SCS ENGINEERS

2014
Annual Monitoring Report
Olympic View Sanitary Landfill

Presented To:

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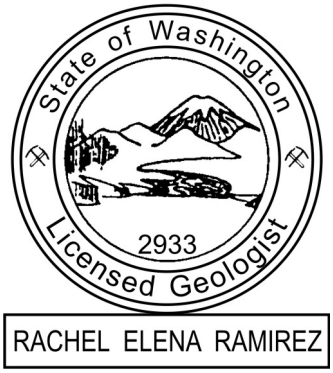

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1.0 INTRODUCTION

This report summarizes the results of the 2014 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 March, June, September, November, and December of 2014. Quarterly environmental monitoring at the OVSL includes sampling and analysis of groundwater and leachate pond leak detection liquid, and monitoring landfill gas. Leachate influent monitoring is also conducted at the OVSL, but on an annual basis.

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 Health District (KCHD).

SCS Engineers (SCS) and SCS Field Services (Field Services) performed quarterly environmental monitoring at the OVSL during March through December 2014. 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 landfill gas 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 landfill gas 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 background prediction limits
- A comparison of groundwater monitoring results to site-specific cleanup levels and other applicable criteria
- Field documentation from the 2014 monitoring events
- The Fourth Quarter 2014 data validation report and associated analytical laboratory reports
- A summary of historical landfill gas monitoring measurements

Previously issued analytical laboratory data reports for the first three quarters of the 2014 will not be reissued with this report and can be found in the respective quarterly monitoring reports. Similarly, landfill gas migration monitoring results for the first three quarters of the 2014 reporting year are reported separately in respective quarterly monitoring reports.

In order to conserve paper resources, the complete 2014 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 material 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 site. 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 included construction of a landfill gas monitoring system, an active landfill gas collection and treatment system, a leachate collection and treatment system, a storm water drainage control system, and a final 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 landfill gas collection system consists of a total of 81 well heads (69 vertical wells, 4 horizontal wells, and 8 interconnections to the leachate collection system) connected to a gas treatment flare station. The leachate collection system consists of subgrade collection piping and a leachate collection lagoon. A storm water drainage control system controls storm water erosion and minimizes off-site migration of sediment-laden water (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. The site topography ranges from approximately 150 to 360 feet above mean sea level (MSL). The land surface generally slopes to the west-southwest towards the Union River, which is located approximately a half mile west of the site.

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

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. The Remedial Investigation Report (Parametrix 2007) identified the following main stratigraphic units at the Site:

- Organic Soils and Peat (Qw)
- Alluvium (Qal)
- Vashon Recessional Outwash (Qvr)
- Vashon Lacustrine Recessional Outwash (Qvrl)
- Vashon Till (Qvt), Vashon Advance Outwash (Qva)
- Vashon Advance Lacustrine Deposits (Qval)
- 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 2014 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 as well as eliminating cross contamination between wells. Each dedicated bladder pump is positioned with its inlet located within the screened interval of the well. Well construction, development, and pump installation are reported in detail in the *Report of 2005 Gas Probe and Monitoring Well Installations at OVSL* (SCS Engineers 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 2014. The quarterly events were completed in March, June, September, and November 2014. Beginning with the fourth quarter 2014 monitoring event, Ecology granted a requested modification to the quarterly water quality sampling schedule that will shift future events to the months of February, June, August, and November. A letter amendment has been attached to the current SAP to document this change. In accordance with the SAP, monitoring wells MW-29A and MW-33A were sampled on a semiannual basis during June and November 2014.

3.1.3 Parameters and Analytical Methods

The analytical program for groundwater quality monitoring in during the 2014 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, and 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 (Totals 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)

Laboratory methods used 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, 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 2014).

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-measured were measured as described in *Standard Methods for the Examination of Water and Wastewater* (APAH 2014). Prior to initiating the purge process, 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 2014).

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, therefore 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 immediately downstream of the force main outfall on the north end 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 2014. The OBWL-TD station did not contain adequate sample volume for sample collection, as determined during the fourth quarter 2014 monitoring event. The LP-LCD was sampled quarterly in 2014.

3.2.3 Parameters and Analytical Methods

A summary of the analytical parameters tested for the leachate samples collected at the OVSL is presented in the table below.

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)

Laboratory methods are the same methods used for groundwater samples. All laboratory analyses were completed by TestAmerica labs in Denver, Colorado and Buffalo, 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. The L-INF monitoring station was dry in 2014 so the L-INF sample was collected 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 2014).

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.

Landfill gas 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. Landfill gas monitoring procedures are detailed in the 2013 SAP.

3.3.1 Landfill Gas Monitoring Network

Landfill gas 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 February, May, July, and December 2014. 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 landfill gas 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. Landfill gas 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 landfill gas monitoring event. Atmospheric pressure fluctuations can influence gas concentrations and pressure in gas probes. To assist in interpreting data, barometric conditions were recorded during and prior to monitoring. The barometric trends for December 2014 are included in this report.

4.0 2014 MONITORING RESULTS

4.1 GROUNDWATER

4.1.1 Groundwater Elevation and Flow

Seven wells (MW-1, MW-14, MW-23A, MW-29A, MW-43, MW-40A, and MW-41A) could not be accessed, were obstructed, had low conductivity groundwater, or were dry for at least one quarter of 2014. Recorded depth-to-water levels are summarized in field documentation included in Appendix A.

Depth-to-water measurements collected through 2014 were used to calculate groundwater elevations in feet relative to MSL. The 2014 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 of the groundwater elevations over time is presented on Figure 5. Groundwater elevations ranged from approximately 140 to 260 ft. MSL over the 2014 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 2014 Hydraulic Gradient and Flow Velocities – East Side				
	Q1	Q2	Q3	Q4
Well Pair	MW-35/MW-24			
Hydraulic Gradient (ft./ft.)	0.0343	0.0330	0.0337	0.0338
Flow Velocity (ft./day)	2.97	2.86	2.92	2.93
Calculated 2014 Hydraulic Gradient and Flow Velocities – West Side				
	Q1	Q2	Q3	Q4
Well Pair	MW-20/MW-38			
Hydraulic Gradient (ft./ft.)	0.0120	0.0136	0.0136	0.0127
Flow Velocity (ft./day)	6.17	6.99	6.99	6.50

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

2014. 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.

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 a 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 2014 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 2014 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 2014 monitoring event are presented in Figures 6A through 6D and summarized in the tables below.

Dissolved Arsenic (mg/L) - November 2014 (Figure 6A)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	0.00011	0.00009	0.00004	0.0002
Locations	MW-35	MW-23A	MW-43	MW-33A
High	0.00029	0.00307	0.0016	0.0092
Locations	MW-13B, MW-16	MW-19C	MW-42	MW-32

Dissolved Iron (mg/L) – November 2014 (Figure 6B)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	All less than <0.06	<0.06	<0.06	0.066
Locations		MW-2B1, MW-4, MW-20, MW-24	MW-15R, MW-34A	MW-36A
High		0.46	29	5.1
Location		MW-23A	MW-39	MW-33A

Dissolved Manganese (mg/L) – November 2014 (Figure 6C)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	<0.001	0.16	<0.001	<0.001
Locations	MW-13A, MW-13B, MW-35	MW-20	MW-34A	MW-36A
High	0.012	2.1	5.0	2.4
Locations	MW-16	MW-23A	MW-42	MW-32

Vinyl Chloride (µg/L) – November 2014 (Figure 6D)				
Concentration	Upgradient	Performance	Compliance	Downgradient
Low	All less than <0.02	<0.02	<0.02	<0.02
Locations		MW-2B1, MW-24	MW-34A, MW-39, MW-43	MW-29A, MW-33A, MW-33C, MW-36A
High		0.09	0.12	0.39
Locations		MW-19C	MW-34C	MW-32

Groundwater impacts are seen in each category of monitoring wells at the Site. The highest detected concentrations of arsenic and manganese in Upgradient (background) monitoring wells were observed at MW-13B (arsenic, 0.00029 mg/L) and MW-16 (arsenic, 0.00029 mg/L and manganese, 0.012 mg/L). The highest concentrations of these parameters noted in Performance monitoring wells were observed at wells MW-19C (arsenic, 0.00307 mg/L; vinyl chloride, 0.09 µg/L) and MW-23A (iron, 0.46 mg/L and manganese, 2.1 mg/L). The highest detected concentrations of these parameters in Compliance monitoring wells were observed in wells MW-34C (vinyl chloride, 0.12 µg/L), MW-39 (iron, 29 mg/L), and MW-42 (arsenic, 0.0016 mg/L and manganese, 5.0 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, 2014. This evaluation was conducted for parameters listed in Appendices I and II

of WAC 173-351-990 -- organized into two groups: "Trend Test A" and "Trend Test B". The "Trend Test A" time series include 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 include Appendix I and II inorganic and ground water 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 many 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 15 inorganic parameters and two VOCs. 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 for the Compliance monitoring wells are summarized below.

Significant Trends in Compliance Wells (2005 - 2014)			
Increasing		Decreasing	
Parameter	Wells	Parameter	Wells
Chromium, Dissolved	MW-34A	Alkalinity, Total	MW-15R
pH	MW-42	Arsenic, Dissolved	MW-34C
Potassium, Dissolved	MW-42	Barium, Dissolved	MW-15R
Temperature	MW-34A, MW-34C	Bicarbonate Alkalinity	MW-15R
		Calcium, Dissolved	MW-15R, 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
		Sodium, Dissolved	MW-15R, MW-34A, MW-34C
		Specific Conductivity	MW-15R, MW-34A, MW-34C
		Sulfate	MW-34A
		Total Dissolved Solids	MW-15R, MW-34C
		Vinyl Chloride	MW-34C

4.1.4 Groundwater Geochemistry

The geochemical character of groundwater, LP-LCD, and L-INF samples was evaluated by plotting and comparing geochemical parameters using a Piper diagram for the November 2014 analytical results. Groundwater samples collected during November 2014 were of similar geochemical water type with clear differences seen between the groundwater, L-INF, and LP-LCD samples. As noted for past compliance years, the positions of samples on the diagram indicate that the dominant anion in groundwater samples continues to be bicarbonate, while the cations are still dominated by calcium and magnesium. The LP-LCD and L-INF samples have higher sodium and potassium levels than groundwater, as well as higher chloride levels. The Piper diagram for November 2014 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 2014 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)	2.10-3.43	1.68-5.60	3.74-9.96	1.03-6.92
Balance (%)	2.9-3.5	-0.2-8.2	-18.1-9.6	-6.5-10.0

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 2014 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 ground water 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 2014 in eleven of the Downgradient and Compliance groundwater monitoring wells (MW-15R, MW-29A, MW-32, MW-33A, MW-33C, MW-34A, MW-34C, MW-36A, MW-39, MW-42, and MW-43). Well MW-42 reported the largest number of prediction limit exceedances (18 in total). A summary of the latest prediction limit exceedances for the November 2014 results for Compliance and Downgradient wells is presented on Table 7. Prediction limit calculations 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/total alkalinity and sulfate), MW-13B (bicarbonate/total alkalinity and sulfate), MW-16 (pH and arsenic), 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 appaarent increasing trend could impart a positive bias on the calculated prediction limit. However, examination of the time series graphs presented in Appendix C indicates that the noted increasing trends for these parameters in these wells is relatively slight. Therefore, any bias to the prediction limit would be expected to be nominal and not significantly change the number of bicarbonate and total alkalinity exceedances.

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 2014 exceedances.

Chemicals of Concern	Units	Site-specific MTCA Cleanup Level	Exceedances in 2014
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	Yes
Vinyl Chloride	µg/L	0.2	Yes

Blue indicates COC in 2014 exceeded site-specific MTCA Cleanup Levels

Several indications of improving groundwater quality or groundwater continuing to remain stable were observed in 2014. For 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 five of six Compliance well locations (refer to Table 8): MW-34A (arsenic); MW-34C (arsenic, iron, manganese); MW-39 (ammonia, arsenic, iron, and manganese); MW-42 (ammonia, arsenic, iron, manganese); and MW-43 (iron and manganese). In 2014, as in 2013, a significant decreasing trend was reported for manganese in MW-15R, and was reported for arsenic and iron in MW-34C. The 95% UCLs for select VOCs were below the site-specific MTCA cleanup levels in all of the Compliance monitoring wells.

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 (arseneic and iron), MW-33C (arsenic), and MW-36A (arsenic). Other than vinyl chloride in MW-32, all of the 95% UCLs for

the select VOCs were 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 2014 reporting period by parameter and well are summarized on Table 9. Criteria for the seven analytes were exceeded:

- pH
- Ammonia
- Arsenic, Total and Dissolved
- Iron, Total and Dissolved
- Manganese, Total and Dissolved
- Trichloroethene
- Vinyl chloride

4.2 LEACHATE MONITORING RESULTS

4.2.1 Leachate Quality

The results of the fourth quarter 2014 leachate influent sample (L-INF) analysis are presented alongside the groundwater sampling results on Table 4E. No volatile organic compounds 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 2014 (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. During the 2014 reporting period, approximately 1,106,803 gallons of leachate were reported to have been pumped into the leachate collection pond. As noted in the previous annual report *2014 Annual Monitoring Report, Olympic View Sanitary Landfill* (SCS 2014), a decrease in leachate volume (550,000 gallons less than 2012 or 1,102,482 total gallons for the year) had been observed during the 2013 monitoring year relative to the volume observed in 2012. Although, leachate volumes were not further reduced in 2014, there was a significant increase in annual rainfall over the previous year. Approximately 63.24 inches of precipitation were reported for the area during 2014 compared to 28 inches in 2013. These data indicate that ongoing improvements to site maintenance and existing infrastructure have significantly reduced leachate generation rates (per inch precipitation) at the OVSL. The amount of leachate produced on a quarterly and annual basis over the last five years is 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 2014 are presented on Table 10. Approximately 2,230 gallons of liquid were removed from the collection system during 2014 which is a reduction of more than 20 percent.

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, and 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 landfill gas probes and surface structure locations were monitored for the presence of landfill gases. The December 2014 results are summarized in Table 11.

Gas concentrations and pressures are also influenced by fluctuating barometric pressure. To assist in interpreting data, barometric conditions were recorded prior to and during monitoring. Barometric trends for December 2014 are presented on Figure 8.

4.3.1 Perimeter Gas Probe

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). Methane was only detected at one location (GP-15 at 0.4 percent by volume) at a level slightly higher than the instrument detection limit of 0.3 percent by volume. Carbon dioxide was measured at all gas probes ranging from 0.1 (GP-13D) to 8.3 percent by volume (GP-7). The reading from GP-13D is below the level of quantification for the instrument and is considered to be a zero value. Depressed oxygen levels (less than 20.3 percent by volume) were reported at the majority of gas probes, ranging from 0.0 (GP-15) to 20.10 percent by volume (GP-12S). Two probe locations had oxygen levels that were not depressed: GP-10S (20.5 percent by volume) and GP-13D (20.7 percent by volume). Representative relative (static) pressure readings in the perimeter gas probes ranged from -1.19 to 0.45 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 2014 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 2014, monitoring showed no presence of methane in either the South Slope Well House or the Scale House. Carbon dioxide was detected at 0.1 percent by volume in onsite structures. Oxygen concentrations at both structures were not depressed.

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 2014 are presented on Figure 8. On December 29, landfill gas monitoring was conducted during a period of slightly rising 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 indicate that from 2005 through 2014 that contaminants in groundwater continue to decline with fewer exceedances in site-specific MTCA cleanup levels in groundwater reported at POC monitoring wells and downgradient of the site overtime. The 2014 reporting year saw a further reduction in 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 continues.

Similarly, landfill gas production at the OVSL continues to decline with flow rates decreasing rapidly to several orders of magnitude below their model production high as the depletion of methane and other landfill gases continues at the site. It is anticipated that on-going monitoring efforts in 2015 will continue to show improving environmental conditions and increased landfill stability.

5.1 GROUNDWATER

5.1.1 Groundwater Quality

Elevated concentrations of certain volatile organic compounds (VOCs), general chemistry parameters, inorganic analytes, and field parameters continue to be detected in the monitoring wells adjacent to the OVSL during the 2014 reporting period.

Water quality standards were exceeded for seven analytes: pH, dissolved arsenic, dissolved iron, dissolved manganese, ammonia, trichloroethene, and vinyl chloride. The results from the 2014 monitoring year are generally consistent with those reported for previous years although overall trends show concentrations decreasing.

The only primary federal MCL exceedances at the OVSL for the 2014 reporting period were for arsenic in wells MW-32 (0.0142 mg/L and 0.0266 mg/L) and MW-34C (0.0628 mg/L). Samples were from unfiltered groundwater collected during either the March or June monitoring events. The primary MCL for vinyl chloride was not exceeded during the reporting period and has not been exceeded since 2006.

MTCA corrective action monitoring during 2014 reported 95% UCL groundwater cleanup goal exceedances at ten of eleven compliance and downgradient wells at the OVSL. Compliance well MW-15R did not report any exceedances. With the exception of vinyl chloride in MW-32, the only parameters to report exceedances of the site specific MTCA cleanup levels were ammonia, arsenic, iron, and manganese. 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 COCs relative to their respective cleanup levels indicates improving

groundwater quality during 2014. Furthermore, Downgradient and Compliance wells exhibited only decreasing significant trends in site-specific COCs in 2014.

Prediction limits for inorganic parameters were exceeded in eleven groundwater monitoring wells. Significantly increasing concentrations trends (using Sen's Non-Parametric Test for Trend) were reported for at least one inorganic parameter at thirteen well locations, and significantly decreasing trends also occurred at sixteen 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 2014) to those previously documented from 2005 through 2013, 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.

The on-going improvement observed in water quality throughout 2014 is illustrated by the overall stability and decreasing trends observed in the 95% UCLs calculated and compared to cleanup levels for the site-specific MTCA cleanup levels. These data continue to support the conclusion that natural attention is occurring as expected at the OVSL.

Significant areas across and immediately downgradient of the waste cells exhibit an anaerobic and/or reducing geochemistry, especially at those wells showing most elevated contaminant concentration (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 may still continue to support the degradation of vinyl chloride. This is demonstrated by the general absence of VOCs, including vinyl chloride, in downgradient wells MW-33A, MW-33C and MW-36A.

The increasing 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.

5.2 LEACHATE

Comparison of the 2014 groundwater and L-INF field and laboratory results confirm 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 dissolved solids, total organic carbon, and barium. Vinyl chloride was not reported in the 2014 L-INF sample, and has not been since 2011.

The LP-LCD monitoring station was sampled in all four quarters of 2014. These samples continue to report elevated specific conductivity, alkalinity, ammonia, calcium, chloride, iron, manganese, sodium, sulfate, TDS and TOC compared to the groundwater results.

A reduction in leachate volume generated per inch of rain was again realized in 2014. Despite increase rainfall, infrastructure improvements at the site have continued to contribute to a decrease in leachate generation rate. Liquid volumes recorded at the LP-LCD monitoring station for the leachate pond leakage collection system indicate that approximately 2,230 gallons of liquid were returned to the pond in 2014, a 20 percent reduction over 2013. The relatively low LP-LCD volumes reported during 2014 continue to suggest that leakage through the leachate pond liner system is minimal and well controlled. Previously reported metered volume readings (prior to late-2012) from the pump at the LP-LCD station had been considered to be unreliable. The re-engineered of the LP-LCD system in late 2012 has improved accuracy of reported liquid volume entering the leak detection system.

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 2014. The perimeter soil gas probe monitoring results indicate 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 structural gas monitoring locations during the 2014 reporting period. It should be noted that due to the demolition of on-site buildings during the latter half of 2009, only the South Slope Well House and the Scale House remain present at the OVSL. Going forward, structural landfill gas monitoring will continue for these buildings.

Ongoing improvements (discussed above and in previous reports) to the OVSL landfill gas extraction system and associated infrastructure, which commenced in 2007, have reduced landfill gas levels (as measured by methane, carbon dioxide and depressed oxygen levels) at both perimeter 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
2014 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
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well	Volatile Organic Compounds		Geochemical Indicator Parameters	Leachate Indicator Parameters		Field Parameters	Metals* and Nitrate	
	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
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.

OBWL-TD did not contain adequate volume to sample in 2014.

Table 3. Groundwater Elevations
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location ID	Measuring Point Elevation (ft. MSL)	Q1 March 2014		Q2 June 2014		Q3 September 2014		Q4 November 2014	
		DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Water Quality Monitoring Wells									
MW-2B1	172.94	6.95	165.99	6.80	166.14	8.43	164.51	7.79	165.15
MW-4	175.78	13.02	162.76	14.63	161.15	16.40	159.38	15.65	160.13
MW-13A	288.74	46.62	242.12	58.27	230.47	47.50	241.24	58.43	230.31
MW-13B	288.66	60.94	227.72	59.90	228.76	60.91	227.75	61.70	226.96
MW-15R	180.66	18.66	162.00	18.76	161.90	19.71	160.95	19.30	161.36
MW-16	240.01	61.48	178.53	57.33	182.68	60.00	180.01	61.07	178.94
MW-19C	196.96	34.59	162.37	33.65	163.31	35.55	161.41	34.94	162.02
MW-20	198.41	35.90	162.51	35.81	162.60	37.48	160.93	36.92	161.49
MW-23A	182.28	13.02	169.26	12.02	170.26	Dry	--	13.62	168.66
MW-24	208.25	33.81	174.44	31.85	176.40	34.11	174.14	34.25	174.00
MW-29A	160.21	11.65	148.56	13.67	146.54	16.21	144.00	NM	--
MW-32	152.36	1.25	151.11	2.15	150.21	3.15	149.21	1.76	150.60
MW-33A	147.68	3.51	144.17	7.00	140.68	6.84	140.84	8.62	139.06
MW-33C	147.59	1.05	146.54	2.32	145.27	4.00	143.59	2.50	145.09
MW-34A	197.95	39.31	158.64	39.52	158.43	40.87	157.08	40.28	157.67
MW-34C	199.89	41.12	158.77	41.32	158.57	42.69	157.20	42.10	157.79
MW-35	302.69	71.68	231.01	71.79	230.90	72.95	229.74	72.87	229.82
MW-36A	193.15	30.81	162.34	31.18	161.97	32.15	161.00	31.73	161.42
MW-39	189.92	18.61	171.31	19.88	170.04	23.00	166.92	19.13	170.79
MW-42	187.76	26.70	161.06	27.81	159.95	30.00	157.76	28.33	159.43
MW-43	186.57	22.11	164.46	24.81	161.76	26.84	159.73	NM	--
Water Level Measurement Only Wells									
MW-1	273.63	NM	--	NM	--	NM	--	NM	--
MW-2A1	174.22	8.21	166.01	9.08	165.14	10.98	163.24	8.94	165.28
MW-5	164.37	2.93	161.44	3.25	161.12	4.67	159.70	3.60	160.77
MW-9	160.34	2.81	157.53	3.13	157.21	4.02	156.32	3.50	156.84
MW-10	155.12	2.99	152.13	4.08	151.04	5.69	149.43	4.97	150.15
MW-11	155.04	3.69	151.35	5.12	149.92	6.73	148.31	5.10	149.94
MW-12	233.09	49.11	183.98	45.87	187.22	49.58	183.51	67.03	166.06
MW-13	288.94	28.46	260.48	29.97	258.97	29.99	258.95	49.40	239.54
MW-14	228.22	NM	--	NM	--	NM	--	NM	--
MW-17	208.01	34.18	173.83	32.05	175.96	35.05	172.96	33.61	174.40
MW-18	258.34	65.65	192.69	62.76	195.58	65.50	192.84	51.12	207.22
MW-19A	195.74	33.50	162.24	32.43	163.31	34.27	161.47	33.62	162.12
MW-19B	195.82	33.60	162.22	32.49	163.33	36.38	159.44	35.74	160.08
MW-19D	196.83	33.91	162.92	32.51	164.32	34.25	162.58	33.64	163.19
MW-21	156.03	4.17	151.86	5.10	150.93	6.92	149.11	7.00	149.03
MW-23B	182.42	13.46	168.96	12.36	170.06	14.41	168.01	14.00	168.42
MW-23C	182.41	13.86	168.55	12.47	169.94	14.97	167.44	14.52	167.89
MW-26	189.73	13.68	176.05	11.13	178.60	13.07	176.66	13.62	176.11
MW-27	200.65	24.31	176.34	21.48	179.17	23.78	176.87	24.34	176.31
MW-28	181.05	6.72	174.33	5.53	175.52	6.88	174.17	6.81	174.24
MW-29B	161.69	16.62	145.07	17.22	144.47	18.95	142.74	18.90	142.79
MW-29C	156.92	11.07	145.85	11.92	145.00	13.75	143.17	13.74	143.18
MW-30A	166.74	23.58	143.16	24.11	142.63	25.79	140.95	24.75	141.99
MW-30B	166.60	23.42	143.18	23.86	142.74	25.78	140.82	24.59	142.01
MW-31	148.28	1.86	146.42	2.70	145.58	4.37	143.91	2.63	145.65
MW-33B	147.55	1.15	146.40	2.38	145.17	3.64	143.91	2.52	145.03
MW-34B	198.93	39.22	159.71	39.44	159.49	41.00	157.93	40.04	158.89
MW-36	189.39	30.90	158.49	31.20	158.19	32.20	157.19	31.79	157.60
MW-37	145.93	3.11	142.82	4.00	141.93	6.19	139.74	4.53	141.40
MW-38	149.93	18.61	131.32	4.08	145.85	5.81	144.12	4.83	145.10
MW-40A	176.63	14.79	161.84	15.23	161.40	Dry	--	16.71	159.92
MW-40B	176.72	14.83	161.89	15.05	161.67	17.25	159.47	16.66	160.06
MW-40C	176.78	16.43	160.35	15.62	161.16	17.55	159.23	17.29	159.49
MW-41A	195.91	25.53	170.38	23.89	172.02	Dry	--	26.43	169.48
MW-41B	196.24	26.13	170.11	24.28	171.96	26.75	169.49	26.92	169.32
MW-41C	196.15	27.49	168.66	25.87	170.28	28.27	167.88	28.24	167.91

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

-- = Groundater elevation not calculated

Please Note: MPE for well MW-1 is approximate ground surface elevation (not top of casing elevation).

Table 4A. Detections and Field Measurements - Compliance Monitoring Wells
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-15R 3/3/2014	MW-15R 6/3/2014	MW-15R 9/23/2014	MW-15R 11/19/2014	MW-34A 3/4/2014	MW-34A 6/4/2014	MW-34A 9/23/2014	MW-34A 11/19/2014	MW-34C 3/4/2014	MW-34C 6/3/2014	MW-34C 9/23/2014	MW-34C 11/19/2014	MW-39 3/5/2014	MW-39 6/3/2014	MW-39 9/22/2014	MW-39 11/18/2014	MW-42 3/3/2014	MW-42 6/4/2014	MW-42 9/23/2014	MW-42 11/18/2014	MW-43 3/4/2014	MW-43 6/2/2014	MW-43 9/23/2014	MW-43 11/18/2014
Field Parameter																									
Dissolved Oxygen	mg/L	1.57	0.55	0.53	0.78	0.96	6.31	5.55	1.54	0.32	0.55	0.56	0.38	0.39	1.2	--	4.58	0.15	0.51	0.5	0.38	6.03	0.9	0.43	2.43
Oxidation Reduction Potential	mV	105	-79.8	118.6	303	128	155	240.4	334	18.6	-90.9	77.3	183	88	-14	-72	36.9	-89	-44	-68	6.9	138.4	62	193	146.6
pH	pH	6.4	6.78	6.19	6.31	6.34	6.12	5.41	5.62	6.9	6.77	6.3	6.22	5.83	6.3	6.3	5.98	6.5	6.57	6.56	6.41	5.97	6.11	5.84	5.61
Specific Conductivity	umhos/cm	151	179	182	171	145	133	144	165	213	239	256	232	117	251	249	213	482	531	503	573	29	43	45	59
Temperature	deg C	10.15	10.41	10.5	10.22	11.69	12.43	12.4	11.85	12.15	12.7	13	12.83	10.82	10.9	13.48	11.7	12.01	11.5	13.67	12.2	8.09	10.6	11.83	12.1
Turbidity	NTU	0.74	1.04	3.42	2	1.98	1.07	3.22	3	106.3	171.1	24.47	84	10.44	8.6	21.3	2	4.09	3.51	0.77	24	1.58	1.9	4	4
General Chemistry																									
Alkalinity, Bicarbonate (As CaCO3)	mg/L	90	93	79	84	85	59	63	79	130	150	120	110	64	91	83	98	250	220	190	230	13	17	16	21
Alkalinity, Total (As CaCO3)	mg/L	90	93	79	84	85	59	63	79	130	150	120	110	64	91	83	98	250	220	190	230	13	17	16	21
Ammonia (As N)	mg/L	--	0.036	--	--	--	--	--	--	--	0.03	--	--	0.057	0.43	0.28	0.3	6.6	6.1	5.9	6.3	--	0.1	--	0.12
Calcium, Dissolved	mg/L	18	17	14	18	17	13	12	17	26	24	26	25	12	12	11	11	45	40	38	44	3.1	3.6	3.8	4.4
Chloride	mg/L	2.7	2.6	2.7	2.3	3.4	3.3	2.5	3	4.8	5	4.7	4	--	5.1	5.3	2.7	19	23	22	19	--	1.1	2.1	1.5
Iron, Dissolved	mg/L	--	--	--	--	--	--	--	--	25	0.32	59	0.59	1.6	40	33	29	28	24	25	27	0.12	0.53	--	0.7
Iron, Total	mg/L	--	--	0.11	--	--	--	--	--	26	88	65	4.9	2.2	36	33	32	26	28	24	32	0.11	24	0.22	1.7
Magnesium, Dissolved	mg/L	10	11	9.6	11	8.6	5.9	5.9	8.5	11	11	10	11	7.1	7.6	6.7	6.5	17	16	15	17	1.3	1.5	1.6	1.8
Manganese, Dissolved	mg/L	0.0016	0.0016	0.007	0.0015	--	--	--	--	0.73	0.51	1.1	1.3	0.11	0.45	0.47	0.49	5	4.9	4.4	5	0.035	0.18	0.0098	0.24
Manganese, Total	mg/L	0.004	0.0051	0.0093	0.0058	0.0014	0.0012	0.002	--	0.73	6.2	1.2	1.2	0.086	0.44	0.44	0.49	5.3	4.9	4.5	5.1	0.037	0.24	0.011	0.26
Nitrate (As N)	mg/L	0.33	--	0.11	--	0.69	1.4	1	0.77	--	--	--	--	1.5	--	--	0.19	--	--	--	--	0.38	0.29	0.2	0.81
Potassium, Dissolved	mg/L	--	--	--	--	--	--	--	--	1	--	--	2.4	--	--	--	--	7.6	7.7	7.1	8.2	--	--	--	--
Sodium, Dissolved	mg/L	6.9	5.6	5.5	6.1	8.8	7.9	7.7	11	14	14	13	15	6.2	7.9	9.5	6.9	22	21	19	20	2.2	2.6	2.4	2.8
Sulfate	mg/L	4.6	6	6.7	5	3.1	2.6	2.2	2	6.7	6.3	6.9	5.1	1.5	--	--	1.2	11	7.9	11	11	2.6	1.9	2	2.1
Total Dissolved Solids (TDS)	mg/L	120	100	120	110	130	110	110	140	180	170	180	190	78	120	120	130	300	290	260	310	32	30	38	50
Total Organic Carbon (TOC)	mg/L	--	--	--	--	1	--	--	--	1.9	2.9	1.8	--	1.1	2.7	2.2	2.4	8	8	6.2	7.9	1.3	1.8	--	1.3
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	--	--	--	77	190	210	32	9.6	66	32	--	35	37	31	170	--	13	--	4.4
Metals																									
Arsenic, Dissolved	mg/L	0.00023	0.00021	0.00015	0.0002	0.0005	0.00043	0.00044	0.0004	0.00128	0.00134	0.00132	0.00114	0.00012	0.00191	0.00157	0.00116	0.0016	0.0015	0.0016	0.0016	--	0.00004	--	0.00004
Arsenic, Total	mg/L	0.00023	0.00022	0.00016	0.00021	0.0005	0.00042	0.00044	0.0004	0.00127	0.0628	0.00127	0.00491	0.00036	0.00177	0.00151	0.00115	0.0017	0.0015	0.0016	0.0016	--	0.00005	--	0.00004
Barium, Dissolved	mg/L	0.005	0.0051	0.0052	0.0051	0.0046	0.0035	0.0035	0.0044	0.11	0.0079	0.21	0.025	0.012	0.017	0.015	0.013	0.13	0.11	0.1	0.12	0.0028	0.0047	0.0035	
Barium, Total	mg/L	0.0046	0.0084	0.0054	0.0051	0.0042	0.0044	0.0037	0.0044	0.11	0.3	0.23	0.026	0.012	0.016	0.018	0.021	0.12	0.12	0.11	0.13	0.0031	0.0055	0.0038	0.0066
Cadmium, Total	mg/L	--	--	--	--	--	--	--	--	--	0.0006	0.00025	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Dissolved	mg/L	--	--	--	--	--	0.0065	0.0071	0.0048	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium, Total	mg/L	--	--	--	--	--	0.0068	0.0071	0.0043	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0081	0.0071	0.0065	--	--	--	0.0077	--	--	--	--
Cobalt, Total	mg/L	--	--	--	--	--	--	--	--	--	0.0081	--	--	--	0.0076	0.007	0.0076	--	--	--	0.003	--	--	--	--
Copper, Dissolved	mg/L	--	--	--	--	--	--	--	--	0.005	--	0.013	0.0033	--	--	--	--	--	--	--	--	--	--	--	--
Copper, Total	mg/L	--	--	--	--	--	--	--	--	0.0055	0.028	0.015	0.0028	--	--	--	--	--	0.0024	--	--	--	--	--	--
Selenium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0012	--	--	--	--	--	--
Selenium, Total	mg/L	--	--	--	--	--	--	--	--	0.0015	0.0021	0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium, Dissolved	mg/L	0.0038	0.0035	0.0027	0.0037	0.0039	0.0051	0.0046	0.0043	0.003	--	0.005	--	--	0.0022	--	--	0.002	--	--	--	--	--	--	--
Vanadium, Total	mg/L	0.0043	0.0035	0.0027	0.0036	0.0046	0.005	0.0049	0.0038	0.0035	0.0095	0.007	--	--	0.0023	--	--	--	0.0021	--	0.0038	--	0.0081	--	--
Zinc, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0052	0.0074	0.0073	--	--	--	--	--
Volatile Organic Compounds																									
1,2-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.27 J	--	--	--	--	--
1,4-Dichlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.41 J	--	--	--	--	--
Chlorobenzene	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.51 J	--	--	--	--	--
Chlorodifluoromethane	ug/L	--	--	--	--	--	--	--	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/L	--	--	--	--	--	--	--	--	--	0.38 J	--	--	--	--	--	--	--	--	0.32 J	--	--	--	--	--
Hexane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.25 J	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.38 J	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--	--	0.26 J	--	--	--	--	--	--	--	--	0.42 J	--	--	--	--	--
Vinyl chloride	ug/L	0.0095 J	0.0098 J	0.012 J	0.0069 J	0.03	--	--	--	0.16	0.13	0.13	0.12	--	--	0.0079 J	--	0.048	0.034	0.16	0.082	--	--	--	--

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 = Milligrams per liter
mV = Milivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit

Table 4B. Detections and Field Measurements - Performance Monitoring Wells
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-2B1 3/4/2014	MW-2B1 6/4/2014	MW-2B1 9/22/2014	MW-2B1 11/20/2014	MW-4 3/4/2014	MW-4 6/3/2014	MW-4 9/22/2014	MW-4 11/20/2014	MW-19C 3/4/2014	MW-19C 6/3/2014	MW-19C 9/22/2014	MW-19C 11/20/2014	MW-20 3/3/2014	MW-20 6/4/2014	MW-20 9/23/2014	MW-20 11/20/2014	MW-23A 3/3/2014	MW-23A 6/2/2014	MW-23A 9/23/2014	MW-23A 11/18/2014	MW-24 3/4/2014	MW-24 6/3/2014	MW-24 9/22/2014	MW-24 11/20/2014
Field Parameter																									
Dissolved Oxygen	mg/L	5.47	0.63	0.29	2.2	4.96	0.3	0.58	0.33	0.24	0.8	1.19	0.47	3.73	4.77	1.33	0.84	2.65	0.2	0.91	0.83	0.22	1.2	0.72	0.41
Oxidation Reduction Potential	mV	95	100	155.3	329	173.5	106	73	217.6	-31	-33	117.4	183	90	109	104.3	322	99	71	60	93.3	105.3	43	122.9	330
pH	pH	6.68	6.57	5.82	5.86	6.29	6.56	6.71	5.73	7.06	6.67	6.1	6.58	6.6	6.67	6.37	6.33	6.27	6.47	6.43	6.26	6.75	6.43	5.7	6.05
Specific Conductivity	umhos/cm	49	150	215	78	48	121	135	95	133	133	159	147	262	330	447	246	101	155	197	207	119	120	133	135
Temperature	deg C	9.47	12.76	14.2	13.14	9.27	9.6	10.82	10.1	10.43	11.2	11.4	10.35	14.24	14.7	15.1	14.76	9.54	14.1	14.51	13.2	11.59	12.3	13	11.8
Turbidity	NTU	3.31	0.69	3.78	2	2.91	1.1	0.75	2.7	3.27	2.7	2.85	1	1.58	3.97	3.05	2	5.43	5.1	3.69	2	3.59	6.6	8.58	25
General Chemistry																									
Alkalinity, Bicarbonate (As CaCO3)	mg/L	24	76	91	37	25	59	63	47	75	66	69	70	110	120	160	100	59	87	110	94	69	56	58	62
Alkalinity, Total (As CaCO3)	mg/L	24	76	91	37	25	59	63	47	75	66	69	70	110	120	160	100	59	87	110	94	69	56	58	62
Ammonia (As N)	mg/L	--	1.7	2.2	0.063	--	--	0.064	--	0.64	0.41	0.55	0.6	--	--	--	0.031	--	--	0.046	0.035	--	--	--	--
Calcium, Dissolved	mg/L	5.4	12	13	8.7	5.1	11	11	9.4	14	13	13	14	29	31	38	25	12	18	20	20	14	11	11	14
Chloride	mg/L	--	1.2	1.1	1	1.4	2.2	2.1	1.8	3.4	2.3	2.7	2.6	12	16	19	9.5	1.2	2.8	2.7	2.7	3	3	3	2.8
Iron, Dissolved	mg/L	--	--	0.14	--	0.24	0.45	--	--	0.12	0.098	0.17	0.13	--	--	--	--	--	--	0.33	0.46	2.1	--	0.64	--
Iron, Total	mg/L	0.067	0.072	0.25	0.17	0.29	0.52	0.08	--	0.14	0.3	0.19	0.16	--	--	--	--	0.39	0.42	0.75	0.91	1.3	0.88	0.81	0.45
Magnesium, Dissolved	mg/L	2.1	4.1	6.5	3.1	2.4	6	5.7	4.7	7.2	6.4	6.8	7.2	16	17	22	15	5.5	8.4	9.2	9.2	8.2	6.7	6.1	8
Manganese, Dissolved	mg/L	0.14	1.4	2.6	0.47	1.2	0.98	0.99	0.29	1.1	0.82	1.1	1.2	0.12	0.0077	0.29	0.16	0.55	0.81	2.1	2.1	5.7	0.12	1.3	0.22
Manganese, Total	mg/L	0.16	1.4	2.6	0.51	1.9	1.2	1.5	0.35	1	0.99	1.1	1.1	0.17	0.015	0.28	0.15	0.53	0.87	2.2	2.2	3.6	2.5	2.3	1
Nitrate (As N)	mg/L	0.15	--	0.13	0.29	0.24	--	--	--	--	--	--	--	8.5	5.1	3.8	2.7	0.49	--	--	--	1.8	1	0.34	--
Potassium, Dissolved	mg/L	--	2.4	1.3	1.1	--	--	--	--	1.4	1.2	1.4	1.5	3.4	4	3.9	3.1	--	--	1.1	1.1	--	--	--	--
Sodium, Dissolved	mg/L	2.9	11	7	3.3	3.1	6	6.1	5.5	5.7	5.3	5.6	6.1	13	14	12	10	4.3	5.5	6	5.1	5.2	4.6	4.6	5.4
Sulfate	mg/L	4.7	3	11	2.7	2.2	5.4	5	2.8	5.3	4.2	5.7	4.4	10	11	15	5.7	3	3.9	6.9	4.2	5.7	4.4	5.1	4.2
Total Dissolved Solids (TDS)	mg/L	45	110	120	60	45	80	98	75	110	83	110	100	180	210	260	160	80	120	130	140	100	65	88	96
Total Suspended Solids (TSS)	mg/L	--	--	--	--	6	4.4	--	--	--	--	--	--	--	--	--	--	--	--	4.8	4	30	8	6.4	4.4
Metals																									
Arsenic, Dissolved	mg/L	0.00011	0.00061	0.00048	0.00022	0.00032	0.00049	0.00065	0.0004	0.00287	0.00261	0.00256	0.00307	0.00031	0.0002	0.00033	0.0002	0.00004	0.00012	0.00013	0.00009	0.00027	0.00024	0.00022	0.00022
Arsenic, Total	mg/L	0.00017	0.00064	0.00048	0.00034	0.00032	0.00152	0.00075	0.0004	0.00296	0.00307	0.00264	0.00319	0.0003	0.0002	0.0003	0.0002	0.00014	0.00023	0.0003	0.00018	0.00028	0.00091	0.00023	0.00061
Barium, Dissolved	mg/L	0.0019	0.0056	0.011	0.0029	0.0063	0.0076	0.0021	0.0022	0.0039	0.0031	0.0034	0.0039	0.0086	0.012	0.013	0.0063	0.011	0.0077	0.008	0.013	0.028	0.0014	0.0073	--
Barium, Total	mg/L	0.0018	0.0067	0.01	0.0032	0.0081	0.0085	0.0032	0.0024	0.0035	0.0047	0.0035	0.0033	0.0087	0.012	0.012	0.0057	0.01	0.008	0.0083	0.014	0.017	0.012	0.0092	0.0042
Cobalt, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.013	--	0.0036	--
Cobalt, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0081	0.005	0.0049	--
Copper, Dissolved	mg/L	--	--	--	--	0.002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0022	--	--
Nickel, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0065	--	--	--
Nickel, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0045	--	--	--
Vanadium, Dissolved	mg/L	--	--	--	--	0.0026	0.0021	--	--	--	--	--	--	--	--	--	0.002	--	--	--	--	0.0089	--	0.0031	--
Vanadium, Total	mg/L	--	--	--	--	0.0032	0.0024	0.0025	--	--	--	--	--	--	--	0.0021	--	--	0.002	0.0024	--	0.0061	0.0049	0.0043	0.0021
Zinc, Dissolved	mg/L	--	0.0058	--	--	--	--	--	--	0.0074	--	--	--	--	--	--	--	0.011	--	0.005	0.012	--	--	0.0053	--
Zinc, Total	mg/L	--	--	--	0.0056	--	--	--	--	--	--	--	--	--	--	--	--	0.01	--	0.0077	0.0053	--	0.013	0.0061	--
Volatile Organic Compounds																									
2-Butanone (MEK)	ug/L	--	--	--	--	--	--	--	--	--	--	--	1.5 J	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/L	--	--	--	--	--	--	--	4.1 J	--	--	--	--	--	--	--	--	--	--	--	3.4 J	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	0.55 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	--	--	--	--	--	--	1.3	1.2	1 J	1.3	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	--	--	0.0089 J	--	0.27	0.017 J	0.15	0.024	0.064	0.09	0.022	0.027	0.062	0.054	--	--	0.015 J	0.0082 J	--	--	--	--

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 = Milligrams per liter
mV = Millivolts
N = Nitrogen
NTU = Nephelometric turbidity units
SU = Standard units
-- = Parameter not detected above the project-specific reporting limit

Table 4C. Detections and Field Measurements - Downgradient Monitoring Wells
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-29A 11/18/2014	MW-29A 6/3/2014	MW-32 3/5/2014	MW-32 6/4/2014	MW-32 9/23/2014	MW-32 11/20/2014	MW-33A 11/19/2014	MW-33A 6/3/2014	MW-33C 3/5/2014	MW-33C 6/3/2014	MW-33C 9/23/2014	MW-33C 11/19/2014	MW-36A 11/19/2014	MW-36A 3/3/2014	MW-36A 6/2/2014	MW-36A 9/23/2014
Field Parameter																	
Dissolved Oxygen	mg/L	0.39	0.4	0.99	1.4	0.69	0.32	0.42	0.61	1.39	0.36	1.01	0.28	2.01	2.17	2.5	2.45
Oxidation Reduction Potential	mV	79.4	50	-39	20	-38	47.9	202	-101.9	-103	-125.8	18	70	328	96	31.1	158.1
pH	pH	6.03	6.25	6.87	6.72	6.84	6.35	5.65	7.3	7.28	7.71	7.34	7.11	5.88	6.2	6.28	5.7
Specific Conductivity	umhos/cm	94	91	226	232	34.8	309	76	127	131	144	155	148	120	116	127	136
Temperature	deg C	11.3	9.6	11.45	12.09	13.33	12.4	10.06	9.45	8.94	9.59	11.7	9.07	9.37	9.89	11.8	9.7
Turbidity	NTU	3	3.3	1.06	11.05	1.78	2.17	44	63.9	3.49	1.66	12.1	1	1	1.06	0.6	3.91
General Chemistry																	
Alkalinity, Bicarbonate (As CaCO3)	mg/L	41	42	120	110	140	130	36	63	69	69	66	66	56	64	60	56
Alkalinity, Total (As CaCO3)	mg/L	41	42	120	110	140	130	36	63	69	69	66	66	56	64	60	56
Ammonia (As N)	mg/L	0.074	0.092	--	0.03	--	--	0.21	0.044	--	--	--	--	--	--	--	--
Calcium, Dissolved	mg/L	6.5	7.2	23 B	22	32	32	9.1	14	16 B	17	16	18	11	10	11	9.7
Chloride	mg/L	2.2	1.6	10	8.7	18	12	1.7	2.8	3	3	3.1	2.8	1.5	1.5	1.8	1.5
Iron, Dissolved	mg/L	3.7	4.3	0.6	0.49	0.77	0.87	5.1	0.4	--	--	--	0.38	0.066	--	--	0.13
Iron, Total	mg/L	4.7	4.4	1.3	6.3	1.1	0.87	5	1.1	0.21	0.19	0.29	0.38	--	0.15	0.18	0.12
Magnesium, Dissolved	mg/L	3.7	4	14 B	11	16	16	4.1	6.8	7.6 B	7.1	6.7	7.4	7.2	6.6	6.9	6.6
Manganese, Dissolved	mg/L	1.3	1.3	2.1	1.8	2.6	2.4	0.11	0.0097	0.14	0.13	0.14	0.2	--	--	--	0.0063
Manganese, Total	mg/L	1.3	1.4	2.5	4.1	3	2.4	0.1	0.016	0.19	0.17	0.22	0.2	0.002	0.0067	0.0068	0.0049
Nitrate (As N)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.94	1.2	2.8	1.2
Potassium, Dissolved	mg/L	--	--	1.2	1	1.2	1.3	--	--	1.5	1.2	1.3	1.5	1.1	--	--	--
Sodium, Dissolved	mg/L	3.1	3.1	13	13	16	17	3.3	3.8	4.1	4.2	4.2	4.5	6.5	9.5	8	6.5
Sulfate	mg/L	1.4	--	14	10	21	16	1.4	3.7	9.3	8.7	9.6	7.7	2.7	3.3	2.6	3.4
Total Dissolved Solids (TDS)	mg/L	72	47	180	180	250	220	73	73	92	83	110	110	110	110	100	110
Total Organic Carbon (TOC)	mg/L	1.4	1.2	1.2	--	1.3	1.1	3	--	--	--	--	--	--	--	--	--
Total Suspended Solids (TSS)	mg/L	--	10	12	14	7.6	--	13	7.2	--	--	13	5.6	--	--	--	--
Metals																	
Arsenic, Dissolved	mg/L	0.00153	0.00143	0.0087	0.00447	0.0085	0.0092	0.0002	0.00014	0.00228	0.00225	0.00233	0.00235	0.00051	0.00066	0.0006	0.00053
Arsenic, Total	mg/L	0.0019	0.00171	0.0142	0.0266	0.0096	0.0092	0.00041	0.00025	0.00241	0.00251	0.00248	0.00254	0.00053	0.00068	0.0006	0.00053
Barium, Dissolved	mg/L	0.0094	0.0073	0.0051	0.0031	0.0053	0.006	0.0037	0.0012	0.0038	0.004	0.0037	0.0047	0.0021	0.0024	0.002	0.0038
Barium, Total	mg/L	0.01	0.0081	0.0075	0.018	0.0072	0.0059	0.0036	0.0016	0.0043	0.0045	0.0054	0.0049	0.0024	0.0029	0.0032	0.0027
Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0093	0.013	0.012	0.0094
Chromium, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	0.0085	0.014	0.011	0.0092
Cobalt, Total	mg/L	--	0.003	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper, Total	mg/L	--	0.0028	--	0.0079	--	--	--	--	--	--	--	--	--	--	--	--
Lead, Total	mg/L	--	--	--	0.0012	--	--	--	--	--	--	--	--	--	--	--	--
Selenium, Dissolved	mg/L	--	--	--	0.0011	--	--	--	--	--	--	--	--	--	--	0.0014	--
Selenium, Total	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0019	--
Vanadium, Dissolved	mg/L	--	--	--	--	--	--	0.003	--	--	--	--	--	0.0025	0.0035	0.0027	0.0026
Vanadium, Total	mg/L	--	--	--	--	--	--	0.0027	0.0021	--	--	--	--	0.0023	0.0035	0.0039	0.0029
Zinc, Dissolved	mg/L	--	--	--	--	--	0.0055	--	--	--	--	--	--	--	--	--	--
Zinc, Total	mg/L	--	0.019	--	0.016	0.0051	--	--	--	--	--	0.0079	--	--	--	--	--
Volatile Organic Compounds																	
Acetone	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/L	--	--	0.49 J	0.5 J	0.46 J	0.49 J	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	ug/L	--	--	0.54	0.4	0.44	0.39	--	--	--	--	--	--	--	--	--	--

