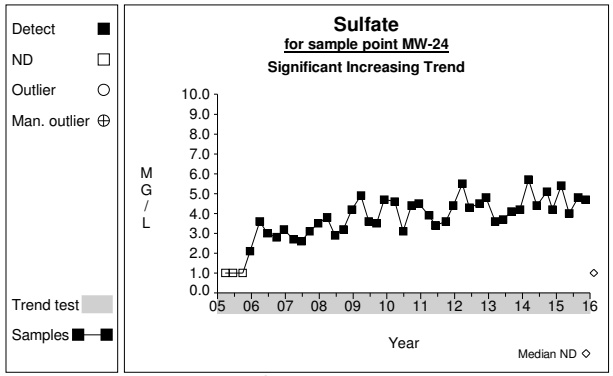
Graph 552



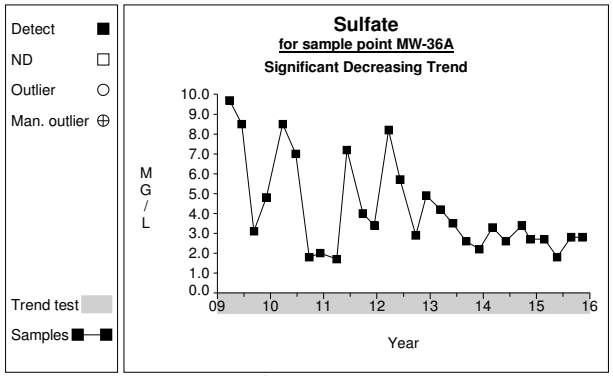
Graph 555



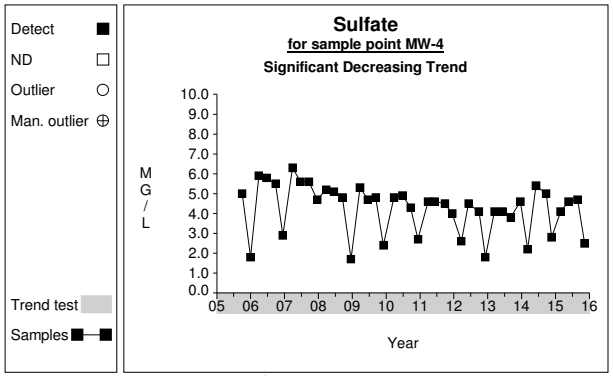
Graph 557



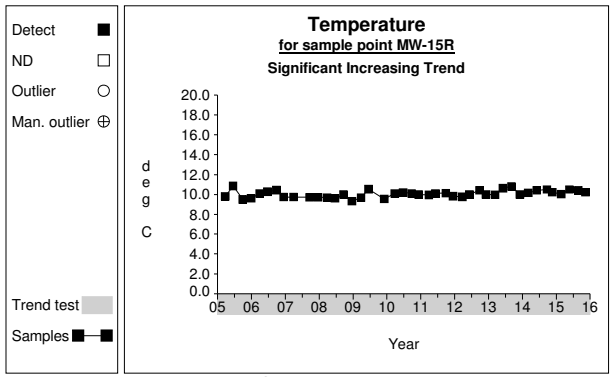
Graph 558



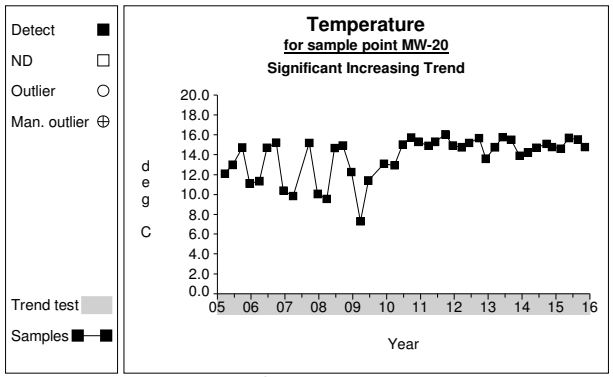
Graph 567



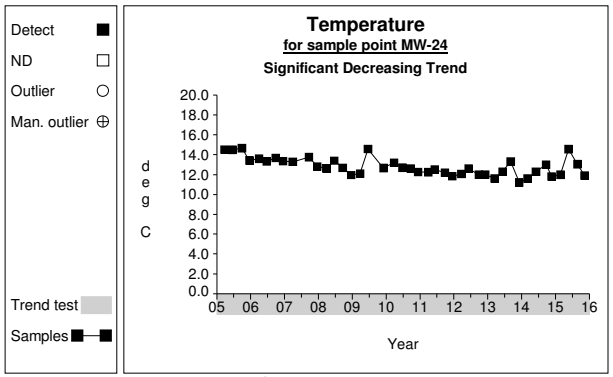
Graph 569



Graph 575

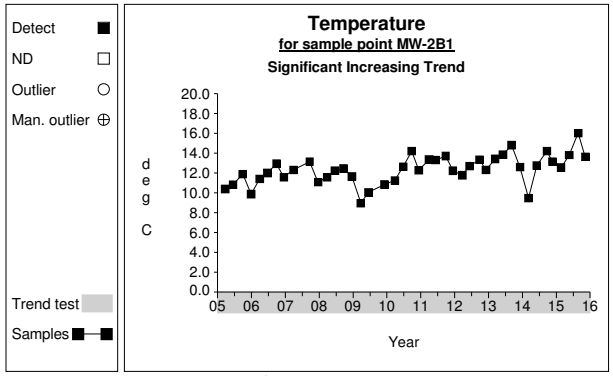