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

Table 4D. Detections and Field Measurements - Upgradient MonitoringWells
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	MW-13A 3/4/2014	MW-13A 6/2/2014	MW-13A 9/22/2014	MW-13A 11/17/2014	MW-13B 3/4/2014	MW-13B 6/2/2014	MW-13B 9/22/2014	MW-13B 11/17/2014	MW-16 3/5/2014	MW-16 6/2/2014	MW-16 9/22/2014	MW-16 11/18/2014	MW-35 3/4/2014	MW-35 6/2/2014	MW-35 9/22/2014	MW-35 11/17/2014
Field Parameter																	
Dissolved Oxygen	mg/L	6.71	--	3.81	6.17	6.82	--	3.95	7.32	6.92	--	2.25	5.21	6.78	--	8.65	1.3
Oxidation Reduction Potential	mV	72	-79.9	119	149.1	75	-98	134	161.3	113	-48.1	172	176.7	57	-60.4	109.2	115.1
pH	pH	7.48	7.26	7.26	6.99	7.4	7.35	7.68	7.08	6.5	6.61	6.4	6.38	7.53	7.17	6.62	7.48
Specific Conductivity	umhos/cm	141	154	166	172	139	154	167	172	99	94	122	126	129	140	161	160
Temperature	deg C	8.98	11.15	10.58	9.4	9	14.32	11.02	9.4	9.4	9.56	10.73	8.9	9.76	11.79	13.7	10.4
Turbidity	NTU	2.95	0.81	0	1	2.01	0.62	0	4	2.99	1.04	1.22	2	2.36	0.82	2.09	2
General Chemistry																	
Alkalinity, Bicarbonate (As CaCO3)	mg/L	87	84	82	79	83	81	80	79	57	44	57	57	78	76	75	74
Alkalinity, Total (As CaCO3)	mg/L	87	84	82	79	83	81	80	79	57	44	57	57	78	76	75	74
Ammonia (As N)	mg/L	--	--	--	--	--	--	--	--	0.051	0.058	--	--	--	--	--	--
Calcium, Dissolved	mg/L	16	16	15	15	17	16	15	16	9.8 B	8.8	9.9	11	14	14	13	14
Chloride	mg/L	1.7	2	1.7	1.9	1.9	2.1	1.9	2.1	1	1.4	1.1	1.5	1.8	2	1.7	1.8
Iron, Total	mg/L	--	--	--	--	--	--	--	--	0.2	--	--	0.18	--	--	--	--
Magnesium, Dissolved	mg/L	9.8	9.2	8.7	9.3	8.7	8.3	7.7	8.7	6.6 B	5	5.5	6.4	9.2	8.6	8.2	8.7
Manganese, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	0.002	0.0099	0.012	--	--	--	--
Manganese, Total	mg/L	--	--	--	--	--	0.002	--	--	0.02	0.0049	0.014	0.032	--	--	--	--
Nitrate (As N)	mg/L	0.48	0.48	0.44	0.46	0.45	0.53	0.45	0.47	0.55	1.2	0.36	0.28	0.42	0.42	0.42	0.42
Potassium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	1.2	--	--	--	--	--	--
Sodium, Dissolved	mg/L	5.4	5.2	5.2	5.4	5.1	4.9	5	5.3	4.9	4.5	4.9	4.8	5.1	4.9	5.1	5.2
Sulfate	mg/L	2.1	2.2	2.2	2.1	3.7	3.6	4.1	3.7	2.8	3.8	2.9	3.3	2.7	2.5	3.2	2.5
Total Dissolved Solids (TDS)	mg/L	100	100	110	110	99	100	110	110	82	79	93	100	94	92	99	100
Total Suspended Solids (TSS)	mg/L	--	--	--	--	--	--	--	--	5.2	--	--	--	--	--	--	--
Metals																	
Arsenic, Dissolved	mg/L	0.00019	0.0002	0.00017	0.00018	0.0003	0.00032	0.00029	0.00029	0.00029	0.00031	0.00028	0.00029	0.00011	0.00013	0.00011	0.00011
Arsenic, Total	mg/L	0.00018	0.0002	0.00017	0.00018	0.00032	0.00033	0.0003	0.0003	0.00043	0.00033	0.00032	0.00035	0.00011	0.00012	0.00011	0.00012
Barium, Dissolved	mg/L	0.0029	0.0028	0.0031	0.0025	0.0036	0.0029	0.0033	0.0035	0.0039	0.0032	0.0037	0.0037	0.0032	0.0031	0.0031	0.0031
Barium, Total	mg/L	0.0029	0.0029	0.0027	0.0026	0.0032	0.0031	0.0033	0.0037	0.0036	0.0025	0.0033	0.0039	0.003	0.0034	0.0034	0.0034
Chromium, Dissolved	mg/L	--	--	--	--	0.0032	--	0.0035	0.003	0.008	0.0081	0.0085	0.0074	--	--	--	--
Chromium, Total	mg/L	--	--	--	--	0.0032	0.0033	--	0.0032	0.0085	0.0087	0.0073	0.0077	--	--	--	--
Lead, Total	mg/L	--	--	--	--	--	--	--	--	--	--	0.0014	--	--	--	--	--
Vanadium, Dissolved	mg/L	0.0042	0.0039	0.0041	0.004	0.0058	0.0053	0.0062	0.0054	0.0038	0.0042	0.0037	0.0035	0.0045	0.0048	0.0049	0.0036
Vanadium, Total	mg/L	0.0042	0.0048	0.0039	0.0042	0.0057	0.0057	0.005	0.0055	0.0042	0.0042	0.0042	0.004	0.0047	0.0042	0.0044	0.0042
Volatile Organic Compounds																	
No Detections in Upgradient Monitoring Wells																	

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

Table 4E. Detections and Field Measurements - Leachate and Leak Detection Locations
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	L-INF 12/9/2014	LP-LCD 3/14/2014	LP-LCD 6/26/2014	LP-LCD 9/29/2014	LP-LCD 12/9/2014
Field Parameter						
Dissolved Oxygen	mg/L	9.8	7.71	7.70	6.83	10.39
ORP	mV	204.1	38.8	154.5	27.9	117.1
pH	pH	6.99	7.06	7.29	7.15	7.15
Specific Conductivity	umhos/cm	2871	3849	3448	3541	3597
Temperature	deg C	10.13	9.41	18.4	17.96	10.37
Turbidity	NTU	2.51	13.1	5.1	14.7	8.06
General Chemistry						
Alkalinity, Bicarbonate (As CaCO3)	mg/L	380	930	830 H	780	800
Alkalinity, Total (As CaCO3)	mg/L	380	930	830 H	780	800
Ammonia (As N)	mg/L	6.6	9.9	8.1	8.5	5.7
Biochemical Oxygen Demand	mg/L	--	19	--	--	--
Calcium, Dissolved	mg/L	79 B	--	--	--	--
Calcium, Total	mg/L	--	42	45	43	57
Chemical Oxygen Demand	mg/L	170	--	200/220	--	--
Chloride	mg/L	540	660	690	660	660
Iron, Dissolved	mg/L	0.36	--	--	--	--
Iron, Total	mg/L	--	0.64	0.76	0.99	0.55
Magnesium, Dissolved	mg/L	47	--	--	--	--
Magnesium, Total	mg/L	--	26	27	25	36
Manganese, Dissolved	mg/L	0.66	--	--	--	--
Manganese, Total	mg/L	--	1	0.86	0.82	0.81
Nitrate/Nitrite, Total	mg/L	48	--	--	--	--
Potassium, Dissolved	mg/L	69	--	--	--	--
Potassium, Total	mg/L	--	70	78	75	72
Sodium, Dissolved	mg/L	460	--	--	--	--
Sodium, Total	mg/L	--	890	870	820	790
Sulfate	mg/L	200	200	230	260	250
Total Dissolved Solids (TDS)	mg/L	2000	2500	2500 H	2400	2500
Total Organic Carbon (TOC)	mg/L	56	78	70	65	63
Total Suspended Solids (TSS)	mg/L	--	--	7.6	--	--
Metals						
Antimony, Dissolved	mg/L	0.0051	--	--	--	--
Barium, Dissolved	mg/L	0.083	--	--	--	--
Cadmium, Dissolved	mg/L	0.00021	--	--	--	--
Chromium, Dissolved	mg/L	0.0051	--	--	--	--
Cobalt, Dissolved	mg/L	0.0091	--	--	--	--
Copper, Dissolved	mg/L	0.026	--	--	--	--
Copper, Total	mg/L	--	--	0.015	--	--
Nickel, Dissolved	mg/L	0.065	--	--	--	--
Nickel, Total	mg/L	--	--	0.12	--	--
Vanadium, Dissolved	mg/L	0.007	--	--	--	--
Zinc, Dissolved	mg/L	0.04	--	--	--	--
Zinc, Total	mg/L	--	--	0.055	--	--
Volatile Organic Compounds						
No Detections in L-INF Samples						

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

The LP-LCD sample in June 2014 was analyzed for TSS, total copper, nickel, and zinc as a result of a labeling error
VOCs detected in groundwater samples were not observed in leachate or leak detection samples

Table 5. 2014 Groundwater and Leachate VOC Detections
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	Event	Well Type	Well	Result
1,2-Dichlorobenzene	µg/L	Q314	Compliance	MW-42	0.27 J
1,4-Dichlorobenzene	µg/L	Q314	Compliance	MW-42	0.41 J
2-Butanone (MEK)	µg/L	Q414	Performance	MW-19C	1.5 J
Acetone	µg/L	Q414	Performance	MW-4	4.1 J
				MW-23A	3.4 J
Chlorobenzene	µg/L	Q314	Compliance	MW-42	0.51 J
Chlorodifluoromethane	µg/L	Q414	Compliance	MW-34A	3.6
cis-1,2-Dichloroethene	µg/L	Q214	Compliance	MW-34C	0.38 J
		Q314		MW-42	0.32 J
Iodomethane	µg/L	Q314	Compliance	MW-42	0.25 J
Methylene Chloride	µg/L	Q314	Compliance	MW-42	0.38 J
		Q414	Performance	MW-4	0.55 J
Trichloroethene	µg/L	Q114	Performance	MW-19C	1.3
			Downgradient	MW-32	0.49 J
		Q214	Performance	MW-19C	1.2
			Downgradient	MW-32	0.5 J
			Compliance	MW-34C	0.26 J
		Q314	Compliance	MW-42	0.42 J
			Downgradient	MW-32	0.46 J
			Performance	MW-19C	1 J
		Q414	Performance	MW-19C	1.3
			Downgradient	MW-32	0.49 J
Vinyl chloride	µg/L	Q114	Compliance	MW-15R	0.0095 J
			Compliance	MW-34A	0.03
			Compliance	MW-34C	0.16
			Compliance	MW-42	0.048
			Downgradient	MW-32	0.54
			Performance	MW-4	0.0089 J
			Performance	MW-19C	0.15
			Performance	MW-20	0.022
		Q214	Compliance	MW-15R	0.0098 J
				MW-34C	0.13
				MW-42	0.034
			Downgradient	MW-32	0.4
			Performance	MW-19C	0.024
				MW-20	0.027
		Q314	Compliance	MW-15R	0.012 J
				MW-34C	0.13
				MW-39	0.0079 J
				MW-42	0.16
			Downgradient	MW-32	0.44
			Performance	MW-4	0.27
				MW-19C	0.064
				MW-20	0.062
				MW-23A	0.015 J

Table 5. 2014 Groundwater and Leachate VOC Detections
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Parameter	Units	Event	Well Type	Well	Result
Vinyl chloride (cont.)	µg/L	Q414	Compliance	MW-15R	0.0069 J
				MW-42	0.082
				MW-34C	0.12
			Downgradient	MW-32	0.39
			Performance	MW-20	0.054
				MW-19C	0.09
				MW-4	0.017 J
				MW-23A	0.0082 J

J = Indicates that concentration is estimated due to low concentration in sample

Table 6A. Summary of Significant Parameter Trends by Well Type
2014 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 pH	Arsenic, Dissolved Sulfate
Performance Wells			
None	Trichloroethene Vinyl Choride	pH 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	Chromium, Dissolved pH Potassium, Dissolved Temperature	Alkalinity, Bicarbonate Arsenic, Dissolved Barium, Dissolved Calcium, Dissolved Iron, Dissolved Magnesium, Dissolved Manganese, Dissolved Specific Conductivity Sulfate 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 Total Dissolved Solids Vanadium, Dissolved

Table 6B. Summary of Trends in Groundwater (2005 - 2014)
2014 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 2013

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 - 2014)
2014 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)
Barium, dissolved	None	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-36A (graph 127)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-34A (graph 234) MW-36A (graph 237)	None
Cobalt, dissolved	None	None
Copper, dissolved	None	None
Lead, dissolved	None	None
Nickel, dissolved	None	None
Selenium, dissolved	None	None
Silver, dissolved	None	None
Thallium, dissolved	None	None
Vanadium, dissolved	None	MW-36A (graph 677)
Zinc, dissolved	None	None
Nitrate (as N)	MW-35 (graph 412) MW-36A (graph 413)	None
pH	MW-23A (graph 425)	None

Table 6B. Summary of Trends in Groundwater (2005 - 2014)
2014 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-20 (graph 578) MW-2B1 (graph 582) MW-32 (graph 583) MW-34A (graph 586) MW-34C (graph 587)	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-34C (graph 191) MW-36A (graph 193) MW-9 (graph 198)
Bicarbonate Alkalinity (as CaCO3)	MW-13A (graph 1) MW-13B (graph 2) MW-35 (graph 16)	MW-15R (graph 3) MW-23A (graph 7) MW-24 (graph 8) MW-36A (graph 17)

Table 6B. Summary of Trends in Groundwater (2005 - 2014)
2014 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) MW-36A (graph 347)
Sulfate	MW-20 (graph 556) MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-23A (graph 557) MW-34A (graph 564) MW-4 (graph 569)
Sodium, dissolved	MW-20 (graph 512)	MW-15R (graph 509) MW-19C (graph 511) MW-23A (graph 513)
Chloride	None	MW-15R (graph 201) 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-36A (graph 215) MW-4 (graph 217)
Potassium, dissolved	MW-42 (graph 460)	None
Total Alkalinity as CaCO3	MW-13A (graph 23) MW-13B (graph 24) MW-35 (graph 38)	MW-15R (graph 25) MW-23A (graph 29) MW-24 (graph 30) 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)

Table 6B. Summary of Trends in Groundwater (2005 - 2014)
2014 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
Manganese, dissolved	None	MW-15R (graph 355) MW-23A (graph 359) MW-24 (graph 360)
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 prepared by Aqua Chem Applications (March 2015)

Table 7. Fourth Quarter 2014 Prediction Limit Exceedances
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Compliance	MW-15R	11/19/2014	Calcium, Dissolved	mg/L	18	17.1
			Magnesium, Dissolved	mg/L	11	10.74
	MW-34A	11/19/2014	pH	pH	5.62	5.89 - 8.24
			Arsenic, Dissolved	µg/L	0.4	0.38
			Sodium, Dissolved	mg/L	11	6.2
	MW-34C	11/19/2014	Alkalinity, Bicarbonate (as $CaCO_3$)	mg/L	110	96
			Alkalinity, Total (as $CaCO_3$)	mg/L	110	96
			Arsenic, Dissolved	µg/L	1.14	0.38
			Barium, Dissolved	mg/L	0.025	0.0052
			Calcium, Dissolved	mg/L	25	17.1
			Iron, Dissolved	mg/L	0.59	0.097
			Magnesium, Dissolved	mg/L	11	10.86
			Manganese, Dissolved	mg/L	1.3	0.014
			Potassium, Dissolved	mg/L	2.4	1.0
			Sodium, Dissolved	mg/L	15	6.2
			Specific Conductivity	mS/cm	0.232	0.18
			Temperature	deg C	12.83	11.96
			Total Dissolved Solids (TDS)	mg/L	190	175
	MW-42	11/18/2014	Alkalinity, Bicarbonate (as $CaCO_3$)	mg/L	230	96
			Alkalinity, Total (as $CaCO_3$)	mg/L	230	96
			Ammonia (as N)	mg/L	6.3	0.34
			Arsenic, Dissolved	µg/L	1.6	0.38
			Barium, Dissolved	mg/L	0.12	0.0052
			Calcium, Dissolved	mg/L	44	17.1
			Chloride	mg/L	19	4.00
			Cobalt, Dissolved	mg/L	0.0077	0.00
			Iron, Dissolved	mg/L	27	0.097
			Magnesium, Dissolved	mg/L	17	10.86
			Manganese, Dissolved	mg/L	5	0.014
			Potassium, Dissolved	mg/L	8.2	1.0
			Sodium, Dissolved	mg/L	20	6.2
			Specific Conductivity	mS/cm	0.573	0.18
			Sulfate	mg/L	11	9.9
			Temperature	deg C	12.2	11.96
			Total Dissolved Solids (TDS)	mg/L	310	175
			Total Organic Carbon (TOC)	mg/L	7.9	6.0
	MW-43	11/18/2014	Barium, Dissolved	mg/L	0.0058	0.0052
			Iron, Dissolved	mg/L	0.7	0.097
			Manganese, Dissolved	mg/L	0.24	0.014
			pH	pH	5.61	5.89 - 8.24
			Temperature	deg C	12.1	11.96

Table 7. Fourth Quarter 2014 Prediction Limit Exceedances
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Well Type	Well Location	Date Sampled	Parameter	Units	Result	Prediction Limit
Downgradient	MW-29A	11/18/2014	Arsenic, Dissolved	µg/L	1.53	0.38
			Barium, Dissolved	mg/L	0.0094	0.0052
			Iron, Dissolved	mg/L	3.7	0.097
			Manganese, Dissolved	mg/L	1.3	0.014
	MW-32	11/20/2014	Alkalinity, Bicarbonate (as $CaCO_3$)	mg/L	130	96
			Alkalinity, Total (as $CaCO_3$)	mg/L	130	96
			Arsenic, Dissolved	µg/L	9.2	0.38
			Barium, Dissolved	mg/L	0.006	0.0052
			Calcium, Dissolved	mg/L	32	17.1
			Chloride	mg/L	12	4.0
			Iron, Dissolved	mg/L	0.87	0.097
			Magnesium, Dissolved	mg/L	16	10.86
			Manganese, Dissolved	mg/L	2.4	0.014
			Potassium, Dissolved	mg/L	1.3	1.0
			Sodium, Dissolved	mg/L	17	6.2
			Specific Conductivity	mS/cm	0.309	0.18
			Sulfate	mg/L	16	9.9
			Temperature	deg C	12.4	11.96
			Total Dissolved Solids (TDS)	mg/L	220	175
	MW-33A	11/19/2014	Iron, Dissolved	mg/L	5.1	0.097
			Manganese, Dissolved	mg/L	0.11	0.0067
			pH	pH	5.65	5.89 - 8.24
	MW-33C	11/19/2014	Arsenic, Dissolved	µg/L	2.35	0.38
			Calcium, Dissolved	mg/L	18	17.1
			Iron, Dissolved	mg/L	0.38	0.097
			Manganese, Dissolved	mg/L	0.2	0.014
			Potassium, Dissolved	mg/L	1.5	1.0
	MW-36A	11/19/2014	Arsenic, Dissolved	µg/L	0.51	0.38
			pH	pH	5.88	6.2
			Potassium, Dissolved	mg/L	1.1	1.0
			Sodium, Dissolved	mg/L	6.5	6.2
	MW-39	11/18/2014	Alkalinity, Bicarbonate (as $CaCO_3$)	mg/L	98	96
			Alkalinity, Total (as $CaCO_3$)	mg/L	98	96
			Arsenic, Dissolved	µg/L	1.16	0.38
			Barium, Dissolved	mg/L	0.013	0.0052
			Cobalt, Dissolved	mg/L	0.0065	0.003
			Iron, Dissolved	mg/L	29	0.097
			Manganese, Dissolved	mg/L	0.49	0.014
			Sodium, Dissolved	mg/L	6.9	6.2
			Specific Conductivity	mS/cm	0.213	0.18

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. 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2014 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, 2014
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[7]	25%	0.058	0.058	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	0.26	0.23	ug/L	LN	0.462	ug/L	No	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
		Manganese, dissolved	12	92%	0.007	0.003	mg/L	Z	0.05	mg/L	No	**Yes (↓)**
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	25%	0.036	0.04	ug/L	A	0.20	ug/L	No	No
	MW-34A	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	25%	0.15	0.15	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	0.57	0.48	ug/L	LN	0.462	ug/L	**Yes**	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
		Manganese, dissolved	12	0%	0.0010	0.0010	mg/L	B	0.05	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%	0.03	0.03	ug/L	A	0.20	ug/L	No	No
	MW-34C	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	25%	0.18	0.18	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	4.2	1.89	ug/L	Z	0.462	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12[9]	100%	0.9	0.77	mg/L	N	0.30	mg/L	**Yes**	**Yes (↓)**
		Manganese, dissolved	12	100%	1.30	0.83	mg/L	Z	0.05	mg/L	**Yes**	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	100%	0.16	0.15	ug/L	LN	0.20	ug/L	No	**Yes (↓)**

Table 8. 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary
2014 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	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%	0.43	0.34	mg/L	Z	0.19	mg/L	**Yes**	No
		Arsenic, dissolved	12	100%	2.23	1.69	ug/L	Z	0.462	ug/L	**Yes**	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	92%	41.0	33.4	mg/L	Z	0.30	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.53	0.45	mg/L	Z	0.05	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	0.20	ug/L	No	No
	MW-42	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[10]	92%	8.4	6.4	mg/L	Z	0.19	mg/L	**Yes**	No
		Arsenic, dissolved	12	100%	1.7	1.6	ug/L	Z	0.462	ug/L	**Yes**	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	100%	28	27.0	mg/L	LN	0.30	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	5.3	5.0	mg/L	LN	0.05	mg/L	**Yes**	No
		Trichloroethene	12	17%	0.51	0.51	ug/L	A	1.0	ug/L	No	No
		Vinyl Chloride	12	92%	0.16	0.14	ug/L	LN	0.20	ug/L	No	No
	MW-43	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	75%	0.15	0.16	mg/L	LN	0.19	mg/L	No	No
		Arsenic, dissolved	12	33%	0.05	0.05	ug/L	A	0.462	ug/L	No	No
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	83%	0.87	0.48	mg/L	N	0.30	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.26	0.20	mg/L	Z	0.05	mg/L	**Yes**	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	8.3%	0.036	0.036	ug/L	A	0.20	ug/L	No	No

Table 8. 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary
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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	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%	0.14	0.11	mg/L	Z	0.19	mg/L	No	**Yes (↓)**
		Arsenic, dissolved	6	100%	1.73	1.61	ug/L	Z	0.462	ug/L	**Yes**	No
		cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	6	100%	4.3	4.1	mg/L	LN	0.3	mg/L	**Yes**	No
		Manganese, dissolved	6	100%	1.4	1.35	mg/L	N	0.1	mg/L	**Yes**	No
		Trichloroethene	6	0%	0.46 (ND)	0.460	ug/L	B	1	ug/L	No	No
		Vinyl Chloride	6	0%	0.02 (ND)	0.02	ug/L	B	0.20	ug/L	No	No
	MW-32	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	33%	0.17	0.17	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	11.4	9.5	ug/L	Z	0.462	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	100%	0.87	0.70	mg/L	LN	0.30	mg/L	**Yes**	**Yes (↓)**
		Manganese, dissolved	12	100%	2.7	2.31	mg/L	LN	0.05	mg/L	**Yes**	No
		Trichloroethene	12	92%	0.70	0.57	ug/L	Z	1.0	ug/L	No	No
		Vinyl Chloride	12	100%	0.63	0.49	ug/L	LN	0.20	ug/L	**Yes**	No
	MW-33A	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	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	83%	0.28	0.28	mg/L	A***	0.19	mg/L	**Yes**	No
		Arsenic, dissolved	6	100%	0.37	0.25	ug/L	Z	0.462	ug/L	No	No
		cis-1,2-dichloroethene	6	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	6	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	6	83%	5.1	5.1	mg/L	A**	0.30	mg/L	**Yes**	No
		Manganese, dissolved	6	100%	0.11	0.11	mg/L	A**	0.05	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	0.20	ug/L	No	No

Table 8. 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary
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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	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	25%	0.15	0.15	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	2.66	2.38	ug/L	LN	0.462	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	17.0%	0.38	0.38	mg/L	A	0.3	mg/L	**Yes**	No
		Manganese, dissolved	12	100%	0.2	0.15	mg/L	Z	0.05	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	0.20	ug/L	No	No
	MW-36A	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]	25%	0.072	0.072	mg/L	A	0.19	mg/L	No	No
		Arsenic, dissolved	12	100%	0.81	0.73	ug/L	LN	0.462	ug/L	**Yes**	**Yes (↓)**
		cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
		Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
		Iron, dissolved	12	17%	0.13	0.13	mg/L	A	0.3	mg/L	No	No
		Manganese, dissolved	12	58%	0.0063	0.003	mg/L	LN	0.05	mg/L	No	No
		Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
		Vinyl Chloride	12	8.3%	0.063	0.063	ug/L	A	0.20	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 2014; arrows indicated decreasing (↓) trends.

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

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

[9] For MW-34C, gross outliers of 25 mg/L from 3-4-14 and 59 mg/L from 9-23-14 were removed prior to UCL calculation

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

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

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

Table 8. 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary
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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]

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 value; 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.

Notes (Continued)

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.

Prepared by: GeoChem Applications

Table 9. Groundwater Quality Criteria and Site-Specific Cleanup Level Exceedances
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	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 E											
Upgradient Monitoring Locations	MW-13A	Q1 2014	--	--	0.00019	0.00018	--	--	--	--	--	--
		Q2 2014	--	--	0.0002	0.0002	--	--	--	--	--	--
		Q3 2014	--	--	0.00017	0.00017	--	--	--	--	--	--
		Q4 2014	--	--	0.00018	0.00018	--	--	--	--	--	--
	MW-13B	Q1 2014	--	--	0.0003	0.00032	--	--	--	--	--	--
		Q2 2014	--	--	0.00032	0.00033	--	--	--	--	--	--
		Q3 2014	--	--	0.00029	0.0003	--	--	--	--	--	--
		Q4 2014	--	--	0.00029	0.0003	--	--	--	--	--	--
	MW-16	Q1 2014	--	--	0.00029	0.00043	--	--	--	--	--	--
		Q2 2014	--	--	0.00031	0.00033	--	--	--	--	--	--
		Q3 2014	6.40	--	0.00028	0.00032	--	--	--	--	--	--
		Q4 2014	6.38	--	0.00029	0.00035	--	--	--	--	--	--
	MW-35	Q1 2014	--	--	0.00011	0.00011	--	--	--	--	--	--
		Q2 2014	--	--	0.00013	0.00012	--	--	--	--	--	--
		Q3 2014	--	--	0.00011	0.00011	--	--	--	--	--	--
		Q4 2014	--	--	0.00011	0.00012	--	--	--	--	--	--
Performance Monitoring Locations	MW-2B1	Q1 2014	--	--	0.00011	0.00017	--	--	0.14	0.16	--	--
		Q2 2014	--	1.7	0.00061	0.00064	--	--	1.4	1.4	--	--
		Q3 2014	5.82	2.2	0.00048	0.00048	--	--	2.6	2.6	--	--
		Q4 2014	5.86	--	0.00022	0.00034	--	--	0.47	0.51	--	--
	MW-4	Q1 2014	6.29	--	0.00032	0.00032	--	--	1.2	1.9	--	--
		Q2 2014	--	--	0.00049	0.00152	0.45	--	0.98	1.2	--	--
		Q3 2014	--	--	0.00065	0.00075	--	--	0.99	1.5	--	--
		Q4 2014	5.73	--	0.0004	0.0004	--	--	0.29	0.35	--	--
	MW-19C	Q1 2014	--	0.64	0.00287	0.00296	--	--	1.1	1	1.3	0.15
		Q2 2014	--	0.41	0.00261	0.00307	--	--	0.82	0.99	1.2	0.024
		Q3 2014	6.10	0.55	0.00256	0.00264	--	--	1.1	1.1	--	0.064
		Q4 2014	--	0.6	0.00307	0.00319	--	--	1.2	1.1	1.3	0.09
	MW-20	Q1 2014	--	--	0.00031	0.0003	--	--	0.12	0.17	--	0.022
		Q2 2014	--	--	0.0002	0.0002	--	--	--	0.28	--	0.027
		Q3 2014	6.37	--	0.00033	0.0003	--	--	0.29	0.15	--	0.062
		Q4 2014	6.33	--	0.0002	0.0002	--	--	0.16	0.53	--	0.054
	MW-23A	Q1 2014	6.27	--	--	0.00014	--	0.39	0.55	0.87	--	--
		Q2 2014	6.47	--	0.00012	0.00023	--	0.42	0.81	2.2	--	--
		Q3 2014	6.43	--	0.00013	0.0003	0.33	0.75	2.1	2.2	--	--
		Q4 2014	6.26	--	0.00009	0.00018	0.46	0.91	2.1	3.6	--	--
	MW-24	Q1 2014	--	--	0.00027	0.00028	2.1	1.3	5.7	2.5	--	--
		Q2 2014	6.43	--	0.00024	0.00091	--	0.88	0.12	2.3	--	--
		Q3 2014	5.70	--	0.00022	0.00023	0.64	0.81	1.3	1	--	--
		Q4 2014	6.05	--	0.00022	0.00061	--	0.45	0.22	--	--	--
Compliance Monitoring Locations	MW-15R	Q1 2014	6.40	--	0.00023	0.00023	--	--	--	--	--	--
		Q2 2014	--	--	0.00021	0.00022	--	--	--	--	--	--
		Q3 2014	6.19	--	0.00015	0.00016	--	--	--	--	--	--
		Q4 2014	6.31	--	0.0002	0.00021	--	--	--	--	--	--
	MW-34A	Q1 2014	6.34	--	0.0005	0.0005	--	--	--	--	--	0.03
		Q2 2014	6.12	--	0.00043	0.00042	--	--	--	--	--	--
		Q3 2014	5.41	--	0.00044	0.00044	--	--	--	--	--	--
		Q4 2014	5.62	--	0.0004	0.0004	--	--	--	--	--	--
	MW-34C	Q1 2014	--	--	0.00128	0.00127	25	26	0.73	0.73	--	0.16
		Q2 2014	--	--	0.00134	0.0628	0.32	88	0.51	6.2	--	0.13
		Q3 2014	6.30	--	0.00132	0.00127	59	65	1.1	1.2	--	0.13
		Q4 2014	6.22	--	0.00114	0.00491	0.59	4.9	1.3	1.2	--	0.12
	MW-39	3/12/2013	5.83	--	0.00012	0.00036	1.6	2.2	0.11	0.086	--	--
		6/6/2013	6.30	0.43	0.00191	0.00177	40	36	0.45	0.44	--	--
		9/5/2013	6.30	0.28	0.00157	0.00151	33	33	0.47	0.44	--	--
		12/5/2013	5.98	0.3	0.00116	0.00115	29	32	0.49	0.49	--	--
	MW-42	Q1 2014	--	6.6	0.0016	0.0017	28	26	5	5.3	--	0.048
		Q2 2014	--	6.1	0.0015	0.0015	24	28	4.9	4.9	--	0.034
		Q3 2014	--	5.9	0.0016	0.0016	25	24	4.4	4.5	--	0.16
		Q4 2014	6.41	6.3	0.0016	0.0016	27	32	5	5.1	--	0.082
	MW-43	Q1 2014	5.97	--	--	--	--	--	--	--	--	--
		Q2 2014	6.11	--	--	--	0.53	24	0.18	0.24	--	--
		Q3 2014	5.84	--	--	--	--	--	--	--	--	--
		Q4 2014	5.61	--	--	--	0.7	1.7	0.24	0.26	--	--
Down Gradient Monitoring Locations	MW-32	Q1 2014	--	--	0.0087	0.0142	0.6	1.3	2.1	2.5	--	0.54
		Q2 2014	--	--	0.00447	0.0266	0.49	6.3	1.8	4.1	--	0.4
		Q3 2014	--	--	0.0085	0.0096	0.77	1.1	2.6	3	--	0.44
		Q4 2014	6.35	--	0.0092	0.0092	0.87	0.87	2.4	2.4	--	0.39
	MW-33C	Q1 2014	--	--	0.00228	0.00241	--	--	0.14	0.19	--	--
		Q2 2014	--	--	0.00225	0.00251	--	--	0.13	0.17	--	--
		Q3 2014	--	--	0.00233	0.00248	--	--	0.14	0.22	--	--
		Q4 2014	--	--	0.00235	0.00254	0.38	0.38	0.2	0.2	--	--
	MW-36A	Q1 2014	6.20	--	0.00066	0.00068	--	--	--	--	--	--
		Q2 2014	6.28	--	0.0006	0.0006	--	--	--	--	--	--
		Q3 2014	5.70	--	0.00053	0.00053	--	--	--	--	--	--
		Q4 2014	5.88	--	0.00051	0.00053	--	--	--	--	--	--
	MW-29A	Q2 2014	6.25	--	0.00014	0.00171	4.3	4.4	1.3	1.4	--	--
		Q4 2014	6.03	--	0.0002	0.0019	3.7	4.7	1.3	1.3	--	--
	MW-33A	Q2 2014	--	--	0.00011	0.00025	0.4	1.1	--	--	--	--
		Q4 2014	5.65	0.21	0.00015	0.00041	5.1	5	0.11	0.1	--	--

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 2014 Leak Detection System Volumes
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Date	Total Volume (Gals)	Comments
1/6/2014	0	Did not pump
1/13/2014	0	Pumped dry; no liquid present
1/21/2014	0	Pumped dry; no liquid present
1/27/2014	0	Pumped dry; no liquid present
2/3/2014	85	Pumped dry
2/10/2014	95	Pumped dry
2/18/2014	0	
2/24/2014	115	Pumped dry
3/3/2014	0	
3/10/2014	0	
3/17/2014	215	Pumped and sampled on 03/14/14
3/24/2014	0	Pumped dry; no liquid present
3/28/2014	0	Pumped dry; no liquid present
4/7/2014	80	Pumped dry
4/15/2014	70	Pumped dry
4/21/2014	0	Pumped dry
4/30/2014	95	Pumped dry
5/5/2014	0	Pumped dry
5/15/2014	0	Pumped dry
5/19/2014	0	No measurement made
5/27/2014	0	No measurement made
6/2/2014	0	No measurement made
6/9/2014	0	No measurement made
6/16/2014	0	No measurement made
6/23/2014	0	No measurement made
6/30/2014	325	Sampled on 6/26/2014.
7/7/2014	0	Pumped dry
7/14/2014	0	Pumped dry
7/21/2014	75	Pumped dry
7/28/2014	0	Pumped dry
8/4/2014	85	Pumped dry
8/13/2014	0	Pumped dry
8/18/2014	0	Pumped dry
8/25/2014	55	Pumped dry
9/2/2014	0	No measurement made
9/8/2014	0	No measurement made
9/15/2014	0	No measurement made
9/22/2014	0	No measurement made
9/29/2014	0	Sampled on 9/29/2014.
10/6/2014	350	Pumped Dry; Sampled
10/13/2014	0	Pumped Dry
10/20/2014	0	Pumped Dry
10/27/2014	85	Pumped Dry
11/3/2014	0	Pumped Dry
11/10/2014	0	No measurement made
11/17/2014	0	No measurement made
11/24/2014	0	No measurement made
12/1/2014	0	No measurement made
12/9/2014	425	sampled; pumped dry
12/16/2014	0	Pumped Dry
12/23/2014	0	Pumped Dry
12/31/2014	75	Pumped Dry
TOTAL	**2,230**	**Volume for period between 1/1/2014 through 12/31/2014.**

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

Table 11. Fourth Quarter 2014 Landfill Gas Measurement Results
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County Washington

Waste Management Incorporated

Location Reference Designation	Date	Time	Pressure (in H_2O)	CH_4 (% vol.)	CO_2 (% vol.)	O_2 (% vol.)	CH_4 Spike *Note 1* (% vol.)	CO_2 Spike *Note 1* (% vol.)	Depth to Water TOP (ft)	Exposed Portion of Perforations *Notes 2 & 3* (ft)	(%)	Other
			Instrument Readings				Comments					
Subsurface Landfill Gas Detection Wells (Gas Probes):												
GP-7	12/29/14	8:59	-0.44	0.00	8.30	3.60			14.6	4.0	81%	
GP-8	12/29/14	9:01	-0.52	0.00	2.60	5.30			17.6	4.8	96%	
GP-9S	12/29/14	9:05	-0.31	0.00	2.60	18.50			31.8	20.3	100%	
GP-9D	12/29/14	9:08	-0.31	0.00	1.80	19.60			31.8	5.5	100%	
GP-10S	12/29/14	9:14	-0.29	0.00	1.00	20.50			28.7	15.7	100.0%	
GP-10D	12/29/14	9:17	-0.45	0.00	0.90	19.80			28.7	4.6	92%	
GP-11S	12/29/14	9:24	-0.31	0.00	3.20	17.90			27.9	4.8	96%	
GP-11D	12/29/14	9:27	-0.15	0.00	3.50	14.40			27.9	2.6	52%	
GP-12S	12/29/14	9:31	-0.36	0.00	1.30	20.10			48.5	37.1	100%	
GP-12M	12/29/14	9:35	-0.53	0.00	1.20	19.50			48.5	16.9	100%	
GP-12D	12/29/14	9:39	0.45	0.00	1.70	16.40			48.5	3.1	62%	
GP-13S	12/29/14	9:47	-0.48	0.00	3.60	17.50			50.1	38.0	100%	
GP-13M	12/29/14	9:51	-1.19	0.00	3.50	17.50			50.1	16.6	100%	
GP-13D	12/29/14	9:56	-1.02	0.00	0.10	20.70			50.1	4.9	49%	
GP-14	12/29/14	10:00	-0.35	0.00	6.80	5.70			15.5	5.1	100%	
GP-15	12/29/14	10:05	0.05	0.40	7.30	0.00			15.0	4.6	91%	
GP-16	12/29/14	10:10	-0.31	0.00	3.90	16.40			15.0	4.8	96%	
Onsite Building Interiors:												
SH-SS	12/29/14	9:43	-0.30	0.00	0.10	20.80						
SH-NS	12/29/14	9:43	-4.78	0.00	0.10	20.80						
SH-IN	12/29/14	9:44	-0.26	0.00	0.10	20.80						
SS-WH	12/29/14	9:21	-0.28	0.00	0.10	20.90						

Weather Conditions

Monitoring Date:	12/29/14	Sky Cover:	Clear
Monitored By:	Brad Beach	Wind/Rain/Snow:	None
Instrument:	GEM 2NAV	Temperature (°F):	43
Calibration Date:	12/29/14	Preceding 24-hr Barometric Trend:	Falling

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.
5. Pressure is not thought to be indicative of soil gas pressure. An error in measurement is suspected.

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 - 2014
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

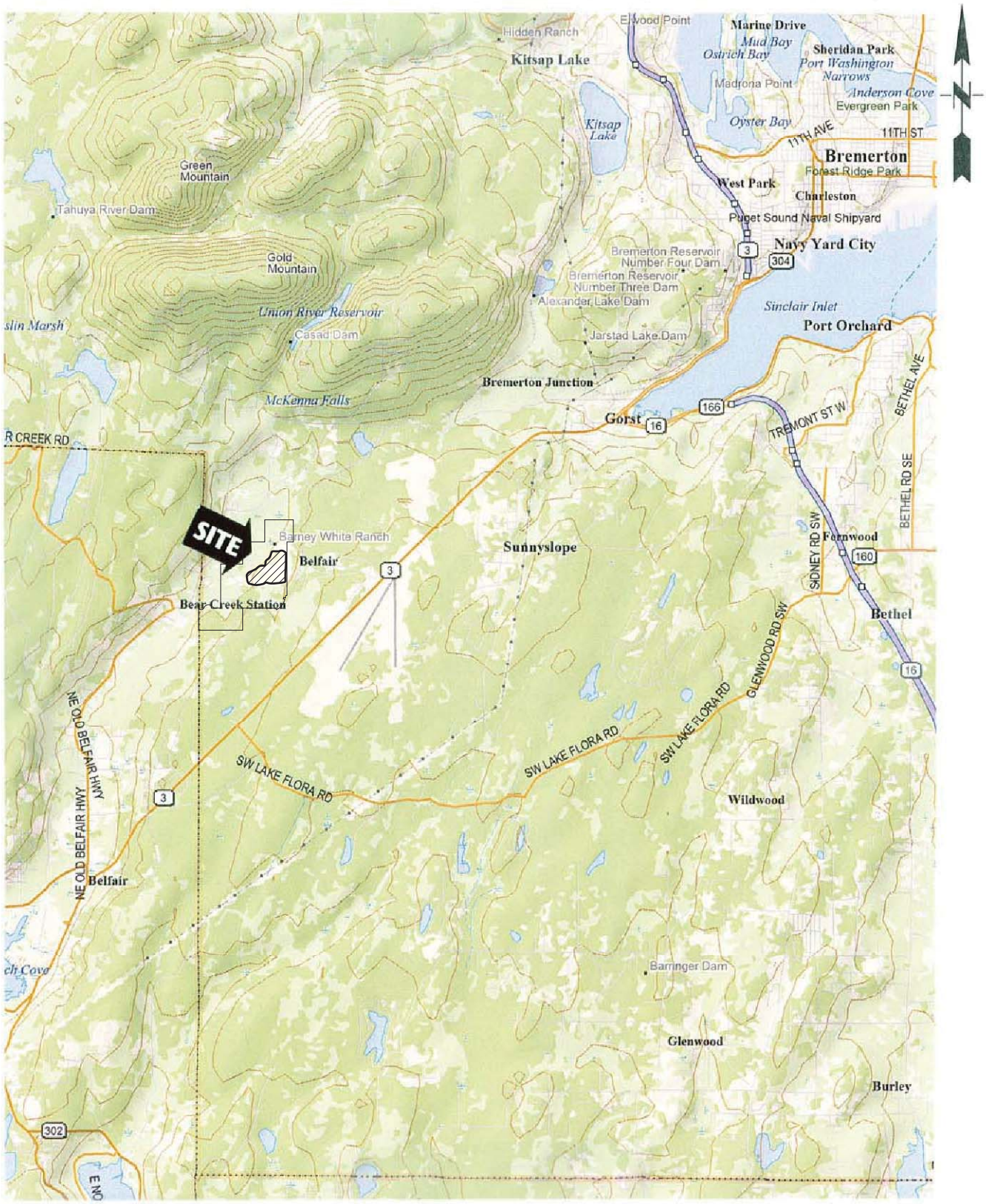
Location	Date	Pressure (in. H_2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-7	3/28/2014	0.07	0.00	5.90	4.80
	6/16/2014	-0.08	0.00	8.90	3.70
	9/24/2014	0.10	0.00	11.20	8.30
	12/29/2014	-0.44	0.00	8.30	3.60
GP-8	3/28/2014	0.08	0.00	2.00	3.30
	6/16/2014	-0.06	0.00	4.00	5.70
	9/24/2014	0.09	0.00	6.10	8.60
	12/29/2014	-0.52	0.00	2.60	5.30
GP-9S	3/28/2014	-0.06	0.00	1.80	19.00
	6/16/2014	-0.03	0.00	2.90	18.50
	9/24/2014	0.12	0.00	2.00	19.90
	12/29/2014	-0.31	0.00	2.60	18.50
GP-9D	3/28/2014	-0.11	0.00	1.80	19.50
	6/16/2014	-0.02	0.00	1.80	18.80
	9/24/2014	0.11	0.00	1.60	19.60
	12/29/2014	-0.31	0.00	1.80	19.60
GP-10S	3/28/2014	-0.15	0.00	0.80	20.90
	6/16/2014	-0.01	0.00	1.20	20.00
	9/24/2014	0.10	0.00	0.80	20.40
	12/29/2014	-0.29	0.00	1.00	20.50
GP-10D	3/28/2014	-0.13	0.00	0.90	18.80
	6/16/2014	-0.04	0.00	1.00	18.50
	9/24/2014	0.04	0.00	0.70	19.40
	12/29/2014	-0.45	0.00	0.90	19.80
GP-11S	3/28/2014	-0.12	0.00	2.50	18.70
	6/16/2014	-0.04	0.00	4.20	16.90
	9/24/2014	0.12	0.00	3.40	18.60
	12/29/2014	-0.31	0.00	3.20	17.90
GP-11D	3/28/2014	—	—	—	—
	6/16/2014	—	—	—	—
	9/24/2014	0.14	0.00	3.00	17.40
	12/29/2014	-0.15	0.00	3.50	14.40
GP-12S	3/28/2014	2.29	0.00	1.90	18.70
	6/16/2014	-0.02	0.00	2.00	19.10
	9/24/2014	0.12	0.00	1.20	19.50
	12/29/2014	-0.36	0.00	1.30	20.10
GP-12M	3/28/2014	0.10	0.00	2.20	18.20
	6/16/2014	-0.04	0.00	1.70	18.80
	9/24/2014	0.06	0.00	1.30	18.70
	12/29/2014	-0.53	0.00	1.20	19.50
GP-12D	3/28/2014	—	—	—	—
	6/16/2014	—	—	—	—
	9/24/2014	0.03	0.00	1.60	15.20
	12/29/2014	0.45	0.00	1.70	16.40
GP-13S	3/28/2014	-0.08	0.00	3.30	18.30
	6/16/2014	0.01	0.00	3.70	17.70
	9/24/2014	0.08	0.00	2.90	18.50
	12/29/2014	-0.48	0.00	3.60	17.50

Table 12. Landfill Gas Monitoring Results - 2014
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Location	Date	Pressure (in. H_2O)	CH4 (% vol.)	CO2 (% vol.)	O2 (% vol.)
GP-13M	3/28/2014	-0.03	0.00	3.50	18.10
	6/16/2014	-0.12	0.00	3.30	17.30
	9/24/2014	-0.24	0.00	3.30	17.70
	12/29/2014	-1.19	0.00	3.50	17.50
GP-13D	3/28/2014	0.12	0.00	3.20	18.20
	6/16/2014	-0.09	0.00	1.10	20.10
	9/24/2014	-0.23	0.00	1.30	19.50
	12/29/2014	-1.02	0.00	0.10	20.70
GP-14	3/28/2014	-0.11	0.00	6.40	5.50
	6/16/2014	0.08	0.00	6.60	5.90
	9/24/2014	0.19	0.00	9.30	7.00
	12/29/2014	-0.35	0.00	6.80	5.70
GP-15	3/28/2014	3.86	3.70	2.20	5.80
	6/16/2014	0.03	1.00	6.10	0.00
	9/24/2014	0.14	0.00	10.10	3.20
	12/29/2014	0.05	0.40	7.30	0.00
GP-16	3/28/2014	-0.14	0.00	3.30	16.80
	6/16/2014	0.07	0.00	5.00	16.90
	9/24/2014	0.15	0.00	4.20	17.70
	12/29/2014	-0.31	0.00	3.90	16.40

Notes:
— Readings not reported: screened interval submerged

FIGURES



1" = 1.58 mi

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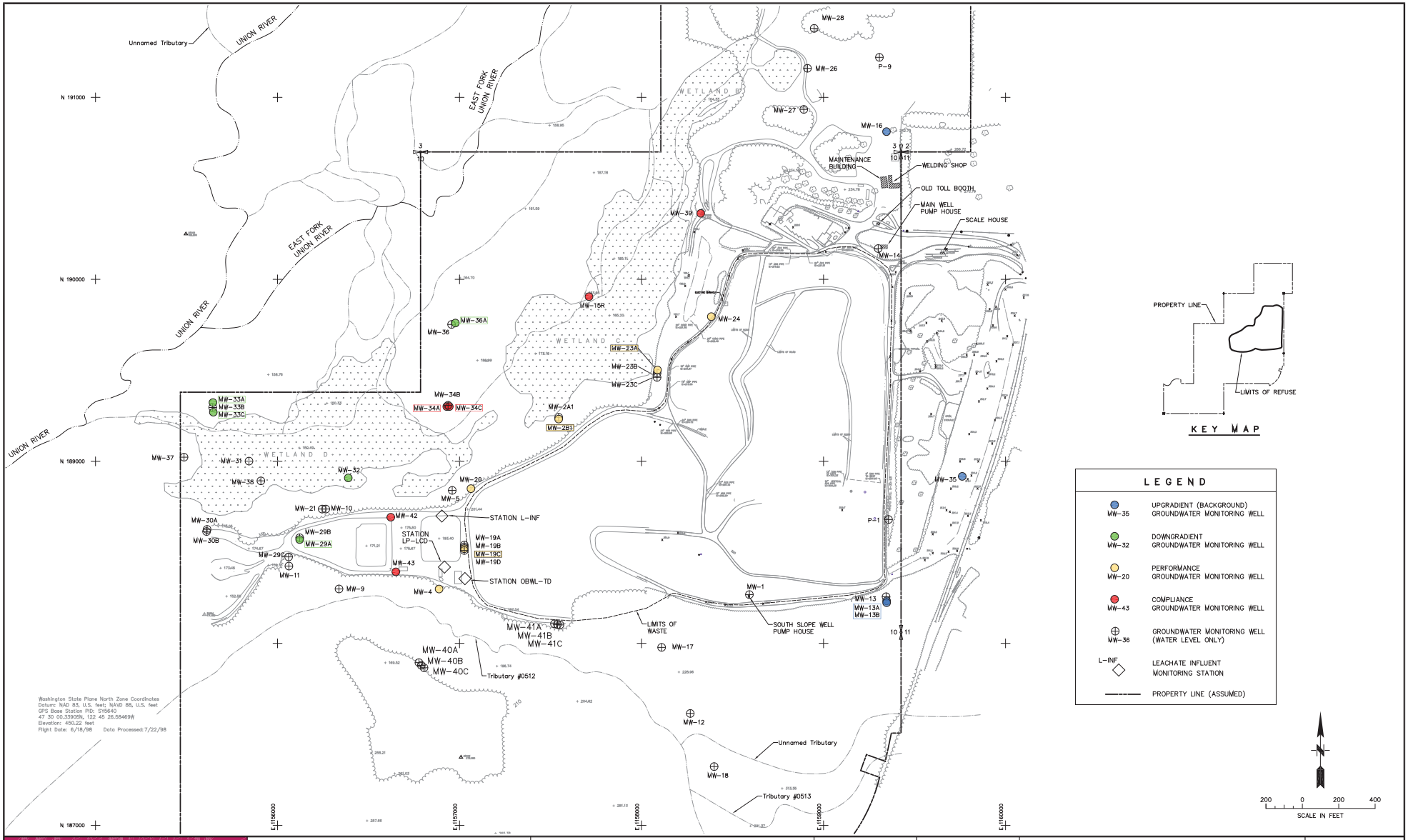
PROJECT NO.	DES BY
04204027.18	L.L.
SCALE	CHK BY
1:100,000	E.R.
CAD FILE	APP BY
FIGURE 1	D.V.

SITE LOCATION MAP

OLYMPIC VIEW SANITARY LANDFILL
KITSAP COUNTY, WASHINGTON

DATE
MARCH 2015

FIGURE
1



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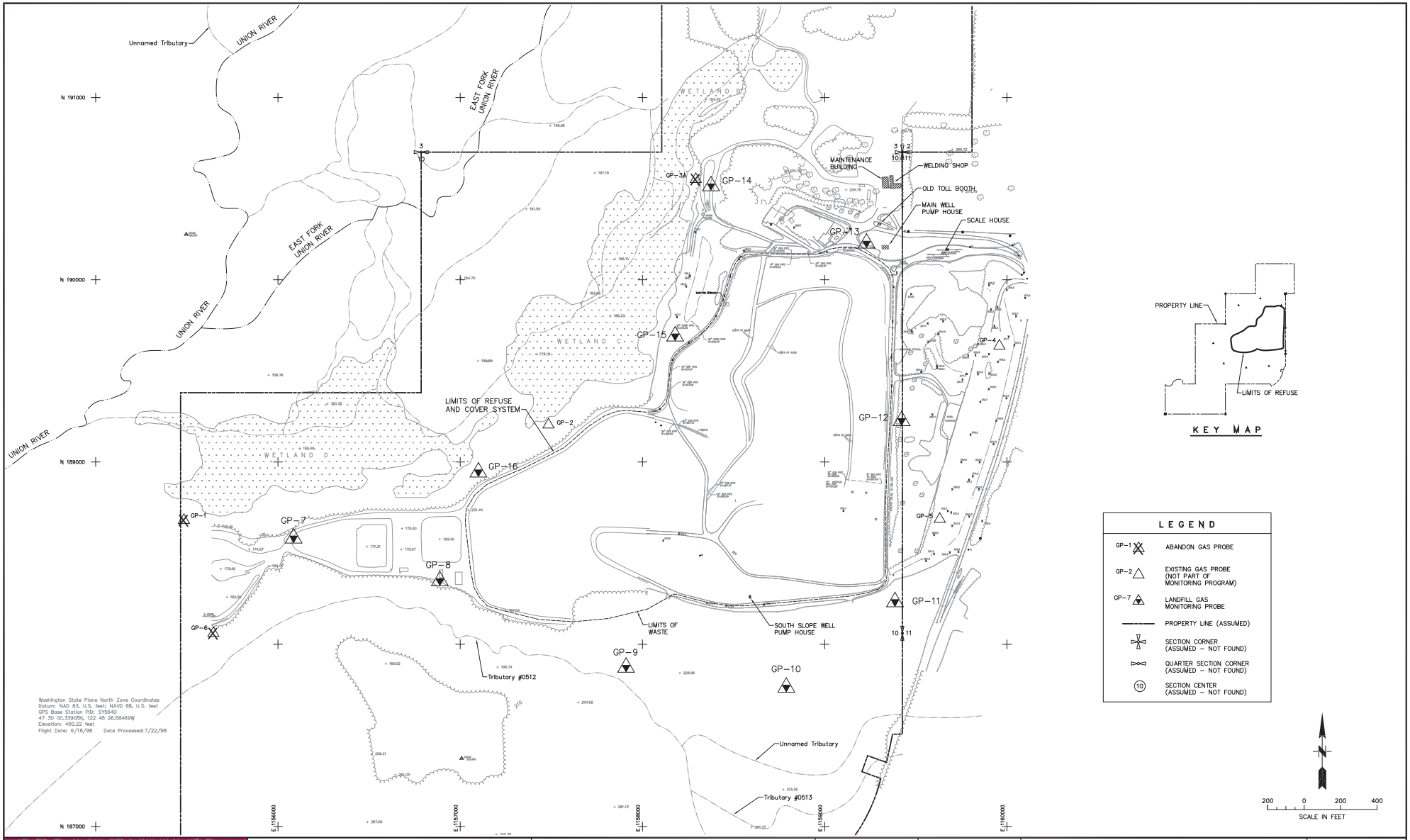
PROJECT NO. 04204027.18	DES BY L.L.	GROUNDWATER MONITORING WELL NETWORK AND LEACHATE MONITORING LOCATIONS	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 2
CAD FILE FIGURE 2	APP BY D.V.		



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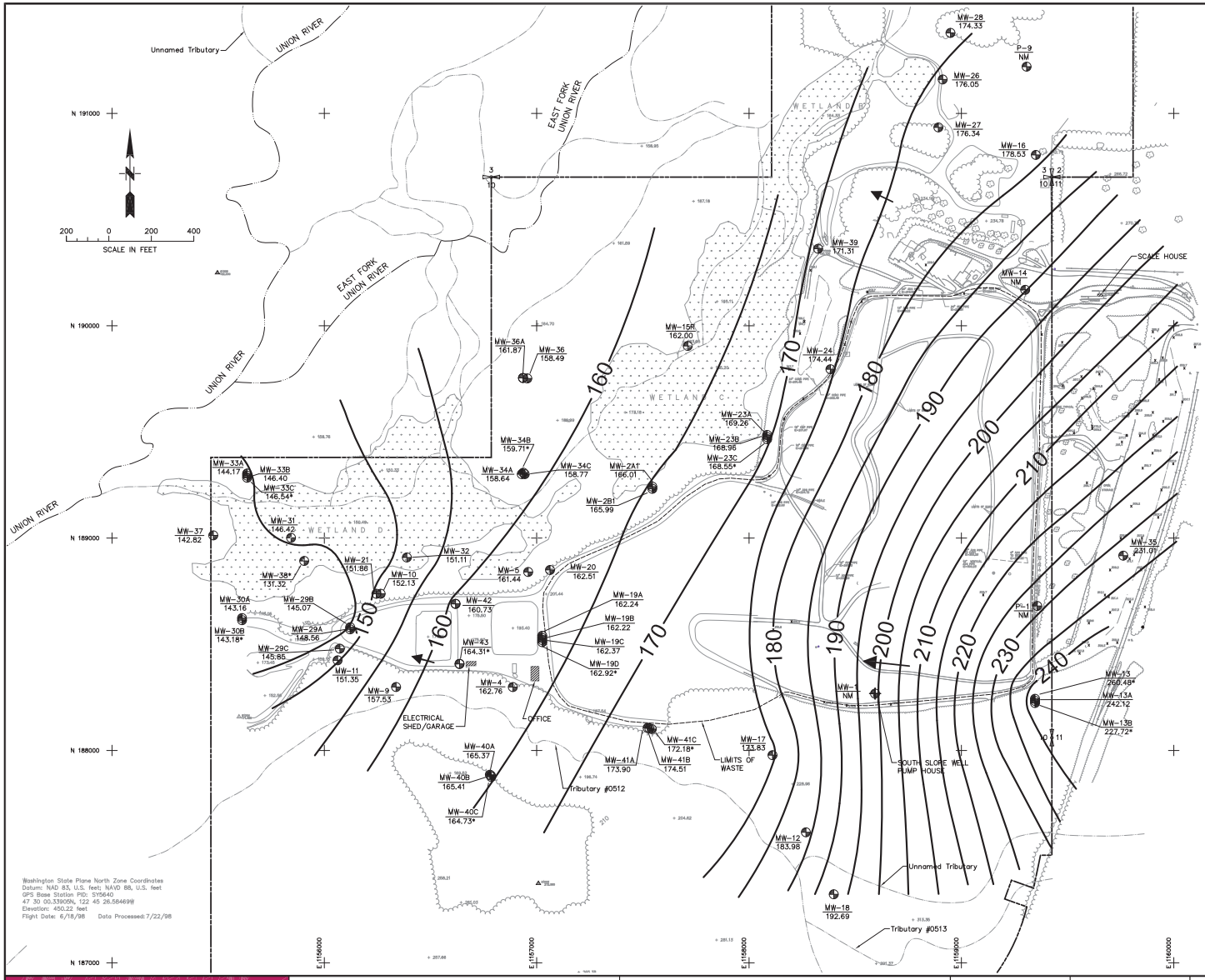
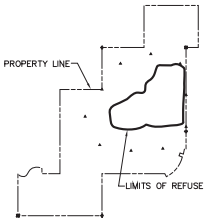
PROJECT NO. 04204027.18	DES BY T.M.	SUBSURFACE LANDFILL GAS MONITORING PROBES AND BUILDING MONITORING LOCATIONS	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL	FIGURE 3
CAD FILE FIGURE 3	APP BY D.V.	KITSAP COUNTY, WASHINGTON	



Note:

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

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



KEY MAP

LEGEND

MW-35 231.01	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

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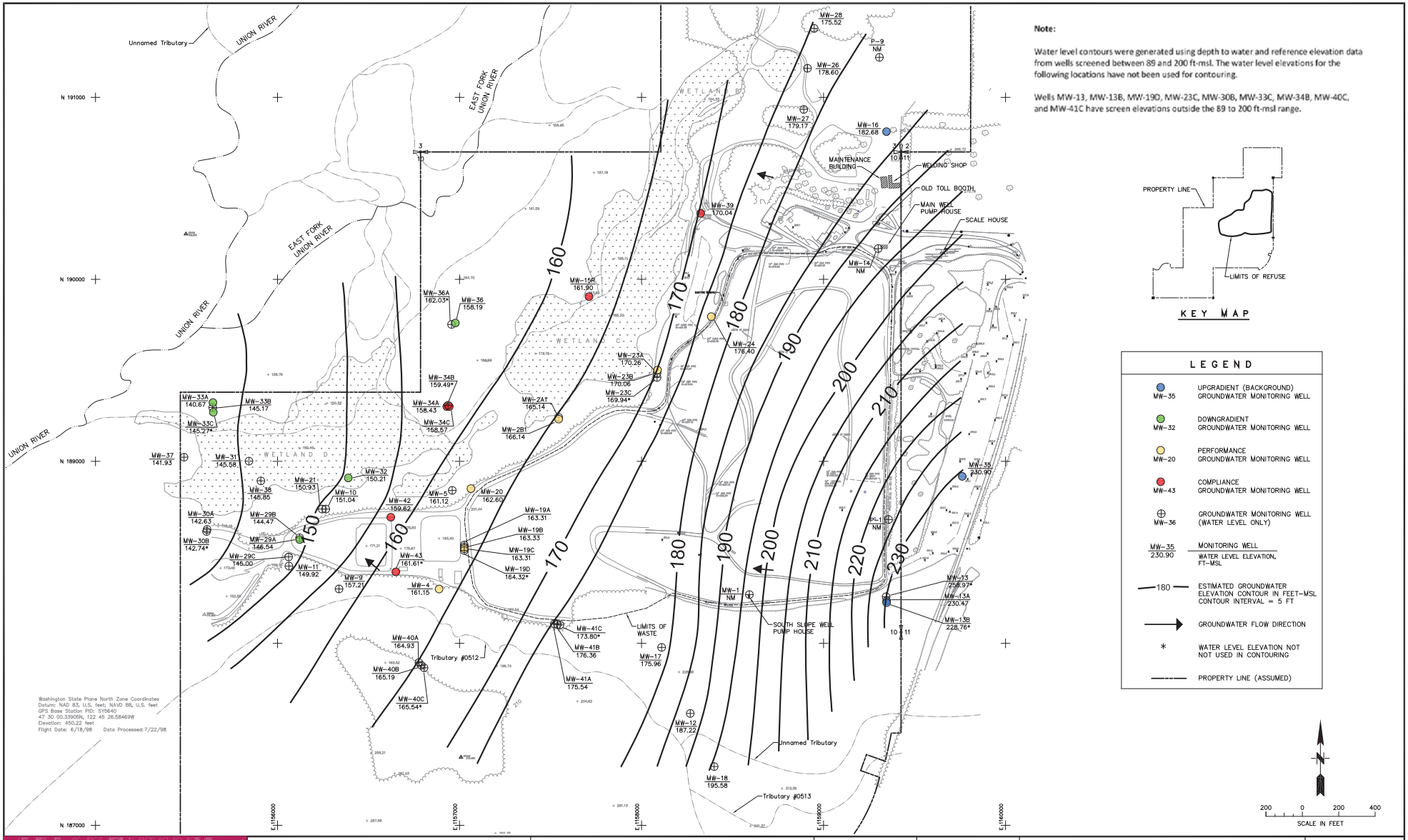
PROJECT NO. 04204027.18	DES BY M.O.	GROUNDWATER ELEVATION MAP FIRST QUARTER MARCH 2014 OLYMPIC VIEW SANITARY LANDFILL PORT ORCHARD, WASHINGTON	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.		FIGURE 4A
CAD FILE FIGURE 4A	APP BY D.V.		



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-35 230.90	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)

200 0 200 400
SCALE IN FEET

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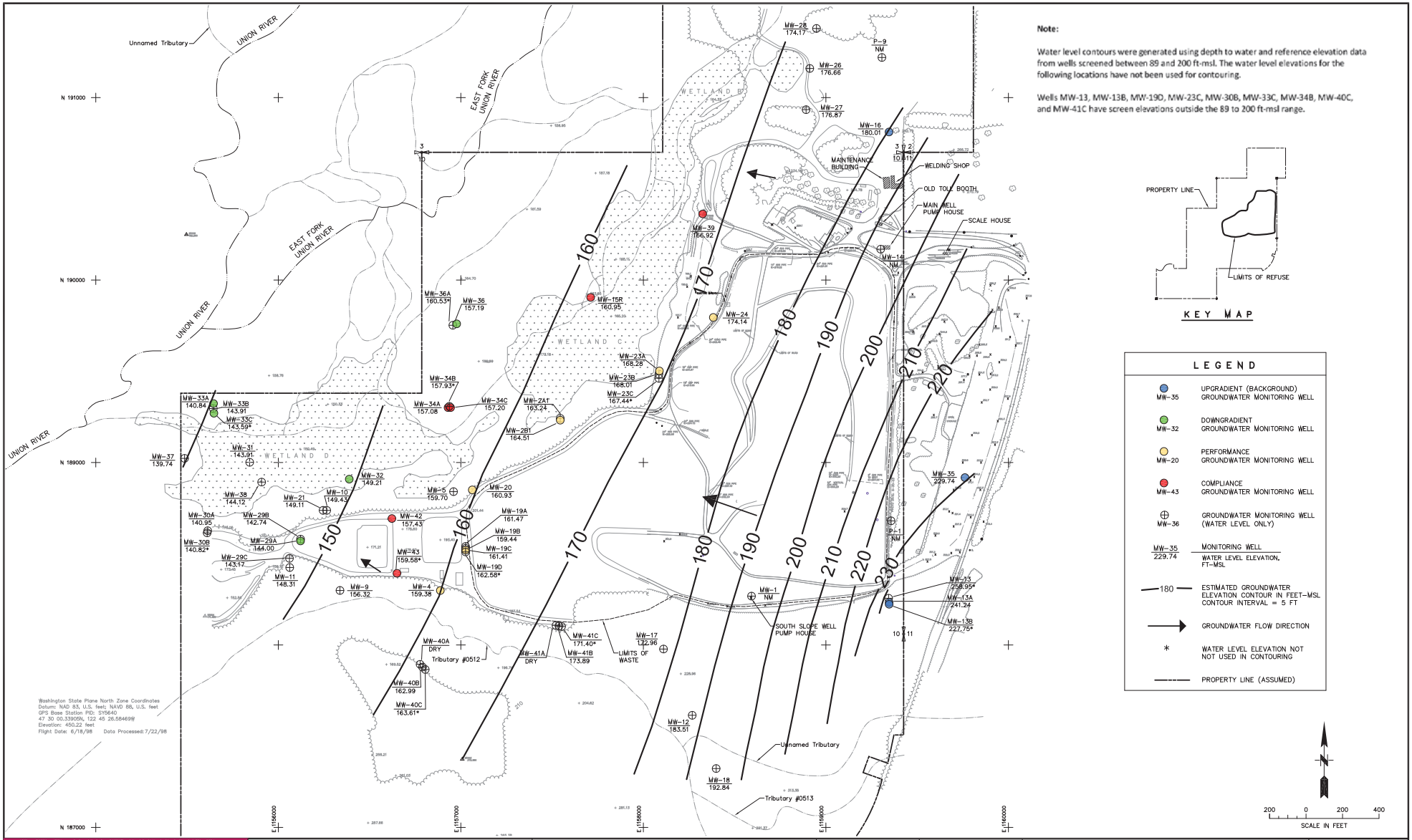
PROJECT NO. 04204027.18	DES BY E.R.	GROUNDWATER ELEVATION MAP SECOND QUARTER JUNE 2014	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 4B
CAD FILE FIGURE 4B	APP BY D.V.		



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-35 229.74	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)

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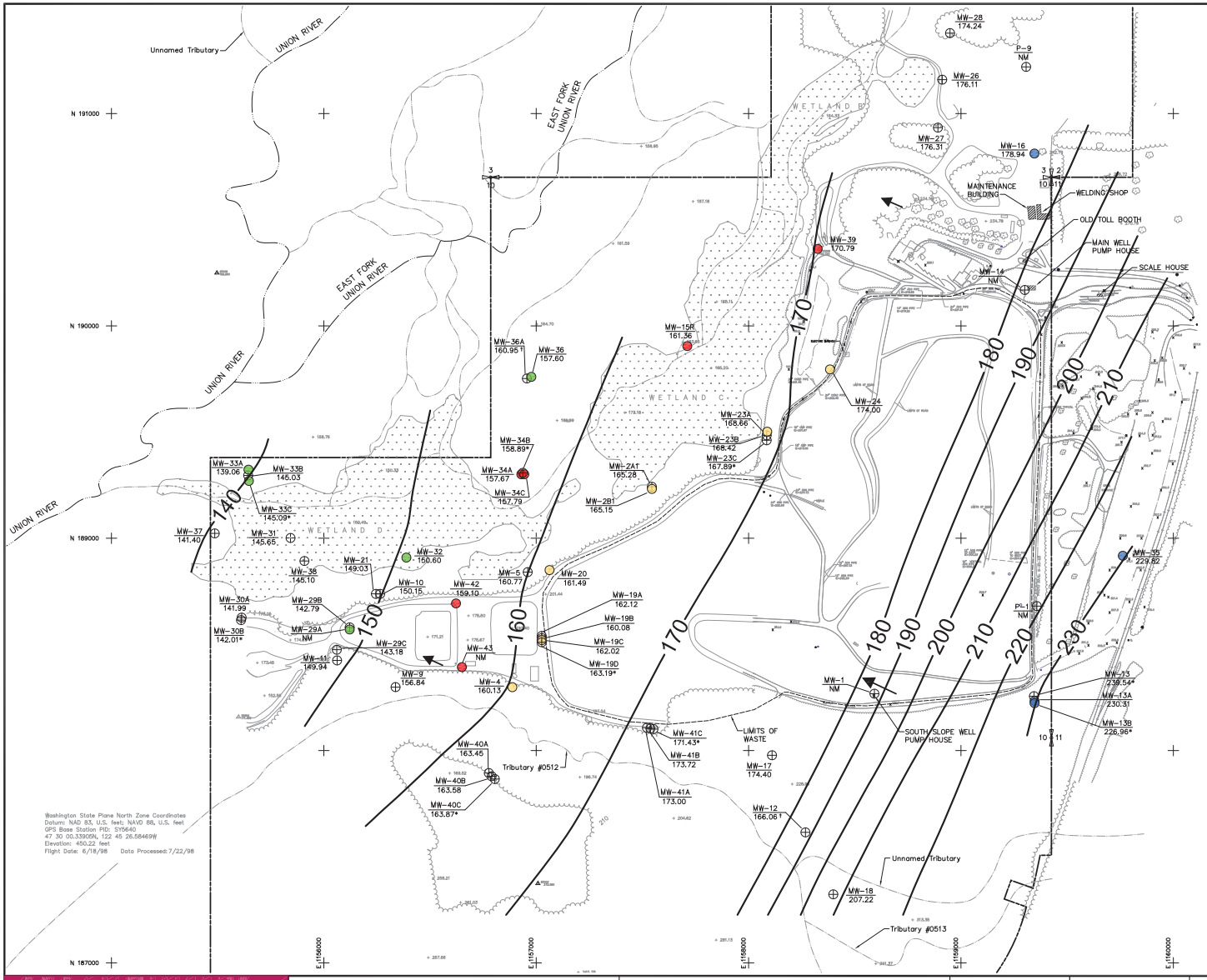
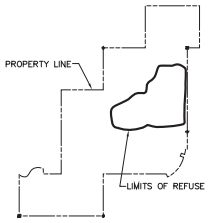
PROJECT NO. 04204027.18	DES BY E.R.	WATER LEVEL CONTOUR MAP THIRD QUARTER SEPTEMBER 2014 OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.		FIGURE 4C
CAD FILE FIGURE 4C	APP BY D.V.		



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 / 229.82	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
†	WATER LEVEL ELEVATION NOT NOT USED IN CONTOURING
	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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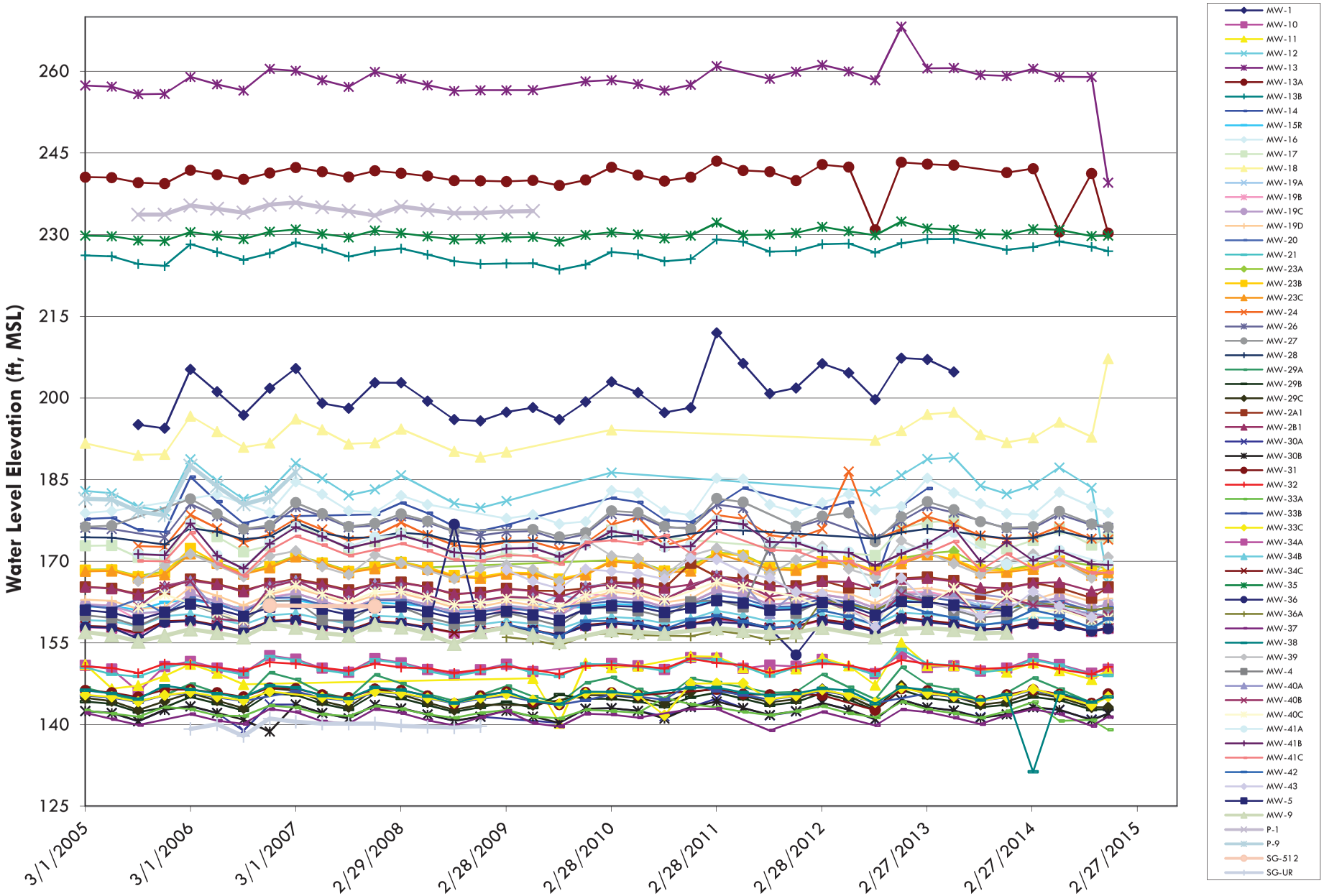
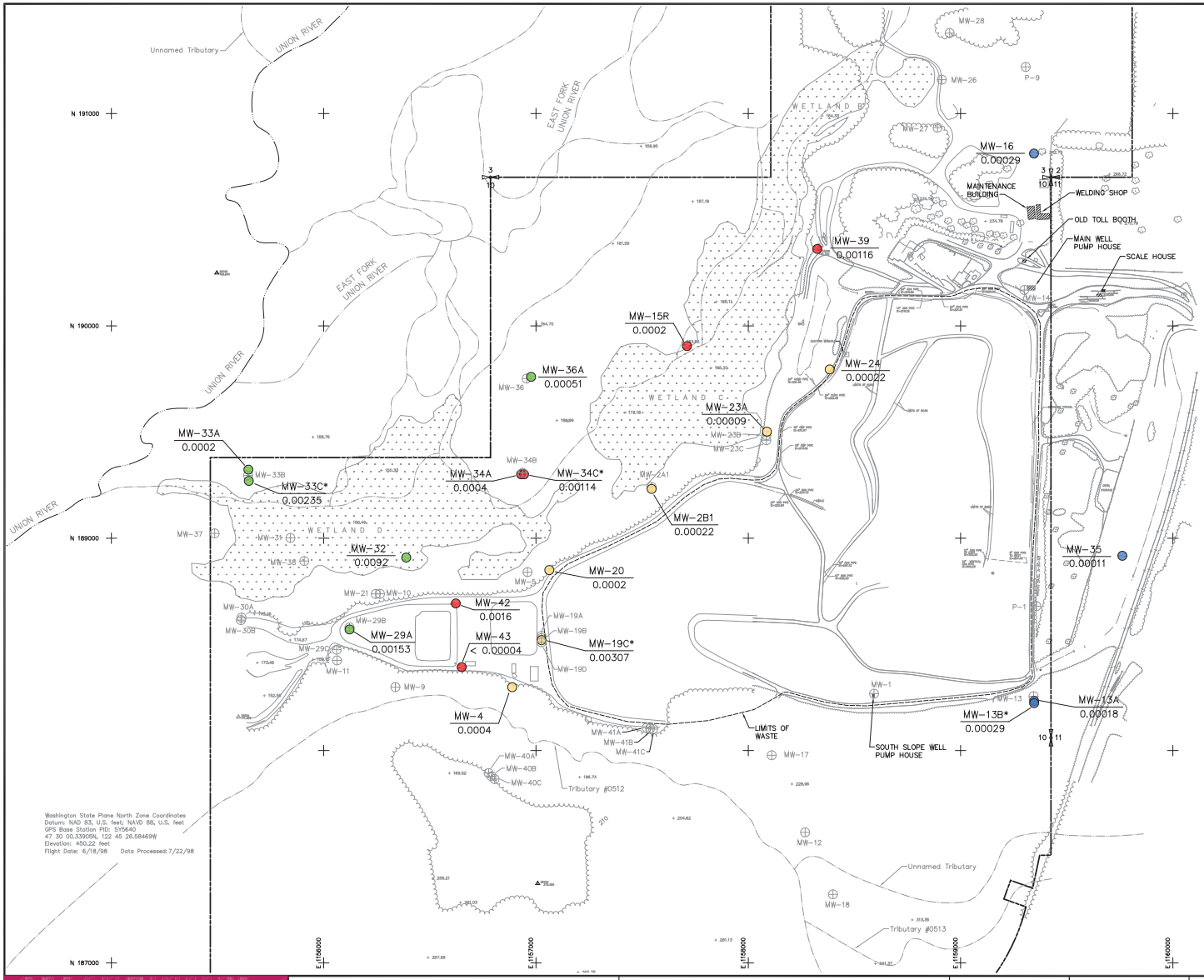
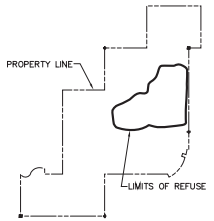
PROJECT NO. 04204027.18	DES BY E.R.	GROUNDWATER ELEVATION MAP FOURTH QUARTER NOVEMBER 2014 OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.		FIGURE 4D
CAD FILE FIGURE 4D	APP BY D.V.		

Figure 5. Historical Groundwater Elevations
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington





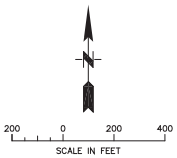
NOTES : Wells MW-29A and MW-33A are only sampled semi-annually and shown as NS when not sampled.



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 0.0092	SHALLOW MONITORING WELL ARSENIC, DISSOLVED (mg/L)
*	DEEP MONITORING WELL
	PROPERTY LINE (ASSUMED)



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Environmental Consultants and Contractors
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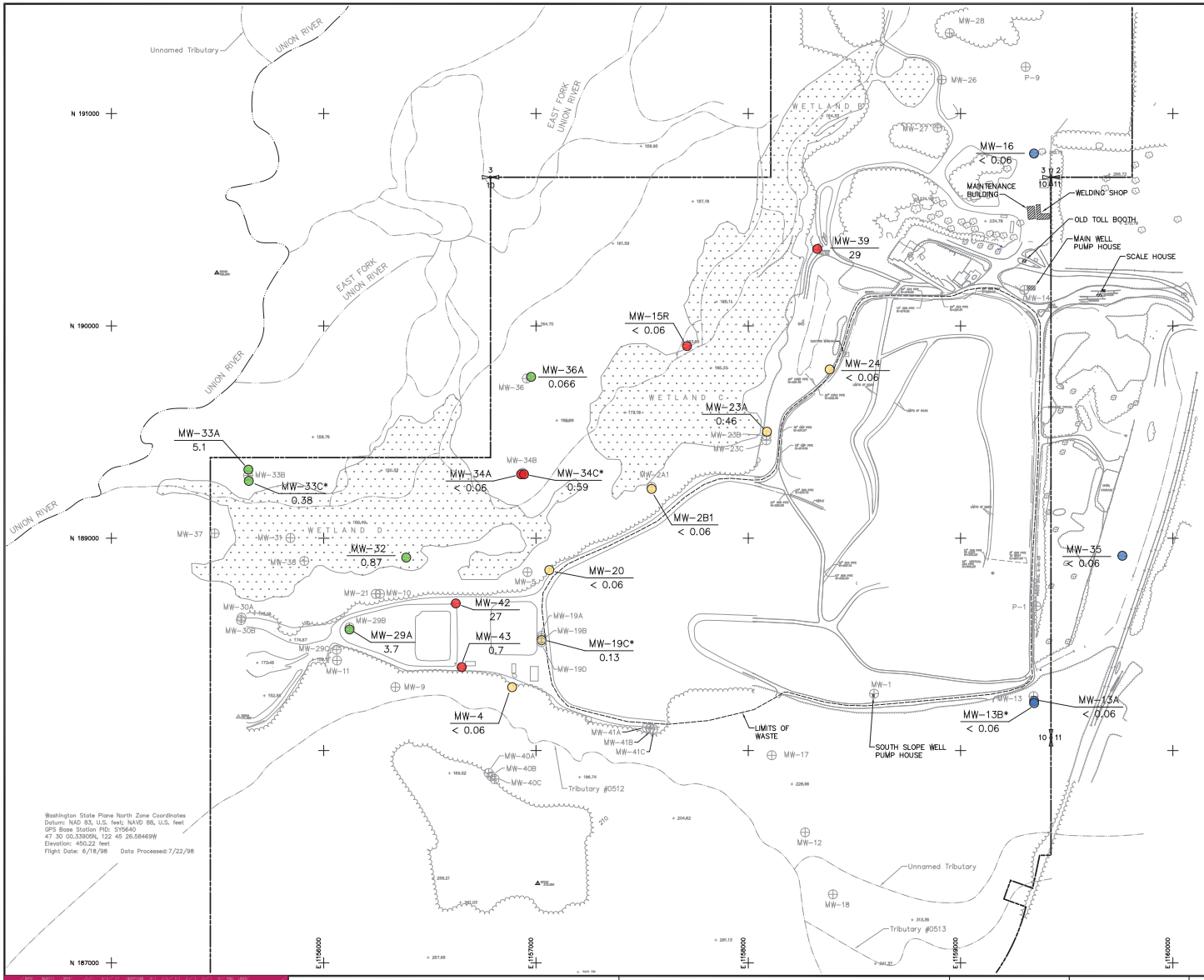
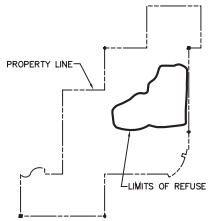
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

PROJECT NO. 04204027.18	DES BY M.O.	DISSOLVED ARSENIC CONCENTRATION MAP NOVEMBER 2014	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	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 / 0.87	SHALLOW MONITORING WELL IRON, DISSOLVED (mg/L)
*	DEEP MONITORING WELL
	PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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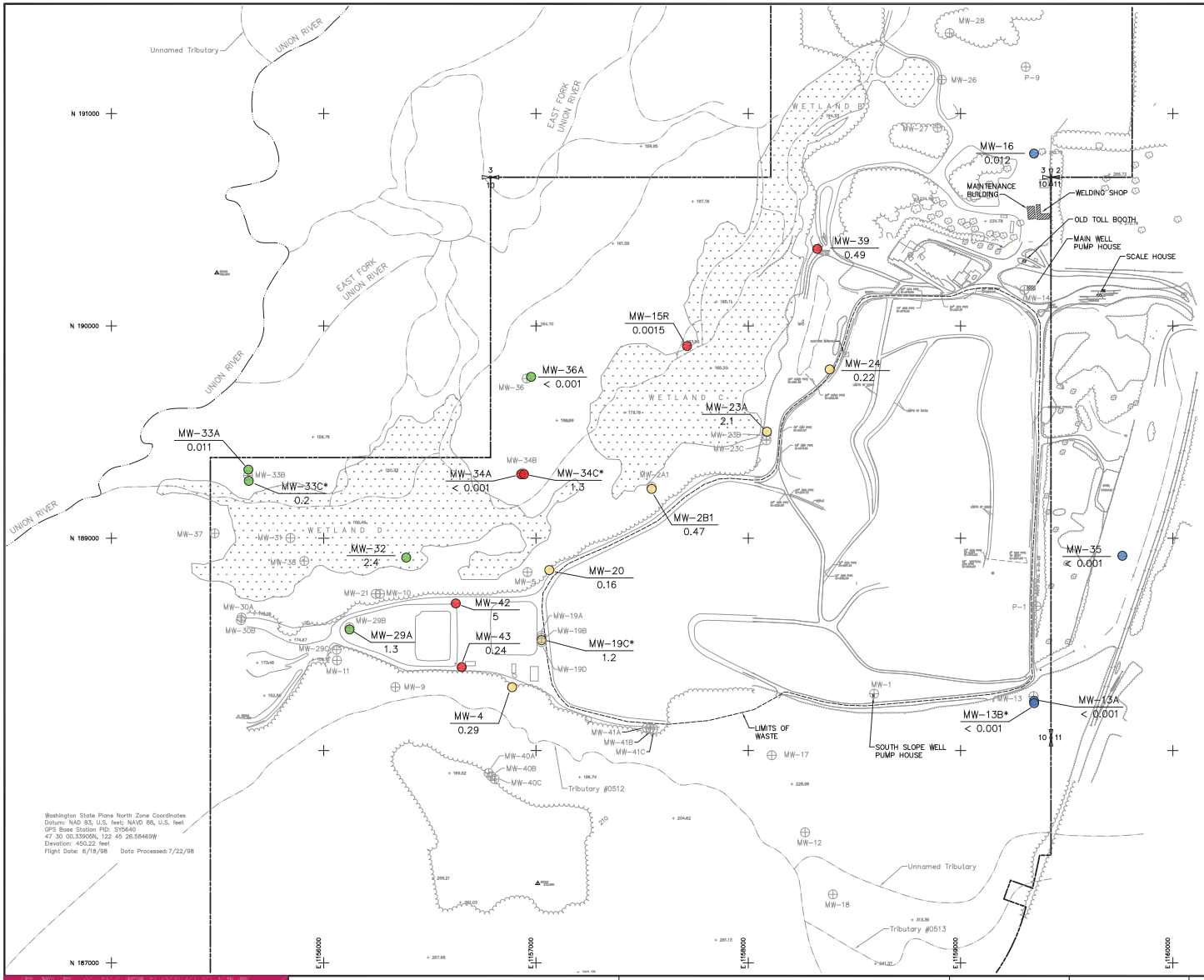
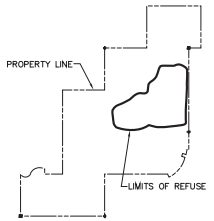
PROJECT NO. 04204027.18	DES BY M.O.	DISSOLVED IRON CONCENTRATION MAP NOVEMBER 2014	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6B
CAD FILE FIGURE 6B	APP BY D.V.		



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 / 2.4 — SHALLOW MONITORING WELL, MANGANESE, DISSOLVED (mg/L)
- * — DEEP MONITORING WELL
- PROPERTY LINE (ASSUMED)

200 0 200 400
SCALE IN FEET

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Bellevue, Washington 98005
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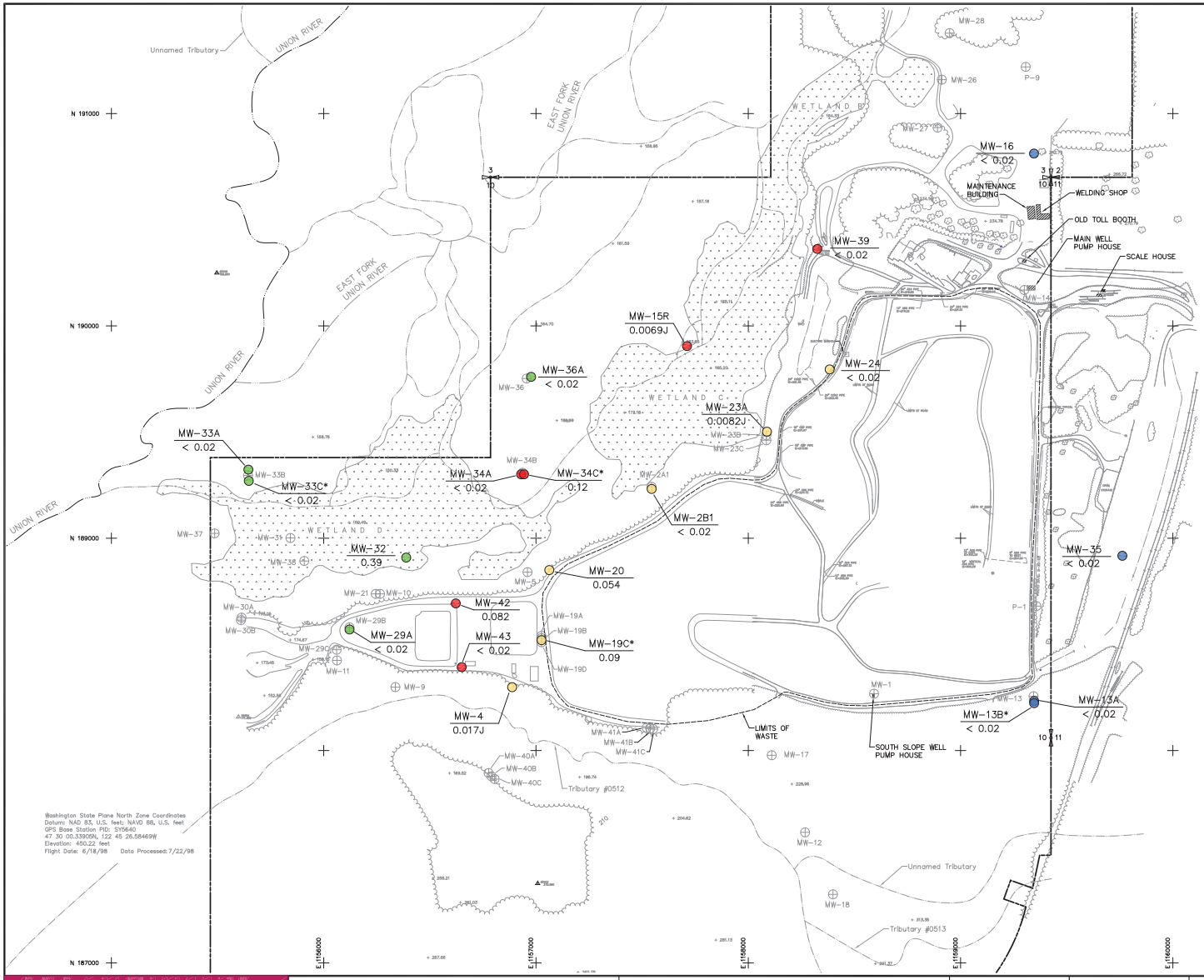
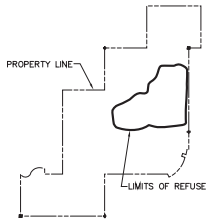
PROJECT NO. 04204027.18	DES BY M.O.	DISSOLVED MANGANESE CONCENTRATION MAP NOVEMBER 2014	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6C
CAD FILE FIGURE 6C	APP BY D.V.		



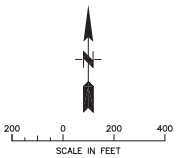
NOTES : Wells MW-29A and MW-33A are only sampled semi-annually and shown as NS when not sampled.



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 / 0.39	SHALLOW MONITORING WELL / VINYL CHLORIDE (ug/L)
*	DEEP MONITORING WELL
———	PROPERTY LINE (ASSUMED)



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PROJECT NO. 04204027.18	DES BY M.O.	VINYL CHLORIDE CONCENTRATION MAP NOVEMBER 2014	DATE MARCH 2015
SCALE AS SHOWN	CHK BY E.R.	OLYMPIC VIEW SANITARY LANDFILL KITSAP COUNTY, WASHINGTON	FIGURE 6D
CAD FILE FIGURE 6D	APP BY D.V.		

Figure 7. Leachate Generation (20017 - 2014)
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

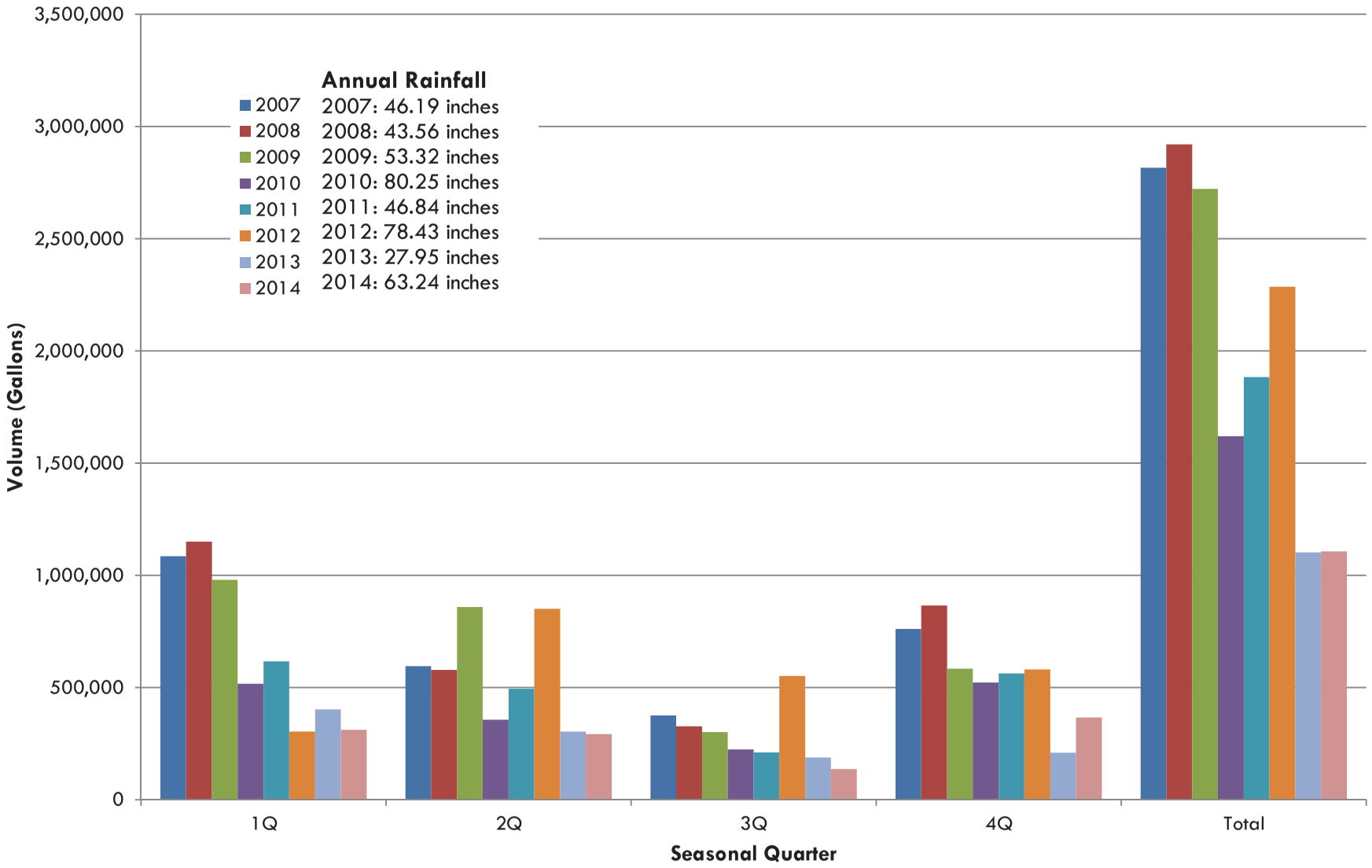
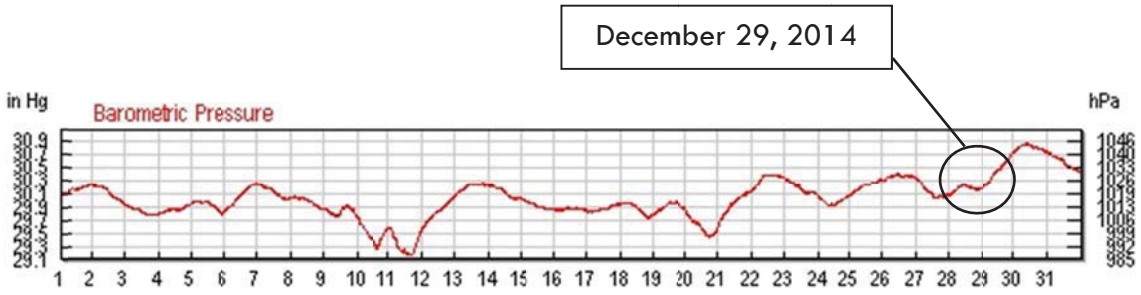
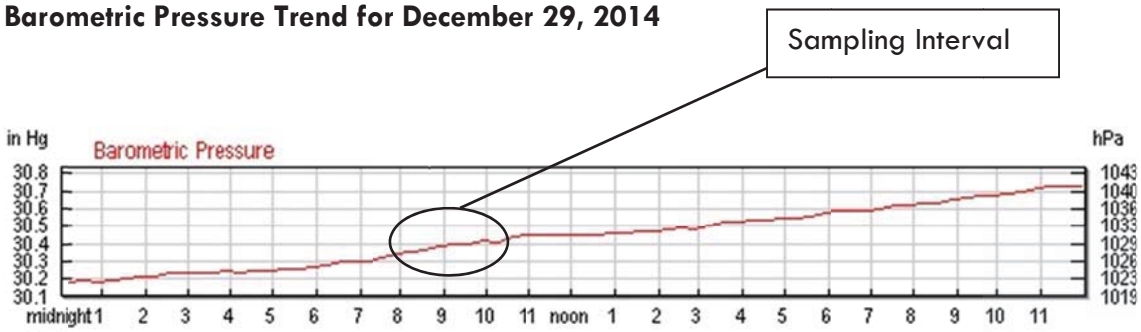


Figure 8. Barometric Pressure during LFG Migration Monitoring – December 2014
2014 Annual Monitoring Report
Olympic View Sanitary Landfill, Kitsap County, Washington

Barometric Pressure Trend for December 2014



Barometric Pressure Trend for December 29, 2014



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/2014/12/29/MonthlyHistory.html?req_city=Bremerton&req_state=WA&req_statename=Washington&reqdb.zip=98310&reqdb.magic=1&reqdb.wmo=99999

APPENDIX A

FOURTH QUARTER 2014
FIELD DOCUMENTATION

(FIELD DOCUMENTATION FROM Q1 THROUGH Q3 ON CD)

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SCS ENGINEERS

March 7, 2014
File No. 04204027.17

Subject: **First Quarter March 2014 Ground Water Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 3/3/14 through 3/5/14
Personell: Matt O'Hare and Bradley Beach
Notes/Sampling Decoding:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-2B1 (DUP1) and MW-43 (DUP2).
- The Solinst model 102 water level meter failed during the monitoring event. The Solinst model 101 water level meter was subsequently used.
- In addition to the monitoring wells were 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.
- 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	Comments
3/3/14	MW-15R	
3/3/14	MW-23A	
3/3/14	MW-36A	
3/3/14	MW-20	
3/3/14	MW-42	
3/4/14	MW-43	DUP2
3/4/14	MW-4	
3/4/14	MW-24	
3/4/14	MW-34A	
3/4/14	MW-34C	
3/4/14	MW-19C	
3/4/14	MW-13B	
3/4/14	MW-13A	
3/4/14	MW-35	
3/4/14	MW-2B1	DUP1
3/5/14	MW-33C	
3/5/14	MW-16	
3/5/14	MW-39	
3/5/14	MW-32	

1Q14 3/3/14

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-1	3/3/14	—	—	—	NM - lost	69.04
MW-10	3/3/14		2.94		No lock	NM
MW-11	↓		3.69		Broken lock	4.25
MW-12			49.11			NM
MW-13	↓		28.46			28.94
MW-13A			46.62			46.34
MW-13B			60.94			60.30
MW-14	—	—	—	—	NM	47.38
MW-15R			18.66		No lock	18.72
MW-16			61.48		No lock	57.65
MW-17			34.18			NM
MW-18			65.65			NM
MW-19A			33.50			32.58
MW-19B			33.60		Broken lock	32.62
MW-19C			34.59			33.80
MW-19D			33.91			32.73
MW-20			35.90			35.91
MW-21			4.17			5.35
MW-23A			13.02		Locking Mechanism not Working	NM
MW-23B			13.46		" "	12.41
MW-23C			13.86		" "	12.92
MW-24			33.81			21.74
MW-26			13.68		Broken lock	NM
MW-27			24.31			21.74
MW-28			6.72			NM
MW-29A			11.65			13.35
MW-29B			16.62			17.12
MW-29C			11.07			11.73

	SCS ENGINEERS					
				OVSL		
						Page 2 of 2
	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-2A1	3/3/14		8.21			9.12
MW-2B1	↓		6.95			6.72
MW-30A			23.58			24.00
MW-30B			23.42			23.88
MW-31			1.86		Broken lid	NM
MW-32			1.25		Broken lid	1.50
MW-33A			3.51			5.62
MW-33B			1.15			2.13
MW-33C			1.05			2.17
MW-34A			39.31			39.5
MW-34B			39.22			39.41
MW-34C			41.12			41.21
MW-35			71.68			72.07
MW-36			30.90		No lock	31.14
MW-36A			30.81			31.00
MW-37			3.11		Broken lock	NM
MW-38			3.23		No lock	3.67
MW-39			18.61			21.34
MW-4			13.02		Broken lock	14.95
MW-40A			14.79			15.51
MW-40B			14.83			15.44
MW-40C			16.43		Broken lock	15.84
MW-41A			25.53			24.18
MW-41B			26.13			24.64
MW-41C			27.49			26.16
MW-42			26.70		No lock	27.85
MW-43			22.11		Broken lock	25.16
MW-5			2.93		Broken lock	2.57
MW-9			2.81		No lock	NM

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: DUSC

Site No.: ____ Sample Point: MW-1S (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
03 03 14	10:21	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 — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: ____

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

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

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

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	18.66	

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)
1026	1st	6.10	136	10.10	—	4.01	144	18.73
1029	2nd	6.15	139	10.13	0.94	3.75	140	18.73
1032	3rd	6.21	142	10.15		3.28	132	
1035	4th	6.28	145	10.13		2.78	123	
1038		6.31	147	10.12		2.56	119	
1041		6.34	145	10.13	0.74	2.50	114	18.72
1044		6.36	149	10.13		2.41	111	
1047		6.38	150	10.13		1.96	107	
1050		6.40	151	10.15	0.74	1.57	105	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	>5 0.70%	+/- 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 fileds 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
03 03 14	6.40	151	10.15	0.74	1.57	105	1050

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):

Stabilization Parameters - pH ±0.2, Cond ±10%, Temp ±0.5°C, Turb ≤5 or ±10%, DO ±0.2, DTW Stabilize

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
3/3/14	Matt Oyler		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-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
03 03 14	1122	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:

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): 1302 (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	1127		6.30	1115	9.33	3.68	3.41	129	13.03
2nd	1130		6.25	1101	9.32	3.42	3.21	117	13.03
3rd	1133		6.25	1101	9.32	3.15	3.21	111	13.04
4th	1136		6.25	1101	9.31	1.59	3.10	107	
	1139		6.27	1101	9.47	1.53	2.96	104	13.04
	1142		6.27	1101	9.52	3.00	2.90	102	
	1145		6.27	1101	9.51	8.17	2.71	100	
	1148		6.27	1101	9.54	5.43	2.65	99	13.05
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 fileds 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: Turb Units
03 03 14	6.27	1101	9.54	8.43	2.65	99	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: - Color: - Other: -

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

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

See MW-1SR 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
3/3/14	Matt O'Hare		SLS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CVSL

Site No.:

Sample Point: MW-36R (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
3 3 14	1233	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:

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)
	30.81	

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)
1238	1st	6.06	1.15	9.94	1.51	5.92	132	31.09
1241	2nd	5.95	1.18	9.89	1.71	3.87	124	31.07
1244	3rd	6.02	1.17	9.92	1.83	2.63	115	31.07
1248	4th	6.18	1.17	9.80	2.50	2.20	102	31.01
1251		6.18	1.16	9.84	1.06	2.17	98	31.07
1254		6.20	1.16	9.89		2.17	96	31.07
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 fileds 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
03 03 14	6.20	1.16	9.89	1.06	2.17	96	1254

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: Rain Precipitation: Y or N

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

SEE MW-15R 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
3/3/14	Matt O'Hare		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: MW-20

Site No.: | Sample Point: | 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
030314	1339	0805			

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: 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): 35.90 (ft)