Graph 578

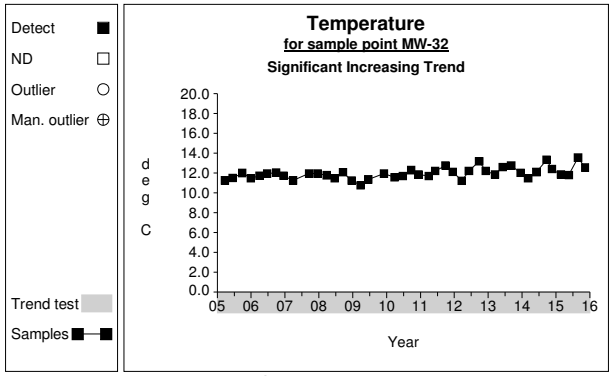


Graph 580

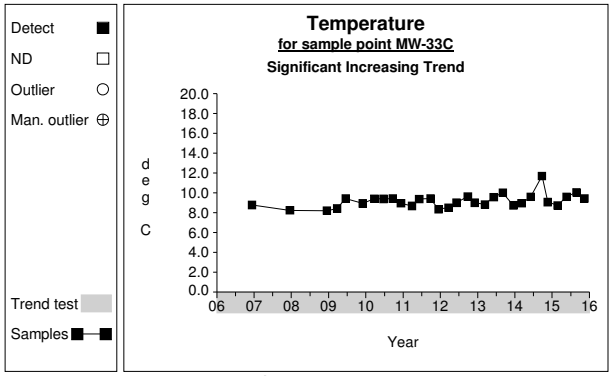
Time Series



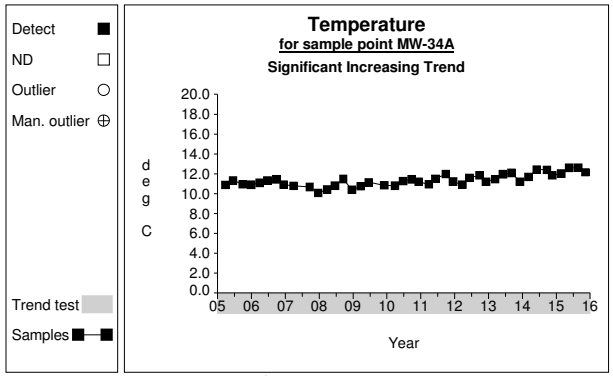
Graph 582



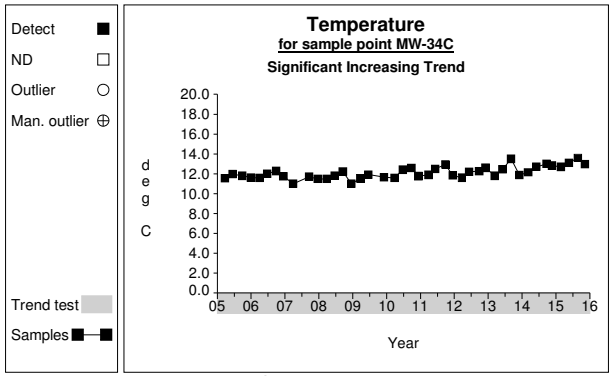
Graph 583



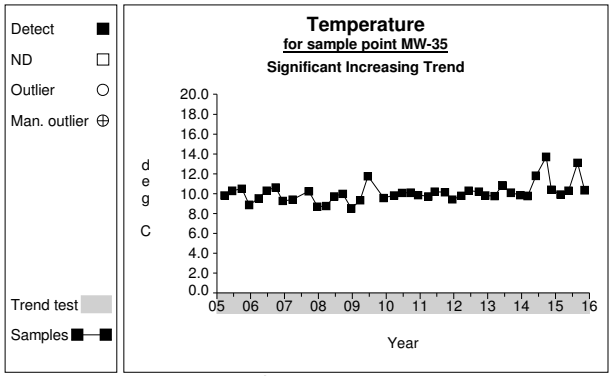
Graph 585



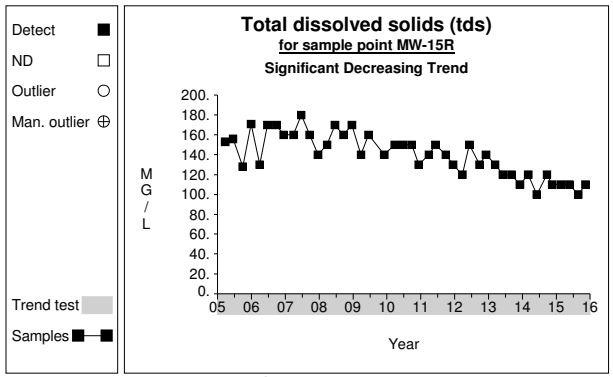
Graph 586