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

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm@25°C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:44	200	1st	6.66	1st	237		14.07	4.88	6.88	95	35.90
13:47		2nd	6.69	2nd	229		14.18	3.45	6.16	94	35.90
13:50		3rd	6.66	3rd	234		14.20	3.10	5.48	94	35.90
13:53		4th	6.65	4th	242		14.21	2.87	4.96	94	35.90
13:56			6.62		253		14.21	1.33	4.45	93	35.90
13:59			6.61		256		14.18	1.60	4.07	91	35.90
14:02			6.60		260		14.19	1.39	3.88	90	35.90
14:05			6.66		262		14.23	1.25	3.77	90	35.90
14:08			6.60		262		14.24	1.58	3.73	90	35.90
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 fileds 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: Thm Units
030314	6.60	262	14.24	1.58	3.73	90	1408

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: Rain **Precipitation:** (Y) or N

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

SEE MW-1SR 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
3,3,14	Matt Dyer		SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: MW-42
Site No.:
Sample Point: 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
03 03 14	15:05	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: (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): 26.70 (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)
15:10	300	1st 6.50	1st 473	12.07	—	2.57	-67	26.75
15:13	1	2nd 6.49	2nd 479	12.05	16.61	0.77	-73	26.80
15:16	↓	3rd 6.49	3rd 478	12.03	9.01	0.29	-80	26.80
15:19		4th 6.49	4th 479	12.02	5.40	0.19	-85	26.78
15:22		6.50	478	12.00	4.28	0.15	-88	26.76
15:25		6.50	482	12.01	4.09	0.15	-89	26.75
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 fileds 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
03 03 14	6.50	482	12.01	4.09	0.15	-89	1525

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: Rain
Precipitation: (Y) or N

Specific Comments (including purge/well volume calculations if required):
See MW-15R 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
3/3/14	Matt O'Hare		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-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
03 04 14	0839				

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

Sampling Device: A

X-Other:

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

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

WELL DATA

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

Depth to Water (DTW) (from TOC): 22.11 (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)
0849		1st 6.18	1st 0.29	8.11	16.43	6.20	108.5	22.11
0852		2nd 6.05	2nd 0.29	8.10	9.73	6.14	118.5	22.09
0855		3rd 6.02	3rd 0.29	8.10	5.86	6.11	126.5	22.10
0858		4th 6.01	4th 0.29	8.10	4.05	6.09	130.2	22.11
0901		5.98	0.28	8.10	1.83	6.04	137.2	22.12
0904		5.97	0.29	8.09	1.58	6.03	138.4	22.11
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 fileds 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
030414	5.97	0.29	8.09	1.58	6.03	138.4	0904

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):

Dup Taken as Dup-2

See MW-15R 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
3/4/14	Matt Ostran	[signature]	SCS

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: ____ Sample Point: MW-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
03 04 14	13:14				

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

Sampling Device: A

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

X-Other: ____

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

WELL DATA

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

Depth to Water (DTW) (from TOC): 12.99 (ft)

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

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

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

Casing ID: ____ (in)

Casing Material: ____

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm@25°C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:20		1st	6.15	1st	0.47		9.25	1.93	5.39	213.3	13.05
13:23		2nd	6.16	2nd	0.47		9.23	1.52	5.22	194.6	13.02
13:26		3rd	6.25	3rd	0.45		9.27	9.93	5.11	188.1	13.01
13:29		4th	6.29	4th	0.47		9.26	1.69	5.06	181.4	13.03
13:32			6.31		0.48		9.28	1.15	5.03	176.1	13.04
13:35			6.29		0.48		9.27	2.91	4.96	173.5	13.02
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 fileds 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: TVC Units
03 04 14	6.29	0.48	9.27	2.91	4.96	173.5	1335

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

FIELD COMMENTS

Sample Appearance: Clear Odor: — Color: — Other: ____

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

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

See MW-15R 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
3.4.14	Matt O'Hare	[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-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
030414	1157				

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 circled) or N

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

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

Sampling Device: A

X-Other:

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

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

WELL DATA

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

Depth to Water (DTW) (from TOC): 33.81 (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)
1202		1st 7.10	1st 118	11.45	5.85	0.42	128.0	33.80
1205		2nd 7.10	2nd 118	11.50	7.17	0.33	111.4	33.78
1208		3rd 7.03	3rd 120	11.53	6.90	0.26	99.8	33.81
1211		4th 6.93	4th 119	11.49	4.97	0.23	101.5	33.80
1214		6.80	118	11.56	3.72	0.22	104.4	33.81
1217		6.75	119	11.59	3.59	0.32	105.3	33.80
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 fileds 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
030414	6.75	119	11.59	3.59	0.32	105.3	1217

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-grey Odor: — Color: grey Other:

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

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

See MW-15R 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
3/4/14	Matt O'Hara	[signature]	SCS

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.:

Sample Point: MW-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
030414	1058				

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: ____ — 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): 3926 (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)
1103		1st	6.33	1st	145		11.03	3.23	0.74	150.1	39.26
1106		2nd	6.34	2nd	147		11.71	2.98	0.64	140.7	39.26
1109		3rd	6.34	3rd	146		11.73	2.78	0.66	136.0	39.25
1112		4th	6.35	4th	147		11.67	2.67	0.66	132.3	39.26
1115			6.34		146		11.68	2.15	0.76	130.0	39.26
1118			6.34		145		11.69	1.98	0.96	128.0	39.25
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 fileds 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
030414	6.34	145	11.69	1.98	0.96	128.0	1118

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: Rain Precipitation: (Y) or N

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

See MW-ISR 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
3.4.14	Matt Ontko		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-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
03/04/14	1007				

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: 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): 41.09 (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)
1012	1st	6.64	214	12.01	20.17	0.63	473	41.11
1015	2nd	6.80	213	12.09	15.63	0.47	309	41.10
1018	3rd	6.87	213	12.20	10.78	0.37	213	41.09
1021	4th	6.88	213	12.22	10.42	0.35	181	41.10
1024		6.90	213	12.15	10.63	0.32	136	41.09
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 fileds 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
03/04/14	6.90	213	12.15	10.63	0.32	136	1024

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: Rain — Precipitation: (Y) or N

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

SEE MW-15R 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
3/4/14	Matt Ohm		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: [illegible] ONSL

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
03/04/14	1254	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: A

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)
1259	200	1st	7.32	1st	129		10.47	8.21	2.58	22	
1302		2nd	7.17	2nd	134		10.59	6.08	0.80	-20	
1305		3rd	7.13	3rd	133		10.44	4.88	0.50	-24	
1308		4th	7.10	4th	134		10.42	4.20	0.37	-26	
1311			7.06		133		10.43	3.91	0.25	-30	
1314			7.06		133		10.43	3.27	0.24	-31	
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 fileds 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: tme Units
03/04/14	7.06	133	10.43	3.27	0.24	-31	1314

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: Rain **Precipitation:** (Y) or N

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

See MW-15R for Stabilization Parameters

Water level 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
3/4/14	Matt Otten	[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
03 04 14	1042	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: C

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)
1047	200	1st	6.90	1st	140	1st	9.00	389	6.79	134	
1050	↓	2nd	6.90	2nd	139	2nd	9.04	405	6.80	117	
1053		3rd	6.95	3rd	139	3rd	9.04	322	6.88	111	
1056		4th	6.99	4th	139	4th	9.02	200	6.85	98	
1059			7.18		139		9.00	240	6.80	81	
1102			7.30		139		9.00	242	6.80	76	
1105			7.38		139		9.00	240	6.80	75	
1108			7.40		139		9.00	201	6.82	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 fileds 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: None Units ____
03 04 14	7.40	139	9.00	201	6.82	75	1108

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: Rain Precipitation: Y or N

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

SEE MW-13R for Stabilization Parameters

DTB - 70.46

WL 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
3.4.14	Matt Dykas	[signature]	SCS

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

ccl

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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
03/04/14	1008	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: C — 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): <60.05 (ft)

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

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1013	150	1st 7.48	1st 1.41	9.06	4.41	6.74	76	<60.05
1016		2nd 7.46	2nd 1.42	9.02	3.00	6.69	73	"
1019		3rd 7.48	3rd 1.41	8.98	2.95	6.71	72	"
[illegible]		4th	4th					"
[illegible]								"
[illegible]								"
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 fileds 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: TMC Units
03/04/14	7.48	1.41	8.98	2.95	6.71	72	1019

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: Rain Precipitation: (Y) or N

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

FIELD COMMENTS

WE <60.05' ~~Dry above Top of pump~~
Water Level Meter Failure
Sampled quickly due to low WL.
SEE MW-1SR 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
3/4/14	Matt O'Hare	[signature]	SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: MSL

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
03/04/14	0855	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:

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)
	78.48	

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)
0900	700	1st 7.43	1st 130	9.89	10.62	7.07	71	78.50
0905		2nd 7.45	2nd 129	9.82	4.91	6.89	65	78.50
0910		3rd 7.48	3rd 129	9.74	3.66	6.80	61	78.50
0914		4th 7.52	4th 129	9.76	3.48	6.78	59	78.50
0912		7.53	129	9.76	2.99	6.77	58	78.50
0915		7.53	129	9.76	[illegible]	6.78	57	78.50
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 fileds 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: Turb Units
03/04/14	7.53	129	9.76	2.36	6.78	57	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 — Odor: — Color: — Other:

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

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

See MW-15R 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
3/4/14	Matt O'Hara	[signature]	SES

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

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 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
03/04/14	1345				

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: A

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)
1st	1350	200	7.01	50	9.51	11.46	5.30	86	
2nd	1353		6.89	49	9.58	7.03	5.28	89	
3rd	1356		6.78	49	9.46	4.97	5.40	92	
4th	1359		6.71	49	9.46	3.87	5.46	94	
	1402		6.69	49	9.48	3.11	5.47	95	
	1405		6.68	49	9.47	3.31	5.47	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 fileds 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: True Units	
03/04/14	6.68	49	9.47	3.31	5.47	95		1405

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: Rain Precipitation (Y) or N

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

Dup 1 taken

Water level meter failure

See MW-1SR 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
3/4/14	Matt O'Hare		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-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
030514	1227	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 ____

X-Other: ____

Sample Tube Type: C — 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) 105 (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)
1232	250	1st 6.58	1st 131	8.99	2.42	3.64	98	1.07
1235	1	2nd 6.50	2nd 130	8.91	3.00	1.37	27	1.07
1238	1	3rd 6.80	3rd 130	8.99	3.22	1.16	-25	1.07
1241	1	4th 7.10	4th 131	8.98	2.42	1.31	-61	1.07
1244	V	7.13	130	8.97	2.72	1.34	-86	1.07
1247	1	7.28	131	8.94	3.49	1.39	-103	1.07
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 fileds 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: Turb Units
030514	728	131	8.94	3.49	1.39	-103	1247

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: Rain — Precipitation: Y or (N)

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

33B - 1.15

33A - 3.51

See MW-ISR 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
3/5/14	Matt Ohme		SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

Site No.:

Sample Point: MW-116

Sample ID

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
030514	1052	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: C

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)
	61.35	

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)
1057	200	1st	6.41	1st	101		9.58	11.19	7.62	103	61.40
1100		2nd	6.44	2nd	101		9.46	10.01	6.89	107	61.41
1103		3rd	6.46	3rd	0.99		9.44	6.22	6.79	109	61.41
1106		4th	6.49	4th	9.9		9.44	4.29	6.86	111	61.41
1109			6.49		9.9		9.40	3.89	6.90	112	61.41
1112	V		6.50		9.9		9.40	2.99	6.92	113	61.41
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 fileds 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: Turb Units
030514	6.50	9.9	9.40	2.99	6.92	113	11.12

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: Rain Precipitation: Y or N

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

SEE MW-ISR 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
3.5.14	Matt Orton	[signature]	SES

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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
03 05 14	1800	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

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: C

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)
	184.7	

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm@25°C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1005	200	1st	6.01	1st	124	1st	10.71	18.18	1.91	57	19.10
1008	1	2nd	5.89	2nd	119	2nd	10.76	10.10	1.03	67	19.18
1011	↓	3rd	5.85	3rd	118	3rd	10.81	10.11	0.58	77	19.20
1014		4th	5.85	4th	118	4th	10.79	10.36	0.47	82	19.20
1017			5.84		118		10.78	9.95	0.43	84	19.20
1020			5.83		117		10.82	10.44	0.39	88	19.20
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 fileds 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: None Units	
03 05 14	5.83	117	10.82	10.44	0.39	88		1020

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

Sample Appearance: Clear Odor: — Color: — Other:

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

FIELD COMMENTS

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

See MW-1SR 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
3/5/14	Matt O'Hare		SES

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: ESL

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
03 05 14	0909	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 — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

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: C — 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): 12.5 (ft)

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

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0914	200	1st 6.59	1st 229	11.36	1.25	2.08	-10	1.83
0917	1	2nd 6.68	2nd 227	11.39	1.38	1.48	-25	2.04
0920	1	3rd 6.79	3rd 228	11.44	2.05	1.26	-34	2.10
0923	1	4th 6.84	4th 227	11.44	2.10	0.88	-38	2.12
0926	V	6.86	228	11.48	1.85	0.99	-39	2.13
0929	V	6.87	226	11.45	1.06	0.99	-39	2.13
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 fileds 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
03 05 14	6.87	226	11.45	1.06	0.99	-39	0929

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: Rain — Precipitation: Y or (N)

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

Bubbles in air stream, whooshing sound coming from well during recharge, possible check valve issue, drawdack.
See MW-1SR 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
3,5,14	Matt O'Hare		SES

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

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

June 5, 2014
File No. 04204027.17

Subject: **Second Quarter 2014 Ground Water Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 6/2/14 through 6/4/14
Personell: Matt O'Hare and Bradley Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-42 (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 clearing efforts should be made at the site going forward to ensure ease of access to all monitoring wells.
- The second quarter monitoring event was a 3-year event. WAC 173-351 Appendix III parameters were collected at wells MW-15R and MW-34C.
- The second quarter monitoring event was a semi-annual event. The wells MW-29A and MW-33A were sampled.
- The dissolved oxygen probe on the YSI flow meter was unable to be calibrated on 6/2/2014. Samples collected using that meter on that day were MW-13A, MW-13B, MW-16, and MW-35, and this data has been rejected. The meter was subsequently able to be calibrated for the remainder of the monitoring event.
- 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
6/2/2014	MW-36A	0614-01	DUP2 (0614-02)
6/2/2014	MW-43	0614-03	
6/2/2014	MW-23A	0614-04	
6/2/2014	MW-13B	0614-05	
6/2/2014	MW-13A	0614-06	
6/2/2014	MW-35	0614-07	

Sample Date	Location ID	Sample ID	Comments
6/2/2014	MW-16	0614-08	
6/3/2014	MW-29A	0614-09	
6/3/2014	MW-04	0614-10	
6/3/2014	MW-39	0614-11	
6/3/2014	MW-24	0614-12	
6/3/2014	MW-19C	0614-13	
6/3/2014	MW-15R	0614-14	
6/3/2014	MW-34C	0614-15	
6/3/2014	MW-33C	0614-16	
6/3/2014	MW-33A	0614-17	
6/4/2014	MW-42	0614-18	DUP1 (0614-19)
6/4/2014	MW-32	0614-20	
6/4/2014	MW-20	0614-21	
6/4/2014	MW-2B1	0614-22	
6/4/2014	MW-34A	0614-23	

OSL 2Q14 6/4/14

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-1	—	—	—	—	Lost - NM	69.04
MW-10	6/4/14		41.08	MO		NM
MW-11	6/4/14		5.12	MO		4.25
MW-12	6/3/14	1142	45.87	BB		NM
MW-13	6/4/14		29.97	MO		28.94
MW-13A	6/2/14	1409	58.27	MO		46.34
MW-13B	6/2/14	1500	59.90	MO		60.30
MW-14	--	--	--	--	Do Not Measure - Well Damaged	47.38
MW-15R	6/3/14	0908	18.76	MO		18.72
MW-16	6/2/14	11:20	57.33	MO		57.65
MW-17	6/3/14	1154	32.05	BB		NM
MW-18	6/3/14	1140	62.76	BB		NM
MW-19A	6/3/14	12:11	32.43	BB		32.58
MW-19B	6/3/14	12:12	32.49	BB		32.62
MW-19C	6/3/14	0838	33.65	BB		33.80
MW-19D	6/3/14	12:13	32.51	BB	Needs new lock	32.73
MW-20	6/4/14	1204	35.81	MO		35.91
MW-21	6/4/14		5.10	MO		5.35
MW-23A	6/3/14	12:33	12.02	BB		NM
MW-23B	6/3/14	12:34	12.36	BB		12.41
MW-23C	6/3/14	1235	12.47	BB		12.92
MW-24	6/3/14	0937	31.85	BB		21.74
MW-26	6/3/14	11:24	11.13	BB	Needs new lock	NM
MW-27	6/3/14	11:21	21.48	BB		21.74
MW-28	6/3/14	11:26	5.53	BB		NM
MW-29A	6/2/14	1400	13.67	BB		13.35
MW-29B	6/2/14	1358	17.22	BB		17.12
MW-29C	6/2/14	1355	11.92	BB		11.73

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW36A (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
060214	1231	: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: 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: ____ — 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): 31.18 (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 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)
1234	1st	6.30	1.26	11.8	0.7	3.4	94.0	31.1
1237	2nd	6.27	1.27	11.8	1.6	3.0	90.0	31.1
1240	3rd	6.26	1.27	11.8	1.3	2.9	90.0	31.2
1243	4th	6.27	1.27	11.7	0.7	2.7	87.0	31.1
1246		6.28	1.27	11.8	0.6	2.5	86.0	31.1
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
060214	6.28	1.27	11.8	0.6	2.5	86	1246

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: ON — Outlook: Clear — Precipitation: Y or (N)

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

Dup - 2 taken

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
6/2/14	Bradley Beach	[signature]	SCS Engineers
__/__/__			

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: 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 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
060214	1020	020			

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

Sampling Device: A

X-Other:

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

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	24.79 (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)
1040	1st	6.12	1st 045	106	48.3	9	540	24.8
1043	2nd	6.11	2nd 044	106	12.8	9	560	24.8
1046	3rd	6.11	3rd 044	107	3.3	9	590	24.8
1049	4th	6.11	4th 043	107	3.5	9	610	24.8
1052		6.11	043	106	1.9	9	620	24.8
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
060214	6.11	043	106	1.9	0.9	620	1052

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: Slightly off color — **Odor:** No — **Color:** light straw — **Other:** ____

Weather Conditions (required daily, or as conditions change): — **Direction/Speed:** 1 N — **Outlook:** Clear — **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
6/2/14	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: 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
060214	1130	0:10			

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

Sampling Device: A

X-Other:

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

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

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

WELL DATA

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

Depth to Water (DTW) (from TOC): 12.03 (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)
1140	1st	6.44	1154	13.9	13.4	3	620	12.0
1143	2nd	6.46	1155	14.0	14.0	3	660	11.9
1146	3rd	6.46	1155	14.1	8.4	2	680	12.0
1149	4th	6.47	1155	14.1	5.2	2	700	12.1
1152		6.47	1155	14.1	5.1	2	716	12.0
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
060214	6.47	1155	14.1	5.1	2	710	1152

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:** ON — **Outlook:** Clear — **Precipitation:** Y or (N)

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

FIELD COMMENTS

- Vault containing monitoring wells need to be cleared of blackberries.

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
6/2/14	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-11 3B (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
06 02 14	1440	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: ____

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)	59.88 (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)
1445	200	1st 7.13	1st 155	14.42	1.35	8.25	-87.5	59.93
1448	↓	2nd 7.07	2nd 156	14.44	1.01	8.35	-87.2	59.71
1451	↓	3rd 7.07	3rd 156	14.40	1.07	8.54	-87.6	59.96
1454		4th 7.29	4th 153	14.39	1.00	8.76	-96.4	59.90
1457		7.34	154	14.36	0.89	8.56	-97.8	59.90
1500		7.35	154	14.32	1.062	8.54	-98.0	59.90
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
06 02 14	7.35	154	14.32	0.62	8.54	-98.0	1500

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

Sample Appearance: Clear Odor: None Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: Light Outlook: Sun 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
6.2.14	Matt Olmo		SCS Engineers

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW-11 B/A (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06 02 14	13:49				

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:

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)
	58.29	

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)
13:54	250	1st 7.07	1st 1.58	11.34	0.62	8.79	-76.2	58.27
13:57		2nd 7.22	1.55	11.39	1.05	8.70	-77.8	58.27
14:00		3rd 7.26	1.55	11.31	1.12	(5.91)	-79.1	58.27
14:03		4th 7.26	1.54	11.19	0.97	8.86	-79.3	58.27
14:06		7.26	1.54	11.15	0.82	8.52	-79.9	58.27
14:09		7.26	1.54	11.15	0.81	8.48	-79.9	58.27
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
06 02 14	7.26	1.54	11.15	0.81	8.48	-79.9	1409

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: Light Outlook: Clear Precipitation: Y or (N)

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

FIELD COMMENTS

D.O. Calibration 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
6.2.14	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-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
06 02 14	12:26	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: 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: ____

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): 7.19 (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)
12:33	300	1st	7.21	1st	1139	1st	11.45	0.62	8.46	-61.0	7.82
12:36	1	2nd	7.19	2nd	1140	2nd	11.68	0.81	8.39	-59.4	7.79
12:39	↓	3rd	7.18	3rd	1141	3rd	11.75	0.53	8.39	-59.1	7.79
12:42		4th	7.18	4th	1140		11.78	0.91	8.40	-60.3	7.79
12:46			7.17		1140		11.79	0.82	8.38	-60.4	7.79
Suggested range for 3 consec. readings or more Permit/State requirements:			+/- 0.2		+/- 10%		+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
06 02 14	7.17	1140	11.79	0.82	8.38	-60.4	1246

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: Light Outlook: Clear Precipitation: Y or (N)

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

D.O. meter calibration failed

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
6.2.14	Matt Oldham	M Oldham	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-116 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
06 02 14	1100	0105			

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: ____

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) 57.30 (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)
1105	350 1st	6.31 1st	114 1st	9.94	4.90	9.33	-59.2	57.33
1108	2nd	6.54 2nd	101 2nd	9.69	1.20	9.05	-56.2	57.33
1111	3rd	6.63 3rd	096 3rd	9.63	1.03	9.02	-53.5	57.33
1114	4th	6.62 4th	094 4th	9.58	1.10	9.14	-48.7	57.33
1117		6.61	094	9.56	1.38	9.12	-48.3	57.33
1120		6.61	094	9.56	1.04	9.08	-48.1	57.33
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
06 02 14	6.61	094	9.56	1.04	9.08	-48.1	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.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other: ____

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

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

DO meter not calibrating - noted

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
6.2.14	Matt O'Hara		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: MW29A (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
06 03 14	1353	005			

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

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N
Filter Device: (Y) or N 0.45 µ or ____ µ (circle or fill in)
Purging Device: A
Sampling Device: A
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle
Filter Type: A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
X-Other:
Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)
Depth to Water (DTW) (from TOC) 136.7 (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)
1358	1st	6.32	0.086	9.7	61.5	1.7	600	136
1401	2nd	6.29	0.087	9.6	39.4	1.3	570	135
1404	3rd	6.27	0.090	9.6	13.9	.8	540	136
1407	4th	6.27	0.090	9.6	8.1	.6	520	136
1410		6.26	0.091	9.6	4.9	.4	510	136
1413		6.25	0.091	9.6	3.3	.4	500	136
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
06 03 14	6.25	0.091	9.6	3.3	0.4	500	1413

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:** 3 N **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
06/03/14	Bradley Beach	[signature]	SCS Engineers

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW04 (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
	1240	005			

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: ____ — 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): 1463 (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)
1248	1st	6.36	1st 1122	9.7	0.9	0.7	1100	146
1251	2nd	6.45	2nd 1122	9.6	0.8	0.5	1080	145
1254	3rd	6.50	3rd 1122	9.6	0.1	0.4	1070	146
1257	4th	6.53	4th 1122	9.6	3.7	0.4	1060	146
1300		6.56	1121	9.6	1.1	0.3	1060	146
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
060314	656	121	96	1.1	0.3	1060	1300

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: 3 N — 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
06/03/14	Bradley Beach	[signature]	SCS Engineers

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.:

Sample Point: MW39 (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
06 03 14	1037	105			

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: (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): 1988 (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)
1042	1st	6.18	1st 248	109	211	2.5	-120	202
1045	2nd	6.23	2nd 248	109	126	2.0	-140	202
1048	3rd	6.26	3rd 248	108	88	1.6	-150	203
1051	4th	6.29	4th 249	108	91	1.4	-150	202
1054		6.30	251	109	86	1.2	-140	202
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
06 03 14	6.30	251	109	86	1.2	-140	1054

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: S N 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
06/03/14	Bradley Beach	[signature]	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: 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
06 03 14	0939	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: (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): 318.5 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): (ft)
Stick Up (from ground elevation): (ft)
Casing ID: (in)
Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0942	1st	6.32	127	12.5	14.6	1.6	670	318
0945	2nd	6.34	121	12.3	8.4	1.6	590	317
0948	3rd	6.39	120	12.3	6.4	1.5	530	318
0951	4th	6.40	121	12.2	6.7	1.3	480	318
0954		6.43	120	12.3	6.6	1.2	430	317
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
06 03 14	6.43	120	12.3	6.6	1.2	430	0954

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: Particulates
Odor: None
Color: clear
Other:
Weather Conditions (required daily, or as conditions change): **Direction/Speed:** 6 N **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
06/03/14	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-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
06 03 14	0850	005			

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: ____ — 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): 33.65 (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 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)
0855	1st	6.38	1.138	11.6	4.5	2.8	340	33.6
0858	2nd	6.45	1.135	11.5	4.5	2.1	-110	33.7
0901	3rd	6.56	1.134	11.3	1.5	1.2	-270	33.7
0904	4th	6.61	1.133	11.3	3.4	1.0	-300	33.6
0907		6.67	1.133	11.2	2.7	.8	-330	33.6
Suggested range for 3 consec. readings or more Permit/State requirements:		+/- 0.2	+/- 10%	+/- 0.5°C	+/- 10% ≤ 5	+/- 0.2		Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Time / Units
06 03 14	6.67	1.133	11.2	2.7	.8	-330	0907

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: 12 N — 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
06/03/14	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-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
060314	0908	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 — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other:

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

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

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

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	18.76 (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)
0913	250	1st 5.72	1st 1.91	10.54	12.12	5.30	-24.6	18.76
0918		2nd 6.68	2nd 1.85	10.47	7.39	2.01	-65.7	18.76
0923		3rd 6.78	3rd 1.82	10.42	3.00	0.78	-75.2	18.76
0928		4th 6.78	4th 1.78	10.41	2.72	0.65	-78.7	18.76
0931		6.78	1.79	10.41	1.04	0.55	-79.8	18.76
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
060314	6.78	1.79	10.41	1.04	0.55	-79.8	0931

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):

App III Bottle set filled

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
6.3.14	Matt O'Hara		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-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
06/03/14	1100	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
Filter Device: (Y) or N; 0.45 µ or ____ µ (circle or fill in)
Purging Device: A
Sampling Device: A
A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle
Filter Type: A
A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____
X-Other:
Sample Tube Type:
A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)
Depth to Water (DTW) (from TOC) 41.32 (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)
1130	300	1st 6.77	1st 239	12.66	17.83	0.54	-106	41.32
1135	↓	2nd 6.76	2nd 239	12.67	18.24	0.55	-88.9	41.32
1140	↓	3rd 6.77	3rd 239	12.70	17.58	0.54	-93.2	41.32
1145	↓	4th 6.77	4th 239	12.70	17.17	0.55	-90.9	41.32
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
06/03/14	6.77	239	12.70	17.17	0.55	-90.9	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: Cloudy
Odor: Mod
Color: Tan
Other:
Weather Conditions (required daily, or as conditions change):
Direction/Speed: Light
Outlook: Overcast
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):
Turb >1000 when H_2O At surface. Extended 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
6.3.14	Matt O'Hara		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-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
06 03 14	14:40	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: 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): 23.2 (ft)

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

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
14:45	1st	6.74	143	10.55	0.18	6.18	-77.2	2.35
14:50	2nd	6.92	145	9.73	1.78	3.54	-92.1	2.32
14:55	3rd	7.36	145	9.62	2.48	1.39	-111.9	2.32
15:00	4th	7.63	144	9.59	1.88	0.50	-123.0	2.32
15:05		7.70	144	9.59	1.32	0.37	-124.0	2.32
15:10		7.71	144	9.59	1.66	0.36	-125.8	2.38
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
06 03 14	7.71	144	9.59	1.66	0.36	-125.8	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.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

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

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

MW-33B = 2.38

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
6/3/14	Matt Oliver		SCS Engineers

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Olympic View Sanitary Landfill

Site No.: | | | | |

Sample Point: MW-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 (e.g. 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
060314	0345	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: 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: ____

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): 7.00 (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 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)
1400	200 1st	7.37 1st	1.28 1st	9.51	57.3	1.82	-102.4	7.00
1405	2nd	7.34 2nd	1.27 2nd	9.51	58.1	0.92	-101.7	7.00
1410	3rd	7.31 3rd	1.28 3rd	9.45	60.4	0.68	-101.8	7.00
1415	4th	7.30 4th	1.27 4th	9.45	63.9	0.61	-101.9	7.00
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
060314	7.30	1.27	9.45	63.9	0.61	-101.9	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.*

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 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
6.3.14	Matt Olson		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-14R (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
06 04 14	08:12	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: 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) 27.81 (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)
08:17	250	1st 6.47	1st 525	11.58	6.82	0.78	-25	27.83
08:20		2nd 6.51	2nd 530	11.55	4.99	0.68	-32	27.82
08:23		3rd 6.53	3rd 529	11.53	3.00	0.57	-37	27.81
08:26		4th 6.56	4th 529	11.51	3.40	0.57	-41	27.81
08:29		6.57	529	11.52	3.46	0.57	-41	27.81
08:32		6.57	531	11.50	3.51	0.51	-44	27.81
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
06 04 14	6.57	571	11.50	3.51	0.51	-44	0832

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: Light, N Outlook: Overcast Precipitation: Y or (N)

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

FIELD COMMENTS

DUP-1 Taken @ 0835

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
6.4.14	Matt Dittmer	Matt Dittmer	SCS Engineers

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

TAL-8029WM (0108)

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name:

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
060414	13:20	00:15			

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: 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: — 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): 2.15 (ft)

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

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

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

Casing ID: ____ (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:25	200	1st	6.61	1st	240	12.45	13.78	3.46	71	2.20
13:28	↓	2nd	6.66	2nd	235	12.17	11.76	1.88	38	2.25
13:31	↓	3rd	6.68	3rd	233	12.14	10.99	1.68	30	2.25
13:34	↓	4th	6.69	4th	234	12.13	10.60	1.58	24	2.25
13:37			6.69		234	12.10	10.88	1.46	22	2.25
13:40			6.72		232	12.09	[illegible]	1.40	20	2.25
:							11.05			
:										
:										
:										
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 fileds 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 ____
060414	6.72	232	12.09	11.05	1.40	20	1340

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):

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
6.4.14	Matt O'Hare	[signature]	SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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
06 04 14	1204	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 | A-Submersible Pump | B-Peristaltic Pump | C-QED Bladder Pump | D-Bailer | E-Piston Pump | F-Dipper/Bottle

Sampling Device: A

X-Other:

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

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

WELL DATA

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

Depth to Water (DTW) (from TOC): 35.81 (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)
12:09		1st	6.67	1st	323	15.61	9.47	5.10	107	35.85
12:12		2nd	6.70	2nd	322	14.58	3.11	5.40	107	35.82
12:15		3rd	6.69	3rd	325	14.63	2.82	5.09	107	35.82
12:18		4th	6.68	4th	328	14.66	2.81	4.79	107	35.82
12:21			6.67		328	14.68	3.09	4.73	109	35.82
12:24			6.67		330	14.70	3.97	4.77	109	35.82
:										
:										
:										
:										
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 fileds 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 ___
06 04 14	6.67	330	14.70	3.97	4.77	109	1224

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):

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
6/4/14	Matt Olltan	[signature]	GCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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 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
060414	1108	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:

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)
	6.80	

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)
1113	400 1st	6.38 1st	133 1st	13.11	0.54	2.42	126	6.88
1118	2nd	6.48 2nd	138 2nd	12.91	1.28	1.70	115	6.88
[illegible]	3rd	3rd	3rd					[illegible]
[illegible]	4th	4th	4th					[illegible]
[illegible]								
1121		6.52	146	12.89	0.65	0.61	108	6.88
1125		6.55	144	12.82	0.67	0.66	106	6.85
1128		6.57	150	12.76	0.69	0.65	100	6.85
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 fileds 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: TMW Units
060414	6.57	150	12.76	0.69	0.63	100	1128

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):

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
6.4.14	M Watson	[signature]	SLS

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 (hr:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
060414 M	1008	0105			

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: ____ — 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): 39.52 (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)
1013	250	1st 6.02	1st 137	12.48	1.13	6.69	156	39.52
1016		2nd 6.06	2nd 134	12.43	0.97	6.55	155	39.52
1019		3rd 6.11	3rd 133	12.44	0.87	6.35	154	39.52
1022	V	4th 6.12	4th 133	12.44	0.95	6.33	156	39.52
1025		6.12	133	12.43	0.75	6.32	155	39.52
1028		6.12	133	12.43	1.07	6.31	155	39.52
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
060414	6.12	133	12.43	1.07	6.31	155	1028

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):

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
6/4/14	Mitton		SCS Engineers

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

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

September 25, 2014
File No. 04204027.17

Subject: **Third Quarter 2014 Ground Water Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 9/22/14 through 9/23/14
Personell: Matt O'Hare and Bradley Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-4 (DUP1) and MW-19C (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.
- Well MW-42 was also sampled for the 5-year WAC 173-351-990 Appendix III parameters. It was inadvertently missed during the June 5-year Appendix III sampling and will be included for future events.
- 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
9/22/14	MW-39	0914-01	
9/22/14	MW-16	0914-02	
9/22/14	MW-13B	0914-03	
9/22/14	MW-13A	0914-04	
9/22/14	MW-4	0914-05	
9/22/14	DUP-1	0914-06	Duplicate of MW-4
9/22/14	MW-35	0914-07	
9/22/14	MW-19C	0914-08	
9/22/14	DUP-2	0914-09	Duplicate of MW-19C
9/22/14	MW-24	0914-10	
9/22/14	MW-2B1	0914-11	
9/23/14	MW-23A	0914-12	
9/23/14	MW-33C	0914-13	
9/23/14	MW-42	0914-14	
9/23/14	MW-43	0914-15	

Sample Date	Location ID	Sample ID	Comments
9/23/14	MW-32	0914-16	
9/23/14	MW-34A	0914-17	
9/23/14	MW-34C	0914-18	
9/23/14	MW-20	0914-19	
9/23/14	MW-15R	0914-20	
9/23/14	MW-36A	0914-21	
9/29/2014	LP-LCD	0914-22	

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSL
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
09/22/14	1327	0:00:05			

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

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 Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, 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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	22.95	

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

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by 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)
1332	200	1st 6.23	2.51	13.48	186	—	-68	22.95
1337	1	2nd 6.30	2.51	13.58	227	—	-71	22.95
1342	1	3rd 6.30	2.50	13.40	219	—	-72	22.95
1347	1	4th 6.30	2.49	13.48	213	—	-72	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: Turb Units
09/22/14	6.30	2.49	13.48	213		-72	1347

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: Cloudy Precipitation: Y or (N)

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

D.O. meter Failure @ 1332

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
9/22/14	Matt Olson		SCS
___/___/___			

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

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: OUSC

Site No.:

Sample Point: MW-116 (Sample ID)

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

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 22 14	1216	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

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

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

Sampling Device: A

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): 60.00 (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	pH (std)	Conductance (SC/EC) (μmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	12:21	300	6.36	127	11.14	0.37	2.22	167	60.03
2nd	12:26	↓	6.39	125	10.85	0.97	2.22	171	60.00
3rd	12:31	↓	6.40	122	10.77	1.44	2.22	172	60.00
4th	12:36		6.40	122	10.73	1.22	2.25	172	60.00
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 ____
09 22 14	6.40	122	10.73	1.22	2.25	172	1236

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):

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
9.22.14	Matt O'Hara	[signature]	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-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
09 22 14	11:07	00:08			

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

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): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 60.90 (ft)

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

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

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

Casing ID: ____ (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (μmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:15	300	1st	6.93	1st	168	11.13	0.0	3.84	148	61.00
11:20	↓	2nd	7.65	2nd	167	10.97	0.0	3.93	142	
11:23	↓	3rd	7.66	3rd	167	11.01	0.0	3.90	134	60.93
11:27	↓	4th	7.68	4th	167	11.02	0.0	3.95	134	60.93
:										
:										
:										
:										
:										
:										
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
09 22 14	7.68	167	11.02	0.0	3.95	134	11:27

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: N, ~10 Outlook: Drizzle 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
9/22/14	Matt O'Hare	[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
09 22 14	10:20	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

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

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

Sampling Device: A

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)
	47.50	

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:25	300	1st 7.05	1st 170	11.14	0.0	4.43	109	47.50
10:30	↓	2nd 7.26	2nd 167	10.78	0.0	4.08	113	
10:33	↓	3rd 7.27	3rd 167	10.66	0.0	3.90	115	47.50
10:36	↓	4th 7.27	4th 167	10.63	0.0	3.77	118	
10:40		7.26	166	10.58	0.0	3.81	119	47.50
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) 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
09 22 14	7.26	166	10.58	0.0	3.81	119	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.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: None — Other:

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

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

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

Date	Name	Signature	Company
9/22/14	Matt O'Hare		SCS Engineers

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: MW-4 OVSC

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
09 22 14	1422	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

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): ______ (ft/msl)

Depth to Water (DTW) (from TOC): 16.16 (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)
14:27	250	1st 6.69	1st 135	11.11	1.45	1.52	62	16.16
14:32	↓	2nd 6.71	2nd 135	10.88	2.06	0.64	71	16.16
14:37	↓	3rd 6.72	3rd 135	10.86	1.97	0.59	72	16.16
14:42		4th 6.71	4th 135	10.82	0.75	0.58	73	16.16
:								
:								
:								
:								
:								
:								
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 ____
09 22 14	6.71	135	10.82	0.75	0.58	73	1442

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

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):

DUP-1 taken @ 1450

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
9/22/14	Matt OHearne	[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-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
092214	1025	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): 72.95 (ft)

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

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

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

Casing ID: _____ (in)

Casing Material: _____

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1030		1st 6.35	1st 164	141	2.88	9.27	126.3	72.94
1033		2nd 6.28	2nd 163	138	2.80	9.08	119.8	72.94
1036		3rd 6.41	3rd 163	135	1.29	8.97	112.7	72.95
1039		4th 6.52	4th 162	132	1.99	8.95	110.3	72.94
1042		6.57	162	134	1.59	8.81	109.4	72.95
1045		6.62	161	137	2.69	8.65	109.2	72.94
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 Time
092214	662	161	137	2.69	8.65	109.2	1045

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: 7 N 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
09/22/14	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-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
09/22/14	1145	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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	35.52	

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1150		1st 5.89	1st 159	11.6	3.93	3.02	116.7	35.51
1153		2nd 5.62	2nd 160	11.5	3.88	2.10	135.2	35.50
1156		3rd 5.78	3rd 159	11.4	6.61	1.72	130.9	35.52
1159		4th 6.03	4th 159	11.4	3.03	1.29	119.9	35.52
1202		6.06	159	11.5	3.30	1.25	118.9	35.51
1205		6.10	159	11.4	2.85	1.19	117.4	35.52
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
09/22/14	6.10	159	11.4	2.85	1.19	117.4	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: Particulates/clear — Odor: None — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 3 N — Outlook: Partly Cloudy — Precipitation: Y or (N)

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

Dup 2 taken

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
09/22/14	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-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
092214	1310	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): 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)
1st	1315		5.64	132	13.3	11.59	1.06	120	34.14
2nd	1318		5.62	132	13.4	8.53	0.94	123	34.13
3rd	1321		5.62	132	13.3	9.22	0.82	124	34.13
4th	1324		5.65	132	13.2	8.84	0.78	124	34.13
	1327		5.67	132	13.1	7.78	0.72	123	34.12
	1330		5.70	133	13.0	8.58	0.72	122	34.13
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
092214	5.70	133	13.0	8.58	0.72	122	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.*

FIELD COMMENTS

Sample Appearance: Particulate/Clear Odor: None Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 4 N 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
09/22/14	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-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 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
092214	1415	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)
	8.35	

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		1st 6.08	1st 238	14.1	6.32	1.31	162.1	8.34
1423		2nd 5.77	2nd 231	14.1	5.02	0.57	170.8	8.34
1426		3rd 5.76	3rd 226	14.2	3.23	0.43	168.7	8.35
1429		4th 5.77	4th 223	14.2	3.96	0.36	166.2	8.34
1432		5.79	220	14.1	3.20	0.35	163.4	8.35
1435		5.82	215	14.2	3.78	0.29	155.3	8.34
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
092214	5.82	215	14.2	3.78	0.29	155.3	1435

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: 3 N 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
09/22/14	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-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
092314	1245	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

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: 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)
	32.15	

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)
1250		1st	5.73	1st	139		9.8	9.49	3.50	138.4	32.17
1253		2nd	5.61	2nd	136		9.8	8.85	2.61	155.9	32.18
1256		3rd	5.61	3rd	136		9.7	7.71	2.47	157.5	32.17
1259		4th	5.63	4th	136		9.8	4.82	2.46	158.5	32.17
1302			5.66		136		9.7	5.28	2.43	158.4	32.17
1305			5.70		136		9.7	3.91	2.45	158.1	32.18
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
092314	5.70	136	9.7	3.91	2.45	158.1	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: N Outlook: Rain Precipitation: (Y) or N

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

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

Date	Name	Signature	Company
09/23/14	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-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
09 23 14	1200	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): 19.71 (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)
1205	1st	6.07	183	10.5	3.64	0.83	125.4	19.75
1208	2nd	6.08	182	10.4	2.18	0.81	124.7	19.74
1211	3rd	6.10	182	10.5	1.49	0.70	123.3	19.74
1214	4th	6.12	182	10.5	0.52	0.63	121.8	19.75
1217		6.17	182	10.5	1.81	0.58	119.8	19.74
1220		6.19	182	10.5	3.42	0.53	118.6	19.75
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
09 23 14	6.19	182	10.5	3.42	0.53	118.6	1220

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: 2 N — Outlook: Rain — Precipitation: (Y) or N

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

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

Date	Name	Signature	Company
09/23/14	Brad Ley Beach		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-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
09 23 14	10:35	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

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: 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): 37.48 (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)
1040		1st 6.46	1st 451	14.9	8.04	3.16	916	37.79
1043		2nd 6.43	2nd 455	15.0	3.77	2.47	932	37.80
1046		3rd 6.40	3rd 453	15.0	2.91	1.97	963	37.79
1049		4th 6.38	4th 452	15.0	3.09	1.71	992	37.79
1052		6.38	450	15.0	4.09	1.55	1018	37.80
1055		6.37	447	15.1	3.05	1.33	1043	37.80
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
09 23 14	6.37	447	15.1	3.05	1.33	1043	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: Particulates Odor: None Color: Clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 1 N Outlook: Raining 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
09/23/14	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-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
09 23 14	0920	00:30			

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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	42.69	

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 6.39	1st 256	13.0	225.6	0.94	110.4	42.71
0953		2nd 6.14	2nd 256	13.0	223.2	0.60	102.7	42.72
0956		3rd 6.15	3rd 256	13.0	227.4	0.64	97.4	42.71
0959		4th 6.21	4th 256	13.0	235.3	0.60	89.2	42.71
1002		6.27	256	13.0	238.3	0.53	81.1	42.70
1005		6.30	256	13.0	244.7	0.56	77.3	42.71
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
09 23 14	6.30	256	13.0	244.7	0.56	77.3	1005

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: Orange Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 2 N Outlook: Rain Precipitation: (Y) or N

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

FIELD COMMENTS

0920 Turbidity-331.2 / 0930 Turbidity-281.7 / 0940 Turbidity-246.8 / 0945 Turbidity-228.6
0950 Turbidity-225.6

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
09/23/14	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-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
092314	0825	00:10			

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: 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)
	40.87	

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)
0835		1st 5.13	1st 1.49	12.2	3.13	5.25	254.4	40.91
0838		2nd 5.08	2nd 1.46	12.4	0.92	5.23	254.1	40.89
0841		3rd 5.17	3rd 1.45	12.3	4.83	5.29	249.1	40.88
0844		4th 5.26	4th 1.45	12.3	2.78	5.36	245.4	40.89
0847		5.35	1.44	12.3	3.08	5.53	242.3	40.89
0850		5.41	1.44	12.4	3.22	5.55	240.4	40.88
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
092314	5.41	1.44	12.4	3.22	5.55	240.4	0850

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: 1 N Outlook: Clouds/light 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
09/23/14	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-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
09 23 14	0822	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
Sampling Device: A
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: 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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	3.15	

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)
0827	350	1st 6.78	1st 356	13.40	3.51	0.78	-7	4.72
0832	↓	2nd 6.84	2nd 349	13.36	2.78	0.68	-33	4.51
0837		3rd 6.83	3rd 348	13.33	1.43	0.68	-38	4.50
0842		4th 6.84	4th 348	13.33	1.78	0.69	-38	4.50
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
09 23 14	6.84	348	13.33	1.78	0.69	-38	0842

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: Mod Outlook: Rain **Precipitation:** (Y) or N

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

Well monument lid needs re-welding

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
9/23/14	Mark O'Hare		SES

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
09 23 14	09:42	:			

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)
	26.71	

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)
0952	200	1st 5.84	1st 45	11.88	27.3	0.51	182	26.75
0957	1	2nd 5.87	2nd 45	11.81	4.88	0.47	191	26.75
1000		3rd 5.84	3rd 45	11.83	3.97	0.45	192	26.75
1003	V	4th 5.84	4th 45	11.83	4.00	0.43	193	26.75
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: Turb Units
09 23 14	5.84	45	11.83	4.00	0.43	193	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: 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 do to high turbidity - orange color

Well 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
9/23/14	Matt O'Hare		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

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
09/23/14	1950	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): 29.20 (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)
1055	250	1st 6.56	1st 493	13.69	6.00	6.88	-61	29.35
1100	↓	2nd 6.57	2nd 502	13.65	2.08	0.47	-68	29.21
1105		3rd 6.57	3rd 503	13.67	1.96	0.49	-68	29.20
1110		4th 6.56	4th 503	13.67	0.77	0.50	-68	29.20
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: Turbidity Units
09/23/14	6.56	503	13.67	0.77	0.50	-68	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.*

FIELD COMMENTS

Sample Appearance: Clear Odor: Clear 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):

APP III taken

Bubbles in air stream due to tubing connection

Well 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
9/23/14	Matt O'Hare		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
09 23 14	1319	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

X-Other:

Filter Type: A (A-In-line Disposable, B-Pressure, C-Vacuum, 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): 402 (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)
1319	350	1st 7.25	1st 155	1st 11.76	1st 12.6	1st 0.97	24	4.00
1329	1	2nd 7.28	2nd 155	2nd 11.76	2nd 12.0	1.03	24	4.00
1334	1	3rd 7.32	3rd 156	3rd 11.75	3rd 11.9	1.01	23	4.00
1339	1	4th 7.34	4th 155	4th 11.70	12.1	1.01	18	4.00
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: Turb Units
09 23 14	7.34	155	11.70	12.1	1.01	18	1339

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): _____

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
9/23/14	Matt Ohme		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL MW-23A

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
09/23/14	1440	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): Dry @ 1400 (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)
1445	200	1st 6.45	1st 197	14.63	76.9	0.81	53	—
1450		2nd 6.43	2nd 197	14.52	42.0	1.03	59	—
1455		3rd 6.43	3rd 197	14.51	10.2	0.92	59	—
1500	V	4th 6.43	4th 197	14.51	36.69	0.91	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
09/23/14	6.43	197	14.51	3.69	0.91	60	1500

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

FIELD COMMENTS

Sample Appearance: Clear Odor: None 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):

Dry @ 14 ft, Blocked? Able to pull water w/ low flow.

Overgrown Necessary, Brambles completely covering location. Walking Trapping Hazard

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
9/23/14	Matt O'Hare		SCS
___/___/___			

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

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-10	9/23/M		5.69	MO		NM
MW-11	↓		6.73	↓		4.25
MW-12			49.58			NM
MW-13			29.99			28.94
MW-13A			47.50			46.34
MW-13B			60.91			60.30
MW-15R			19.71			18.72
MW-16			60.00	~~60.00~~		57.65
MW-17			35.05			NM
MW-18			65.50			NM
MW-19A			34.27			32.58
MW-19B			36.38			32.62
MW-19C			35.55			33.80
MW-19D			34.25			32.73
MW-20			37.48			35.91
MW-21			6.92			5.35
MW-23A			14.00		DRY@ 14.00 (Top of Pump)	NM
MW-23B			14.41			12.41
MW-23C			14.97			12.92
MW-24			34.11			21.74
MW-26			13.07			NM
MW-27			23.78			21.74
MW-28			6.88			NM
MW-29A			16.21			13.35
MW-29B			18.95			17.12
MW-29C			13.75			11.73

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: SO3702 Sample Point: LP-LCD

20140929-OVSL-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).

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
09/29/14	1100				

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

PURGE/SAMPLE EQUIPMENT

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

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

Purging Device: _____

Sampling Device: F

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

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

X-Other: _____

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

WELL DATA

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

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

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

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	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: _____ Units _____
09/29/14	7.15	3541	17.96	1.47	6.83	279	

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/clean Odor: Slight Color: Straw Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 1 S Outlook: Raining 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
09/29/14	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.: 50702 Sample Point: LCHIN

20140929-OVSL-LCHIN

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
092914	1130				

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: _____

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)

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	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____

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):

No Water in the influent of BW Toe.

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
09/29/14	Bradley Beach		SCS-FS

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

Environmental Consultants
and Contractors

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Bellevue, WA 98005-1877

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FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

November 21, 2014
File No. 04204027.17

Subject: **Fourth Quarter 2014 Ground Water Monitoring Event**
Olympic View Sanitary Landfill, Kitsap County, Washington

Sampling Event Dates: 11/17/14 through 11/20/14
Personell: Matt O'Hare and Bradley Beach

NOTES/SAMPLING DECODING:

- Dedicated pumps were used for purging and sampling all wells.
- Duplicate samples were collected at MW-20 (DUP1) and MW-32 (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 were made at the site to ensure ease of access to all monitoring wells. 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
11/17/2014	MW-35	1114-01	
11/17/2014	MW-13A	1114-02	
11/17/2014	MW-13B	1114-03	
11/18/2014	MW-16	1114-04	
11/18/2014	MW-39	1114-05	
11/18/2014	MW-23A	1114-06	
11/18/2014	MW-43	1114-07	
11/18/2014	MW-29A	1114-08	
11/18/2014	MW-42	1114-09	
11/19/2014	MW-36A	1114-10	
11/19/2014	MW-15R	1114-11	
11/19/2014	MW-33C	1114-12	
11/19/2014	MW-33A	1114-13	
11/19/2014	MW-34A	1114-14	
11/19/2014	MW-34C	1114-15	
11/20/2014	MW-2B1	1114-16	
11/20/2014	MW-20	1114-17	
11/20/2014	MW-20	1114-18	Field Duplicate DUP1
11/20/2014	MW-24	1114-19	

Sample Date	Location ID	Sample ID	Comments
11/20/2014	MW-19C	1114-20	
11/20/2014	MW-4	1114-21	
11/20/2014	MW-32	1114-22	
11/20/2014	MW-32	1114-23	Field Duplicate DUP2
12/9/2014	LP-LCD	1114-24	Lechate Pond
12/9/2014	L-INF	1114-25	Leachate Influent

4Q14

SCS ENGINEERS

Olympic View Sanitary Landfill

Well	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-10			4.97	MO		NM
MW-11			5.10	MO		4.25
MW-12			67.03	BB		NM
MW-13			49.40	BB		28.94
MW-13A			58.43	MO		46.34
MW-13B			61.70	MO		60.30
MW-15R			19.30	MO		18.72
MW-16			61.07	MO		57.65
MW-17			35.61	BB		NM
MW-18			51.12	BB		NM
MW-19A			33.62	MO		32.58
MW-19B			35.74	MO		32.62
MW-19C			34.94	MO		33.80
MW-19D			33.64	MO		32.73
MW-20			36.92	MO		35.91
MW-21			7.00	MO		5.35
MW-23A			13.62	MO		NM
MW-23B			14.00	MO		12.41
MW-23C			14.52	MO		12.92
MW-24			34.25	MO		21.74
MW-26			13.62	BB		NM
MW-27			24.34	BB		21.74
MW-28			6.81	BB		NM
MW-29A			NM	MO	low conductivity	13.35
MW-29B			18.90	MO		17.12
MW-29C			13.74	MO		11.73

SCS ENGINEERS

OVSL

	Date	Time	DTW	Measured by (initials)	Comments	Last Quarter DTW
MW-2A1	11/18/14		8.94	BB		9.12
MW-2B1			7.79	BB		6.72
MW-30A			24.75	MO		24.00
MW-30B			24.59	MO		23.88
MW-31			2.63	MO		NM
MW-32			1.76	BB		1.50
MW-33A			8.62	MO		5.62
MW-33B			2.52	MO		2.13
MW-33C			2.50	MO		2.17
MW-34A			40.28	MO		39.5
MW-34B			40.04	MO		39.41
MW-34C			42.10	MO		41.21
MW-35			72.87	MO		72.07
MW-36			31.79	BB		31.14
MW-36A			31.73	BB		31.00
MW-37			4.53	MO		NM
MW-38			4.83	MO		3.67
MW-39			19.13	MO		21.34
MW-4			15.65	BB		14.95
MW-40A			16.71	MO		15.51
MW-40B			16.66	MO		15.44
MW-40C			17.29	MO		15.84
MW-41A			26.43	BB		24.18
MW-41B			26.92	BB		24.64
MW-41C			28.24	BB		26.16
MW-42			28.33	MO		27.85
MW-43			NM	MO	Low Conductivity	25.16
MW-5			3.60	MO		2.57
MW-9			3.50	MO		NM

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
11/17/14	1036				

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: B — 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)	72.87 (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)
1235	220	1st 7.51	1st 160	10.4	3	1.22	114.6	72.89
1240	↓	2nd 7.49	2nd 160	10.4	3	1.23	114.7	72.87
1245	↓	3rd 7.48	3rd 160	10.4	2	1.34	115.1	72.87
1250	↓	4th 7.48	4th 160	10.4	2	1.30	115.1	72.87
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: None Units
11/17/14	7.48	160	10.4	2	1.30	115.1	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.*

Sample Appearance: 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

On initial Purge, Pump Compressor and Controller malfunctioned. purge restarted on 11/17/14 @ 1230

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
11/17/14	M&T O'Hare		SES

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-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 17 14	1320				

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

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N — Y

Filter Device: Y or N — Y; 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): (ft/msl)

Depth to Water (DTW) (from TOC): 58.43 (ft)

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

Total Well Depth (from TOC): (ft)

Stick Up (from ground elevation): (ft)

Casing ID: (in)

Casing Material:

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (μmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
13:25	300	1st 6.91	1st 172	9.4	1.	6.16	147.8	58.43
13:28	↓	2nd 6.95	2nd 172	9.4	2.	6.20	148.2	58.43
13:31	↓	3rd 6.96	3rd 172	9.4	1.	6.21	148.6	58.43
13:34	↓	4th 6.96	4th 172	9.4	1.	6.27	148.6	58.43
13:37		6.98	172	9.4	2.	6.19	149.2	58.43
13:40		6.99	172	9.4	1.	6.17	149.1	58.43
:								
:								
:								
:								
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 17 14	6.99	172	9.4	1	6.17	149.1	1340

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):

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
11/17/14	Matt O'Hare	[signature]	SCS
/ /			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSC

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
11/17/14	1436				

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)
	61.70	

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)
~~14:30~~		6.70 (1st)				8.72	161.8	61.70
14:35		6.70 (2nd)	173	9.5	4	8.11	161.2	61.70
14:40		6.81 (3rd)	173	9.5	4	7.82	160.4	61.70
14:45		6.93 (4th)	172	9.4	5	7.40	160.6	61.70
14:50		6.99	172	9.4	4	7.34	160.3	61.70
14:55		7.04	172	9.4	4	7.32	161.3	61.70
15:00		7.08	172	9.4	4			

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: None Units	
11/17/14	7.08	172	9.4	4	7.32	161.3		1500

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

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):

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
11/17/14	Mr M O'Hara	[signature]	SCS

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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 18 14	0839	0013			

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): 61.07 (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)
0851	250	1st 6.44	1st 127	8.9	1	6.08	174.4	61.07
0854	↓	2nd 6.42	2nd 127	8.9	2	5.14	175.0	61.07
0857	↓	3rd 6.40	3rd 127	8.9	1	5.11	175.6	61.07
0900	↓	4th 6.39	4th 126	8.9	1	5.16	176.0	61.07
0903		6.39	126	8.9	1	5.24	176.4	61.07
0906		6.38	126	8.9	2	5.21	176.7	61.07
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: Turb Units
11 18 14	6.38	126	8.9	2	5.21	176.7	0906

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: Clear Precipitation: Y or (N)

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

Water to surface @ 0846

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
11/18/14	Matt O'Hara	[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-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
11/18/14	0945	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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	19.13	

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	350	1st 5.95	1st 205	17	5	4.79	356	20.04
0955	↓	2nd 5.97	2nd 210	17	3	4.69	331	20.00
1000		3rd 5.98	3rd 212	17	2	4.63	334	20.02
1005		4th 5.98	4th 213	17	2	4.58	369	20.02
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: Turb Units
11/18/14	5.98	213	17	2	4.58	369	1005

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: Clear 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
11/18/14	MATT O'Hara		SCS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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 18 14	1125	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): 13.62 (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 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)
1130	1st	6.26	207	13.2	4	0.97	93.2	13.71
1135	2nd	6.26	207	13.2	3	0.88	93.3	13.68
1140	3rd	6.26	207	13.2	3	0.83	93.8	13.68
1145	4th	6.26	207	13.2	2	0.83	93.3	13.68
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: ____ Units
11 18 14	6.26	207	13.2	2	0.83	93.3	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: 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):

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
11,15,14	M. O'Hara		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-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 18 14	1245	0240			

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)

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)
1300	1st	5.61	59	12.2	29	2.48	147.1	T
1305	2nd	5.60	59	12.2	7	2.41	148.2	T
1310	3rd	5.59	59	12.2	5	2.41	146.7	T
1315	4th	5.61	59	12.1	4	2.43	146.6	+
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: None Units
11 18 14	5.61	59	12.1	4	2.43	146.6	1315

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 ~~Orange~~ 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):

unable to determine water level due to low conductivity

Water bright orange ~~during~~ purge. 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
11/18/14	Matt O'Hara		SLS
___/___/___			

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

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 18 14	1342	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

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: A — 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)
1347	250	1st 6.03	1st 94	11.3	9	0.38	80.0	+
1352	1	2nd 6.02	2nd 94	11.3	6	0.40	79.9	+
1357	↓	3rd 6.03	3rd 94	11.3	3	0.39	79.7	+
1402	↓	4th 6.03	4th 94	11.3	3	0.39	79.4	+
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: none Units
11 18 14	6.03	94	11.3	3	0.39	79.4	1402

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: Clear Precipitation: Y or (N)

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

FIELD COMMENTS

Unable to determine water level due to low conductivity

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
11/18/14	Matt Ann	[signature]	SES

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-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 18 14	14:35	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): 28.33 (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)
14:40	200 1st	6.40 1st	574	12.1	97	0.40	93	28.35
14:45	2nd	6.40 2nd	574	12.2	35	0.36	85	28.33
14:50	3rd	6.41 3rd	574	12.2	24	0.37	77	28.33
14:55	4th	6.41 4th	573	12.2	24	0.38	69	28.33
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 18 14	6.41	573	12.2	24	0.38	69	1455

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: 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
11/18/14	Matt O'Hare	[signature]	SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OUSA

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
11/19/14	14:59	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): 31.72 (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 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)
14:54	350	1st 5.86	1st 119	9.38	2	2.57	323	31.75
14:59	↓	2nd 5.88	2nd 120	9.36	1	2.00	327	31.75
15:04		3rd 5.88	3rd 120	9.36	2	2.00	328	31.75
15:09		4th 5.88	4th 120	9.37	1	2.01	328	31.75
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
11/19/14	5.88	120	9.37	1	2.01	328	1509

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: 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
11/19/14	Matt O'Hare		SES
/ /			

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
11/19/14	14:02	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): 19.30 (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)
1st	14:07	400	6.31	172	10.19	7	1.68	311	19.30
2nd	14:12	↓	6.31	173	10.22	4	0.84	307	19.30
3rd	14:17	↓	6.31	171	10.22	3	0.80	304	19.30
4th	14:22	↓	6.31	171	10.22	2	0.78	303	19.30
	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 ____
11/19/14	6.31	171	10.22	2	0.78	305	1422

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: 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
11.19.14	Matt O'Hara		SES

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
11/19/14	1251	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): 250 (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)
1256	350	1st 6.39	1st 147	9.08	1	0.54	130	2.97
1301	↓	2nd 7.00	2nd 148	9.07	1	0.30	77	3.04
1306	↓	3rd 7.07	3rd 148	9.08	2	0.29	72	3.00
1311	↓	4th 7.11	4th 148	9.07	1	0.28	70	3.00
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: Turb Units
11/19/14	7.11	148	9.07	1	0.28	70	1311

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: 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
11/19/14	Matt O'Hare		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-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 19 14	1206	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

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

X-Other:

Filter Device: N 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): 8.62 (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 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)
1221	300	1st 5.64	1st 70	10.61	577	0.50	221	9.14
1226	1	2nd 5.64	2nd 73	10.16	40	0.46	208	9.22
1231	↓	3rd 5.64	3rd 75	10.09	38	0.43	204	9.22
1236		4th 5.65	4th 76	10.06	44	0.42	202	9.22
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 19 14	5.65	76	10.06	44	0.42	202	1236

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: Overcast 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
11/19/14	Matt O'Hare		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-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
11/19/14	1025	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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	40.28	

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)
1030	350 1st	5.62 1st	168 1st	11.84	3	1.22	329	40.28
1035	2nd	5.62 2nd	165 2nd	11.88	3	1.45	330	40.28
1040	3rd	5.62 3rd	165 3rd	11.88	3	1.53	333	40.28
1045	4th	5.62 4th	165 4th	11.85	3	1.54	334	40.28
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: Turb Units	
11/19/14	5.62	165	11.85	3	1.54	334		1045

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: 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
11/19/14	[illegible]	[illegible]	SCS

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

FIELD INFORMATION FORM

WM WASTE MANAGEMENT

Site Name: OUSL

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 19 14	0907	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

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:37	900	1st 6.20	1st 231	12.70	628	0.51	179	42.10
09:47	↓	2nd 6.20	2nd 230	12.74	266	0.43	183	42.10
09:57		3rd 6.22	3rd 231	12.80	106	0.40	183	42.10
10:00		4th 6.22	4th 232	12.84	78	0.39	183	42.10
10:03		6.22	232	12.85	84	0.38	183	42.10
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 19 14	6.22	232	12.85	84	0.38	183	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: 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):

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
11/19/14	Matt O'Hare	[signature]	SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name:

Site No.:

Sample Point: MW-7B1 (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
11/20/14	0952	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) (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)
0957	400	1st 5.87	1st 80	13.12	1	2.95	336	
1002	↓	2nd 5.85	2nd 78	13.14	2	2.24	330	
1007		3rd 5.86	3rd 78	13.14	3	2.23	329	
1012	↓	4th 5.86	4th 78	13.14	2	2.20	329	
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: Turb Units
11/20/14	5.86	78	13.14	2	2.20	329	1012

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

Unable to determine water level due to low Conductivity

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
11/20/14	McHOffice		SCS

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

TAL-8029WM (1013)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: GUSA

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
11/20/14	0850	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) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	36.92	

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)
0855	375	6.32 (1st)	250	14.70	3	1.18	325	36.92
0900	↓	6.28 (2nd)	247	14.76	2	0.87	323	36.92
0905		6.33 (3rd)	246	14.74	2	0.85	324	36.92
0910		6.33 (4th)	246	14.76	2	0.84	322	36.92
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
11/20/14	6.33	246	14.76	2	0.84	322	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.*

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

Dup. 1 taken here @ 0920

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
11/20/14	Matt Dalton		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-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
11/20/14	1036	60:15			

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)
	34.25	

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)
1051	200	1st 6.05	1st 135	11.82	26	0.55	331	34.25
1056	↓	2nd 6.05	2nd 135	11.80	28	0.41	330	34.25
1101	↓	3rd 6.05	3rd 136	11.80	26	0.41	330	34.25
1106		4th 6.05	4th 135	11.80	25	0.41	330	34.25
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
11/20/14	6.05	135	11.80	25	0.41	330	1106

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

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
11/20/14	Matt O'Hara		SCS

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

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSC

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 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
11/20/14	1142	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 (0) 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)
	34.94	

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)
1147	575	1st 6.58	1st 147	10.34	1	0.52	185	35.00
1152	1	2nd 6.58	2nd 147	10.35	2	0.49	184	34.99
1157	1	3rd 6.58	3rd 147	10.35	2	0.47	184	34.95
1202	1	4th 6.58	4th 147	10.35	1	0.47	183	34.94
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
11/20/14	6.58	147	10.35	1	0.47	183	1202

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: Den 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):

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
11/20/14	Matt Ohm		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-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
11/20/14	09:14	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 — 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)	15.65 (ft)	(ft/msl)

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

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

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:19	1st	5.63	1st 095	10.1	7.0	0.59	212.8	15.65
09:24	2nd	5.69	2nd 095	10.1	6.56	0.47	214.5	15.67
09:29	3rd	5.70	3rd 095	10.1	4.09	0.40	216.5	15.66
09:34	4th	5.72	4th 095	10.1	3.87	0.36	217.4	15.67
09:39		5.73	095	10.1	2.70	0.33	217.6	15.67
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 Time
11/20/14	5.73	095	10.1	2.70	0.33	217.6	09:39

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: 12 S Outlook: clouds/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
11/20/14	Bradley Beach		SLS-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-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
11/20/14	10:59	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): 11.76 (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)
11:04	1st	5.84	1st 308	12.3	8.34	1.83	130.4	1.76
11:09	2nd	6.21	2nd 307	12.4	6.77	0.46	74.8	1.78
11:14	3rd	6.30	3rd 308	12.4	2.47	0.36	60.2	1.77
11:19	4th	6.33	4th 309	12.4	2.55	0.36	54.5	1.77
11:24		6.35	309	12.4	2.17	0.32	47.9	1.78
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
11/20/14	6.35	309	12.4	2.17	0.32	47.9	Time 1124

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: 12 S Outlook: Clouds/Rain Precipitation: (Y) or N

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

FIELD COMMENTS

* Dup Taken

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
11/20/14	Bradley Beach		SCS-FS
__/__/__			

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

APPENDIX B

FOURTH QUARTER 2014 DATA VALIDATION AND ANALYTICAL DATA REPORTS

(ANALYTICAL DATA REPORTS AVAILABLE ON CD)

DATA VALIDATION REPORT – OLYMPIC VIEW SANITARY LANDFILL

Project Details

Project No.	04204027.17	**Site Name**	Olympic View Sanitary Landfill
Data Validator	Matt O'Hare	**Data Level**	Level II
Date	2/13/15	**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)
280-62647	No comments.	TestAmerica, Denver CO
280-62688	No comments.	TestAmerica, Denver CO
280-62813	COC for MW-33A, MW-34C and MW-34A was delayed, Nitrate analysis preformed outside of hold time. See case narrative.	TestAmerica, Denver CO
280-62814	No comments.	TestAmerica, Denver CO
280-63441	N/A	Analytical Resources Inc.

Analytical Summary

Sample Group	Analyses						
	Inorganics	Metals**	VOCs	SVOCs	Pest/PCBs	Herbs	S-/CN-
280-62647	x	x	x	--	--	--	--
280-62688	x	x	x	--	--	--	--
280-62813	x	x	x	x	x	x	x
280-62814	x	x	x	--	--	--	--
280-63441	--	As Only	--	--	--	--	--

Laboratory Quality Assurance Samples

Lab QA Samples	Notes	Comments
Surrogates	See case narrative.	
MB	See case narrative.	
DUP	See case narrative.	Sulfate; 280-62688. See case narrative.
LCS/LCSD	See case narrative.	280-62647 (Ammonia outside RPD control limits), 280-62688 (Vinyl Chloride outside recovery control limits) 280-62813 (p-Chlorotoluene and p-Cymene outside recovery control limits) 280-62814 (Methyl acetate and Vinyl acetate outside recovery control limits). See case narrative.
MS/MSD	See case narrative.	Tetrachloroethene; 280-62647, 280-62688, Ammonia; 280-62647. Dissolved zinc; 280-62647. 1,1-Dichloroethene; 280-62688, 280-62813. Trans-1,2-Dichloroethene; 280-62688. Trichloroethene; 280-62688. Total Iron; 280-62688. Dissolved Manganese; 280-62688, 280-62813, 280-62814. Total Manganese; 280-62688, 280-62814. 1,2,4-Trimethylbenzene; 280-62813. Ethylbenzene; 280-62813. Dissolved Potassium; 280-62813. M-Xylene and p-xylene; 280-62814. See case narrative.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Trip Blank	280-62688	Acetone	Common Laboratory contaminate. See case narrative.

Detailed Field Replicate Evaluation

Analyte	Units	MW-20	MW-20 DUP	RPD	MW-32	MW-32 DUP	RPD
Alkalinity, Bicarbonate (As CaCO3)	mg/L	100	99	1	130	130	0
Alkalinity, Total (As CaCO3)	mg/L	100	99	1	130	130	0
Ammonia (As N)	mg/L	0.031	0.038	20	*	0.033	N/A
Arsenic, Dissolved	mg/l	0.0002	0.0002	0	0.0092	0.0092	0
Arsenic, Total	mg/l	0.0002	0.0002	0	0.0092	0.0092	0
Barium, Dissolved	mg/L	0.0063	0.0064	2	0.0060	0.0061	2
Barium, Total	mg/L	0.0057	0.0061	7	0.0059	0.0049	19
Calcium, Dissolved	mg/L	25	24	4	32	33	3
Chloride	mg/L	9.5	9.3	2	12	12	0
Iron, Dissolved	mg/L	*	*	N/A	0.87	0.83	5
Iron, Total	mg/L	*	*	N/A	0.87	0.82	6
Magnesium, Dissolved	mg/L	15	14	7	16	16	0
Manganese, Dissolved	mg/L	0.16	0.16	0	2.4	2.5	4
Manganese, Total	mg/L	0.15	0.15	0	2.4	2.3	4
Potassium, Dissolved	mg/L	3.1	3.0	3	1.3	1.4	7
Nitrate as N	mg/L	2.7	2.6	4	*	*	N/A
Sodium, Dissolved	mg/L	10	8.4	17	17	17	0
Sulfate	mg/L	5.7	5.7	0	16	17	6
Total Dissolved Solids (TDS)	mg/L	160	170	6	220	230	4
Total Organic Carbon (TOC)	mg/L	*	1.0	N/A	1.1	1.1	0
Trichloroethene	ug/L	*	0.47 J	N/A	0.49 J	0.51 J	4
Vanadium, Total	mg/L	0.0020	*	N/A	*	*	N/A
Vinyl chloride	ug/L	0.054	0.064	17	0.39	0.42	7
Zinc, Dissolved	mg/L	*	*	N/A	0.0055	*	N/A

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
*	LCS or LCSD exceeds the control limits	280-62688, -62813, -62814
F1	MS and/or MSD Recovery exceeds the control limits.	280-62688, -62813, -62814
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	280-62688, -62813, -62814
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.	280-62688, -62813
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.	280-62688, -62813, -62814
F3	Duplicate RPD exceeds the control limit	280-62688
X	Surrogate outside control limits	280-62813, -62814
L	Analyte concentration is less than or equal to 5 times the RL and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD	280-63441

Additional Qualifier Definitions

Qualifiers	Description	Lab Group
U	Results were not detected at concentrations greater than the method reporting limit.	
J	Sample results were estimated either as a trace result (between the method reporting limit and the method detection limit) or a sample impacted by potential bias from blank introduction.	

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: 280-62647-1

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
12/12/2014 9:45 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/12/2014

cc: Mr. Sam Adlington
Mr. Charles Luckie
Mr. Matt O'Hare
Ms. Elena Ramirez
Mr. Dan Venchiarutti

The Lab Certification ID# is 4025.

Table of Contents

CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-62647-1

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 11/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.2 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 350.1 LCS/LCSD exhibited RPD data outside the QC control limits for Ammonia. Both the LCS and LCSD were recovered within QC control limits, demonstrating that the laboratory performed the method within acceptable guidelines; therefore, corrective action is 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 Tetrachloroethene Method 8260C and Ammonia Method 350.1. In addition, the RPD result was outside the RPD limit for Ammonia. 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.

Sample MW-35 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 Zinc above the upper control limit indicating the possible presence of a matrix interference.

All other MS and MSD samples were within established control limits.

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: 280-62647-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62647-1	**MW-35**					
Chloride		1.8		1.0	mg/L	300.0
Sulfate		2.5		1.0	mg/L	300.0
Nitrate as N		0.42		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		74		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		74		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		8.7		0.050	mg/L	6010B
Sodium, Dissolved		5.2		1.0	mg/L	6010B
Barium, Dissolved		0.0031		0.0010	mg/L	6020
Vanadium, Dissolved		0.0036		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0034		0.0010	mg/L	6020
Vanadium, Total		0.0042		0.0020	mg/L	6020
280-62647-2	**MW-13A**					
Chloride		1.9		1.0	mg/L	300.0
Sulfate		2.1		1.0	mg/L	300.0
Nitrate as N		0.46		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)		110		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		5.4		1.0	mg/L	6010B
Barium, Dissolved		0.0025		0.0010	mg/L	6020
Vanadium, Dissolved		0.0040		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0026		0.0010	mg/L	6020
Vanadium, Total		0.0042		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62647-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62647-3	**MW-13B**					
Chloride		2.1		1.0	mg/L	300.0
Sulfate		3.7		1.0	mg/L	300.0
Nitrate as N		0.47		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)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		16		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		0.0035		0.0010	mg/L	6020
Chromium, Dissolved		0.0030		0.0030	mg/L	6020
Vanadium, Dissolved		0.0054		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0037		0.0010	mg/L	6020
Chromium, Total		0.0032		0.0030	mg/L	6020
Vanadium, Total		0.0055		0.0020	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-62647-1

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: 280-62647-1

Method	Analyst	Analyst ID
SW846 8260C	Boldt, Erik D	EDB
SW846 8260C SIM	Sobol, Renee A	RAS
SW846 6010B	Broander, Laura L	LLB
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Trudell, Lynn-Anne M	LMT
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 353.2	Sullivan, Roxanne K	RKS
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-62647-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-62647-1	MW-35	Water	11/17/2014 1250	11/18/2014 0935
280-62647-2	MW-13A	Water	11/17/2014 1340	11/18/2014 0935
280-62647-3	MW-13B	Water	11/17/2014 1500	11/18/2014 0935
280-62647-4TB	TRIP BLANK	Water	11/17/2014 0000	11/18/2014 0935

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1253			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1253				

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: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1253			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1253				

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		0.50	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: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1253			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1253				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1253			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1253				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1315				

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: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1315				

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		0.50	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: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1315				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	102		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1315				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3
Client Matrix: Water

Date Sampled: 11/17/2014 1500
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1338			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1338				

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: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3
Client Matrix: Water

Date Sampled: 11/17/2014 1500
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1338			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1338				

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		0.50	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: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3
Client Matrix: Water

Date Sampled: 11/17/2014 1500
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1338			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1338				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3
Client Matrix: Water

Date Sampled: 11/17/2014 1500
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1338			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1338				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62647-4TB
Client Matrix: Water

Date Sampled: 11/17/2014 0000
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1400				

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: 280-62647-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62647-4TB
Client Matrix: Water

Date Sampled: 11/17/2014 0000
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1400				

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		0.50	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: 280-62647-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62647-4TB
Client Matrix: Water

Date Sampled: 11/17/2014 0000
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1400				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
4-Bromofluorobenzene (Surr)	120		73 - 120
Toluene-d8 (Surr)	117		71 - 126

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62647-4TB
Client Matrix: Water

Date Sampled: 11/17/2014 0000
Date Received: 11/18/2014 0935

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G36800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1400				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4139.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0317			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	97		50 - 150
TBA-d9 (Surr)	116		50 - 150

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4140.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0342			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	98		50 - 150
TBA-d9 (Surr)	114		50 - 150

Client: Waste Management | Job Number: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3 | Date Sampled: 11/17/2014 1500
Client Matrix: Water | Date Received: 11/18/2014 0935

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4141.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0406			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0406				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	95		50 - 150
TBA-d9 (Surr)	108		50 - 150

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-255227	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0156			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				

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:	280-256165	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1855			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

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
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:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	067SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1803			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0034		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	0.0042		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1
Client Matrix: Water

Date Sampled: 11/17/2014 1250
Date Received: 11/18/2014 0935

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254051	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	030SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1408			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Beryllium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253688	Lab File ID:	117SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2116			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

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	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	0.0036		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-255227	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0159			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				

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:	280-256165	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1916			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

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	5.4		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	072SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1822			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0026		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	0.0042		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2
Client Matrix: Water

Date Sampled: 11/17/2014 1340
Date Received: 11/18/2014 0935

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254051	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	035SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1428			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Beryllium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253688	Lab File ID:	122SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2135			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0025		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	0.0040		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management | Job Number: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3 | Date Sampled: 11/17/2014 1500
Client Matrix: Water | Date Received: 11/18/2014 0935

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-255227	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0202			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				

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:	280-256165	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1918			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	16		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	8.7		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	5.3		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	075SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1834			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0037		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0032		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	0.0055		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62647-1

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3
Client Matrix: Water

Date Sampled: 11/17/2014 1500
Date Received: 11/18/2014 0935

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253678	Lab File ID:	160SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 0002			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Beryllium, Total	ND		0.0010	0.0010
Selenium, Total	ND		0.0010	0.0010

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-253945	Instrument ID:	MT_077
Prep Method:	3005A	Prep Batch:	280-253688	Lab File ID:	123SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2139			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0035		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0030		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	0.0054		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

General Chemistry

Client Sample ID: **MW-35**

Lab Sample ID: 280-62647-1 Date Sampled: 11/17/2014 1250
Client Matrix: Water Date Received: 11/18/2014 0935

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 1926						
Sulfate	2.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 1926						
Ammonia (as N)	ND	*	mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-253904	Analysis Date: 11/19/2014 1404						
Nitrate as N	0.42		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-254696	Analysis Date: 11/18/2014 2206						
Alkalinity, Total (As CaCO3)	74		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1517						
Alkalinity, Bicarbonate (As CaCO3)	74		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1517						
Total Dissolved Solids (TDS)	100		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-253850	Analysis Date: 11/19/2014 1425						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-253695	Analysis Date: 11/18/2014 1640						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254004	Analysis Date: 11/19/2014 2315						

General Chemistry

Client Sample ID: **MW-13A**

Lab Sample ID: 280-62647-2 Date Sampled: 11/17/2014 1340
Client Matrix: Water Date Received: 11/18/2014 0935

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.9		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 1944						
Sulfate	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 1944						
Ammonia (as N)	ND	*	mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-253904	Analysis Date: 11/19/2014 1418						
Nitrate as N	0.46		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-254696	Analysis Date: 11/18/2014 2206						
Alkalinity, Total (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1522						
Alkalinity, Bicarbonate (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1522						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-253850	Analysis Date: 11/19/2014 1425						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-253695	Analysis Date: 11/18/2014 1640						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254004	Analysis Date: 11/19/2014 2330						

General Chemistry

Client Sample ID: **MW-13B**

Lab Sample ID: 280-62647-3 Date Sampled: 11/17/2014 1500
Client Matrix: Water Date Received: 11/18/2014 0935

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 2001						
Sulfate	3.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-254912	Analysis Date: 11/26/2014 2001						
Ammonia (as N)	ND	*	mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-253904	Analysis Date: 11/19/2014 1438						
Nitrate as N	0.47		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-254696	Analysis Date: 11/18/2014 2206						
Alkalinity, Total (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1527						
Alkalinity, Bicarbonate (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254188	Analysis Date: 11/20/2014 1527						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-253850	Analysis Date: 11/19/2014 1425						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-253695	Analysis Date: 11/18/2014 1640						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254004	Analysis Date: 11/19/2014 2344						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-62647-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F1	MS and/or MSD Recovery exceeds the control limits
Metals		
	F1	MS and/or MSD Recovery exceeds the control limits
General Chemistry		
	F1	MS and/or MSD Recovery exceeds the control limits
	F2	MS/MSD RPD exceeds control limits
	*	RPD of the LCS and LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-62647-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-215763					
LCS 480-215763/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-215763/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-215763/7	Method Blank	T	Water	8260C SIM	
280-62647-1	MW-35	T	Water	8260C SIM	
280-62647-2	MW-13A	T	Water	8260C SIM	
280-62647-3	MW-13B	T	Water	8260C SIM	
Analysis Batch:480-216102					
LCS 480-216102/5	Lab Control Sample	T	Water	8260C	
MB 480-216102/7	Method Blank	T	Water	8260C	
280-62647-1	MW-35	T	Water	8260C	
280-62647-2	MW-13A	T	Water	8260C	
280-62647-3	MW-13B	T	Water	8260C	
280-62647-4TB	TRIP BLANK	T	Water	8260C	
480-71411-E-2 MS	Matrix Spike	T	Water	8260C	
480-71411-E-2 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62647-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-253674					
LCS 280-253674/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253674/1-A	Method Blank	R	Water	3005A	
280-62647-1	MW-35	D	Water	3005A	
280-62647-1MS	Matrix Spike	D	Water	3005A	
280-62647-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62647-2	MW-13A	D	Water	3005A	
280-62647-3	MW-13B	D	Water	3005A	
Prep Batch: 280-253675					
LCS 280-253675/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253675/1-A	Method Blank	R	Water	3005A	
280-62642-B-1-B MS	Matrix Spike	R	Water	3005A	
280-62642-B-1-C MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62647-1	MW-35	R	Water	3005A	
280-62647-2	MW-13A	R	Water	3005A	
280-62647-3	MW-13B	R	Water	3005A	
Prep Batch: 280-253678					
LCS 280-253678/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253678/1-A	Method Blank	R	Water	3005A	
280-62647-1	MW-35	R	Water	3005A	
280-62647-1MS	Matrix Spike	R	Water	3005A	
280-62647-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62647-2	MW-13A	R	Water	3005A	
280-62647-3	MW-13B	R	Water	3005A	
Prep Batch: 280-253688					
LCS 280-253688/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253688/1-A	Method Blank	R	Water	3005A	
280-62647-1	MW-35	D	Water	3005A	
280-62647-1MS	Matrix Spike	D	Water	3005A	
280-62647-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62647-2	MW-13A	D	Water	3005A	
280-62647-3	MW-13B	D	Water	3005A	

Client: Waste Management

Job Number: 280-62647-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-253945					
LCS 280-253678/2-A	Lab Control Sample	R	Water	6020	280-253678
MB 280-253678/1-A	Method Blank	R	Water	6020	280-253678
LCS 280-253688/2-A	Lab Control Sample	R	Water	6020	280-253688
MB 280-253688/1-A	Method Blank	R	Water	6020	280-253688
280-62647-1	MW-35	R	Water	6020	280-253678
280-62647-1MS	Matrix Spike	R	Water	6020	280-253678
280-62647-1MSD	Matrix Spike Duplicate	R	Water	6020	280-253678
280-62647-1	MW-35	D	Water	6020	280-253688
280-62647-1MS	Matrix Spike	D	Water	6020	280-253688
280-62647-1MSD	Matrix Spike Duplicate	D	Water	6020	280-253688
280-62647-2	MW-13A	R	Water	6020	280-253678
280-62647-2	MW-13A	D	Water	6020	280-253688
280-62647-3	MW-13B	R	Water	6020	280-253678
280-62647-3	MW-13B	D	Water	6020	280-253688
Analysis Batch:280-254051					
LCS 280-253678/2-A	Lab Control Sample	R	Water	6020	280-253678
MB 280-253678/1-A	Method Blank	R	Water	6020	280-253678
280-62647-1	MW-35	R	Water	6020	280-253678
280-62647-1MS	Matrix Spike	R	Water	6020	280-253678
280-62647-1MSD	Matrix Spike Duplicate	R	Water	6020	280-253678
280-62647-2	MW-13A	R	Water	6020	280-253678
Analysis Batch:280-255227					
LCS 280-253675/2-A	Lab Control Sample	R	Water	6010B	280-253675
MB 280-253675/1-A	Method Blank	R	Water	6010B	280-253675
280-62642-B-1-B MS	Matrix Spike	R	Water	6010B	280-253675
280-62642-B-1-C MSD	Matrix Spike Duplicate	R	Water	6010B	280-253675
280-62647-1	MW-35	R	Water	6010B	280-253675
280-62647-2	MW-13A	R	Water	6010B	280-253675
280-62647-3	MW-13B	R	Water	6010B	280-253675
Analysis Batch:280-256165					
LCS 280-253674/2-A	Lab Control Sample	R	Water	6010B	280-253674
MB 280-253674/1-A	Method Blank	R	Water	6010B	280-253674
280-62647-1	MW-35	D	Water	6010B	280-253674
280-62647-1MS	Matrix Spike	D	Water	6010B	280-253674
280-62647-1MSD	Matrix Spike Duplicate	D	Water	6010B	280-253674
280-62647-2	MW-13A	D	Water	6010B	280-253674
280-62647-3	MW-13B	D	Water	6010B	280-253674

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-62647-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-253695					
LCS 280-253695/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-253695/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-253695/3	Method Blank	T	Water	SM 2540D	
280-62620-A-1 DU	Duplicate	T	Water	SM 2540D	
280-62647-1	MW-35	T	Water	SM 2540D	
280-62647-2	MW-13A	T	Water	SM 2540D	
280-62647-3	MW-13B	T	Water	SM 2540D	
Analysis Batch:280-253850					
LCS 280-253850/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-253850/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-253850/1	Method Blank	T	Water	SM 2540C	
280-62647-1	MW-35	T	Water	SM 2540C	
280-62647-1DU	Duplicate	T	Water	SM 2540C	
280-62647-2	MW-13A	T	Water	SM 2540C	
280-62647-3	MW-13B	T	Water	SM 2540C	
Analysis Batch:280-253904					
LCS 280-253904/25	Lab Control Sample	T	Water	350.1	
LCSD 280-253904/26	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-253904/27	Method Blank	T	Water	350.1	
200-25454-D-1 MS	Matrix Spike	T	Water	350.1	
200-25454-D-1 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-62647-1	MW-35	T	Water	350.1	
280-62647-2	MW-13A	T	Water	350.1	
280-62647-3	MW-13B	T	Water	350.1	
Analysis Batch:280-254004					
LCS 280-254004/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254004/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254004/5	Method Blank	T	Water	SM 5310B	
280-62615-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-62615-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-62647-1	MW-35	T	Water	SM 5310B	
280-62647-2	MW-13A	T	Water	SM 5310B	
280-62647-3	MW-13B	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-62647-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254005					
LCS 280-254005/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254005/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254005/5	Method Blank	T	Water	SM 5310B	
280-62615-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-62615-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-62647-1	MW-35	T	Water	SM 5310B	
280-62647-2	MW-13A	T	Water	SM 5310B	
280-62647-3	MW-13B	T	Water	SM 5310B	
Analysis Batch:280-254188					
LCS 280-254188/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-254188/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-254188/6	Method Blank	T	Water	SM 2320B	
280-62647-1	MW-35	T	Water	SM 2320B	
280-62647-2	MW-13A	T	Water	SM 2320B	
280-62647-3	MW-13B	T	Water	SM 2320B	
280-62694-D-1 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-254696					
MB 280-254696/1	Method Blank	T	Water	353.2	
280-62647-1	MW-35	T	Water	353.2	
280-62647-2	MW-13A	T	Water	353.2	
280-62647-3	MW-13B	T	Water	353.2	
Analysis Batch:280-254912					
LCS 280-254912/4	Lab Control Sample	T	Water	300.0	
LCSD 280-254912/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-254912/6	Method Blank	T	Water	300.0	
280-62647-1	MW-35	T	Water	300.0	
280-62647-2	MW-13A	T	Water	300.0	
280-62647-3	MW-13B	T	Water	300.0	
280-62848-A-1 DU	Duplicate	T	Water	300.0	
280-62848-A-1 MS	Matrix Spike	T	Water	300.0	
280-62848-A-1 MSD	Matrix Spike Duplicate	T	Water	300.0	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62647-1

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
280-62647-1	MW-35	100	102	99
280-62647-2	MW-13A	99	102	98
280-62647-3	MW-13B	103	100	99
280-62647-4	TRIP BLANK	119	120	117
MB 480-216102/7		116	119	117
LCS 480-216102/5		95	102	97
480-71411-E-2 MS		97	103	101
480-71411-E-2 MSD		98	101	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: 280-62647-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-62647-1	MW-35	97	116
280-62647-2	MW-13A	98	114
280-62647-3	MW-13B	95	108
MB 480-215763/7		95	112
LCS 480-215763/5		102	104
LCSD 480-215763/6		101	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 480-216102

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-216102/7	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36795.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1144	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1144				
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: 280-62647-1

Method Blank - Batch: 480-216102

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-216102/7	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36795.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1144	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1144				
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		0.50	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: 280-62647-1

Method Blank - Batch: 480-216102

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-216102/7	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36795.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1144	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1144				
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)	116	66 - 137
4-Bromofluorobenzene (Surr)	119	73 - 120
Toluene-d8 (Surr)	117	71 - 126

Method Blank TICs- Batch: 480-216102

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62647-1

Lab Control Sample - Batch: 480-216102

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-216102/5	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36793.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1059	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1059				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.1	100	71 - 129	
1,1-Dichloroethene	25.0	23.9	96	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.9	100	76 - 121	
1,2-Dichlorobenzene	25.0	25.4	101	80 - 124	
1,2-Dichloroethane	25.0	24.6	98	75 - 127	
Benzene	25.0	25.4	101	71 - 124	
Chlorobenzene	25.0	26.0	104	72 - 120	
cis-1,2-Dichloroethene	25.0	25.9	104	74 - 124	
Ethylbenzene	25.0	25.5	102	77 - 123	
Methyl tert-butyl ether	25.0	25.0	100	64 - 127	
m-Xylene & p-Xylene	25.0	26.2	105	76 - 122	
o-Xylene	25.0	25.8	103	76 - 122	
Tetrachloroethene	25.0	26.3	105	74 - 122	
Toluene	25.0	25.4	102	80 - 122	
trans-1,2-Dichloroethene	25.0	24.1	97	73 - 127	
Trichloroethene	25.0	25.4	102	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	66 - 137
4-Bromofluorobenzene (Surr)	102	73 - 120
Toluene-d8 (Surr)	97	71 - 126

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-216102

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-71411-E-2 MS	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36814.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1914			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1914				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71411-E-2 MSD	Analysis Batch:	480-216102	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36815.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1936			Final Weight/Volume:	5 mL
Prep Date:	11/26/2014 1936				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	111	113	71 - 129	2	20		
1,1-Dichloroethene	110	104	58 - 121	5	16		
1,2-Dichloroethane	105	107	75 - 127	2	20		
Benzene	104	112	71 - 124	3	13		
Chlorobenzene	118	113	72 - 120	5	25		
cis-1,2-Dichloroethene	113	114	74 - 124	0	15		
Ethylbenzene	120	113	77 - 123	6	15		
m-Xylene & p-Xylene	120	112	76 - 122	7	16		
o-Xylene	117	111	76 - 122	5	16		
Tetrachloroethene	124	118	74 - 122	4	20	F1	
Toluene	118	111	80 - 122	5	15		
trans-1,2-Dichloroethene	111	112	73 - 127	1	20		
Trichloroethene	117	116	74 - 123	1	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	98	66 - 137
4-Bromofluorobenzene (Surr)	103	101	73 - 120
Toluene-d8 (Surr)	101	100	71 - 126

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-216102

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-71411-E-2 MS	Units: ug/L	MSD Lab Sample ID:	480-71411-E-2 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/26/2014 1914		Analysis Date:	11/26/2014 1936	
Prep Date:	11/26/2014 1914		Prep Date:	11/26/2014 1936	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
1,1-Dichloroethane	ND	25.0	25.0	27.7		28.2
1,1-Dichloroethene	ND	25.0	25.0	27.4		26.1
1,2-Dichloroethane	5.1	25.0	25.0	31.3		31.9
Benzene	28	25.0	25.0	53.6		55.5
Chlorobenzene	ND	25.0	25.0	29.6		28.2
cis-1,2-Dichloroethene	6.0	25.0	25.0	34.3		34.4
Ethylbenzene	ND	25.0	25.0	30.0		28.2
m-Xylene & p-Xylene	ND	25.0	25.0	29.9		28.0
o-Xylene	ND	25.0	25.0	29.3		27.7
Tetrachloroethene	ND	25.0	25.0	30.9	F1	29.5
Toluene	9.8	25.0	25.0	39.4		37.4
trans-1,2-Dichloroethene	ND	25.0	25.0	27.7		28.0
Trichloroethene	ND	25.0	25.0	29.3		29.0

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 480-215763

Method: 8260C SIM
Preparation: 5030C

Lab Sample ID:	MB 480-215763/7	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4138.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0250	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0250				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	95	50 - 150
TBA-d9 (Surr)	112	50 - 150

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-215763

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-215763/5	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4135.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0138	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0138				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-215763/6	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4136.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0202	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0202				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	120	123	50 - 150	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	102	101	50 - 150
TBA-d9 (Surr)	104	109	50 - 150

Client: Waste Management

Job Number: 280-62647-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-215763

Method: 8260C SIM
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-215763/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-215763/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 0138			Analysis Date:	11/25/2014 0202
Prep Date:	11/25/2014 0138			Prep Date:	11/25/2014 0202
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	0.240	0.245

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253674

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-253674/1-A	Analysis Batch:	280-256165	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1850	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
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: 280-253674

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-253674/2-A	Analysis Batch:	280-256165	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1853	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	50.2	100	90 - 111	
Cobalt, Dissolved	0.500	0.512	102	89 - 111	
Iron, Dissolved	1.00	1.02	102	89 - 115	
Magnesium, Dissolved	50.0	50.6	101	90 - 113	
Potassium, Dissolved	50.0	53.3	107	89 - 114	
Sodium, Dissolved	50.0	53.7	107	90 - 115	

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253674

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-62647-1	Analysis Batch:	280-256165	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1900			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62647-1	Analysis Batch:	280-256165	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253674	Lab File ID:	26a120614c.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/06/2014 1903			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	100	100	48 - 153	1	20		
Cobalt, Dissolved	102	101	82 - 119	1	20		
Iron, Dissolved	100	100	52 - 155	0	20		
Magnesium, Dissolved	101	100	62 - 146	1	20		
Potassium, Dissolved	107	107	76 - 132	0	20		
Sodium, Dissolved	107	106	70 - 203	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253674

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-62647-1	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/06/2014 1900		
Prep Date:	11/19/2014 0815		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62647-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/06/2014 1903
Prep Date:	11/19/2014 0815
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	14	50.0	50.0	63.7	63.4
Cobalt, Dissolved	ND	0.500	0.500	0.509	0.505
Iron, Dissolved	ND	1.00	1.00	1.00	1.00
Magnesium, Dissolved	8.7	50.0	50.0	59.1	58.7
Potassium, Dissolved	ND	50.0	50.0	53.6	53.4
Sodium, Dissolved	5.2	50.0	50.0	58.9	58.2

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253675

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-253675/1-A	Analysis Batch:	280-255227	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0110	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
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: 280-253675

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-253675/2-A	Analysis Batch:	280-255227	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0113	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.507	101	89 - 111	
Iron, Total	1.00	1.01	101	89 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253675

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62642-B-1-B MS	Analysis Batch:	280-255227	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0124			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62642-B-1-C MSD	Analysis Batch:	280-255227	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253675	Lab File ID:	26g112914.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/30/2014 0127			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	99	101	82 - 119	2	20		
Iron, Total	95	98	52 - 155	3	20		

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253675

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62642-B-1-B MS	Units: mg/L	MSD Lab Sample ID:	280-62642-B-1-C MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/30/2014 0124		Analysis Date:	11/30/2014 0127	
Prep Date:	11/20/2014 0815		Prep Date:	11/20/2014 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
Cobalt, Total	ND	0.500	0.500	0.497	0.507
Iron, Total	0.069	1.00	1.00	1.02	1.05

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-253678/1-A	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	065_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1755	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, 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

Method Blank - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-253678/1-A	Analysis Batch:	280-254051	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	025_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1348	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Beryllium, Total	ND		0.0010	0.0010

Client: Waste Management

Job Number: 280-62647-1

Lab Control Sample - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-253678/2-A	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	066_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1759	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0353	88	85 - 115	
Barium, Total	0.0400	0.0386	97	85 - 118	
Cadmium, Total	0.0400	0.0368	92	85 - 115	
Chromium, Total	0.0400	0.0380	95	84 - 121	
Copper, Total	0.0400	0.0371	93	85 - 119	
Lead, Total	0.0400	0.0381	95	85 - 118	
Manganese, Total	0.0400	0.0403	101	85 - 117	
Nickel, Total	0.0400	0.0363	91	85 - 119	
Selenium, Total	0.0400	0.0372	93	77 - 122	
Silver, Total	0.0400	0.0357	89	85 - 115	
Thallium, Total	0.0400	0.0376	94	85 - 118	
Vanadium, Total	0.0400	0.0377	94	85 - 120	
Zinc, Total	0.0400	0.0396	99	83 - 122	

Lab Control Sample - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-253678/2-A	Analysis Batch:	280-254051	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	026_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1352	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium, Total	0.0400	0.0357	89	80 - 125	

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62647-1	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	069SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1811			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62647-1	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	070SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 1815			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	94	96	85 - 115	2	20		
Barium, Total	101	95	85 - 118	5	20		
Cadmium, Total	97	98	85 - 115	0	20		
Chromium, Total	105	106	84 - 121	1	20		
Copper, Total	95	95	85 - 119	0	20		
Lead, Total	100	100	85 - 118	0	20		
Manganese, Total	103	105	85 - 117	2	20		
Nickel, Total	95	97	85 - 119	2	20		
Selenium, Total	90	92	77 - 122	3	20		
Silver, Total	94	95	85 - 115	1	20		
Thallium, Total	99	100	85 - 118	2	20		
Vanadium, Total	101	100	85 - 120	1	20		
Zinc, Total	107	104	83 - 122	2	20		

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62647-1	Analysis Batch:	280-254051	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	032SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1416			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62647-1	Analysis Batch:	280-254051	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253678	Lab File ID:	033SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1420			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium, Total	99	101	80 - 125	2	20		

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62647-1	Units: mg/L	MSD Lab Sample ID:	280-62647-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/19/2014 1811		Analysis Date:	11/19/2014 1815	
Prep Date:	11/19/2014 0815		Prep Date:	11/19/2014 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
Antimony, Total	ND	0.0400	0.0400	0.0377	0.0384
Barium, Total	0.0034	0.0400	0.0400	0.0437	0.0416
Cadmium, Total	ND	0.0400	0.0400	0.0390	0.0391
Chromium, Total	ND	0.0400	0.0400	0.0419	0.0422
Copper, Total	ND	0.0400	0.0400	0.0380	0.0381
Lead, Total	ND	0.0400	0.0400	0.0399	0.0401
Manganese, Total	ND	0.0400	0.0400	0.0412	0.0420
Nickel, Total	ND	0.0400	0.0400	0.0381	0.0389
Selenium, Total	ND	0.0400	0.0400	0.0359	0.0369
Silver, Total	ND	0.0400	0.0400	0.0376	0.0379
Thallium, Total	ND	0.0400	0.0400	0.0395	0.0402
Vanadium, Total	0.0042	0.0400	0.0400	0.0447	0.0444
Zinc, Total	ND	0.0400	0.0400	0.0428	0.0418

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253678

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-62647-1	Units: mg/L	MSD Lab Sample ID:	280-62647-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/20/2014 1416		Analysis Date:	11/20/2014 1420	
Prep Date:	11/19/2014 0815		Prep Date:	11/19/2014 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
Beryllium, Total	ND	0.0400	0.0400	0.0397	0.0404

Client: Waste Management Job Number: 280-62647-1

Method Blank - Batch: 280-253688

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-253688/1-A	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253688	Lab File ID:	115_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2108	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 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: 280-253688

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-253688/2-A	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253688	Lab File ID:	116_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2112	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0363	91	85 - 115	
Barium, Dissolved	0.0400	0.0423	106	85 - 118	
Beryllium, Dissolved	0.0400	0.0397	99	80 - 125	
Cadmium, Dissolved	0.0400	0.0401	100	85 - 115	
Chromium, Dissolved	0.0400	0.0408	102	84 - 121	
Copper, Dissolved	0.0400	0.0407	102	85 - 119	
Lead, Dissolved	0.0400	0.0415	104	85 - 118	
Manganese, Dissolved	0.0400	0.0398	100	85 - 117	
Nickel, Dissolved	0.0400	0.0402	100	85 - 119	
Selenium, Dissolved	0.0400	0.0396	99	77 - 122	
Silver, Dissolved	0.0400	0.0403	101	85 - 115	
Thallium, Dissolved	0.0400	0.0410	103	85 - 118	
Vanadium, Dissolved	0.0400	0.0402	100	85 - 120	
Zinc, Dissolved	0.0400	0.0412	103	83 - 122	

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253688

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-62647-1	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253688	Lab File ID:	119SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2123			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62647-1	Analysis Batch:	280-253945	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-253688	Lab File ID:	120SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/19/2014 2127			Final Weight/Volume:	50 mL
Prep Date:	11/19/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	89	96	85 - 115	7	20		
Barium, Dissolved	98	96	85 - 118	2	20		
Beryllium, Dissolved	101	101	80 - 125	0	20		
Cadmium, Dissolved	98	99	85 - 115	1	20		
Chromium, Dissolved	105	108	84 - 121	3	20		
Copper, Dissolved	101	100	85 - 119	1	20		
Lead, Dissolved	101	102	85 - 118	1	20		
Manganese, Dissolved	100	100	85 - 117	1	20		
Nickel, Dissolved	101	98	85 - 119	2	20		
Selenium, Dissolved	99	101	77 - 122	1	20		
Silver, Dissolved	97	100	85 - 115	2	20		
Thallium, Dissolved	100	103	85 - 118	3	20		
Vanadium, Dissolved	101	102	85 - 120	1	20		
Zinc, Dissolved	125	103	83 - 122	19	20	F1	

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253688

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-62647-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/19/2014 2123		
Prep Date:	11/19/2014 0815		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62647-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/19/2014 2127
Prep Date:	11/19/2014 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	0.0357	0.0383
Barium, Dissolved	0.0031	0.0400	0.0400	0.0425	0.0415
Beryllium, Dissolved	ND	0.0400	0.0400	0.0403	0.0403
Cadmium, Dissolved	ND	0.0400	0.0400	0.0391	0.0394
Chromium, Dissolved	ND	0.0400	0.0400	0.0420	0.0434
Copper, Dissolved	ND	0.0400	0.0400	0.0405	0.0401
Lead, Dissolved	ND	0.0400	0.0400	0.0404	0.0410
Manganese, Dissolved	ND	0.0400	0.0400	0.0401	0.0398
Nickel, Dissolved	ND	0.0400	0.0400	0.0403	0.0393
Selenium, Dissolved	ND	0.0400	0.0400	0.0398	0.0403
Silver, Dissolved	ND	0.0400	0.0400	0.0390	0.0399
Thallium, Dissolved	ND	0.0400	0.0400	0.0400	0.0413
Vanadium, Dissolved	0.0036	0.0400	0.0400	0.0439	0.0443
Zinc, Dissolved	ND	0.0400	0.0400	0.0499 F1	0.0411