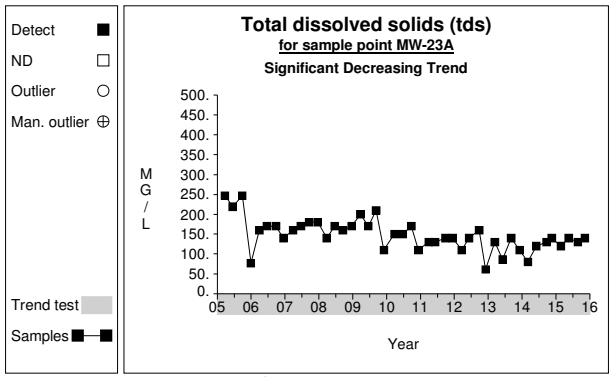
Graph 587



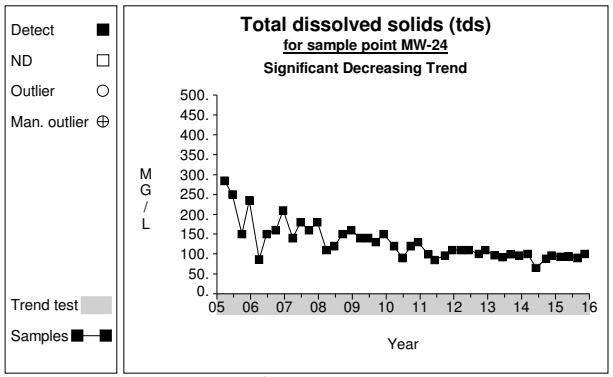
Graph 588



Graph 619

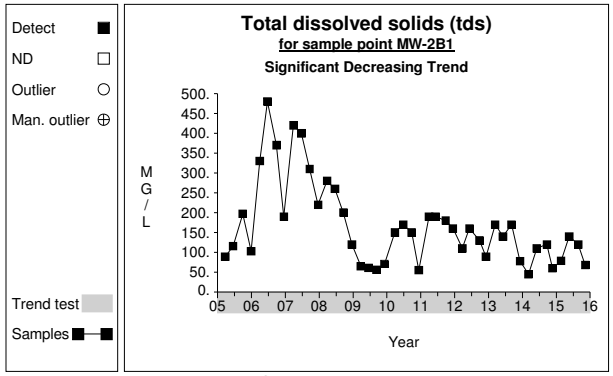


Graph 623

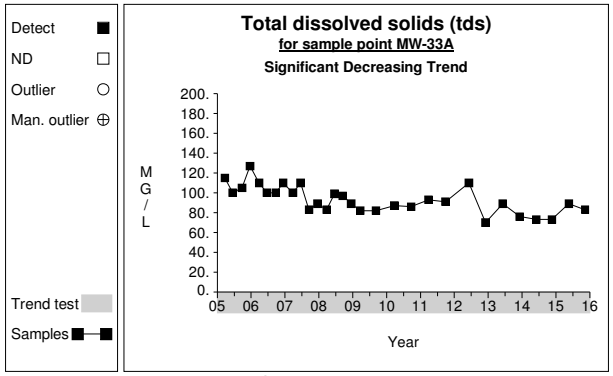


Graph 624

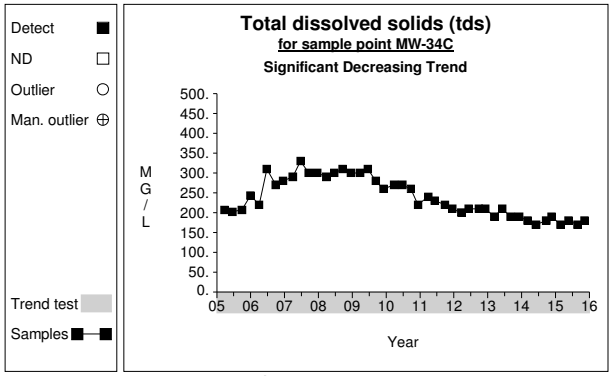
Time Series



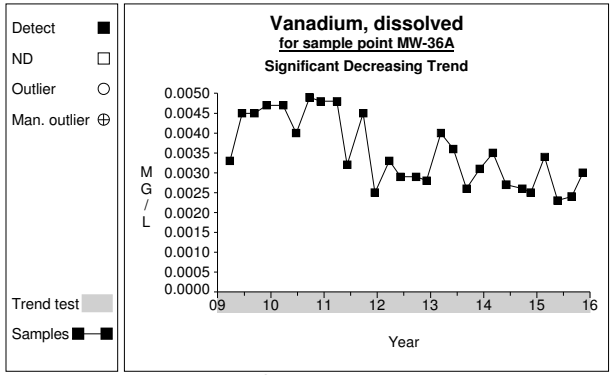
Graph 626



Graph 628



Graph 631



Graph 677