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-254912

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-254912/6	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	15.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1137	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: 280-254912

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-254912/3	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	12.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1044	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	91	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-254912

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254912/4	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1101	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254912/5	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	14.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1119	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	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-62647-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-254912

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254912/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254912/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 1101			Analysis Date:	11/26/2014 1119
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	100	100

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-254912

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-62848-A-1 MS	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	32.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1703			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-62848-A-1 MSD	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	33.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1721			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	108	108	80 - 120	0	20		
Sulfate	107	106	80 - 120	1	20		

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-254912

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-62848-A-1 MS	Units: mg/L	MSD Lab Sample ID:	280-62848-A-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/26/2014 1703		Analysis Date:	11/26/2014 1721	
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	19	25.0	25.0	45.7	45.7
Sulfate	ND	25.0	25.0	26.7	26.4

Duplicate - Batch: 280-254912

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-62848-A-1 DU	Analysis Batch:	280-254912	Instrument ID:	WC_IonChrom7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	31.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1646	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	19	18.4	2	15	
Sulfate	ND	ND	NC	15	

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253904

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-253904/27	Analysis Batch:	280-253904	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111914.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2014 1323	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-253904

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253904/25	Analysis Batch:	280-253904	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111914.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/19/2014 1319	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-253904/26	Analysis Batch:	280-253904	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111914.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/19/2014 1321	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)	93	109	90 - 110	16	10		*

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-253904

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253904/25	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-253904/26
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2014 1319			Analysis Date:	11/19/2014 1321
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	2.32	2.72	*

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253904

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	200-25454-D-1 MS	Analysis Batch:	280-253904	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111914.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2014 1352			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	200-25454-D-1 MSD	Analysis Batch:	280-253904	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\111914.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/19/2014 1354			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)	103	82	90 - 110	22	10		F1 F2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-253904

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	200-25454-D-1 MS	Units:	mg/L	MSD Lab Sample ID:	200-25454-D-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2014 1352			Analysis Date:	11/19/2014 1354
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Ammonia (as N)	ND	1.00	1.00	1.03	0.819	F1 F2

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-254696

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-254696/1	Analysis Batch:	280-254696	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:	11/18/2014 2206	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: 280-62647-1

Method Blank - Batch: 280-254188

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-254188/6	Analysis Batch:	280-254188	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1346	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/
Lab Control Sample Duplicate Recovery Report - Batch: 280-254188

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254188/4	Analysis Batch:	280-254188	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1336	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254188/5	Analysis Batch:	280-254188	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1342	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	97	93	90 - 110	5	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-254188

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254188/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254188/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1336			Analysis Date:	11/20/2014 1342
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	194	186

Client: Waste Management

Job Number: 280-62647-1

Duplicate - Batch: 280-254188

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-62694-D-1 DU	Analysis Batch:	280-254188	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1356	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)	240	249	4	10	

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253850

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-253850/1	Analysis Batch:	280-253850	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:	11/19/2014 1425	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-253850

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253850/2	Analysis Batch:	280-253850	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:	11/19/2014 1425	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-253850/3	Analysis Batch:	280-253850	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:	11/19/2014 1425	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	98	98	86 - 110	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-253850

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253850/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-253850/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2014 1425			Analysis Date:	11/19/2014 1425
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	490	491

Client: Waste Management

Job Number: 280-62647-1

Duplicate - Batch: 280-253850

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-62647-1	Analysis Batch:	280-253850	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:	11/19/2014 1425	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)	100	96.0	6	10	

Client: Waste Management

Job Number: 280-62647-1

Method Blank - Batch: 280-253695

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-253695/3	Analysis Batch:	280-253695	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:	11/18/2014 1640	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: 280-253695

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253695/1	Analysis Batch:	280-253695	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:	100 mL
Analysis Date:	11/18/2014 1640	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-253695/2	Analysis Batch:	280-253695	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:	100 mL
Analysis Date:	11/18/2014 1640	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	89	92	86 - 114	3	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-253695

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-253695/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-253695/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/18/2014 1640			Analysis Date:	11/18/2014 1640
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	89.0	92.0

Client: Waste Management

Job Number: 280-62647-1

Duplicate - Batch: 280-253695

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-62620-A-1 DU	Analysis Batch:	280-253695	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:	11/18/2014 1640	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: 280-62647-1

Method Blank - Batch: 280-254004

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-254004/5	Analysis Batch:	280-254004	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111914.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/19/2014 1619	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: 280-254004

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254004/3	Analysis Batch:	280-254004	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111914.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/19/2014 1545	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254004/4	Analysis Batch:	280-254004	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111914.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/19/2014 1602	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	100	100	88 - 112	1	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-254004

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-254004/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254004/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2014 1545			Analysis Date:	11/19/2014 1602
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.9	25.0

Client: Waste Management

Job Number: 280-62647-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-254004

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-62615-B-1 MS	Analysis Batch:	280-254004	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111914.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/19/2014 2055			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62615-B-1 MSD	Analysis Batch:	280-254004	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111914.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/19/2014 2112			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	102	103	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-254004

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-62615-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-62615-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/19/2014 2055			Analysis Date:	11/19/2014 2112
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	ND	25.0	25.0	25.6	25.6

Client: Waste Management Job Number: 280-62647-1

Laboratory Chronicle

Lab ID: 280-62647-1 **Client ID:** MW-35

Sample Date/Time: 11/17/2014 12:50 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62647-G-1		480-216102		11/26/2014 12:53	1	TAL BUF	EDB
A:8260C	280-62647-G-1		480-216102		11/26/2014 12:53	1	TAL BUF	EDB
P:5030C	280-62647-K-1		480-215763		11/25/2014 03:17	1	TAL BUF	RAS
A:8260C SIM	280-62647-K-1		480-215763		11/25/2014 03:17	1	TAL BUF	RAS
P:3005A	280-62647-D-1-A		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-D-1-A		280-255227	280-253675	11/30/2014 01:56	1	TAL DEN	LLB
P:3005A	280-62647-C-1-A		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-C-1-A		280-256165	280-253674	12/06/2014 18:55	1	TAL DEN	SJS
P:3005A	280-62647-D-1-B		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-B		280-253945	280-253678	11/19/2014 18:03	1	TAL DEN	LMT
P:3005A	280-62647-C-1-D		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-C-1-D		280-253945	280-253688	11/19/2014 21:16	1	TAL DEN	LMT
P:3005A	280-62647-D-1-B		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-B		280-254051	280-253678	11/20/2014 14:08	1	TAL DEN	LMT
A:300.0	280-62647-A-1		280-254912		11/26/2014 19:26	1	TAL DEN	TLP
A:350.1	280-62647-E-1		280-253904		11/19/2014 14:04	1	TAL DEN	CML
A:353.2	280-62647-A-1		280-254696		11/18/2014 22:06	1	TAL DEN	RKS
A:SM 2320B	280-62647-A-1		280-254188		11/20/2014 15:17	1	TAL DEN	CCJ
A:SM 2540C	280-62647-B-1		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	280-62647-B-1		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	280-62647-E-1		280-254004		11/19/2014 23:15	1	TAL DEN	CCJ

Lab ID: 280-62647-1 MS **Client ID:** MW-35

Sample Date/Time: 11/17/2014 12:50 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62647-C-1-B MS		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-C-1-B MS		280-256165	280-253674	12/06/2014 19:00	1	TAL DEN	SJS
P:3005A	280-62647-D-1-C MS		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-C MS		280-253945	280-253678	11/19/2014 18:11	1	TAL DEN	LMT
P:3005A	280-62647-C-1-E MS		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-C-1-E MS		280-253945	280-253688	11/19/2014 21:23	1	TAL DEN	LMT
P:3005A	280-62647-D-1-C MS		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-C MS		280-254051	280-253678	11/20/2014 14:16	1	TAL DEN	LMT

Client: Waste Management Job Number: 280-62647-1

Laboratory Chronicle

Lab ID: 280-62647-1 MSD **Client ID:** MW-35

Sample Date/Time: 11/17/2014 12:50 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62647-C-1-C MSD		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-C-1-C MSD		280-256165	280-253674	12/06/2014 19:03	1	TAL DEN	SJS
P:3005A	280-62647-D-1-D MSD		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-D MSD		280-253945	280-253678	11/19/2014 18:15	1	TAL DEN	LMT
P:3005A	280-62647-C-1-F MSD		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-C-1-F MSD		280-253945	280-253688	11/19/2014 21:27	1	TAL DEN	LMT
P:3005A	280-62647-D-1-D MSD		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-1-D MSD		280-254051	280-253678	11/20/2014 14:20	1	TAL DEN	LMT

Lab ID: 280-62647-1 DU **Client ID:** MW-35

Sample Date/Time: 11/17/2014 12:50 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-62647-B-1 DU		280-253850		11/19/2014 14:25	1	TAL DEN	SVC

Client: Waste Management Job Number: 280-62647-1

Laboratory Chronicle

Lab ID: 280-62647-2 **Client ID:** MW-13A

Sample Date/Time: 11/17/2014 13:40 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62647-G-2		480-216102		11/26/2014 13:15	1	TAL BUF	EDB
A:8260C	280-62647-G-2		480-216102		11/26/2014 13:15	1	TAL BUF	EDB
P:5030C	280-62647-K-2		480-215763		11/25/2014 03:42	1	TAL BUF	RAS
A:8260C SIM	280-62647-K-2		480-215763		11/25/2014 03:42	1	TAL BUF	RAS
P:3005A	280-62647-D-2-A		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-D-2-A		280-255227	280-253675	11/30/2014 01:59	1	TAL DEN	LLB
P:3005A	280-62647-C-2-A		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-C-2-A		280-256165	280-253674	12/06/2014 19:16	1	TAL DEN	SJS
P:3005A	280-62647-D-2-B		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-2-B		280-253945	280-253678	11/19/2014 18:22	1	TAL DEN	LMT
P:3005A	280-62647-C-2-B		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-C-2-B		280-253945	280-253688	11/19/2014 21:35	1	TAL DEN	LMT
P:3005A	280-62647-D-2-B		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-2-B		280-254051	280-253678	11/20/2014 14:28	1	TAL DEN	LMT
A:300.0	280-62647-A-2		280-254912		11/26/2014 19:44	1	TAL DEN	TLP
A:350.1	280-62647-E-2		280-253904		11/19/2014 14:18	1	TAL DEN	CML
A:353.2	280-62647-A-2		280-254696		11/18/2014 22:06	1	TAL DEN	RKS
A:SM 2320B	280-62647-A-2		280-254188		11/20/2014 15:22	1	TAL DEN	CCJ
A:SM 2540C	280-62647-B-2		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	280-62647-B-2		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	280-62647-E-2		280-254004		11/19/2014 23:30	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62647-1

Laboratory Chronicle

Lab ID: 280-62647-3 **Client ID:** MW-13B

Sample Date/Time: 11/17/2014 15:00 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62647-G-3		480-216102		11/26/2014 13:38	1	TAL BUF	EDB
A:8260C	280-62647-G-3		480-216102		11/26/2014 13:38	1	TAL BUF	EDB
P:5030C	280-62647-K-3		480-215763		11/25/2014 04:06	1	TAL BUF	RAS
A:8260C SIM	280-62647-K-3		480-215763		11/25/2014 04:06	1	TAL BUF	RAS
P:3005A	280-62647-D-3-A		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-D-3-A		280-255227	280-253675	11/30/2014 02:02	1	TAL DEN	LLB
P:3005A	280-62647-C-3-A		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62647-C-3-A		280-256165	280-253674	12/06/2014 19:18	1	TAL DEN	SJS
P:3005A	280-62647-D-3-B		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-3-B		280-253945	280-253678	11/19/2014 18:34	1	TAL DEN	LMT
P:3005A	280-62647-C-3-B		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-C-3-B		280-253945	280-253688	11/19/2014 21:39	1	TAL DEN	LMT
P:3005A	280-62647-D-3-B		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	280-62647-D-3-B		280-253945	280-253678	11/20/2014 00:02	1	TAL DEN	LMT
A:300.0	280-62647-A-3		280-254912		11/26/2014 20:01	1	TAL DEN	TLP
A:350.1	280-62647-E-3		280-253904		11/19/2014 14:38	1	TAL DEN	CML
A:353.2	280-62647-A-3		280-254696		11/18/2014 22:06	1	TAL DEN	RKS
A:SM 2320B	280-62647-A-3		280-254188		11/20/2014 15:27	1	TAL DEN	CCJ
A:SM 2540C	280-62647-B-3		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	280-62647-B-3		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	280-62647-E-3		280-254004		11/19/2014 23:44	1	TAL DEN	CCJ

Lab ID: 280-62647-4 **Client ID:** TRIP BLANK

Sample Date/Time: 11/17/2014 00:00 Received Date/Time: 11/18/2014 09:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62647-A-4		480-216102		11/26/2014 14:00	1	TAL BUF	EDB
A:8260C	280-62647-A-4		480-216102		11/26/2014 14:00	1	TAL BUF	EDB

Client: Waste Management

Job Number: 280-62647-1

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 480-216102/7		480-216102		11/26/2014 11:44	1	TAL BUF	EDB
A:8260C	MB 480-216102/7		480-216102		11/26/2014 11:44	1	TAL BUF	EDB
P:5030C	MB 480-215763/7		480-215763		11/25/2014 02:50	1	TAL BUF	RAS
A:8260C SIM	MB 480-215763/7		480-215763		11/25/2014 02:50	1	TAL BUF	RAS
P:3005A	MB 280-253675/1-A		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	MB 280-253675/1-A		280-255227	280-253675	11/30/2014 01:10	1	TAL DEN	LLB
P:3005A	MB 280-253674/1-A		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	MB 280-253674/1-A		280-256165	280-253674	12/06/2014 18:50	1	TAL DEN	SJS
P:3005A	MB 280-253678/1-A		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	MB 280-253678/1-A		280-253945	280-253678	11/19/2014 17:55	1	TAL DEN	LMT
P:3005A	MB 280-253688/1-A		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	MB 280-253688/1-A		280-253945	280-253688	11/19/2014 21:08	1	TAL DEN	LMT
P:3005A	MB 280-253678/1-A		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	MB 280-253678/1-A		280-254051	280-253678	11/20/2014 13:48	1	TAL DEN	LMT
A:300.0	MB 280-254912/6		280-254912		11/26/2014 11:37	1	TAL DEN	TLP
A:350.1	MB 280-253904/27		280-253904		11/19/2014 13:23	1	TAL DEN	CML
A:353.2	MB 280-254696/1		280-254696		11/18/2014 22:06	1	TAL DEN	RKS
A:SM 2320B	MB 280-254188/6		280-254188		11/20/2014 13:46	1	TAL DEN	CCJ
A:SM 2540C	MB 280-253850/1		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	MB 280-253695/3		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	MB 280-254004/5		280-254004		11/19/2014 16:19	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62647-1

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 480-216102/5		480-216102		11/26/2014 10:59	1	TAL BUF	EDB
A:8260C	LCS 480-216102/5		480-216102		11/26/2014 10:59	1	TAL BUF	EDB
P:5030C	LCS 480-215763/5		480-215763		11/25/2014 01:38	1	TAL BUF	RAS
A:8260C SIM	LCS 480-215763/5		480-215763		11/25/2014 01:38	1	TAL BUF	RAS
P:3005A	LCS 280-253675/2-A		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	LCS 280-253675/2-A		280-255227	280-253675	11/30/2014 01:13	1	TAL DEN	LLB
P:3005A	LCS 280-253674/2-A		280-256165	280-253674	11/19/2014 08:15	1	TAL DEN	WDS
A:6010B	LCS 280-253674/2-A		280-256165	280-253674	12/06/2014 18:53	1	TAL DEN	SJS
P:3005A	LCS 280-253678/2-A		280-253945	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	LCS 280-253678/2-A		280-253945	280-253678	11/19/2014 17:59	1	TAL DEN	LMT
P:3005A	LCS 280-253688/2-A		280-253945	280-253688	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	LCS 280-253688/2-A		280-253945	280-253688	11/19/2014 21:12	1	TAL DEN	LMT
P:3005A	LCS 280-253678/2-A		280-254051	280-253678	11/19/2014 08:15	1	TAL DEN	WDS
A:6020	LCS 280-253678/2-A		280-254051	280-253678	11/20/2014 13:52	1	TAL DEN	LMT
A:300.0	LCS 280-254912/4		280-254912		11/26/2014 11:01	1	TAL DEN	TLP
A:350.1	LCS 280-253904/25		280-253904		11/19/2014 13:19	1	TAL DEN	CML
A:SM 2320B	LCS 280-254188/4		280-254188		11/20/2014 13:36	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-253850/2		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	LCS 280-253695/1		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	LCS 280-254004/3		280-254004		11/19/2014 15:45	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 480-215763/6		480-215763		11/25/2014 02:02	1	TAL BUF	RAS
A:8260C SIM	LCSD 480-215763/6		480-215763		11/25/2014 02:02	1	TAL BUF	RAS
A:300.0	LCSD 280-254912/5		280-254912		11/26/2014 11:19	1	TAL DEN	TLP
A:350.1	LCSD 280-253904/26		280-253904		11/19/2014 13:21	1	TAL DEN	CML
A:SM 2320B	LCSD 280-254188/5		280-254188		11/20/2014 13:42	1	TAL DEN	CCJ
A:SM 2540C	LCSD 280-253850/3		280-253850		11/19/2014 14:25	1	TAL DEN	SVC
A:SM 2540D	LCSD 280-253695/2		280-253695		11/18/2014 16:40	1	TAL DEN	MW1
A:SM 5310B	LCSD 280-254004/4		280-254004		11/19/2014 16:02	1	TAL DEN	CCJ

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 280-254912/3		280-254912		11/26/2014 10:44	1	TAL DEN	TLP

Client: Waste Management Job Number: 280-62647-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/13/2014 11:26 Received Date/Time: 11/14/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71411-E-2 MS		480-216102		11/26/2014 19:14	1	TAL BUF	EDB
A:8260C	480-71411-E-2 MS		480-216102		11/26/2014 19:14	1	TAL BUF	EDB
P:3005A	280-62642-B-1-B MS		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62642-B-1-B MS		280-255227	280-253675	11/30/2014 01:24	1	TAL DEN	LLB
A:300.0	280-62848-A-1 MS		280-254912		11/26/2014 17:03	1	TAL DEN	TLP
A:350.1	200-25454-D-1 MS		280-253904		11/19/2014 13:52	1	TAL DEN	CML
A:SM 5310B	280-62615-B-1 MS		280-254004		11/19/2014 20:55	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 11/13/2014 11:26 Received Date/Time: 11/14/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71411-E-2 MSD		480-216102		11/26/2014 19:36	1	TAL BUF	EDB
A:8260C	480-71411-E-2 MSD		480-216102		11/26/2014 19:36	1	TAL BUF	EDB
P:3005A	280-62642-B-1-C MSD		280-255227	280-253675	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62642-B-1-C MSD		280-255227	280-253675	11/30/2014 01:27	1	TAL DEN	LLB
A:300.0	280-62848-A-1 MSD		280-254912		11/26/2014 17:21	1	TAL DEN	TLP
A:350.1	200-25454-D-1 MSD		280-253904		11/19/2014 13:54	1	TAL DEN	CML
A:SM 5310B	280-62615-B-1 MSD		280-254004		11/19/2014 21:12	1	TAL DEN	CCJ

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 11/20/2014 13:04 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-62848-A-1 DU		280-254912		11/26/2014 16:46	1	TAL DEN	TLP
A:SM 2320B	280-62694-D-1 DU		280-254188		11/20/2014 13:56	1	TAL DEN	CCJ
A:SM 2540D	280-62620-A-1 DU		280-253695		11/18/2014 16:40	1	TAL DEN	MW1

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

1.7+0.5 IR-5
Transfer by CO
11/18/14

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody

280-62647 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matt O'Hare	Lab PM: Sara, Betsy A	COC No: 280-17318-3224.1
Client Contact: Mr. Charles Luckie	Phone: 425-285-5452	E-Mail: betsy.sara@testamericainc.com	Page: 1 of 1
Company: Olympic View Transfer Station			Job #: 04204027.17
Address: 9300 Southwest Barney White Road	Due Date Requested: Standard		
City: Bremerton	TAT Requested (days): Standard		
State, Zip: WA, 98312			
Phone: 425-289-5455	PO #:		
Email: Dvenchiarutti@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#:		

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 - 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:

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	11/17/14	1250	G	W			X	X	X	X	X	X	X	X	X		Short Hold: NO3(cad)
MW-13A		1340	G	W			X	X	X	X	X	X	X	X	X		Arsenic - Direct sub to ARI
MW-13B		1500	G	W			X	X	X	X	X	X	X	X	X		
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	Matt O'Hare	11/17/14 1630	SCS			
2					11/18/14 935	TAD
3						

Custody Seals Intact: △ Yes △ No
Custody Seal No.: 333131
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-62647-1

Login Number: 62647

List Source: TestAmerica Denver

List Number: 1

Creator: Orfield, Tayler C

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: 280-62647-1

Login Number: 62647
List Number: 2
Creator: Robison, Zachary J

List Source: TestAmerica Buffalo
List Creation: 11/20/14 03:36 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-62688-1

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
12/17/2014 11:37 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/17/2014

cc: Mr. Sam Adlington
Mr. Matt O'Hare
Ms. Elena Ramirez
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: 280-62688-1

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 11/19/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.4º C and 5.6º C.

Holding Times

All holding times were within established control limits.

Trip Blank

Acetone, a common laboratory contaminant, was detected in the trip blank sample at a level below the requested reporting limit. Acetone was also detected in the sample MW-23A at a similar level, therefore, the Acetone in this sample is likely due to laboratory artifact.

Method Blanks

All Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Method 8260C LCS exhibited a recovery of Vinyl Chloride outside the control limits. A full list spike was utilized for Method 8260C. The laboratory's SOP for Method 8260C allows for five analytes to recover outside criteria when a full list spike is utilized, and therefore reanalysis 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 1,1-Dichloroethene, Tetrachloroethene, trans-1,2-Dichloroethene, Trichloroethene Method 8260C 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.

The percent recoveries and/or relative percent difference of the MS/MSD performed on a sample from another client were outside control limits for Total Iron 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 percent recoveries and/or relative percent difference of the MS/MSD performed on sample MW-23A 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-23A 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 for Sulfate Method 300.0 performed on a sample from another client was outside control limits. Because all other QC and calibration criteria were met no corrective action was needed.

Organics

The analyte 2-chloroethyl vinyl ether cannot be reliably quantitated in acid preserved samples, therefore, the reporting limit for the analyte 2-chloroethyl vinyl ether is not reliable or defensible.

Metals

The bracketing Continuing Calibration Verification Samples (CCV) surrounding the Method Blank were above control limits for Dissolved Sodium during Method 6010B analysis. Because the data are considered to be biased high and Dissolved Sodium was not detected in the Method Blank sample above the reporting limit, 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: 280-62688-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62688-1	**MW-42**					
Vinyl chloride		0.082		0.020	ug/L	8260C SIM
Chloride		19		1.0	mg/L	300.0
Sulfate		11		1.0	mg/L	300.0
Ammonia (as N)		6.3		0.060	mg/L	350.1
Alkalinity, Total (As CaCO3)		230		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		230		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		310		5.0	mg/L	SM 2540C
Total Suspended Solids		170		10	mg/L	SM 2540D
Total Organic Carbon - Average		7.9		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		44		0.040	mg/L	6010B
Cobalt, Dissolved		0.0077		0.0030	mg/L	6010B
Iron, Dissolved		27		0.060	mg/L	6010B
Magnesium, Dissolved		17		0.050	mg/L	6010B
Potassium, Dissolved		8.2		1.0	mg/L	6010B
Sodium, Dissolved		20		1.0	mg/L	6010B
Barium, Dissolved		0.12		0.0010	mg/L	6020
Manganese, Dissolved		5.0		0.0010	mg/L	6020
Total Recoverable						
Cobalt, Total		0.0030		0.0030	mg/L	6010B
Iron, Total		32		0.060	mg/L	6010B
Barium, Total		0.13		0.0010	mg/L	6020
Manganese, Total		5.1		0.0010	mg/L	6020
Vanadium, Total		0.0038		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62688-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62688-2	**MW-29A**					
Chloride		2.2		1.0	mg/L	300.0
Sulfate		1.4		1.0	mg/L	300.0
Ammonia (as N)		0.074		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		41		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		41		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		72		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		6.5		0.040	mg/L	6010B
Iron, Dissolved		3.7		0.060	mg/L	6010B
Magnesium, Dissolved		3.7		0.050	mg/L	6010B
Sodium, Dissolved		3.1		1.0	mg/L	6010B
Barium, Dissolved		0.0094		0.0010	mg/L	6020
Manganese, Dissolved		1.3		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		4.7		0.060	mg/L	6010B
Barium, Total		0.010		0.0010	mg/L	6020
Manganese, Total		1.3		0.0010	mg/L	6020
280-62688-3	**MW-39**					
Chloride		2.7		1.0	mg/L	300.0
Sulfate		1.2		1.0	mg/L	300.0
Ammonia (as N)		0.30		0.030	mg/L	350.1
Nitrate as N		0.19		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		98		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		98		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		130		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		2.4		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		11		0.040	mg/L	6010B
Cobalt, Dissolved		0.0065		0.0030	mg/L	6010B
Iron, Dissolved		29		0.060	mg/L	6010B
Magnesium, Dissolved		6.5		0.050	mg/L	6010B
Sodium, Dissolved		6.9		1.0	mg/L	6010B
Barium, Dissolved		0.013		0.0010	mg/L	6020
Manganese, Dissolved		0.49		0.0010	mg/L	6020
Total Recoverable						
Cobalt, Total		0.0076		0.0030	mg/L	6010B
Iron, Total		32		0.060	mg/L	6010B
Barium, Total		0.021		0.0010	mg/L	6020
Manganese, Total		0.49		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62688-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62688-4	**MW-16**					
Chloride		1.5		1.0	mg/L	300.0
Sulfate		3.3		1.0	mg/L	300.0
Nitrate as N		0.28		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		57		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		57		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		11		0.040	mg/L	6010B
Magnesium, Dissolved		6.4		0.050	mg/L	6010B
Sodium, Dissolved		4.8		1.0	mg/L	6010B
Barium, Dissolved		0.0037		0.0010	mg/L	6020
Chromium, Dissolved		0.0074		0.0030	mg/L	6020
Manganese, Dissolved		0.012		0.0010	mg/L	6020
Vanadium, Dissolved		0.0035		0.0020	mg/L	6020
Total Recoverable						
Iron, Total		0.18		0.060	mg/L	6010B
Barium, Total		0.0039		0.0010	mg/L	6020
Chromium, Total		0.0077		0.0030	mg/L	6020
Manganese, Total		0.032		0.0010	mg/L	6020
Vanadium, Total		0.0040		0.0020	mg/L	6020
280-62688-5	**MW-43**					
Chloride		1.5		1.0	mg/L	300.0
Sulfate		2.1		1.0	mg/L	300.0
Ammonia (as N)		0.12		0.030	mg/L	350.1
Nitrate as N		0.81		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		21		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		21		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		50		5.0	mg/L	SM 2540C
Total Suspended Solids		4.4		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		1.3		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		4.4		0.040	mg/L	6010B
Iron, Dissolved		0.70		0.060	mg/L	6010B
Magnesium, Dissolved		1.8		0.050	mg/L	6010B
Sodium, Dissolved		2.8		1.0	mg/L	6010B
Barium, Dissolved		0.0058		0.0010	mg/L	6020
Manganese, Dissolved		0.24		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		1.7		0.060	mg/L	6010B
Barium, Total		0.0066		0.0010	mg/L	6020
Manganese, Total		0.26		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62688-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62688-6	**MW-23A**					
Acetone		3.4	J	10	ug/L	8260C
Vinyl chloride		0.0082	J	0.020	ug/L	8260C SIM
Chloride		2.7		1.0	mg/L	300.0
Sulfate		4.2		1.0	mg/L	300.0
Ammonia (as N)		0.035		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		94		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		94		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		140		5.0	mg/L	SM 2540C
Total Suspended Solids		4.0		4.0	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		20		0.040	mg/L	6010B
Iron, Dissolved		0.46		0.060	mg/L	6010B
Magnesium, Dissolved		9.2		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		5.1		1.0	mg/L	6010B
Barium, Dissolved		0.013		0.0010	mg/L	6020
Manganese, Dissolved		2.1		0.0010	mg/L	6020
Zinc, Dissolved		0.012		0.0050	mg/L	6020
Total Recoverable						
Iron, Total		0.91		0.060	mg/L	6010B
Barium, Total		0.014		0.0010	mg/L	6020
Manganese, Total		2.2		0.0010	mg/L	6020
Zinc, Total		0.0053		0.0050	mg/L	6020
280-62688-7TB	**TRIP BLANK**					
Acetone		5.8	J	10	ug/L	8260C

METHOD SUMMARY

Client: Waste Management

Job Number: 280-62688-4

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals 71C(I	P) T ALN	DW8E6 6040S	
(reBarationpPotal , eRocerable or Aissolcev Metals	P) T ALN		DW8E6 d003)
Metals 71C(I	P) T ALN	DW8E6 6040S	
(reBarationpPotal , eRocerable or Aissolcev Metals	P) T ALN		DW8E6 d003)
DamBle 5iltrationp5ielv			51L TAF5TP, A
Metals 71C(_MDI	P) T ALN	DW8E6 6020	
(reBarationpPotal , eRocerable or Aissolcev Metals	P) T ALN		DW8E6 d003)
Metals 71C(_MDI	P) T ALN	DW8E6 6020	
(reBarationpPotal , eRocerable or Aissolcev Metals	P) T ALN		DW8E6 d003)
DamBle 5iltrationp5ielv			51L TAF5TP, A
) nionsp1on C/ romatograB/ h	P) T ALN	MC) WW d00y0	
Nitrogenp) mmonia	P) T ALN	MC) WW d30y4	
Nitrate	P) T ALN	L( ) d3dy2	
) l. alinith	P) T ALN	DM DM 2d20S	
DolivspPotal Aissolcev 7PADI	P) T ALN	DM DM 23E0C	
DolivspPotal DusBenvev 7PDDI	P) T ALN	DM DM 23E0A	
k rganiRCarbonpPotal 7Pk CI	P) T ALN	DM DM 3d40S	
Oolatile k rganiRComBounvs bh VC_MD	P) T SG5	DW8E6 8260C	
(urge anv PraB	P) T SG5		DW8E6 30d0C
Oolatile k rganiRComBounvs 7VC_MDI	P) T SG5	DW8E6 8260C D1M	
(urge anv PraB	P) T SG5		DW8E6 30d0C

Lab References:

P) T SG5 UPest) meriRa Su=alo

P) T ALN UPest) meriRa Aencer

Method References:

L( ) UGD Lncironmental (roteRtion) genRh

MC) WW UfMet/ ovs 5or C/ emiRal) nalhsis k =Water) nv WastesfpL( ) -600_E-" 9-020pMarR(498d) nv Dubsequent , ecisionsy

DM UfDtanvarv Met/ ovs 5or P/ e Lxamination k =Water) nv Wastewaterf

DW8E6 UfPest Met/ ovs 5or Lcaluating Doliv Wastep(/ hsiRal_C/ emiRal Met/ ovsfpP/ irv LvitionpNocember 4986) nv 1ts GBvatesy

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-62688-1

Method	Analyst	Analyst ID
SW846 8260C	Boldt, Erik D	EDB
SW846 8260C SIM	Sobol, Renee A	RAS
SW846 6010B	Broander, Laura L	LLB
SW846 6010B	Diaz, Luis R	LRD
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Mooney, Joseph C	JM
SW846 6020	Trudell, Lynn-Anne M	LMT
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 353.2	Allen, Andrew J	AJA
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-62688-4

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-62688-4	MW-72	Water	04/14/2012 0947	04/14/2012 0573
280-62688-2	MW-25/	Water	04/14/2012 0947	04/14/2012 0573
280-62688-9	MW-95	Water	04/14/2012 0947	04/14/2012 0573
280-62688-7	MW-46	Water	04/14/2012 0947	04/14/2012 0573
280-62688-3	MW-79	Water	04/14/2012 0947	04/14/2012 0573
280-62688-6	MW-29/	Water	04/14/2012 0947	04/14/2012 0573
280-62688-ABT	BRIP TL/ NK	Water	04/14/2012 0000	04/14/2012 0573

SAMPLE RESULTS

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4 p ate 1amLleD: 44x48x204d 4d/ /
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vd3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4922			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4922				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	Np		930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4 p ate 1amLleD: 44x48x204d 4d/ /
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vd3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4922			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4922				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4
Client Matril: Water

p ate 1amLleD: 44x48x204d 4d/ /
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vd3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4922			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4922				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	v8		66 - 49P
d-Bromofluorobenzene (1urr)	402		P9 - 420
Toluene-D8 (1urr)	v8		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4
Client Matril : Water

p ate 1amLleD: 44x48x204d 4d/ /
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vd3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4922			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4922				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2 p ate 1amLleD: 44x48x204d 4d02
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v/ 3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 49dd			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 49dd				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	Np		930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2

Client Matril: Water

p ate 1amLleD: 44x48x204d 4d02

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/46	Snstrument Sp:	GH/vP9V
HreL MetFoD:	/090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v/3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 49dd			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 49dd				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-piRFloroetFene	Np		0384	430
Rs-4,9-piRFloroLroLene	Np		0396	430
CyRoFeIane	Np		0348	430
pibromoRFlorometFane	Np		0392	430
pibromometFane	Np		03d4	430
piRFloroDifluorometFane	Np		0368	430
piRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03'v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/30
MetFyl aRetate	Np		03'0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeIane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/30
Toluene	Np		03'4	430
trans-4,2-piRFloroetFene	Np		03v0	430
trans-4,9-piRFloroLroLene	Np		039P	430
trans-4,d-piRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2
Client Matril: Water

p ate 1amLleD: 44x48x204d 4d02
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v/ 3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 49dd			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 49dd				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	vv		66 - 49P
d-Bromofluorobenzene (1urr)	400		P9 - 420
Toluene-D8 (1urr)	v8		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2
Client Matril : Water

p ate 1amLleD: 44x48x204d 4d02
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v/ 3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 49dd			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 49dd				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9 p ate 1amLleD: 44x48x204d 400/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v63p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d06			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d06				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	Np		930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9 p ate 1amLleD: 44x48x204d 400/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v63p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d06			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d06				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9
Client Matril: Water

p ate 1amLleD: 44x48x204d 400/
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/46	Snstrument Sp:	GH/vP9V
HreL MetFoD:	/090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v63p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d06			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d06				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	409		66 - 49P
d-Bromofluorobenzene (1urr)	404		P9 - 420
Toluene-D8 (1urr)	vv		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9
Client Matril : Water

p ate 1amLleD: 44x48x204d 400/
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v63p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d06			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d06				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d p ate 1amLleD: 44x48x204d 0v06
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vP3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d2v			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d2v				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	Np		930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d p ate 1amLleD: 44x48x204d 0v06
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vP3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d2v			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d2v				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d
Client Matril : Water

p ate 1amLleD: 44x48x204d 0v06
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vP3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d2v			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d2v				

1urrogate	_ 5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	400		66 - 49P
d-Bromofluorobenzene (1urr)	409		P9 - 420
Toluene-D8 (1urr)	400		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d
Client Matril : Water

p ate 1amLleD: 44x48x204d 0v06
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968vP3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d2v			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d2v				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/ p ate 1amLleD: 44x48x204d 494/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v83p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d/ 4			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d/ 4				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	Np		930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/ p ate 1amLleD: 44x48x204d 494/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/ 46	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v83p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d/ 4			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d/ 4				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/

Client Matril: Water

p ate 1amLleD: 44x48x204d 494/

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/46	Snstrument Sp:	GH/vP9V
HreL MetFoD:	/090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v83p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d/4			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d/4				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-piRFloroetFane-Dd (1urr)	409		66 - 49P
d-Bromofluorobenzene (1urr)	402		P9 - 420
Toluene-D8 (1urr)	vv		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/

Client Matril: Water

p ate 1amLleD: 44x48x204d 494/

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-246/46	Snstrument Sp:	GH/vP9V
HreL MetFoD:	/090C	HreL BatRF:	NxA	7ab . ile Sp:	V968v83p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x04x204d 4d/4			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x04x204d 4d/4				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6 p ate 1amLleD: 44x48x204d 44d/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v283p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 42d2			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 42d2				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	93d	J	930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6

Client Matril: Water

p ate 1amLleD: 44x48x204d 44d/

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v283p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 42d2			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 42d2				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6
Client Matril: Water

p ate 1amLleD: 44x48x204d 44d/
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v283p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 42d2			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 42d2				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	402		66 - 49P
d-Bromofluorobenzene (1urr)	40d		P9 - 420
Toluene-D8 (1urr)	402		P4 - 426

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6
Client Matril : Water

p ate 1amLleD: 44x48x204d 44d/
p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v283p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 42d2			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 42d2				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **TRIP BLANK**

7ab 1amLle Sp: 280-62688-PTB

Client Matril: Water

p ate 1amLleD: 44x48x204d 0000

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v2v3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 490/			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 490/				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
4,4,4,2-TetraRFloroetFane	Np		039/	430
4,4,4-TriRFloroetFane	Np		0382	430
4,4,2,2-TetraRFloroetFane	Np		0324	430
4,4,2-TriRFloro-4,2,2-trifluoroetFane	Np		0394	430
4,4,2-TriRFloroetFane	Np		0329	430
4,4-p iRFloroetFane	Np		0398	430
4,4-p iRFloroetFene	Np		032v	430
4,4-p iRFloroLroLene	Np		03P2	430
4,2,9-TriRFlorobenzene	Np		03d4	430
4,2,9-TriRFloroLroLane	Np		038v	430
4,2,d-TriRFlorobenzene	Np		03d4	430
4,2,d-TrimetFylbenzene	Np		03P/	430
4,2-p ibromo-9-CFloroLroLane	Np		039v	430
4,2-p ibromoetFane (Ep B)	Np		03P9	430
4,2-p iRFlorobenzene	Np		03Pv	430
4,2-p iRFloroetFane	Np		0324	430
4,2-p iRFloroetFene, Total	Np		0384	230
4,2-p iRFloroLroLane	Np		03P2	430
4,9,/ -TriRFlorobenzene	Np		0329	430
4,9,/ -TrimetFylbenzene	Np		03PP	430
4,9-p iRFlorobenzene	Np		03P8	430
4,9-p iRFloroLroLane	Np		03P/	430
4,d-p iRFlorobenzene	Np		038d	430
4,d-p iol ane	Np		v39	d0
2,2-p iRFloroLroLane	Np		03d0	430
2-Butanone (MEK)	Np		439	40
2-CFloroetFyl cinyl etFer	Np		03v6	/ 30
2-Gel anone	Np		432	/ 30
d-MetFyl-2-Lentanone (MSBK)	Np		234	/ 30
ARetone	/ 38	J	930	40
ARetonitrile	Np		d3v	4/
ARrolein	Np		03v4	20
ARrylonitrile	Np		0389	/ 30
Benzene	Np		03d4	430
Bromobenzene	Np		0380	430
BromoRFlorometFane	Np		038P	430
BromoDiRFlorometFane	Np		039v	430
Bromoform	Np		0326	430
BromometFane	Np		036v	430
Butyl alRoFol, n-	Np		83v	d0
Butyl alRoFol, tert-	Np		939	40
Carbon DisulfiDe	Np		034v	430
Carbon tetraRFloriDe	Np		032P	430
CFlorobenzene	Np		03P/	430
CFloroDifluorometFane	Np		0326	430
CFloroetFane	Np		0392	430

Client Sample ID: **TRIP BLANK**

7ab 1amLle Sp: 280-62688-PTB p ate 1amLleD: 44x48x204d 0000
Client Matril: Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v2v3p
p ilution:	430			Shitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 490/			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 490/				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
CFloroform	Np		039d	430
CFlorometFane	Np		039/	430
Rs-4,2-p iRFloroetFene	Np		0384	430
Rs-4,9-p iRFloroLroLene	Np		0396	430
CyRoFeI ane	Np		0348	430
p ibromoRFlorometFane	Np		0392	430
p ibromometFane	Np		03d4	430
p iRFloroDifluorometFane	Np		0368	430
p iRFlorofluorometFane	Np		039d	430
EtFyl aRetate	Np		0366	430
EtFyl etFer	Np		03P2	430
EtFyl tert-butyl etFer	Np		032v	430
EtFylbenzene	Np		03Pd	430
GeI aRFlorobutaDiene	Np		0328	430
GeI ane	Np		03d0	40
SbDometFane	Np		0390	430
Ssobutanol	Np		d38	2/
SsoLroLyl etFer	Np		03' v	430
SsoLroLylbenzene	Np		03Pv	430
MetFaRylonitrile	Np		036v	/ 30
MetFyl aRetate	Np		03' 0	23'
MetFyl tert-butyl etFer	Np		0346	430
MetFylRyRoFeI ane	Np		0346	430
MetFylene CFloriDe	Np		03dd	430
m-Xylene & L-Xylene	Np		0366	230
NaLFtFalene	Np		03d9	430
n-Butylbenzene	Np		036d	430
N-HroLylbenzene	Np		036v	430
o-CFlorotoluene	Np		0386	430
o-Xylene	Np		03P6	430
L-CFlorotoluene	Np		038d	430
L-Cymene	Np		0394	430
seR-Butylbenzene	Np		03P/	430
1tyrene	Np		03P9	430
Tert-amyl metFyl etFer	Np		032P	430
tert-Butylbenzene	Np		0384	430
TetraRFloroetFene	Np		0396	430
TetraFyDrofuran	Np		439	/ 30
Toluene	Np		03' 4	430
trans-4,2-p iRFloroetFene	Np		03v0	430
trans-4,9-p iRFloroLroLene	Np		039P	430
trans-4,d-p iRFloro-2-butene	Np		0322	430
TriRFloroetFene	Np		03d6	430
TriRFlorofluorometFane	Np		0388	430
hinyl aRetate	Np	%	038/	/ 30
hinyl RFloriDe	Np		03v0	430

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **TRIP BLANK**

7ab 1amLle Sp: 280-62688-PTB

Client Matril: Water

p ate 1amLleD: 44x48x204d 0000

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v2v3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 490/			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 490/				

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
4,2-p iRFloroetFane-Dd (1urr)	404		66 - 49P
d-Bromofluorobenzene (1urr)	40/		P9 - 420
Toluene-D8 (1urr)	40d		P4 - 426

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **TRIP BLANK**

7ab 1amLle Sp: 280-62688-PTB

Client Matril: Water

p ate 1amLleD: 44x48x204d 0000

p ate 5eReiceD: 44x4vx204d 0vd/

8260C Volatile Organic Compounds by GC/MS

Analysis MetFoD:	8260C	Analysis BatRF:	d80-2466v/	Snstrument Sp:	GH/ vP9V
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	V96v2v3p
p ilution:	430			Snitial WeigFtxh olume:	/ m7
Analysis p ate:	42x02x204d 490/			. inal WeigFtxh olume:	/ m7
HreL p ate:	42x02x204d 490/				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est35 esult (ugx7)	Qualifier
6P-P2-4	GeI aRFloroetFane TSC	Np	

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4 p ate 1amLleD: 44x48x204d 4d/ /
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SIM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4d23p
p ilution:	430			Shitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 0d90			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 0d90				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	03082		03d0d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
pibromofluorometFane (1urr)	v8		/ 0 - 4/ 0
TBA-Dv (1urr)	424		/ 0 - 4/ 0

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2
Client Matril: Water

p ate 1amLleD: 44x48x204d 4d02
p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SIM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4d93p
p ilution:	430			Shitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 0d/ d			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 0d/ d				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	Np		0300d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
pibromofluorometFane (1urr)	v6		/ 0 - 4/ 0
TBA-Dv (1urr)	44/		/ 0 - 4/ 0

Client: Waste Management Job Number: 280-62688-4

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9 p ate 1amLleD: 44x48x204d 400/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SIM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4dd3p
p ilution:	430			Shitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 0/ 48			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 0/ 48				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	Np		0300d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
p ibromofluorometFane (1urr)	v8		/ 0 - 4/ 0
TBA-Dv (1urr)	44/		/ 0 - 4/ 0

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d
Client Matril: Water

p ate 1amLleD: 44x48x204d 0v06
p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4d/ 3p
p ilution:	430			Shitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 0/ d9			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 0/ d9				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	Np		0300d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
pibromofluorometFane (1urr)	v9		/ 0 - 4/ 0
TBA-Dv (1urr)	440		/ 0 - 4/ 0

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/

Client Matril: Water

p ate 1amLleD: 44x48x204d 494/

p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SIM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4d63p
p ilution:	430			Shitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 060P			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 060P				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	Np		0300d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
pibromofluorometFane (1urr)	vP		/ 0 - 4/ 0
TBA-Dv (1urr)	44P		/ 0 - 4/ 0

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6
Client Matril: Water

p ate 1amLleD: 44x48x204d 44d/
p ate 5eReiceD: 44x4vx204d 0vd/

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFoD:	8260C 1SIM	Analysis BatRF:	d80-24/ P69	Snstrument Sp:	GH/ vP9J
HreL MetFoD:	/ 090C	HreL BatRF:	NxA	7ab . ile Sp:	Jd4dP3p
p ilution:	430			Snitial WeigFtxh olume:	2/ m7
Analysis p ate:	44x2/ x204d 0694			. inal WeigFtxh olume:	2/ m7
HreL p ate:	44x2/ x204d 0694				

Analyte	5esult (ugx7)	Qualifier	Mp7	57
hinyl RFloriDe	030082	J	03000d0	03020

1urrogate	_5eR	Qualifier	ARReLtanRe 7imits
pibromofluorometFane (1urr)	v8		/ 0 - 4/ 0
TBA-Dv (1urr)	40P		/ 0 - 4/ 0

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4 p ate 1amLleD: 44x48x204d 4d/ /
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / 260 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P9 7ab . ile Sp: 26D44904d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x04x204d 0994 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	030090		030090	030090
Snon, Total	92		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / / vv Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26F42024d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 4249 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	dd		030d0	030d0
Cobalt, p issolceD	0300PP		030090	030090
Snon, p issolceD	2P		03060	03060
Magnesium, p issolceD	4P		030/ 0	030/ 0
Hotassium, p issolceD	832		430	430

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / P4v Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26C42094d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 20/ / . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	20		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD: 6020 Analysis BatRF: 280-2/ d/ d6 Snstrument Sp: MTk02d
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P/ 7ab . ile Sp: 0/ 91MH73p
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 44x24x204d 4v/ v . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	0349		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		030020	030020
CFromium, Total	Np		030090	030090
CoLLer, Total	Np		030020	030020

Client Sample ID: **MW-42**

7ab 1amLle Sp: 280-62688-4 p ate 1amLleD: 44x48x204d 4d/ /
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		030040	030040
Manganese, Total	/ 34		030040	030040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		030040	030040
1ilcer, Total	Np		030020	030020
TFallium, Total	Np		030040	030040
hanaDium, Total	030098		030020	030020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ dP94	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	08d1MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x2dx204d 229/			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	Np		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0dv1MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x20x204d 4v09			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, p issolceD	Np		030040	030040
Barium, p issolceD	0342		030040	030040
Beryllium, p issolceD	Np		030040	030040
CaDmium, p issolceD	Np		030020	030020
CFromium, p issolceD	Np		030090	030090
CoLLer, p issolceD	Np		030020	030020
7eaD, p issolceD	Np		030040	030040
Manganese, p issolceD	/ 30		030040	030040
NiRZel, p issolceD	Np		0300d0	0300d0
1elenium, p issolceD	Np		030040	030040
1ilcer, p issolceD	Np		030020	030020
TFallium, p issolceD	Np		030040	030040
hanaDium, p issolceD	Np		030020	030020
UinR, p issolceD	Np		0300/ 0	0300/ 0

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2 p ate 1amLleD: 44x48x204d 4d02
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / 260 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P9 7ab . ile Sp: 26D44904d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x04x204d 099d . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	Np		030090	030090
Son, Total	d3P		030060	030060

6010B Metals (ICP)-Dissolved

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / / v8 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26g42024d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 08/ 9 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	63		030d0	030d0
Cobalt, p issolceD	Np		030090	030090
Son, p issolceD	93P		030060	030060
Magnesium, p issolceD	93P		030/ 0	030/ 0
Hotassium, p issolceD	Np		430	430

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / P4v Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26C42094d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 20/ P . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	934		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD: 6020 Analysis BatRF: 280-2/ d/ d6 Snstrument Sp: MTk02d
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P/ 7ab . ile Sp: 0/ d1MH73p
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 44x24x204d 2002 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	030040		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		0300020	0300020
CFromium, Total	Np		030090	030090
CoLLer, Total	Np		030020	030020

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2 p ate 1amLleD: 44x48x204d 4d02
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		030040	030040
Manganese, Total	439		030040	030040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		030040	030040
1ilcer, Total	Np		030020	030020
TFallium, Total	Np		030040	030040
hanaDium, Total	Np		030020	030020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ dP94	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	08/ 1MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x2dx204d 2298			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	Np		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0/ 01MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x20x204d 4v06			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, p issolceD	Np		030040	030040
Barium, p issolceD	0300vd		030040	030040
Beryllium, p issolceD	Np		030040	030040
CaDmium, p issolceD	Np		0300020	0300020
CFromium, p issolceD	Np		030090	030090
CoLLer, p issolceD	Np		030020	030020
7eaD, p issolceD	Np		030040	030040
Manganese, p issolceD	439		030040	030040
NiRZel, p issolceD	Np		0300d0	0300d0
1elenium, p issolceD	Np		030040	030040
1ilcer, p issolceD	Np		030020	030020
TFallium, p issolceD	Np		030040	030040
hanaDium, p issolceD	Np		030020	030020
UinR, p issolceD	Np		0300/ 0	0300/ 0

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9 p ate 1amLleD: 44x48x204d 400/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / 260 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P9 7ab . ile Sp: 26D44904d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x04x204d 099P . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	0300P6		030090	030090
Son, Total	92		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / / v8 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26g42024d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 08/ / . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	44		030d0	030d0
Cobalt, p issolceD	03006/		030090	030090
Son, p issolceD	2v		03060	03060
Magnesium, p issolceD	63		030/ 0	030/ 0
Hotassium, p issolceD	Np		430	430

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / P4v Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26C42094d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 2400 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	63v		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD: 6020 Analysis BatRF: 280-2/ d/ d6 Snstrument Sp: MTk02d
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P/ 7ab . ile Sp: 0/ / 1MH73p
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 44x24x204d 200/ . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	03024		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		030020	030020
CFromium, Total	Np		030090	030090
CoLLer, Total	Np		030020	030020

Client: Waste Management Job Number: 280-62688-4

Client Sample ID: **MW-39**

7ab 1amLle Sp: 280-62688-9 p ate 1amLleD: 44x48x204d 400/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		030040	030040
Manganese, Total	031dv		030040	030040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		030040	030040
1ilcer, Total	Np		030020	030020
TFallium, Total	Np		030040	030040
hanaDium, Total	Np		030020	030020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ dP94	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	0861MH73p
pilution:	430			Snitial WeigFtxholume:	/ 0 m7
Analysis pate:	44x2dx204d 22d4			. inal WeigFtxholume:	/ 0 m7
HreL pate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	Np		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0/ 41MH73p
pilution:	430			Snitial WeigFtxholume:	/ 0 m7
Analysis pate:	44x20x204d 4v0v			. inal WeigFtxholume:	/ 0 m7
HreL pate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, pissolceD	Np		030040	030040
Barium, pissolceD	03049		030040	030040
Beryllium, pissolceD	Np		030040	030040
CaDmium, pissolceD	Np		030020	030020
CFromium, pissolceD	Np		030090	030090
CoLLer, pissolceD	Np		030020	030020
7eaD, pissolceD	Np		030040	030040
Manganese, pissolceD	031dv		030040	030040
NiRZel, pissolceD	Np		0300d0	0300d0
1elenium, pissolceD	Np		030040	030040
1ilcer, pissolceD	Np		030020	030020
TFallium, pissolceD	Np		030040	030040
hanaDium, pissolceD	Np		030020	030020
UinR, pissolceD	Np		0300/ 0	0300/ 0

Client: Waste Management Job Number: 280-62688-4

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d p ate 1amLleD: 44x48x204d 0v06
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / 260 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P9 7ab . ile Sp: 26D44904d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x04x204d 099v . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	Np		030090	030090
Son, Total	0348		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / / v8 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26g42024d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 08/ 8 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	44		030d0	030d0
Cobalt, p issolceD	Np		030090	030090
Son, p issolceD	Np		03060	03060
Magnesium, p issolceD	63d		030/ 0	030/ 0
Hotassium, p issolceD	Np		430	430

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / P4v Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26C42094d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 2409 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	d38		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD: 6020 Analysis BatRF: 280-2/ d/ d6 Snstrument Sp: MTk02d
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P/ 7ab . ile Sp: 0/ 61MH73p
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 44x24x204d 2008 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	03009v		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		0300020	0300020
CFromium, Total	0300PP		030090	030090
CoLLer, Total	Np		030020	030020

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d p ate 1amLleD: 44x48x204d 0v06
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		030040	030040
Manganese, Total	03092		030040	030040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		030040	030040
1ilcer, Total	Np		030020	030020
TFallium, Total	Np		030040	030040
hanaDium, Total	0300d0		030020	030020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ 698P	Snstrument Sp:	MTk0PP
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 626d	7ab . ile Sp:	2401MH73D
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	42x0vx204d 049/			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	42x08x204d 4990				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	Np		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0/ 21MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x20x204d 4v42			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, p issolceD	Np		030040	030040
Barium, p issolceD	03009P		030040	030040
Beryllium, p issolceD	Np		030040	030040
CaDmium, p issolceD	Np		030020	030020
CFromium, p issolceD	0300Pd		030090	030090
CoLLer, p issolceD	Np		030020	030020
7eaD, p issolceD	Np		030040	030040
Manganese, p issolceD	03042		030040	030040
NiRZel, p issolceD	Np		0300d0	0300d0
1elenium, p issolceD	Np		030040	030040
1ilcer, p issolceD	Np		030020	030020
TFallium, p issolceD	Np		030040	030040
hanaDium, p issolceD	03009/		030020	030020
UinR, p issolceD	Np		0300/ 0	0300/ 0

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/
Client Matril: Water

p ate 1amLleD: 44x48x204d 494/
p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD:	6040B	Analysis BatRF:	280-2/ / 260	Snstrument Sp:	MTk026
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P9	7ab . ile Sp:	26D44904d3asR
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	42x04x204d 09d2			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	Np		030090	030090
Snon, Total	43P		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFoD:	6040B	Analysis BatRF:	280-2/ / / v8	Snstrument Sp:	MTk026
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 9866	7ab . ile Sp:	26g42024d3asR
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	42x09x204d 0v04			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	d3d		030d0	030d0
Cobalt, p issolceD	Np		030090	030090
Snon, p issolceD	03P0		03060	03060
Magnesium, p issolceD	438		030/ 0	030/ 0
Hotassium, p issolceD	Np		430	430

Analysis MetFoD:	6040B	Analysis BatRF:	280-2/ / P4v	Snstrument Sp:	MTk026
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 9866	7ab . ile Sp:	26C42094d3asR
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	42x09x204d 240/			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	238		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d/ d6	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	0/ P1MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x24x204d 2044			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	030066		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		0300020	0300020
CFromium, Total	Np		030090	030090
CoLLer, Total	Np		030020	030020

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/ p ate 1amLleD: 44x48x204d 494/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		030040	030040
Manganese, Total	0326		030040	030040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		030040	030040
1ilcer, Total	Np		030020	030020
TFallium, Total	Np		030040	030040
hanaDium, Total	Np		030020	030020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ dP94	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	0881MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x2dx204d 22d8			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	Np		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0/ 91MH73p
p ilution:	430			Snitial WeigFtxh olume:	/ 0 m7
Analysis p ate:	44x20x204d 4v4/			. inal WeigFtxh olume:	/ 0 m7
HreL p ate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, p issolceD	Np		030040	030040
Barium, p issolceD	0300/ 8		030040	030040
Beryllium, p issolceD	Np		030040	030040
CaDmium, p issolceD	Np		030020	030020
CFromium, p issolceD	Np		030090	030090
CoLLer, p issolceD	Np		030020	030020
7eaD, p issolceD	Np		030040	030040
Manganese, p issolceD	032d		030040	030040
NiRZel, p issolceD	Np		0300d0	0300d0
1elenium, p issolceD	Np		030040	030040
1ilcer, p issolceD	Np		030020	030020
TFallium, p issolceD	Np		030040	030040
hanaDium, p issolceD	Np		030020	030020
UinR, p issolceD	Np		0300/ 0	0300/ 0

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6 p ate 1amLleD: 44x48x204d 44d/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

6010B Metals (ICP)-Total Recoverable

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / 260 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P9 7ab . ile Sp: 26D44904d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x04x204d 09/ / . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Cobalt, Total	Np		030090	030090
Son, Total	03v4		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / / v8 Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26g42024d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 0v09 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
CalRum, p issolceD	20		030d0	030d0
Cobalt, p issolceD	Np		030090	030090
Son, p issolceD	03d6		03060	03060
Magnesium, p issolceD	v32		030/ 0	030/ 0
Hotassium, p issolceD	434		430	430

Analysis MetFoD: 6040B Analysis BatRF: 280-2/ / P4v Snstrument Sp: MTk026
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 9866 7ab . ile Sp: 26C42094d3asR
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 42x09x204d 2408 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 084/

Analyte	5esult (mgx7)	Qualifier	57	57
1oDium, p issolceD	/ 34		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFoD: 6020 Analysis BatRF: 280-2/ d/ d6 Snstrument Sp: MTk02d
HreL MetFoD: 900/ A HreL BatRF: 280-2/ 98P/ 7ab . ile Sp: 060A5E. 3p
p ilution: 430 Snitial WeigFtxh olume: / 0 m7
Analysis p ate: 44x24x204d 2024 . inal WeigFtxh olume: / 0 m7
HreL p ate: 44x20x204d 4d00

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, Total	Np		030040	030040
Barium, Total	0304d		030040	030040
Beryllium, Total	Np		030040	030040
CaDmium, Total	Np		030020	030020
CFromium, Total	Np		030090	030090
CoLLer, Total	Np		030020	030020

Client: Waste Management

Job Number: 280-62688-4

Client Sample ID: **MW-23A**

7ab 1amLle Sp: 280-62688-6
Client Matril: Water

p ate 1amLleD: 44x48x204d 44d/
p ate 5eReiceD: 44x4vx204d 0vd/

6020 Metals (ICP/MS)-Total Recoverable

Analyte	5esult (mgx7)	Qualifier	57	57
7eaD, Total	Np		03040	03040
Manganese, Total	232		03040	03040
NiRZel, Total	Np		0300d0	0300d0
1elenium, Total	Np		03040	03040
1ilcer, Total	Np		03020	03020
TFallium, Total	Np		03040	03040
hanaDium, Total	Np		03020	03020

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ dP94	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 98P/	7ab . ile Sp:	0v4A5E. 3p
pilution:	430			Snitial WeigFtxholume:	/ 0 m7
Analysis pate:	44x2dx204d 22/ P			. inal WeigFtxholume:	/ 0 m7
HreL pate:	44x20x204d 4d00				

Analyte	5esult (mgx7)	Qualifier	57	57
UinR, Total	0300/ 9		0300/ 0	0300/ 0

6020 Metals (ICP/MS)-Dissolved

Analysis MetFoD:	6020	Analysis BatRF:	280-2/ d299	Snstrument Sp:	MTk02d
HreL MetFoD:	900/ A	HreL BatRF:	280-2/ 986P	7ab . ile Sp:	0/ 6A5E. 3p
pilution:	430			Snitial WeigFtxholume:	/ 0 m7
Analysis pate:	44x20x204d 4v2d			. inal WeigFtxholume:	/ 0 m7
HreL pate:	44x20x204d 084/				

Analyte	5esult (mgx7)	Qualifier	57	57
Antimony, pissolceD	Np		03040	03040
Barium, pissolceD	0349		03040	03040
Beryllium, pissolceD	Np		03040	03040
CaDmium, pissolceD	Np		0300020	0300020
CFromium, pissolceD	Np		03090	03090
CoLLer, pissolceD	Np		03020	03020
7eaD, pissolceD	Np		03040	03040
Manganese, pissolceD	234		03040	03040
NiRZel, pissolceD	Np		0300d0	0300d0
1elenium, pissolceD	Np		03040	03040
1ilcer, pissolceD	Np		03020	03020
TFallium, pissolceD	Np		03040	03040
hanaDium, pissolceD	Np		03020	03020
UinR, pissolceD	0342		0300/ 0	0300/ 0

General Chemistry

Client Sample ID: **MW-42**

7ab 1amLIe Sp: 280-62688-4
Client Matril: Water

pate 1amLIeD: 44x48x204d 4d/ /
pate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	* nits	57	57	pil	MetFoD
CFloriDe	4v		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x26x204d 2292						
1ulfate	44		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x26x204d 2292						
Ammonia (as N)	639		mgx7	03060	03060	230	9/ 034
Analysis BatRF: 280-2/ d428	Analysis pate: 44x20x204d 4922						
Nitrate as N	Np		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis pate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	290		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 4606						
AlZalinity, BiRarbonate (As CaCO9)	290		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 4606						
Total pissolceD 1oliDs (Tp 1)	940		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis pate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	4P0		mgx7	40	40	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis pate: 44x20x204d 4P00						
Total OraniRCarbon - Acerage	P3v		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis pate: 44x20x204d 222v						

General Chemistry

Client Sample ID: **MW-29A**

7ab 1amLle Sp: 280-62688-2 p ate 1amLleD: 44x48x204d 4d02
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	* nits	57	57	pil	MetFoD
CFloriDe	232		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x26x204d 22/ 2						
1ulfate	43d		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x26x204d 22/ 2						
Ammonia (as N)	030Pd		mgx7	03090	03090	430	9/ 034
Analysis BatRF: 280-2/ d428	Analysis p ate: 44x20x204d 492d						
Nitrate as N	Np		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis p ate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	d4		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4644						
AlZalinity, BiRarbonate (As CaCO9)	d4		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4644						
Total p issolceD 1oliDs (Tp 1)	P2		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis p ate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	Np		mgx7	d30	d30	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis p ate: 44x20x204d 4P00						
Total OrganiRCarbon - Acerage	43d		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis p ate: 44x20x204d 2946						

General Chemistry

Client Sample ID: **MW-39**

7ab 1amLIe Sp: 280-62688-9
Client Matril: Water

pate 1amLIeD: 44x48x204d 400/
pate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	*nits	57	57	pil	MetFoD
CFloriDe	23P		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x26x204d 2944						
1ulfate	432		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x26x204d 2944						
Ammonia (as N)	0390		mgx7	03090	03090	430	9/ 034
Analysis BatRF: 280-2/ d428	Analysis pate: 44x20x204d 4926						
Nitrate as N	034v		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis pate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	v8		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 464/						
AlZalinity, BiRarbonate (As CaCO9)	v8		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 464/						
Total pissolceD 1oliDs (Tp 1)	490		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis pate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	Np		mgx7	d30	d30	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis pate: 44x20x204d 4P00						
Total OrganiRCarbon - Acerage	23d		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis pate: 44x20x204d 2992						

General Chemistry

Client Sample ID: **MW-16**

7ab 1amLle Sp: 280-62688-d
Client Matril: Water

pate 1amLleD: 44x48x204d 0v06
pate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	* nits	57	57	pil	MetFoD
CFloriDe	43		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x2Px204d 0044						
1ulfate	939		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis pate: 44x2Px204d 0044						
Ammonia (as N)	Np		mgx7	03090	03090	430	9/ 034
Analysis BatRF: 280-2/ d428	Analysis pate: 44x20x204d 499d						
Nitrate as N	0328		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis pate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	/ P		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 464v						
AlZalinity, BiRarbonate (As CaCO9)	/ P		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis pate: 44x24x204d 464v						
Total pissolceD 1oliDs (Tp 1)	400		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis pate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	Np		mgx7	d30	d30	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis pate: 44x20x204d 4P00						
Total OrganiRCarbon - Acerage	Np		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis pate: 44x20x204d 29dP						

General Chemistry

Client Sample ID: **MW-43**

7ab 1amLle Sp: 280-62688-/ p ate 1amLleD: 44x48x204d 494/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	* nits	57	57	pil	MetFoD
CFloriDe	43		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x2Px204d 0094						
1ulfate	234		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x2Px204d 0094						
Ammonia (as N)	0342		mgx7	03090	03090	430	9/ 034
Analysis BatRF: 280-2/ d428	Analysis p ate: 44x20x204d 49/ 0						
Nitrate as N	0384		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis p ate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	24		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4629						
AlZalinity, BiRarbonate (As CaCO9)	24		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4629						
Total p issolceD 1oliDs (Tp 1)	/ 0		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis p ate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	d3d		mgx7	d30	d30	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis p ate: 44x20x204d 4P00						
Total OrganiRCarbon - Acerage	439		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis p ate: 44x24x204d 000d						

General Chemistry

Client Sample ID: **MW-23A**

7ab 1amLIe Sp: 280-62688-6 p ate 1amLIeD: 44x48x204d 44d/
Client Matril : Water p ate 5eReiceD: 44x4vx204d 0vd/

Analyte	5esult	Qual	* nits	57	57	pil	MetFoD
CFloriDe	23P		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x2Px204d 00/ 4						
1ulfate	d32		mgx7	430	430	430	90030
Analysis BatRF: 280-2/ dv0/	Analysis p ate: 44x2Px204d 00/ 4						
Ammonia (as N)	0309/		mgx7	03090	03090	430	9/ 034
Analysis BatRF: 280-2/ d428	Analysis p ate: 44x20x204d 49/ 2						
Nitrate as N	Np		mgx7	030/ 0	030/ 0	430	9/ 932
Analysis BatRF: 280-2/ / 0vv	Analysis p ate: 44x28x204d 0v/ P						
AlZalinity, Total (As CaCO9)	vd		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4628						
AlZalinity, BiRarbonate (As CaCO9)	vd		mgx7	/ 30	/ 30	430	1M 2920B
Analysis BatRF: 280-2/ d/ 09	Analysis p ate: 44x24x204d 4628						
Total p issolceD 1oliDs (Tp 1)	4d0		mgx7	/ 30	/ 30	430	1M 2/ d0C
Analysis BatRF: 280-2/ d0dP	Analysis p ate: 44x20x204d 4d24						
Total 1usLenDeD 1oliDs	d30		mgx7	d30	d30	430	1M 2/ d0p
Analysis BatRF: 280-2/ d408	Analysis p ate: 44x20x204d 4P00						
Total OrganiRCarbon - Acerage	Np		mgx7	430	430	430	1M / 940B
Analysis BatRF: 280-2/ d298	Analysis p ate: 44x24x204d 0024						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-62688-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F3	Duplicate RPD exceeds the control limit
	F1	MS and/or MSD Recovery exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-215763					
LCS 480-215763/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-215763/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-215763/7	Method Blank	T	Water	8260C SIM	
280-62688-1	MW-42	T	Water	8260C SIM	
280-62688-2	MW-29A	T	Water	8260C SIM	
280-62688-3	MW-39	T	Water	8260C SIM	
280-62688-4	MW-16	T	Water	8260C SIM	
280-62688-5	MW-43	T	Water	8260C SIM	
280-62688-6	MW-23A	T	Water	8260C SIM	
Analysis Batch:480-216516					
LCS 480-216516/39	Lab Control Sample	T	Water	8260C	
MB 480-216516/7	Method Blank	T	Water	8260C	
280-62688-1	MW-42	T	Water	8260C	
280-62688-2	MW-29A	T	Water	8260C	
280-62688-3	MW-39	T	Water	8260C	
280-62688-4	MW-16	T	Water	8260C	
280-62688-5	MW-43	T	Water	8260C	
480-71963-B-2 MS	Matrix Spike	T	Water	8260C	
480-71963-B-2 MSD	Matrix Spike Duplicate	T	Water	8260C	
Analysis Batch:480-216695					
LCS 480-216695/8	Lab Control Sample	T	Water	8260C	
MB 480-216695/11	Method Blank	T	Water	8260C	
280-62688-6	MW-23A	T	Water	8260C	
280-62688-7TB	TRIP BLANK	T	Water	8260C	
480-71779-F-7 MS	Matrix Spike	T	Water	8260C	
480-71779-F-7 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-253866					
LCS 280-253866/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253866/1-A	Method Blank	R	Water	3005A	
280-62682-H-2-B MS	Matrix Spike	D	Water	3005A	
280-62682-H-2-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62688-1	MW-42	D	Water	3005A	
280-62688-2	MW-29A	D	Water	3005A	
280-62688-3	MW-39	D	Water	3005A	
280-62688-4	MW-16	D	Water	3005A	
280-62688-5	MW-43	D	Water	3005A	
280-62688-6	MW-23A	D	Water	3005A	
Prep Batch: 280-253867					
LCS 280-253867/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253867/1-A	Method Blank	R	Water	3005A	
280-62688-1	MW-42	D	Water	3005A	
280-62688-2	MW-29A	D	Water	3005A	
280-62688-3	MW-39	D	Water	3005A	
280-62688-4	MW-16	D	Water	3005A	
280-62688-5	MW-43	D	Water	3005A	
280-62688-6	MW-23A	D	Water	3005A	
280-62688-6MS	Matrix Spike	D	Water	3005A	
280-62688-6MSD	Matrix Spike Duplicate	D	Water	3005A	
Prep Batch: 280-253873					
LCS 280-253873/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253873/1-A	Method Blank	R	Water	3005A	
280-62687-D-1-B MS	Matrix Spike	R	Water	3005A	
280-62687-D-1-C MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62688-1	MW-42	R	Water	3005A	
280-62688-2	MW-29A	R	Water	3005A	
280-62688-3	MW-39	R	Water	3005A	
280-62688-4	MW-16	R	Water	3005A	
280-62688-5	MW-43	R	Water	3005A	
280-62688-6	MW-23A	R	Water	3005A	

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-253875					
LCS 280-253875/2-A	Lab Control Sample	R	Water	3005A	
MB 280-253875/1-A	Method Blank	R	Water	3005A	
280-62688-1	MW-42	R	Water	3005A	
280-62688-2	MW-29A	R	Water	3005A	
280-62688-3	MW-39	R	Water	3005A	
280-62688-4	MW-16	R	Water	3005A	
280-62688-5	MW-43	R	Water	3005A	
280-62688-6	MW-23A	R	Water	3005A	
280-62688-6MS	Matrix Spike	R	Water	3005A	
280-62688-6MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-254233					
LCS 280-253867/2-A	Lab Control Sample	R	Water	6020	280-253867
MB 280-253867/1-A	Method Blank	R	Water	6020	280-253867
280-62688-1	MW-42	D	Water	6020	280-253867
280-62688-2	MW-29A	D	Water	6020	280-253867
280-62688-3	MW-39	D	Water	6020	280-253867
280-62688-4	MW-16	D	Water	6020	280-253867
280-62688-5	MW-43	D	Water	6020	280-253867
280-62688-6	MW-23A	D	Water	6020	280-253867
280-62688-6MS	Matrix Spike	D	Water	6020	280-253867
280-62688-6MSD	Matrix Spike Duplicate	D	Water	6020	280-253867
Analysis Batch:280-254546					
LCS 280-253875/2-A	Lab Control Sample	R	Water	6020	280-253875
MB 280-253875/1-A	Method Blank	R	Water	6020	280-253875
280-62688-1	MW-42	R	Water	6020	280-253875
280-62688-2	MW-29A	R	Water	6020	280-253875
280-62688-3	MW-39	R	Water	6020	280-253875
280-62688-4	MW-16	R	Water	6020	280-253875
280-62688-5	MW-43	R	Water	6020	280-253875
280-62688-6	MW-23A	R	Water	6020	280-253875
280-62688-6MS	Matrix Spike	R	Water	6020	280-253875
280-62688-6MSD	Matrix Spike Duplicate	R	Water	6020	280-253875

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-254731					
LCS 280-253875/2-A	Lab Control Sample	R	Water	6020	280-253875
MB 280-253875/1-A	Method Blank	R	Water	6020	280-253875
280-62688-1	MW-42	R	Water	6020	280-253875
280-62688-2	MW-29A	R	Water	6020	280-253875
280-62688-3	MW-39	R	Water	6020	280-253875
280-62688-4	MW-16	R	Water	6020	280-253875
280-62688-5	MW-43	R	Water	6020	280-253875
280-62688-6	MW-23A	R	Water	6020	280-253875
280-62688-6MS	Matrix Spike	R	Water	6020	280-253875
280-62688-6MSD	Matrix Spike Duplicate	R	Water	6020	280-253875
Analysis Batch:280-255260					
LCS 280-253873/2-A	Lab Control Sample	R	Water	6010B	280-253873
MB 280-253873/1-A	Method Blank	R	Water	6010B	280-253873
280-62687-D-1-B MS	Matrix Spike	R	Water	6010B	280-253873
280-62687-D-1-C MSD	Matrix Spike Duplicate	R	Water	6010B	280-253873
280-62688-1	MW-42	R	Water	6010B	280-253873
280-62688-2	MW-29A	R	Water	6010B	280-253873
280-62688-3	MW-39	R	Water	6010B	280-253873
280-62688-4	MW-16	R	Water	6010B	280-253873
280-62688-5	MW-43	R	Water	6010B	280-253873
280-62688-6	MW-23A	R	Water	6010B	280-253873
Analysis Batch:280-255598					
LCS 280-253866/2-A	Lab Control Sample	R	Water	6010B	280-253866
MB 280-253866/1-A	Method Blank	R	Water	6010B	280-253866
280-62682-H-2-B MS	Matrix Spike	D	Water	6010B	280-253866
280-62682-H-2-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-253866
280-62688-1	MW-42	D	Water	6010B	280-253866
280-62688-2	MW-29A	D	Water	6010B	280-253866
280-62688-3	MW-39	D	Water	6010B	280-253866
280-62688-4	MW-16	D	Water	6010B	280-253866
280-62688-5	MW-43	D	Water	6010B	280-253866
280-62688-6	MW-23A	D	Water	6010B	280-253866
Analysis Batch:280-255599					
280-62688-1	MW-42	D	Water	6010B	280-253866
Analysis Batch:280-255719					
280-62688-1	MW-42	D	Water	6010B	280-253866
280-62688-2	MW-29A	D	Water	6010B	280-253866
280-62688-3	MW-39	D	Water	6010B	280-253866
280-62688-4	MW-16	D	Water	6010B	280-253866
280-62688-5	MW-43	D	Water	6010B	280-253866
280-62688-6	MW-23A	D	Water	6010B	280-253866

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-256264					
LCS 280-256264/2-A	Lab Control Sample	R	Water	3005A	
MB 280-256264/1-A	Method Blank	R	Water	3005A	
280-62688-4	MW-16	R	Water	3005A	
280-62688-4MS	Matrix Spike	R	Water	3005A	
280-62688-4MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-256387					
LCS 280-256264/2-A	Lab Control Sample	R	Water	6020	280-256264
MB 280-256264/1-A	Method Blank	R	Water	6020	280-256264
280-62688-4	MW-16	R	Water	6020	280-256264
280-62688-4MS	Matrix Spike	R	Water	6020	280-256264
280-62688-4MSD	Matrix Spike Duplicate	R	Water	6020	280-256264

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254047					
LCS 280-254047/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-254047/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-254047/1	Method Blank	T	Water	SM 2540C	
280-62676-C-1 DU	Duplicate	T	Water	SM 2540C	
280-62688-1	MW-42	T	Water	SM 2540C	
280-62688-2	MW-29A	T	Water	SM 2540C	
280-62688-3	MW-39	T	Water	SM 2540C	
280-62688-4	MW-16	T	Water	SM 2540C	
280-62688-5	MW-43	T	Water	SM 2540C	
280-62688-6	MW-23A	T	Water	SM 2540C	
Analysis Batch:280-254108					
LCS 280-254108/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-254108/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-254108/3	Method Blank	T	Water	SM 2540D	
280-62688-1	MW-42	T	Water	SM 2540D	
280-62688-1DU	Duplicate	T	Water	SM 2540D	
280-62688-2	MW-29A	T	Water	SM 2540D	
280-62688-3	MW-39	T	Water	SM 2540D	
280-62688-4	MW-16	T	Water	SM 2540D	
280-62688-5	MW-43	T	Water	SM 2540D	
280-62688-6	MW-23A	T	Water	SM 2540D	
Analysis Batch:280-254128					
LCS 280-254128/105	Lab Control Sample	T	Water	350.1	
LCSD 280-254128/106	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-254128/107	Method Blank	T	Water	350.1	
280-62688-1	MW-42	T	Water	350.1	
280-62688-2	MW-29A	T	Water	350.1	
280-62688-3	MW-39	T	Water	350.1	
280-62688-3MS	Matrix Spike	T	Water	350.1	
280-62688-3MSD	Matrix Spike Duplicate	T	Water	350.1	
280-62688-4	MW-16	T	Water	350.1	
280-62688-5	MW-43	T	Water	350.1	
280-62688-6	MW-23A	T	Water	350.1	

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254238					
LCS 280-254238/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254238/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254238/5	Method Blank	T	Water	SM 5310B	
280-62688-1	MW-42	T	Water	SM 5310B	
280-62688-2	MW-29A	T	Water	SM 5310B	
280-62688-3	MW-39	T	Water	SM 5310B	
280-62688-4	MW-16	T	Water	SM 5310B	
280-62688-5	MW-43	T	Water	SM 5310B	
280-62688-6	MW-23A	T	Water	SM 5310B	
280-62748-F-13 MS	Matrix Spike	T	Water	SM 5310B	
280-62748-F-13 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-254239					
LCS 280-254239/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254239/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254239/5	Method Blank	T	Water	SM 5310B	
280-62688-1	MW-42	T	Water	SM 5310B	
280-62688-2	MW-29A	T	Water	SM 5310B	
280-62688-3	MW-39	T	Water	SM 5310B	
280-62688-4	MW-16	T	Water	SM 5310B	
280-62688-5	MW-43	T	Water	SM 5310B	
280-62688-6	MW-23A	T	Water	SM 5310B	
280-62748-F-13 MS	Matrix Spike	T	Water	SM 5310B	
280-62748-F-13 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-254503					
LCS 280-254503/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-254503/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-254503/6	Method Blank	T	Water	SM 2320B	
240-44224-N-2 DU	Duplicate	T	Water	SM 2320B	
280-62688-1	MW-42	T	Water	SM 2320B	
280-62688-2	MW-29A	T	Water	SM 2320B	
280-62688-3	MW-39	T	Water	SM 2320B	
280-62688-4	MW-16	T	Water	SM 2320B	
280-62688-5	MW-43	T	Water	SM 2320B	
280-62688-6	MW-23A	T	Water	SM 2320B	

Client: Waste Management

Job Number: 280-62688-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254905					
LCS 280-254905/11	Lab Control Sample	T	Water	300.0	
LCSD 280-254905/12	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-254905/13	Method Blank	T	Water	300.0	
280-62688-1	MW-42	T	Water	300.0	
280-62688-2	MW-29A	T	Water	300.0	
280-62688-3	MW-39	T	Water	300.0	
280-62688-4	MW-16	T	Water	300.0	
280-62688-5	MW-43	T	Water	300.0	
280-62688-6	MW-23A	T	Water	300.0	
280-63015-A-10 DU	Duplicate	T	Water	300.0	
280-63015-A-10 MS	Matrix Spike	T	Water	300.0	
280-63015-A-10 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-255099					
MB 280-255099/1	Method Blank	T	Water	353.2	
280-62688-1	MW-42	T	Water	353.2	
280-62688-2	MW-29A	T	Water	353.2	
280-62688-3	MW-39	T	Water	353.2	
280-62688-4	MW-16	T	Water	353.2	
280-62688-5	MW-43	T	Water	353.2	
280-62688-6	MW-23A	T	Water	353.2	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62688-1

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
280-62688-1	MW-42	98	102	98
280-62688-2	MW-29A	99	100	98
280-62688-3	MW-39	103	101	99
280-62688-4	MW-16	100	103	100
280-62688-5	MW-43	103	102	99
280-62688-6	MW-23A	102	104	102
280-62688-7	TRIP BLANK	101	105	104
MB 480-216516/7		98	105	101
MB 480-216695/11		102	103	101
LCS 480-216516/39		95	100	98
LCS 480-216695/8		96	104	103
480-71963-B-2 MS		97	103	100
480-71779-F-7 MS		100	106	101
480-71963-B-2 MSD		95	101	100
480-71779-F-7 MSD		98	102	98

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: 280-62688-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-62688-1	MW-42	98	121
280-62688-2	MW-29A	96	115
280-62688-3	MW-39	98	115
280-62688-4	MW-16	93	110
280-62688-5	MW-43	97	117
280-62688-6	MW-23A	98	107
MB 480-215763/7		95	112
LCS 480-215763/5		102	104
LCSD 480-215763/6		101	109

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216516/7	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36893.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1247	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1247				
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: 280-62688-1

Method Blank - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216516/7	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36893.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1247	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1247				
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		0.50	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: 280-62688-1

Method Blank - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216516/7	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36893.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1247	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1247				
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)	98	66 - 137
4-Bromofluorobenzene (Surr)	105	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Method Blank TICs- Batch: 480-216P16

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62688-1

Lab Control Sam5le - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

Lab Sample ID:	LCS 480-216516/39	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36890.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1140	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1140				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.4	98	71 - 129	
1,1-Dichloroethene	25.0	24.9	100	58 - 121	
1,2,4-Trimethylbenzene	25.0	24.1	97	76 - 121	
1,2-Dichlorobenzene	25.0	25.1	100	80 - 124	
1,2-Dichloroethane	25.0	23.7	95	75 - 127	
Benzene	25.0	25.1	101	71 - 124	
Chlorobenzene	25.0	25.3	101	72 - 120	
cis-1,2-Dichloroethene	25.0	25.5	102	74 - 124	
Ethylbenzene	25.0	24.4	98	77 - 123	
Methyl tert-butyl ether	25.0	24.2	97	64 - 127	
m-Xylene & p-Xylene	25.0	25.1	100	76 - 122	
o-Xylene	25.0	24.6	99	76 - 122	
Tetrachloroethene	25.0	26.7	107	74 - 122	
Toluene	25.0	25.0	100	80 - 122	
trans-1,2-Dichloroethene	25.0	26.9	108	73 - 127	
Trichloroethene	25.0	25.7	103	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	66 - 137
4-Bromofluorobenzene (Surr)	100	73 - 120
Toluene-d8 (Surr)	98	71 - 126

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71963-B-2 MS	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36915.D
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 2109			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 2109				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71963-B-2 MSD	Analysis Batch:	480-216516	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36916.D
Dilution:	40	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 2132			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 2132				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	108	104	71 - 129	4	20		
1,1-Dichloroethene	106	103	58 - 121	3	16		
1,2-Dichloroethane	98	96	75 - 127	2	20		
Benzene	106	101	71 - 124	4	13		
Chlorobenzene	107	104	72 - 120	3	25		
cis-1,2-Dichloroethene	108	105	74 - 124	3	15		
Ethylbenzene	106	102	77 - 123	4	15		
m-Xylene & p-Xylene	107	101	76 - 122	5	16		
o-Xylene	108	104	76 - 122	4	16		
Tetrachloroethene	112	108	74 - 122	4	20		
Toluene	103	98	80 - 122	4	15		
trans-1,2-Dichloroethene	109	104	73 - 127	5	20		
Trichloroethene	109	106	74 - 123	2	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	95	66 - 137
4-Bromofluorobenzene (Surr)	103	101	73 - 120
Toluene-d8 (Surr)	100	100	71 - 126

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-216P16

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71963-B-2 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	40		
Analysis Date:	12/01/2014 2109		
Prep Date:	12/01/2014 2109		
Leach Date:	N/A		

MSD Lab Sample ID:	480-71963-B-2 MSD
Client Matrix:	Water
Dilution:	40
Analysis Date:	12/01/2014 2132
Prep Date:	12/01/2014 2132
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1-Dichloroethane	ND		1000	1000	1080	1040
1,1-Dichloroethene	ND		1000	1000	1060	1030
1,2-Dichloroethane	ND		1000	1000	978	962
Benzene	21	J	1000	1000	1080	1030
Chlorobenzene	ND		1000	1000	1070	1040
cis-1,2-Dichloroethene	ND		1000	1000	1080	1050
Ethylbenzene	ND		1000	1000	1060	1020
m-Xylene & p-Xylene	68	J	1000	1000	1130	1080
o-Xylene	30	J	1000	1000	1080	1040
Tetrachloroethene	ND		1000	1000	1120	1080
Toluene	190		1000	1000	1220	1180
trans-1,2-Dichloroethene	ND		1000	1000	1090	1040
Trichloroethene	ND		1000	1000	1090	1060

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216695/11	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36927.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1204	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1204				
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: 280-62688-1

Method Blank - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216695/11	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36927.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1204	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1204				
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		0.50	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: 280-62688-1

Method Blank - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216695/11	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36927.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1204	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1204				
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)	102	66 - 137
4-Bromofluorobenzene (Surr)	103	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Method Blank TICs- Batch: 480-21667P

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62688-1

Lab Control Sam5le - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

Lab Sample ID:	LCS 480-216695/8	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36925.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1119	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1119				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	26.2	105	71 - 129	
1,1-Dichloroethene	25.0	25.6	102	58 - 121	
1,2,4-Trimethylbenzene	25.0	25.3	101	76 - 121	
1,2-Dichlorobenzene	25.0	26.3	105	80 - 124	
1,2-Dichloroethane	25.0	24.2	97	75 - 127	
Benzene	25.0	25.9	104	71 - 124	
Chlorobenzene	25.0	26.4	106	72 - 120	
cis-1,2-Dichloroethene	25.0	26.0	104	74 - 124	
Ethylbenzene	25.0	26.0	104	77 - 123	
Methyl tert-butyl ether	25.0	25.0	100	64 - 127	
m-Xylene & p-Xylene	25.0	26.7	107	76 - 122	
o-Xylene	25.0	26.4	106	76 - 122	
Tetrachloroethene	25.0	27.9	112	74 - 122	
Toluene	25.0	26.1	105	80 - 122	
trans-1,2-Dichloroethene	25.0	27.8	111	73 - 127	
Trichloroethene	25.0	26.6	106	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	66 - 137
4-Bromofluorobenzene (Surr)	104	73 - 120
Toluene-d8 (Surr)	103	71 - 126

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71779-F-7 MS	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36939.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1647			Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1647				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71779-F-7 MSD	Analysis Batch:	480-216695	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36940.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/02/2014 1709			Final Weight/Volume:	5 mL
Prep Date:	12/02/2014 1709				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	126	122	71 - 129	3	20		
1,1-Dichloroethene	123	123	58 - 121	0	16	F1	F1
1,2-Dichlorobenzene	115	113	80 - 124	2	20		
1,2-Dichloroethane	113	110	75 - 127	3	20		
Benzene	121	120	71 - 124	1	13		
Chlorobenzene	120	117	72 - 120	3	25		
cis-1,2-Dichloroethene	120	122	74 - 124	1	15		
Ethylbenzene	119	115	77 - 123	3	15		
m-Xylene & p-Xylene	122	116	76 - 122	5	16		
o-Xylene	120	116	76 - 122	3	16		
Tetrachloroethene	129	125	74 - 122	3	20	F1	F1
Toluene	120	117	80 - 122	3	15		
trans-1,2-Dichloroethene	123	132	73 - 127	8	20		F1
Trichloroethene	123	125	74 - 123	1	16		F1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	98	66 - 137
4-Bromofluorobenzene (Surr)	106	102	73 - 120
Toluene-d8 (Surr)	101	98	71 - 126

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-21667P

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71779-F-7 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/02/2014 1647		
Prep Date:	12/02/2014 1647		
Leach Date:	N/A		

MSD Lab Sample ID:	480-71779-F-7 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/02/2014 1709
Prep Date:	12/02/2014 1709
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	31.5		30.5	
1,1-Dichloroethene	ND	25.0	25.0	30.7	F1	30.7	F1
1,2-Dichlorobenzene	ND	25.0	25.0	28.8		28.3	
1,2-Dichloroethane	ND	25.0	25.0	28.3		27.6	
Benzene	ND	25.0	25.0	30.3		30.0	
Chlorobenzene	ND	25.0	25.0	30.1		29.1	
cis-1,2-Dichloroethene	ND	25.0	25.0	30.1		30.5	
Ethylbenzene	ND	25.0	25.0	29.7		28.7	
m-Xylene & p-Xylene	ND	25.0	25.0	30.5		28.9	
o-Xylene	ND	25.0	25.0	30.0		29.0	
Tetrachloroethene	ND	25.0	25.0	32.2	F1	31.4	F1
Toluene	ND	25.0	25.0	30.0		29.2	
trans-1,2-Dichloroethene	ND	25.0	25.0	30.6		33.0	F1
Trichloroethene	ND	25.0	25.0	30.9		31.2	F1

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 480-21P963

Method: 8260C SIM
pre5aration: P030C

Lab Sample ID:	MB 480-215763/7	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4138.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0250	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0250				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	95	50 - 150
TBA-d9 (Surr)	112	50 - 150

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 480-21P963

Method: 8260C SIM
pre5aration: P030C

LCS Lab Sample ID:	LCS 480-215763/5	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4135.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0138	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0138				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-215763/6	Analysis Batch:	480-215763	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4136.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 0202	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 0202				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	120	123	50 - 150	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	102	101	50 - 150
TBA-d9 (Surr)	104	109	50 - 150

Client: Waste Management

Job Number: 280-62688-1

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 480-21P963

Method: 8260C SIM
pre5aration: P030C

LCS Lab Sample ID:	LCS 480-215763/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-215763/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 0138			Analysis Date:	11/25/2014 0202
Prep Date:	11/25/2014 0138			Prep Date:	11/25/2014 0202
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	0.240	0.245

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P3866

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-253866/1-A	Analysis Batch:	280-255598	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253866	Lab File ID:	26g120214.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2014 0821	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
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 Sam5le - Batch: 280-2P3866

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-253866/2-A	Analysis Batch:	280-255598	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253866	Lab File ID:	26g120214.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2014 0824	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	52.4	105	90 - 111	
Cobalt, Dissolved	0.500	0.518	104	89 - 111	
Iron, Dissolved	1.00	1.01	101	89 - 115	
Magnesium, Dissolved	50.0	51.4	103	90 - 113	
Potassium, Dissolved	50.0	54.2	108	89 - 114	
Sodium, Dissolved	50.0	57.1	114	90 - 115	

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3866

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62682-H-2-B MS	Analysis Batch:	280-255598	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253866	Lab File ID:	26g120214.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2014 0832			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62682-H-2-C MSD	Analysis Batch:	280-255598	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253866	Lab File ID:	26g120214.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/03/2014 0834			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	108	102	48 - 153	2	20		
Cobalt, Dissolved	103	101	82 - 119	2	20		
Iron, Dissolved	102	99	52 - 155	3	20		
Magnesium, Dissolved	103	100	62 - 146	2	20		
Potassium, Dissolved	110	107	76 - 132	3	20		
Sodium, Dissolved	115	111	70 - 203	2	20		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3866

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62682-H-2-B MS	Units:	mg/L	MSD Lab Sample ID:	280-62682-H-2-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/03/2014 0832			Analysis Date:	12/03/2014 0834
Prep Date:	11/20/2014 0815			Prep Date:	11/20/2014 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, Dissolved	70	50.0	50.0	123	121
Cobalt, Dissolved	ND	0.500	0.500	0.514	0.505
Iron, Dissolved	ND	1.00	1.00	1.02	0.995
Magnesium, Dissolved	21	50.0	50.0	73.1	71.4
Potassium, Dissolved	2.7	50.0	50.0	57.8	56.2
Sodium, Dissolved	20	50.0	50.0	77.5	75.8

Client: Waste Management Job Number: 280-62688-1

Method Blank - Batch: 280-2P3893

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-253873/1-A	Analysis Batch:	280-255260	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253873	Lab File ID:	26d113014.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/01/2014 0318	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
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 Sam5le - Batch: 280-2P3893

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-253873/2-A	Analysis Batch:	280-255260	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253873	Lab File ID:	26d113014.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/01/2014 0321	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.524	105	89 - 111	
Iron, Total	1.00	1.10	110	89 - 115	

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3893

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62687-D-1-B MS	Analysis Batch:	280-255260	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253873	Lab File ID:	26d113014.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/01/2014 0403			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62687-D-1-C MSD	Analysis Batch:	280-255260	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-253873	Lab File ID:	26d113014.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/01/2014 0406			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	107	102	82 - 119	4	20		
Iron, Total	213	163	52 - 155	4	20	4	4

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3893

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62687-D-1-B MS	Units:	mg/L	MSD Lab Sample ID:	280-62687-D-1-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/01/2014 0403			Analysis Date:	12/01/2014 0406
Prep Date:	11/20/2014 1400			Prep Date:	11/20/2014 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	
Cobalt, Total	ND	0.500	0.500	0.535		0.512	
Iron, Total	11	1.00	1.00	12.8	4	12.3	4

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P3869

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-253867/1-A	Analysis Batch:	280-254233	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253867	Lab File ID:	045_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1851	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 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 Sam5le - Batch: 280-2P3869

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-253867/2-A	Analysis Batch:	280-254233	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253867	Lab File ID:	046_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1854	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0375	94	85 - 115	
Barium, Dissolved	0.0400	0.0419	105	85 - 118	
Beryllium, Dissolved	0.0400	0.0409	102	80 - 125	
Cadmium, Dissolved	0.0400	0.0408	102	85 - 115	
Chromium, Dissolved	0.0400	0.0404	101	84 - 121	
Copper, Dissolved	0.0400	0.0413	103	85 - 119	
Lead, Dissolved	0.0400	0.0431	108	85 - 118	
Manganese, Dissolved	0.0400	0.0413	103	85 - 117	
Nickel, Dissolved	0.0400	0.0409	102	85 - 119	
Selenium, Dissolved	0.0400	0.0447	112	77 - 122	
Silver, Dissolved	0.0400	0.0406	101	85 - 115	
Thallium, Dissolved	0.0400	0.0422	106	85 - 118	
Vanadium, Dissolved	0.0400	0.0389	97	85 - 120	
Zinc, Dissolved	0.0400	0.0436	109	83 - 122	

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3869

Method: 6020
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62688-6	Analysis Batch:	280-254233	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253867	Lab File ID:	059_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1933			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62688-6	Analysis Batch:	280-254233	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253867	Lab File ID:	060_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/20/2014 1936			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 0815				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	96	97	85 - 115	1	20		
Barium, Dissolved	105	105	85 - 118	1	20		
Beryllium, Dissolved	104	103	80 - 125	1	20		
Cadmium, Dissolved	103	101	85 - 115	1	20		
Chromium, Dissolved	100	99	84 - 121	1	20		
Copper, Dissolved	102	102	85 - 119	0	20		
Lead, Dissolved	105	103	85 - 118	2	20		
Manganese, Dissolved	240	82	85 - 117	3	20	4	4
Nickel, Dissolved	103	101	85 - 119	2	20		
Selenium, Dissolved	111	111	77 - 122	1	20		
Silver, Dissolved	99	99	85 - 115	1	20		
Thallium, Dissolved	105	103	85 - 118	1	20		
Vanadium, Dissolved	101	100	85 - 120	0	20		
Zinc, Dissolved	94	94	83 - 122	0	20		

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P3869

Method: 6020
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62688-6	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/20/2014 1933		
Prep Date:	11/20/2014 0815		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62688-6
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/20/2014 1936
Prep Date:	11/20/2014 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	0.0385		0.0388	
Barium, Dissolved	0.013	0.0400	0.0400	0.0553		0.0550	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0414		0.0410	
Cadmium, Dissolved	ND	0.0400	0.0400	0.0411		0.0405	
Chromium, Dissolved	ND	0.0400	0.0400	0.0402		0.0398	
Copper, Dissolved	ND	0.0400	0.0400	0.0408		0.0406	
Lead, Dissolved	ND	0.0400	0.0400	0.0422		0.0413	
Manganese, Dissolved	2.1	0.0400	0.0400	2.24	4	2.17	4
Nickel, Dissolved	ND	0.0400	0.0400	0.0411		0.0404	
Selenium, Dissolved	ND	0.0400	0.0400	0.0446		0.0442	
Silver, Dissolved	ND	0.0400	0.0400	0.0398		0.0394	
Thallium, Dissolved	ND	0.0400	0.0400	0.0419		0.0413	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0402		0.0401	
Zinc, Dissolved	0.012	0.0400	0.0400	0.0494		0.0493	

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-253875/1-A	Analysis Batch:	280-254546	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	051_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2014 1953	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 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
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

Method Blank - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-253875/1-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	082_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2229	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62688-1

Lab Control Sam5le - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-253875/2-A	Analysis Batch:	280-254546	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	052_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2014 1956	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0402	101	85 - 115	
Barium, Total	0.0400	0.0450	112	85 - 118	
Beryllium, Total	0.0400	0.0431	108	80 - 125	
Cadmium, Total	0.0400	0.0426	107	85 - 115	
Chromium, Total	0.0400	0.0423	106	84 - 121	
Copper, Total	0.0400	0.0435	109	85 - 119	
Lead, Total	0.0400	0.0443	111	85 - 118	
Manganese, Total	0.0400	0.0432	108	85 - 117	
Nickel, Total	0.0400	0.0430	107	85 - 119	
Selenium, Total	0.0400	0.0459	115	77 - 122	
Silver, Total	0.0400	0.0432	108	85 - 115	
Thallium, Total	0.0400	0.0441	110	85 - 118	
Vanadium, Total	0.0400	0.0413	103	85 - 120	

Lab Control Sam5le - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-253875/2-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	083_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2232	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Zinc, Total	0.0400	0.0465	116	83 - 122	

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-6	Analysis Batch:	280-254546	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	063_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2014 2030			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62688-6	Analysis Batch:	280-254546	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	064_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2014 2033			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	102	105	85 - 115	2	20		
Barium, Total	110	112	85 - 118	1	20		
Beryllium, Total	108	107	80 - 125	0	20		
Cadmium, Total	106	109	85 - 115	3	20		
Chromium, Total	105	104	84 - 121	0	20		
Copper, Total	107	107	85 - 119	0	20		
Lead, Total	110	110	85 - 118	0	20		
Manganese, Total	263	233	85 - 117	1	20	4	4
Nickel, Total	108	106	85 - 119	2	20		
Selenium, Total	114	113	77 - 122	1	20		
Silver, Total	104	106	85 - 115	2	20		
Thallium, Total	109	109	85 - 118	0	20		
Vanadium, Total	108	107	85 - 120	1	20		

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-6	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	094_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2306			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62688-6	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-253875	Lab File ID:	095_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2309			Final Weight/Volume:	50 mL
Prep Date:	11/20/2014 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc, Total	105	101	83 - 122	4	20		

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-6	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/21/2014 2030		
Prep Date:	11/20/2014 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62688-6
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/21/2014 2033
Prep Date:	11/20/2014 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	0.0409		0.0418	
Barium, Total	0.014	0.0400	0.0400	0.0585		0.0591	
Beryllium, Total	ND	0.0400	0.0400	0.0431		0.0429	
Cadmium, Total	ND	0.0400	0.0400	0.0426		0.0436	
Chromium, Total	ND	0.0400	0.0400	0.0419		0.0418	
Copper, Total	ND	0.0400	0.0400	0.0427		0.0426	
Lead, Total	ND	0.0400	0.0400	0.0440		0.0438	
Manganese, Total	2.2	0.0400	0.0400	2.34	4	2.33	4
Nickel, Total	ND	0.0400	0.0400	0.0431		0.0423	
Selenium, Total	ND	0.0400	0.0400	0.0457		0.0452	
Silver, Total	ND	0.0400	0.0400	0.0416		0.0424	
Thallium, Total	ND	0.0400	0.0400	0.0438		0.0437	
Vanadium, Total	ND	0.0400	0.0400	0.0433		0.0428	

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P389P

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-6	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/24/2014 2306		
Prep Date:	11/20/2014 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62688-6
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/24/2014 2309
Prep Date:	11/20/2014 1400
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Zinc, Total	0.0053	0.0400	0.0400	0.0475	0.0458

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P6264

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-256264/1-A	Analysis Batch:	280-256387	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-256264	Lab File ID:	208_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/09/2014 0127	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/08/2014 1330				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Zinc, Total	ND		0.0050	0.0050

Lab Control Sam5le - Batch: 280-2P6264

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-256264/2-A	Analysis Batch:	280-256387	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-256264	Lab File ID:	209_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/09/2014 0131	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/08/2014 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Zinc, Total	0.0400	0.0446	112	83 - 122	

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P6264

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-4	Analysis Batch:	280-256387	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-256264	Lab File ID:	212SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/09/2014 0142			Final Weight/Volume:	50 mL
Prep Date:	12/08/2014 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62688-4	Analysis Batch:	280-256387	Instrument ID:	MT_077
Client Matrix:	Water	Prep Batch:	280-256264	Lab File ID:	213SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/09/2014 0146			Final Weight/Volume:	50 mL
Prep Date:	12/08/2014 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc, Total	115	110	83 - 122	5	20		

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P6264

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62688-4	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/09/2014 0142		
Prep Date:	12/08/2014 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62688-4
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/09/2014 0146
Prep Date:	12/08/2014 1330
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	0.0460	0.0439

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	MB 280-254905/13	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0013.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1146	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 Re5orting Limit Check - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	MRL 280-254905/10	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0010.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1046	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	95	50 - 150	

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254905/11	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0011.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1106	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 280-254905/12	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0012.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 1126	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	97	97	90 - 110	0	10		
Sulfate	95	95	90 - 110	0	10		

Client: Waste Management

Job Number: 280-62688-1

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254905/11	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254905/12
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 1106			Analysis Date:	11/26/2014 1126
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	97.0	97.0
Sulfate	100	100	94.8	94.8

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

MS Lab Sample ID:	280-63015-A-10 MS	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0030.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 2132			Final Weight/Volume:	5 mL
Prep Date:	N/A				25 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-63015-A-10 MSD	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0031.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 2152			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	101	101	80 - 120	0	20		
Sulfate	77	77	80 - 120	0	20	F1	F1

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

MS Lab Sample ID:	280-63015-A-10 MS	Units:	mg/L	MSD Lab Sample ID:	280-63015-A-10 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 2132			Analysis Date:	11/26/2014 2152
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	18	25.0	25.0	42.8		42.9	
Sulfate	17	25.0	25.0	36.2	F1	36.2	F1

Du5licate - Batch: 280-2P470P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	280-63015-A-10 DU	Analysis Batch:	280-254905	Instrument ID:	WC_IonChrom11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0029.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/26/2014 2112	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	18	17.6	0.4	15	
Sulfate	17	12.9	28	15	F3

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P4128

Method: 3P0.1
pre5aration: N/A

Lab Sample ID:	MB 280-254128/107	Analysis Batch:	280-254128	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112014A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/20/2014 1246	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4128

Method: 3P0.1
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254128/105	Analysis Batch:	280-254128	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112014A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/20/2014 1242	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254128/106	Analysis Batch:	280-254128	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112014A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/20/2014 1244	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)	104	100	90 - 110	4	10		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4128

Method: 3P0.1
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254128/105	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254128/106
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1242			Analysis Date:	11/20/2014 1244
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	2.60	2.50

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4128

Method: 3P0.1
pre5aration: N/A

MS Lab Sample ID:	280-62688-3	Analysis Batch:	280-254128	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112014A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/20/2014 1328			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62688-3	Analysis Batch:	280-254128	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112014A.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/20/2014 1330			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	110	90 - 110	1	10		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4128

Method: 3P0.1
pre5aration: N/A

MS Lab Sample ID:	280-62688-3	Units:	mg/L	MSD Lab Sample ID:	280-62688-3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1328			Analysis Date:	11/20/2014 1330
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)	0.30	1.00	1.00	1.39	1.40

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2PP077

Method: 3P3.2
pre5aration: N/A

Lab Sample ID:	MB 280-255099/1	Analysis Batch:	280-255099	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:	11/28/2014 0957	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: 280-62688-1

Method Blank - Batch: 280-2P4P03

Method: SM 2320B
pre5aration: N/A

Lab Sample ID:	MB 280-254503/6	Analysis Batch:	280-254503	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/21/2014 1500	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4P03

Method: SM 2320B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254503/4	Analysis Batch:	280-254503	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/21/2014 1450	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254503/5	Analysis Batch:	280-254503	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/21/2014 1456	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	97	95	90 - 110	2	10		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4P03

Method: SM 2320B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254503/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254503/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/21/2014 1450			Analysis Date:	11/21/2014 1456
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	193	190

Client: Waste Management

Job Number: 280-62688-1

Du5licate - Batch: 280-2P4P03

Method: SM 2320B
pre5aration: N/A

Lab Sample ID:	240-44224-N-2 DU	Analysis Batch:	280-254503	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/21/2014 1510	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)	59	63.2	6	10	

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P4049

Method: SM 2P40C
pre5aration: N/A

Lab Sample ID:	MB 280-254047/1	Analysis Batch:	280-254047	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:	11/20/2014 1421	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4049

Method: SM 2P40C
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254047/2	Analysis Batch:	280-254047	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:	11/20/2014 1421	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254047/3	Analysis Batch:	280-254047	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:	11/20/2014 1421	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	100	100	86 - 110	1	20		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4049

Method: SM 2P40C
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254047/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254047/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1421			Analysis Date:	11/20/2014 1421
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	499	502

Client: Waste Management

Job Number: 280-62688-1

Du5licate - Batch: 280-2P4049

Method: SM 2P40C
pre5aration: N/A

Lab Sample ID:	280-62676-C-1 DU	Analysis Batch:	280-254047	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:	11/20/2014 1421	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)	1900	1940	0.7	10	

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P4108

Method: SM 2P40D
pre5aration: N/A

Lab Sample ID:	MB 280-254108/3	Analysis Batch:	280-254108	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:	11/20/2014 1700	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4108

Method: SM 2P40D
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254108/1	Analysis Batch:	280-254108	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:	100 mL
Analysis Date:	11/20/2014 1700	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254108/2	Analysis Batch:	280-254108	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:	100 mL
Analysis Date:	11/20/2014 1700	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	91	93	86 - 114	2	20		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4108

Method: SM 2P40D
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254108/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254108/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1700			Analysis Date:	11/20/2014 1700
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	91.0	93.0

Client: Waste Management

Job Number: 280-62688-1

Du5licate - Batch: 280-2P4108

Method: SM 2P40D
pre5aration: N/A

Lab Sample ID:	280-62688-1	Analysis Batch:	280-254108	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:	100 mL
Analysis Date:	11/20/2014 1700	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	170	172	1	10	

Client: Waste Management

Job Number: 280-62688-1

Method Blank - Batch: 280-2P4238

Method: SM P310B
pre5aration: N/A

Lab Sample ID:	MB 280-254238/5	Analysis Batch:	280-254238	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1656	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4238

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254238/3	Analysis Batch:	280-254238	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1627	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254238/4	Analysis Batch:	280-254238	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 1641	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	102	102	88 - 112	0	15		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4238

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254238/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254238/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 1627			Analysis Date:	11/20/2014 1641
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	25.4	25.5

Client: Waste Management

Job Number: 280-62688-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4238

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62748-F-13 MS	Analysis Batch:	280-254238	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 2116			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62748-F-13 MSD	Analysis Batch:	280-254238	Instrument ID:	WC_SHI3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112014.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/20/2014 2131			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	100	100	88 - 112	0	15		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4238

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62748-F-13 MS	Units:	mg/L	MSD Lab Sample ID:	280-62748-F-13 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/20/2014 2116			Analysis Date:	11/20/2014 2131
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	3.9	25.0	25.0	28.9	28.8

Client: Waste Management Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-1 **Client ID:** MW-42

Sample Date/Time: 11/18/2014 14:55 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-1		480-216516		12/01/2014 13:22	1	TAL BUF	EDB
A:8260C	280-62688-F-1		480-216516		12/01/2014 13:22	1	TAL BUF	EDB
P:5030C	280-62688-K-1		480-215763		11/25/2014 04:30	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-1		480-215763		11/25/2014 04:30	1	TAL BUF	RAS
P:3005A	280-62688-D-1-B		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-1-B		280-255260	280-253873	12/01/2014 03:31	1	TAL DEN	SJS
P:3005A	280-62688-E-1-A		280-255599	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-1-A		280-255599	280-253866	12/03/2014 12:13	1	TAL DEN	LRD
P:3005A	280-62688-E-1-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-1-A		280-255719	280-253866	12/03/2014 20:55	1	TAL DEN	LLB
P:3005A	280-62688-E-1-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-1-B		280-254233	280-253867	11/20/2014 19:03	1	TAL DEN	JM
P:3005A	280-62688-D-1-C		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-1-C		280-254546	280-253875	11/21/2014 19:59	1	TAL DEN	JM
P:3005A	280-62688-D-1-C		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-1-C		280-254731	280-253875	11/24/2014 22:35	1	TAL DEN	JM
A:300.0	280-62688-B-1		280-254905		11/26/2014 22:32	1	TAL DEN	TLP
A:350.1	280-62688-C-1		280-254128		11/20/2014 13:22	2	TAL DEN	CML
A:353.2	280-62688-A-1		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-1		280-254503		11/21/2014 16:06	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-1		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-1		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-1		280-254238		11/20/2014 22:29	1	TAL DEN	CCJ

Lab ID: 280-62688-1 DU **Client ID:** MW-42

Sample Date/Time: 11/18/2014 14:55 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540D	280-62688-B-1 DU		280-254108		11/20/2014 17:00	1	TAL DEN	MW1

Client: Waste Management

Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-2 **Client ID:** MW-29A

Sample Date/Time: 11/18/2014 14:02 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-2		480-216516		12/01/2014 13:44	1	TAL BUF	EDB
A:8260C	280-62688-F-2		480-216516		12/01/2014 13:44	1	TAL BUF	EDB
P:5030C	280-62688-K-2		480-215763		11/25/2014 04:54	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-2		480-215763		11/25/2014 04:54	1	TAL BUF	RAS
P:3005A	280-62688-D-2-B		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-2-B		280-255260	280-253873	12/01/2014 03:34	1	TAL DEN	SJS
P:3005A	280-62688-E-2-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-2-A		280-255598	280-253866	12/03/2014 08:53	1	TAL DEN	LRD
P:3005A	280-62688-E-2-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-2-A		280-255719	280-253866	12/03/2014 20:57	1	TAL DEN	LLB
P:3005A	280-62688-E-2-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-2-B		280-254233	280-253867	11/20/2014 19:06	1	TAL DEN	JM
P:3005A	280-62688-D-2-C		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-2-C		280-254546	280-253875	11/21/2014 20:02	1	TAL DEN	JM
P:3005A	280-62688-D-2-C		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-2-C		280-254731	280-253875	11/24/2014 22:38	1	TAL DEN	JM
A:300.0	280-62688-B-2		280-254905		11/26/2014 22:52	1	TAL DEN	TLP
A:350.1	280-62688-C-2		280-254128		11/20/2014 13:24	1	TAL DEN	CML
A:353.2	280-62688-A-2		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-2		280-254503		11/21/2014 16:11	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-2		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-2		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-2		280-254238		11/20/2014 23:16	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-3 **Client ID:** MW-39

Sample Date/Time: 11/18/2014 10:05 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-3		480-216516		12/01/2014 14:06	1	TAL BUF	EDB
A:8260C	280-62688-F-3		480-216516		12/01/2014 14:06	1	TAL BUF	EDB
P:5030C	280-62688-K-3		480-215763		11/25/2014 05:18	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-3		480-215763		11/25/2014 05:18	1	TAL BUF	RAS
P:3005A	280-62688-D-3-B		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-3-B		280-255260	280-253873	12/01/2014 03:37	1	TAL DEN	SJS
P:3005A	280-62688-E-3-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-3-A		280-255598	280-253866	12/03/2014 08:55	1	TAL DEN	LRD
P:3005A	280-62688-E-3-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-3-A		280-255719	280-253866	12/03/2014 21:00	1	TAL DEN	LLB
P:3005A	280-62688-E-3-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-3-B		280-254233	280-253867	11/20/2014 19:09	1	TAL DEN	JM
P:3005A	280-62688-D-3-C		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-3-C		280-254546	280-253875	11/21/2014 20:05	1	TAL DEN	JM
P:3005A	280-62688-D-3-C		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-3-C		280-254731	280-253875	11/24/2014 22:41	1	TAL DEN	JM
A:300.0	280-62688-B-3		280-254905		11/26/2014 23:11	1	TAL DEN	TLP
A:350.1	280-62688-C-3		280-254128		11/20/2014 13:26	1	TAL DEN	CML
A:353.2	280-62688-A-3		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-3		280-254503		11/21/2014 16:15	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-3		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-3		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-3		280-254238		11/20/2014 23:32	1	TAL DEN	CCJ

Lab ID: 280-62688-3 MS **Client ID:** MW-39

Sample Date/Time: 11/18/2014 10:05 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-62688-C-3 MS		280-254128		11/20/2014 13:28	1	TAL DEN	CML

Lab ID: 280-62688-3 MSD **Client ID:** MW-39

Sample Date/Time: 11/18/2014 10:05 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-62688-C-3 MSD		280-254128		11/20/2014 13:30	1	TAL DEN	CML

Client: Waste Management Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-4 **Client ID:** MW-16

Sample Date/Time: 11/18/2014 09:06 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-4		480-216516		12/01/2014 14:29	1	TAL BUF	EDB
A:8260C	280-62688-F-4		480-216516		12/01/2014 14:29	1	TAL BUF	EDB
P:5030C	280-62688-K-4		480-215763		11/25/2014 05:43	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-4		480-215763		11/25/2014 05:43	1	TAL BUF	RAS
P:3005A	280-62688-D-4-B		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-4-B		280-255260	280-253873	12/01/2014 03:39	1	TAL DEN	SJS
P:3005A	280-62688-E-4-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-4-A		280-255598	280-253866	12/03/2014 08:58	1	TAL DEN	LRD
P:3005A	280-62688-E-4-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-4-A		280-255719	280-253866	12/03/2014 21:03	1	TAL DEN	LLB
P:3005A	280-62688-E-4-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-4-B		280-254233	280-253867	11/20/2014 19:12	1	TAL DEN	JM
P:3005A	280-62688-D-4-C		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-4-C		280-254546	280-253875	11/21/2014 20:08	1	TAL DEN	JM
P:3005A	280-62688-E-4-C		280-256387	280-256264	12/08/2014 13:30	1	TAL DEN	CGG
A:6020	280-62688-E-4-C		280-256387	280-256264	12/09/2014 01:35	1	TAL DEN	LMT
A:300.0	280-62688-B-4		280-254905		11/27/2014 00:11	1	TAL DEN	TLP
A:350.1	280-62688-C-4		280-254128		11/20/2014 13:34	1	TAL DEN	CML
A:353.2	280-62688-A-4		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-4		280-254503		11/21/2014 16:19	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-4		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-4		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-4		280-254238		11/20/2014 23:47	1	TAL DEN	CCJ

Lab ID: 280-62688-4 MS **Client ID:** MW-16

Sample Date/Time: 11/18/2014 09:06 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62688-E-4-D MS		280-256387	280-256264	12/08/2014 13:30	1	TAL DEN	CGG
A:6020	280-62688-E-4-D MS		280-256387	280-256264	12/09/2014 01:42	1	TAL DEN	LMT

Lab ID: 280-62688-4 MSD **Client ID:** MW-16

Sample Date/Time: 11/18/2014 09:06 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62688-E-4-E MSD		280-256387	280-256264	12/08/2014 13:30	1	TAL DEN	CGG
A:6020	280-62688-E-4-E MSD		280-256387	280-256264	12/09/2014 01:46	1	TAL DEN	LMT

Client: Waste Management

Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-5 **Client ID:** MW-43

Sample Date/Time: 11/18/2014 13:15 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-5		480-216516		12/01/2014 14:51	1	TAL BUF	EDB
A:8260C	280-62688-F-5		480-216516		12/01/2014 14:51	1	TAL BUF	EDB
P:5030C	280-62688-K-5		480-215763		11/25/2014 06:07	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-5		480-215763		11/25/2014 06:07	1	TAL BUF	RAS
P:3005A	280-62688-D-5-B		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-5-B		280-255260	280-253873	12/01/2014 03:42	1	TAL DEN	SJS
P:3005A	280-62688-E-5-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-5-A		280-255598	280-253866	12/03/2014 09:01	1	TAL DEN	LRD
P:3005A	280-62688-E-5-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-5-A		280-255719	280-253866	12/03/2014 21:05	1	TAL DEN	LLB
P:3005A	280-62688-E-5-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-5-B		280-254233	280-253867	11/20/2014 19:15	1	TAL DEN	JM
P:3005A	280-62688-D-5-C		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-5-C		280-254546	280-253875	11/21/2014 20:11	1	TAL DEN	JM
P:3005A	280-62688-D-5-C		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-5-C		280-254731	280-253875	11/24/2014 22:48	1	TAL DEN	JM
A:300.0	280-62688-B-5		280-254905		11/27/2014 00:31	1	TAL DEN	TLP
A:350.1	280-62688-C-5		280-254128		11/20/2014 13:50	1	TAL DEN	CML
A:353.2	280-62688-A-5		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-5		280-254503		11/21/2014 16:23	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-5		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-5		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-5		280-254238		11/21/2014 00:04	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-6 **Client ID:** MW-23A

Sample Date/Time: 11/18/2014 11:45 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-F-6		480-216695		12/02/2014 12:42	1	TAL BUF	EDB
A:8260C	280-62688-F-6		480-216695		12/02/2014 12:42	1	TAL BUF	EDB
P:5030C	280-62688-K-6		480-215763		11/25/2014 06:31	1	TAL BUF	RAS
A:8260C SIM	280-62688-K-6		480-215763		11/25/2014 06:31	1	TAL BUF	RAS
P:3005A	280-62688-D-6-D		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62688-D-6-D		280-255260	280-253873	12/01/2014 03:55	1	TAL DEN	SJS
P:3005A	280-62688-E-6-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-6-A		280-255598	280-253866	12/03/2014 09:03	1	TAL DEN	LRD
P:3005A	280-62688-E-6-A		280-255719	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62688-E-6-A		280-255719	280-253866	12/03/2014 21:08	1	TAL DEN	LLB
P:3005A	280-62688-E-6-B		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-6-B		280-254233	280-253867	11/20/2014 19:24	1	TAL DEN	JM
P:3005A	280-62688-D-6-E		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-E		280-254546	280-253875	11/21/2014 20:21	1	TAL DEN	JM
P:3005A	280-62688-D-6-E		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-E		280-254731	280-253875	11/24/2014 22:57	1	TAL DEN	JM
A:300.0	280-62688-B-6		280-254905		11/27/2014 00:51	1	TAL DEN	TLP
A:350.1	280-62688-C-6		280-254128		11/20/2014 13:52	1	TAL DEN	CML
A:353.2	280-62688-A-6		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	280-62688-A-6		280-254503		11/21/2014 16:28	1	TAL DEN	CCJ
A:SM 2540C	280-62688-A-6		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	280-62688-B-6		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	280-62688-C-6		280-254238		11/21/2014 00:21	1	TAL DEN	CCJ

Lab ID: 280-62688-6 MS **Client ID:** MW-23A

Sample Date/Time: 11/18/2014 11:45 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62688-E-6-C MS		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-6-C MS		280-254233	280-253867	11/20/2014 19:33	1	TAL DEN	JM
P:3005A	280-62688-D-6-F MS		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-F MS		280-254546	280-253875	11/21/2014 20:30	1	TAL DEN	JM
P:3005A	280-62688-D-6-F MS		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-F MS		280-254731	280-253875	11/24/2014 23:06	1	TAL DEN	JM

Client: Waste Management Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: 280-62688-6 MSD **Client ID:** MW-23A

Sample Date/Time: 11/18/2014 11:45 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62688-E-6-D MSD		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	280-62688-E-6-D MSD		280-254233	280-253867	11/20/2014 19:36	1	TAL DEN	JM
P:3005A	280-62688-D-6-G MSD		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-G MSD		280-254546	280-253875	11/21/2014 20:33	1	TAL DEN	JM
P:3005A	280-62688-D-6-G MSD		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	280-62688-D-6-G MSD		280-254731	280-253875	11/24/2014 23:09	1	TAL DEN	JM

Lab ID: 280-62688-7 **Client ID:** TRIP BLANK

Sample Date/Time: 11/18/2014 00:00 Received Date/Time: 11/19/2014 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62688-A-7		480-216695		12/02/2014 13:05	1	TAL BUF	EDB
A:8260C	280-62688-A-7		480-216695		12/02/2014 13:05	1	TAL BUF	EDB

Client: Waste Management

Job Number: 280-62688-1

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 480-216516/7		480-216516		12/01/2014 12:47	1	TAL BUF	EDB
A:8260C	MB 480-216516/7		480-216516		12/01/2014 12:47	1	TAL BUF	EDB
P:5030C	MB 480-216695/11		480-216695		12/02/2014 12:04	1	TAL BUF	EDB
A:8260C	MB 480-216695/11		480-216695		12/02/2014 12:04	1	TAL BUF	EDB
P:5030C	MB 480-215763/7		480-215763		11/25/2014 02:50	1	TAL BUF	RAS
A:8260C SIM	MB 480-215763/7		480-215763		11/25/2014 02:50	1	TAL BUF	RAS
P:3005A	MB 280-253873/1-A		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	MB 280-253873/1-A		280-255260	280-253873	12/01/2014 03:18	1	TAL DEN	SJS
P:3005A	MB 280-253866/1-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	MB 280-253866/1-A		280-255598	280-253866	12/03/2014 08:21	1	TAL DEN	LRD
P:3005A	MB 280-253867/1-A		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	MB 280-253867/1-A		280-254233	280-253867	11/20/2014 18:51	1	TAL DEN	JM
P:3005A	MB 280-253875/1-A		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	MB 280-253875/1-A		280-254546	280-253875	11/21/2014 19:53	1	TAL DEN	JM
P:3005A	MB 280-253875/1-A		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	MB 280-253875/1-A		280-254731	280-253875	11/24/2014 22:29	1	TAL DEN	JM
P:3005A	MB 280-256264/1-A		280-256387	280-256264	12/08/2014 13:30	1	TAL DEN	CGG
A:6020	MB 280-256264/1-A		280-256387	280-256264	12/09/2014 01:27	1	TAL DEN	LMT
A:300.0	MB 280-254905/13		280-254905		11/26/2014 11:46	1	TAL DEN	TLP
A:350.1	MB 280-254128/107		280-254128		11/20/2014 12:46	1	TAL DEN	CML
A:353.2	MB 280-255099/1		280-255099		11/28/2014 09:57	1	TAL DEN	AJA
A:SM 2320B	MB 280-254503/6		280-254503		11/21/2014 15:00	1	TAL DEN	CCJ
A:SM 2540C	MB 280-254047/1		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	MB 280-254108/3		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	MB 280-254238/5		280-254238		11/20/2014 16:56	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62688-1

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 480-216516/39		480-216516		12/01/2014 11:40	1	TAL BUF	EDB
A:8260C	LCS 480-216516/39		480-216516		12/01/2014 11:40	1	TAL BUF	EDB
P:5030C	LCS 480-216695/8		480-216695		12/02/2014 11:19	1	TAL BUF	EDB
A:8260C	LCS 480-216695/8		480-216695		12/02/2014 11:19	1	TAL BUF	EDB
P:5030C	LCS 480-215763/5		480-215763		11/25/2014 01:38	1	TAL BUF	RAS
A:8260C SIM	LCS 480-215763/5		480-215763		11/25/2014 01:38	1	TAL BUF	RAS
P:3005A	LCS 280-253873/2-A		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	LCS 280-253873/2-A		280-255260	280-253873	12/01/2014 03:21	1	TAL DEN	SJS
P:3005A	LCS 280-253866/2-A		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	LCS 280-253866/2-A		280-255598	280-253866	12/03/2014 08:24	1	TAL DEN	LRD
P:3005A	LCS 280-253867/2-A		280-254233	280-253867	11/20/2014 08:15	1	TAL DEN	WDS
A:6020	LCS 280-253867/2-A		280-254233	280-253867	11/20/2014 18:54	1	TAL DEN	JM
P:3005A	LCS 280-253875/2-A		280-254546	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	LCS 280-253875/2-A		280-254546	280-253875	11/21/2014 19:56	1	TAL DEN	JM
P:3005A	LCS 280-253875/2-A		280-254731	280-253875	11/20/2014 14:00	1	TAL DEN	WAW
A:6020	LCS 280-253875/2-A		280-254731	280-253875	11/24/2014 22:32	1	TAL DEN	JM
P:3005A	LCS 280-256264/2-A		280-256387	280-256264	12/08/2014 13:30	1	TAL DEN	CGG
A:6020	LCS 280-256264/2-A		280-256387	280-256264	12/09/2014 01:31	1	TAL DEN	LMT
A:300.0	LCS 280-254905/11		280-254905		11/26/2014 11:06	1	TAL DEN	TLP
A:350.1	LCS 280-254128/105		280-254128		11/20/2014 12:42	1	TAL DEN	CML
A:SM 2320B	LCS 280-254503/4		280-254503		11/21/2014 14:50	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-254047/2		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	LCS 280-254108/1		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	LCS 280-254238/3		280-254238		11/20/2014 16:27	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 480-215763/6		480-215763		11/25/2014 02:02	1	TAL BUF	RAS
A:8260C SIM	LCSD 480-215763/6		480-215763		11/25/2014 02:02	1	TAL BUF	RAS
A:300.0	LCSD 280-254905/12		280-254905		11/26/2014 11:26	1	TAL DEN	TLP
A:350.1	LCSD 280-254128/106		280-254128		11/20/2014 12:44	1	TAL DEN	CML
A:SM 2320B	LCSD 280-254503/5		280-254503		11/21/2014 14:56	1	TAL DEN	CCJ
A:SM 2540C	LCSD 280-254047/3		280-254047		11/20/2014 14:21	1	TAL DEN	SVC
A:SM 2540D	LCSD 280-254108/2		280-254108		11/20/2014 17:00	1	TAL DEN	MW1
A:SM 5310B	LCSD 280-254238/4		280-254238		11/20/2014 16:41	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62688-1

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 280-254905/10		280-254905		11/26/2014 10:46	1	TAL DEN	TLP

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/23/2014 13:10 Received Date/Time: 11/25/2014 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71963-B-2 MS		480-216516		12/01/2014 21:09	40	TAL BUF	EDB
A:8260C	480-71963-B-2 MS		480-216516		12/01/2014 21:09	40	TAL BUF	EDB
P:5030C	480-71779-F-7 MS		480-216695		12/02/2014 16:47	1	TAL BUF	EDB
A:8260C	480-71779-F-7 MS		480-216695		12/02/2014 16:47	1	TAL BUF	EDB
P:3005A	280-62687-D-1-B MS		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62687-D-1-B MS		280-255260	280-253873	12/01/2014 04:03	1	TAL DEN	SJS
P:3005A	280-62682-H-2-B MS		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62682-H-2-B MS		280-255598	280-253866	12/03/2014 08:32	1	TAL DEN	LRD
A:300.0	280-63015-A-10 MS		280-254905		11/26/2014 21:32	1	TAL DEN	TLP
A:SM 5310B	280-62748-F-13 MS		280-254238		11/20/2014 21:16	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 11/23/2014 13:10 Received Date/Time: 11/25/2014 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71963-B-2 MSD		480-216516		12/01/2014 21:32	40	TAL BUF	EDB
A:8260C	480-71963-B-2 MSD		480-216516		12/01/2014 21:32	40	TAL BUF	EDB
P:5030C	480-71779-F-7 MSD		480-216695		12/02/2014 17:09	1	TAL BUF	EDB
A:8260C	480-71779-F-7 MSD		480-216695		12/02/2014 17:09	1	TAL BUF	EDB
P:3005A	280-62687-D-1-C MSD		280-255260	280-253873	11/20/2014 14:00	1	TAL DEN	WAW
A:6010B	280-62687-D-1-C MSD		280-255260	280-253873	12/01/2014 04:06	1	TAL DEN	SJS
P:3005A	280-62682-H-2-C MSD		280-255598	280-253866	11/20/2014 08:15	1	TAL DEN	WDS
A:6010B	280-62682-H-2-C MSD		280-255598	280-253866	12/03/2014 08:34	1	TAL DEN	LRD
A:300.0	280-63015-A-10 MSD		280-254905		11/26/2014 21:52	1	TAL DEN	TLP
A:SM 5310B	280-62748-F-13 MSD		280-254238		11/20/2014 21:31	1	TAL DEN	CCJ

Client: Waste Management

Job Number: 280-62688-1

Laboratory Chronicle

Lab ID: DU **Client ID:** N/A

Sample Date/Time: 11/25/2014 10:00 Received Date/Time: 11/26/2014 10:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-63015-A-10 DU		280-254905		11/26/2014 21:12	1	TAL DEN	TLP
A:SM 2320B	240-44224-N-2 DU		280-254503		11/21/2014 15:10	1	TAL DEN	CCJ
A:SM 2540C	280-62676-C-1 DU		280-254047		11/20/2014 14:21	1	TAL DEN	SVC

Lab References:

TAL BUF = TestAmerica Buffalo

TAL DEN = TestAmerica Denver

TestAmerica Denver 0.9, 5.1 +0.5 IRS
11/14/14 transferred: TC
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custo

280-62688 Chain of Custody

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Client Information	Sampler: Matt O'Hare	Lab PM: Sara, Betsy A	COC No: 280-17318-3224.1
Client Contact: ~~Mr. Charles Luckie~~ ~~Dan Vo~~ Elena Ramirez	Phone: 425-289-5452	E-Mail: betsy.sara@testamericainc.com	Page: 1 of 1
Company: Olympic View Transfer Station			Job #: 04204027.17
Address: 9300 Southwest Barney White Road	Due Date Requested: Standard	Analysis Requested	Preservation Codes:
City: Bremerton	TAT Requested (days): Standard		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)
State, Zip: WA, 98312	PO #:		Other:
Phone: 425-289-5454	WO #:		
Email: ERamirez@SCSengineers.com	Project #: 28002692		
Project Name: WA02 Olympic View Sanitary LF Event Desc: Quarterly GW Appl/II - Mar Jun Sep Dec	SSOW#:		
Site: Washington			

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-42	11/18/14	1455	G	W			X	X	X	X	X	X	X	X	X		Short Hold: NO3(cad)
MW-29A		1402															Arsenic - Direct sub to ARI
MW-39		1005															
MW-16		0906															
MW-43		1315															
MW-23A		1145					X	X	X	X	X	X	X	X	X		
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
Matt O'Hare	11/18/14 1630	SCS		11/19/14 945	TAD

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-62688-1

Login Number: 62688

List Source: TestAmerica Denver

List Number: 1

Creator: Conquest, Tyler W

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: 280-62688-1

Login Number: 62688
List Number: 2
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo
List Creation: 11/22/14 07:57 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-62813-1

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
12/19/2014 11:30 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/19/2014

cc: Mr. Sam Adlington
Mr. Matt O'Hare
Ms. Elena Ramirez
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: 280-62813-1

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 11/20/2014 and 11/21/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 1.8º C and 3.1º C.

Samples MW-34C, MW-34A and MW-33A arrived without the chain of custody on 11/20/2014 at a temperature of 1.8 C. Samples MW-33C, MW-15R and MW36C arrived with the chain of custody on 11/21/2014 at a temperature of 3.1 C.

Due to the lack of a chain of custody, the laboratory did not proceed with the analyses on 11/20/2014. The nitrate holding times for samples MW-34C and MW-34A were missed. The client was notified.

Holding Times

The Nitrate result was derived from a calculation and the analysis date/time reflects when the calculation was performed. Nitrate+Nitrite and Nitrite results were required for the calculation. Nitrate+Nitrite analysis has a 28-day holding time. Nitrite analysis has a 48-hour holding time, and due to a FedEx delay, the associated Nitrite analysis was performed outside of the 48-hour holding time for the samples MW-34C, MW-34A and MW-33A.

All other 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) for batch 216556 recovered outside control limits for p-Chlorotoluene and p-Cymene. These were not requested spike compounds; therefore, the data have been qualified and reported.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for 1,1-Dichloroethene, 1,2,4-Trimethylbenzene and Ethylbenzene Method 8260C. 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 a sample from another client were outside control limits for Dissolved Potassium 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 percent recoveries and/or relative percent difference of the MS/MSD performed on sample MW-32 (62814) 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.

All other MS and MSD samples were within established control limits.

Organics

The Method 8260C SIM surrogate TBA-d9 exhibited recoveries above the upper control limits during the analysis of the samples MW-34C and MW-15R. Because the surrogate TBA-d9 is not associated with the target compounds detected in the samples MW-34C and MW-15R, corrective action was deemed unnecessary.

The Method 8260C continuing calibration verification (CCV) was outside the method criteria for Chlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Metals

The bracketing Continuing Calibration Verification Samples (CCV) surrounding the Method Blank were above control limits for Dissolved Sodium during Method 6010B analysis. Because the data are considered to be biased high and Dissolved Sodium was not detected in the Method Blank sample above the reporting limit, 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: 280-62813-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62813-1	**MW-34C**					
Vinyl chloride		0.12		0.020	ug/L	8260C SIM
Chloride		4.0		1.0	mg/L	300.0
Sulfate		5.1		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		110		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		110		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		190		5.0	mg/L	SM 2540C
Total Suspended Solids		32		6.7	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		25		0.040	mg/L	6010B
Iron, Dissolved		0.59		0.060	mg/L	6010B
Magnesium, Dissolved		11		0.050	mg/L	6010B
Potassium, Dissolved		2.4		1.0	mg/L	6010B
Sodium, Dissolved		15		1.0	mg/L	6010B
Barium, Dissolved		0.025		0.0010	mg/L	6020
Copper, Dissolved		0.0033		0.0020	mg/L	6020
Manganese, Dissolved		1.3		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		4.9		0.060	mg/L	6010B
Barium, Total		0.026		0.0010	mg/L	6020
Copper, Total		0.0028		0.0020	mg/L	6020
Manganese, Total		1.2		0.0010	mg/L	6020
280-62813-2	**MW-34A**					
Chlorodifluoromethane		3.6	^	1.0	ug/L	8260C
Chloride		3.0		1.0	mg/L	300.0
Sulfate		2.0		1.0	mg/L	300.0
Nitrate as N		0.77		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)		140		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		17		0.040	mg/L	6010B
Magnesium, Dissolved		8.5		0.050	mg/L	6010B
Sodium, Dissolved		11		1.0	mg/L	6010B
Barium, Dissolved		0.0044		0.0010	mg/L	6020
Chromium, Dissolved		0.0048		0.0030	mg/L	6020
Vanadium, Dissolved		0.0043		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0044		0.0010	mg/L	6020
Chromium, Total		0.0043		0.0030	mg/L	6020
Vanadium, Total		0.0038		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62813-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62813-3	**MW-33C**					
Chloride		2.8		1.0	mg/L	300.0
Sulfate		7.7		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)		110		5.0	mg/L	SM 2540C
Total Suspended Solids		5.6		4.0	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		18		0.040	mg/L	6010B
Iron, Dissolved		0.38		0.060	mg/L	6010B
Magnesium, Dissolved		7.4		0.050	mg/L	6010B
Potassium, Dissolved		1.5		1.0	mg/L	6010B
Sodium, Dissolved		4.5		1.0	mg/L	6010B
Barium, Dissolved		0.0047		0.0010	mg/L	6020
Manganese, Dissolved		0.20		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.38		0.060	mg/L	6010B
Barium, Total		0.0049		0.0010	mg/L	6020
Manganese, Total		0.20		0.0010	mg/L	6020
280-62813-4	**MW-15R**					
Vinyl chloride		0.0069	J	0.020	ug/L	8260C SIM
Chloride		2.3		1.0	mg/L	300.0
Sulfate		5.0		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		84		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		84		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		18		0.040	mg/L	6010B
Magnesium, Dissolved		11		0.050	mg/L	6010B
Sodium, Dissolved		6.1		1.0	mg/L	6010B
Barium, Dissolved		0.0051		0.0010	mg/L	6020
Manganese, Dissolved		0.0015		0.0010	mg/L	6020
Vanadium, Dissolved		0.0037		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0051		0.0010	mg/L	6020
Manganese, Total		0.0058		0.0010	mg/L	6020
Vanadium, Total		0.0036		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62813-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62813-5	**MW-36A**					
Chloride		1.5		1.0	mg/L	300.0
Sulfate		2.7		1.0	mg/L	300.0
Nitrate as N		0.94		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		56		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		56		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		110		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		11		0.040	mg/L	6010B
Iron, Dissolved		0.066		0.060	mg/L	6010B
Magnesium, Dissolved		7.2		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		6.5		1.0	mg/L	6010B
Barium, Dissolved		0.0021		0.0010	mg/L	6020
Chromium, Dissolved		0.0093		0.0030	mg/L	6020
Vanadium, Dissolved		0.0025		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0024		0.0010	mg/L	6020
Chromium, Total		0.0085		0.0030	mg/L	6020
Manganese, Total		0.0020		0.0010	mg/L	6020
Vanadium, Total		0.0023		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62813-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62813-7	**MW-33A**					
Chloride		1.7		1.0	mg/L	300.0
Sulfate		1.4		1.0	mg/L	300.0
Ammonia (as N)		0.21		0.030	mg/L	350.1
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)		73		5.0	mg/L	SM 2540C
Total Suspended Solids		13		4.0	mg/L	SM 2540D
Total Organic Carbon - Average		3.0		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		9.1		0.040	mg/L	6010B
Iron, Dissolved		5.1		0.060	mg/L	6010B
Magnesium, Dissolved		4.1		0.050	mg/L	6010B
Sodium, Dissolved		3.3		1.0	mg/L	6010B
Barium, Dissolved		0.0037		0.0010	mg/L	6020
Manganese, Dissolved		0.11		0.0010	mg/L	6020
Vanadium, Dissolved		0.0030		0.0020	mg/L	6020
Total Recoverable						
Iron, Total		5.0		0.060	mg/L	6010B
Barium, Total		0.0036		0.0010	mg/L	6020
Manganese, Total		0.10		0.0010	mg/L	6020
Vanadium, Total		0.0027		0.0020	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-62847-4

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals 1(CI P	) TA L DN	EW8S6 6040B	
I reparation,) otal Recoverable or L issolved Metals	) TA L DN		EW8S6 7003T
Metals 1(CI P	) TA L DN	EW8S6 6040B	
I reparation,) otal Recoverable or L issolved Metals	) TA L DN		EW8S6 7003T
Eample 5iltration, 5ield			5(DAL F5A) RL
Metals 1(CI _MEP	) TA L DN	EW8S6 6020	
I reparation,) otal Recoverable or L issolved Metals	) TA L DN		EW8S6 7003T
Metals 1(CI _MEP	) TA L DN	EW8S6 6020	
I reparation,) otal Recoverable or L issolved Metals	) TA L DN		EW8S6 7003T
Eample 5iltration, 5ield			5(DAL F5A) RL
Tnions, (on C/ romatograp/ h	) TA L DN	MCTWW 700y0	
Nitrogen, Tmmonia	) TA L DN	MCTWW 730y4	
Nitrate	) TA L DN	DI T 737y2	
TI. alinith	) TA L DN	EM EM 2720B	
Eolids,) otal L issolved 1) L EP	) TA L DN	EM EM 23S0C	
Eolids,) otal Euspended 1) EEP	) TA L DN	EM EM 23S0L	
k rganic Carbon,) otal 1) k CP	) TA L DN	EM EM 3740B	
Oolatile k rganic Compounds bh VC_ME	) TA BG5	EW8S6 8260C	
I urge and) rap	) TA BG5		EW8S6 3070C
Oolatile k rganic Compounds 1VC_MEP	) TA BG5	EW8S6 8260C E(M	
I urge and) rap	) TA BG5		EW8S6 3070C

Lab References:

) TA BG5 U) estTmerica Bu=alo

) TA L DN U) estTmerica L enver

Method References:

DI T U GE Dnvironmental I rotection Tgench

MCTWW U fMet/ ods 5or C/ emical Tnalhsis k =Water Tnd Wastesf, DI T-600_S-" 9-020, Marc/ 4987 Tnd Eubsequent Revisionsy

EM U fEtandard Met/ ods 5or) / e Dxamination k =Water Tnd Wastewaterf

EW8S6 U f) est Met/ ods 5or Dvaluating Eolid Waste, I / hsical_C/ emical Met/ odsf,) / ird Ddition, November 4986 Tnd (ts Gpdatesy

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-62813-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C SIM	Cwiklinski, Charles D	CDC
SW846 6010B	Broander, Laura L	LLB
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Mooney, Joseph C	JM
MCAWW 300.0	Sripen, Phuriya	PS1
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 353.2	Sullivan, Roxanne K	RKS
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-62847-4

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-62847-4	MW-71C	Water	04/15/2041 4007	04/23/2041 4010
280-62847-2	MW-71/	Water	04/15/2041 4019	04/23/2041 4010
280-62847-7	MW-77C	Water	04/15/2041 4744	04/23/2041 4010
280-62847-1	MW-49A	Water	04/15/2041 4122	04/23/2041 4010
280-62847-9	MW-76/	Water	04/15/2041 4905	04/23/2041 4010
280-62847-6BT	BATR TP/ NL	Water	04/15/2041 0000	04/23/2041 4010
280-62847-K	MW-77/	Water	04/15/2041 4276	04/23/2041 4010

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2314.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1446			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1446				

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: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2314.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1446			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1446				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2314.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1446			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1446				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2314.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1446			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1446				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management | Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2 | Date Sampled: 11/19/2014 1045
Client Matrix: Water | Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2315.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1510			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1510				

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	3.6	^	0.26	1.0
Chloroethane	ND		0.32	1.0

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2315.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1510			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1510				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2315.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1510			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1510				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2315.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1510			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1510				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2316.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1534				

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: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2316.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1534				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2316.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1534				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2316.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1534				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1559			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1559				

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: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1559			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1559				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1559			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1559				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2317.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1559			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1559				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2318.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1623			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1623				

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: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2318.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1623			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1623				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2318.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1623			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1623				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2318.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1623			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1623				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62813-6TB
Client Matrix: Water

Date Sampled: 11/19/2014 0000
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1647			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1647				

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: 280-62813-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62813-6TB
Client Matrix: Water

Date Sampled: 11/19/2014 0000
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1647			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1647				

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		0.50	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: 280-62813-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62813-6TB
Client Matrix: Water

Date Sampled: 11/19/2014 0000
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1647			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1647				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Toluene-d8 (Surr)	101		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62813-6TB
Client Matrix: Water

Date Sampled: 11/19/2014 0000
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1647			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1647				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1711			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1711				

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: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1711			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1711				

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		0.50	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: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1711			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1711				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	97		71 - 126

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N2320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1711			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1711				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4169.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1838			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.12		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	96		50 - 150
TBA-d9 (Surr)	153	X	50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4170.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1902			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1902				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	96		50 - 150
TBA-d9 (Surr)	143		50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4171.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1926			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1926				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	96		50 - 150
TBA-d9 (Surr)	117		50 - 150

Client: Waste Management | Job Number: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4 | Date Sampled: 11/19/2014 1422
Client Matrix: Water | Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4172.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1950			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1950				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	0.0069	J	0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	97		50 - 150
TBA-d9 (Surr)	153	X	50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4173.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 2015			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 2015				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	95		50 - 150
TBA-d9 (Surr)	146		50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-62813-6TB
Client Matrix: Water

Date Sampled: 11/19/2014 0000
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4174.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 2039			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 2039				

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)	114		50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4175.D
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 2103			Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 2103				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	94		50 - 150
TBA-d9 (Surr)	144		50 - 150

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-255927	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254437	Lab File ID:	26d120414.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2014 0243			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	4.9		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254416	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0711			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	25		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.59		0.060	0.060
Magnesium, Dissolved	11		0.050	0.050
Potassium, Dissolved	2.4		1.0	1.0
Sodium, Dissolved	15		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	114SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0008			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.026		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	0.0028		0.0020	0.0020
Lead, Total	ND		0.0010	0.0010
Manganese, Total	1.2		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

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1
Client Matrix: Water

Date Sampled: 11/19/2014 1003
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	184SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0345			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

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	ND		0.0030	0.0030
Copper, Dissolved	0.0033		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: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257019	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0504			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				

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:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0822			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

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	8.5		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	11		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	117AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0017			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0044		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0043		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	0.0038		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2
Client Matrix: Water

Date Sampled: 11/19/2014 1045
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	185SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0348			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0044		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0048		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

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257019	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0507			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	0.38		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0824			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	18		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.38		0.060	0.060
Magnesium, Dissolved	7.4		0.050	0.050
Potassium, Dissolved	1.5		1.0	1.0
Sodium, Dissolved	4.5		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	122SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0032			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

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	ND		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.20		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

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3
Client Matrix: Water

Date Sampled: 11/19/2014 1311
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	186SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0351			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0047		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	0.20		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: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257019	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0509			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				

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:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0827			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	18		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	ND		0.060	0.060
Magnesium, Dissolved	11		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	6.1		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	123SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0035			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0051		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	0.0058		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	0.0036		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4
Client Matrix: Water

Date Sampled: 11/19/2014 1422
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	187SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0354			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0051		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	0.0015		0.0010	0.0010
Nickel, Dissolved	ND		0.0040	0.0040
Selenium, Dissolved	ND		0.0010	0.0010
Silver, Dissolved	ND		0.0020	0.0020
Thallium, Dissolved	ND		0.0010	0.0010
Vanadium, Dissolved	0.0037		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257019	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0512			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				

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:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0830			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	11		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	0.066		0.060	0.060
Magnesium, Dissolved	7.2		0.050	0.050
Potassium, Dissolved	1.1		1.0	1.0
Sodium, Dissolved	6.5		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	124SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0038			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Total	ND		0.0010	0.0010
Barium, Total	0.0024		0.0010	0.0010
Beryllium, Total	ND		0.0010	0.0010
Cadmium, Total	ND		0.00020	0.00020
Chromium, Total	0.0085		0.0030	0.0030
Copper, Total	ND		0.0020	0.0020
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.0020		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	0.0023		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5
Client Matrix: Water

Date Sampled: 11/19/2014 1509
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	188SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0357			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	ND		0.0010	0.0010
Barium, Dissolved	0.0021		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	ND		0.00020	0.00020
Chromium, Dissolved	0.0093		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	0.0025		0.0020	0.0020
Zinc, Dissolved	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257019	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0515			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				

Analyte	Result (mg/L)	Qualifier	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	5.0		0.060	0.060

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-257020	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0832			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	9.1		0.040	0.040
Cobalt, Dissolved	ND		0.0030	0.0030
Iron, Dissolved	5.1		0.060	0.060
Magnesium, Dissolved	4.1		0.050	0.050
Potassium, Dissolved	ND		1.0	1.0
Sodium, Dissolved	3.3		1.0	1.0

6020 Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254429	Lab File ID:	125SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0041			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				

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
Lead, Total	ND		0.0010	0.0010
Manganese, Total	0.10		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	0.0027		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Client: Waste Management

Job Number: 280-62813-1

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7
Client Matrix: Water

Date Sampled: 11/19/2014 1236
Date Received: 11/21/2014 1040

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-254731	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-254469	Lab File ID:	189SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0400			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				

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	0.11		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: Waste Management

Job Number: 280-62813-1

General Chemistry

Client Sample ID: **MW-34C**

Lab Sample ID: 280-62813-1

Client Matrix: Water

Date Sampled: 11/19/2014 1003

Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	4.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1314						
Sulfate	5.1		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1314						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1402						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	110		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 2002						
Alkalinity, Bicarbonate (As CaCO3)	110		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 2002						
Total Dissolved Solids (TDS)	190		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	32		mg/L	6.7	6.7	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254746	Analysis Date: 11/24/2014 2130						

General Chemistry

Client Sample ID: **MW-34A**

Lab Sample ID: 280-62813-2 Date Sampled: 11/19/2014 1045
Client Matrix: Water Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	3.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1330						
Sulfate	2.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1330						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1408						
Nitrate as N	0.77		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1944						
Alkalinity, Bicarbonate (As CaCO3)	79		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1944						
Total Dissolved Solids (TDS)	140		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254746	Analysis Date: 11/24/2014 2145						

Client: Waste Management

Job Number: 280-62813-1

General Chemistry

Client Sample ID: **MW-33C**

Lab Sample ID: 280-62813-3

Client Matrix: Water

Date Sampled: 11/19/2014 1311

Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.8		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1431						
Sulfate	7.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1431						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1410						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1936						
Alkalinity, Bicarbonate (As CaCO3)	66		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1936						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	5.6		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254746	Analysis Date: 11/24/2014 2237						

General Chemistry

Client Sample ID: **MW-15R**

Lab Sample ID: 280-62813-4 Date Sampled: 11/19/2014 1422
Client Matrix: Water Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	2.3		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1447						
Sulfate	5.0		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1447						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1412						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	84		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1931						
Alkalinity, Bicarbonate (As CaCO3)	84		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1931						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254746	Analysis Date: 11/24/2014 2252						

General Chemistry

Client Sample ID: **MW-36A**

Lab Sample ID: 280-62813-5 Date Sampled: 11/19/2014 1509
Client Matrix: Water Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.5		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1502						
Sulfate	2.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1502						
Ammonia (as N)	ND		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1414						
Nitrate as N	0.94		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	56		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1940						
Alkalinity, Bicarbonate (As CaCO3)	56		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1940						
Total Dissolved Solids (TDS)	110		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	ND		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	ND		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-254746	Analysis Date: 11/24/2014 2306						

General Chemistry

Client Sample ID: **MW-33A**

Lab Sample ID: 280-62813-7 Date Sampled: 11/19/2014 1236
Client Matrix: Water Date Received: 11/21/2014 1040

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	1.7		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1518						
Sulfate	1.4		mg/L	1.0	1.0	1.0	300.0
Analysis Batch: 280-255045	Analysis Date: 11/27/2014 1518						
Ammonia (as N)	0.21		mg/L	0.030	0.030	1.0	350.1
Analysis Batch: 280-254661	Analysis Date: 11/24/2014 1430						
Nitrate as N	ND		mg/L	0.050	0.050	1.0	353.2
Analysis Batch: 280-255377	Analysis Date: 11/21/2014 2243						
Alkalinity, Total (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1958						
Alkalinity, Bicarbonate (As CaCO3)	36		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-254675	Analysis Date: 11/24/2014 1958						
Total Dissolved Solids (TDS)	73		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 280-254584	Analysis Date: 11/24/2014 1422						
Total Suspended Solids	13		mg/L	4.0	4.0	1.0	SM 2540D
Analysis Batch: 280-254309	Analysis Date: 11/22/2014 1025						
Total Organic Carbon - Average	3.0		mg/L	1.0	1.0	1.0	SM 5310B
Analysis Batch: 280-255070	Analysis Date: 11/26/2014 1911						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-62813-1

Lab Section	Qualifier	Description
GC/MS VOA		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-215927					
LCS 480-215927/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-215927/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-215927/8	Method Blank	T	Water	8260C SIM	
280-62813-1	MW-34C	T	Water	8260C SIM	
280-62813-2	MW-34A	T	Water	8260C SIM	
280-62813-3	MW-33C	T	Water	8260C SIM	
280-62813-4	MW-15R	T	Water	8260C SIM	
280-62813-5	MW-36A	T	Water	8260C SIM	
280-62813-6TB	TRIP BLANK	T	Water	8260C SIM	
280-62813-7	MW-33A	T	Water	8260C SIM	
Analysis Batch:480-216556					
LCS 480-216556/28	Lab Control Sample	T	Water	8260C	
MB 480-216556/7	Method Blank	T	Water	8260C	
280-62813-1	MW-34C	T	Water	8260C	
280-62813-2	MW-34A	T	Water	8260C	
280-62813-3	MW-33C	T	Water	8260C	
280-62813-4	MW-15R	T	Water	8260C	
280-62813-5	MW-36A	T	Water	8260C	
280-62813-6TB	TRIP BLANK	T	Water	8260C	
280-62813-7	MW-33A	T	Water	8260C	
480-71667-N-1 MS	Matrix Spike	T	Water	8260C	
480-71667-N-1 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-254414					
LCS 280-254414/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254414/1-A	Method Blank	R	Water	3005A	
280-62813-2	MW-34A	D	Water	3005A	
280-62813-3	MW-33C	D	Water	3005A	
280-62813-4	MW-15R	D	Water	3005A	
280-62813-5	MW-36A	D	Water	3005A	
280-62813-7	MW-33A	D	Water	3005A	
280-62814-D-6-B MS	Matrix Spike	D	Water	3005A	
280-62814-D-6-C MSD	Matrix Spike Duplicate	D	Water	3005A	
Prep Batch: 280-254416					
LCS 280-254416/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254416/1-A	Method Blank	R	Water	3005A	
280-62813-1	MW-34C	D	Water	3005A	
280-62907-F-1-B MS	Matrix Spike	D	Water	3005A	
280-62907-F-1-B MS ^5	Matrix Spike	D	Water	3005A	
280-62907-F-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62907-F-1-C MSD ^5	Matrix Spike Duplicate	D	Water	3005A	
Prep Batch: 280-254429					
LCS 280-254429/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254429/1-A	Method Blank	R	Water	3005A	
280-62813-1	MW-34C	R	Water	3005A	
280-62813-2	MW-34A	R	Water	3005A	
280-62813-2MS	Matrix Spike	R	Water	3005A	
280-62813-2MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62813-3	MW-33C	R	Water	3005A	
280-62813-4	MW-15R	R	Water	3005A	
280-62813-5	MW-36A	R	Water	3005A	
280-62813-7	MW-33A	R	Water	3005A	
Prep Batch: 280-254436					
LCS 280-254436/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254436/1-A	Method Blank	R	Water	3005A	
280-62813-2	MW-34A	R	Water	3005A	
280-62813-3	MW-33C	R	Water	3005A	
280-62813-4	MW-15R	R	Water	3005A	
280-62813-5	MW-36A	R	Water	3005A	
280-62813-7	MW-33A	R	Water	3005A	
280-62814-E-1-C MS	Matrix Spike	R	Water	3005A	
280-62814-E-1-D MSD	Matrix Spike Duplicate	R	Water	3005A	

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-254437					
LCS 280-254437/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254437/1-A	Method Blank	R	Water	3005A	
280-62810-N-1-C MS	Matrix Spike	R	Water	3005A	
280-62810-N-1-D MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62813-1	MW-34C	R	Water	3005A	
Prep Batch: 280-254469					
LCS 280-254469/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254469/1-A	Method Blank	R	Water	3005A	
280-62813-1	MW-34C	D	Water	3005A	
280-62813-2	MW-34A	D	Water	3005A	
280-62813-3	MW-33C	D	Water	3005A	
280-62813-4	MW-15R	D	Water	3005A	
280-62813-5	MW-36A	D	Water	3005A	
280-62813-7	MW-33A	D	Water	3005A	
280-62814-D-2-C MS	Matrix Spike	D	Water	3005A	
280-62814-D-2-D MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-254731					
LCS 280-254429/2-A	Lab Control Sample	R	Water	6020	280-254429
MB 280-254429/1-A	Method Blank	R	Water	6020	280-254429
LCS 280-254469/2-A	Lab Control Sample	R	Water	6020	280-254469
MB 280-254469/1-A	Method Blank	R	Water	6020	280-254469
280-62813-1	MW-34C	R	Water	6020	280-254429
280-62813-1	MW-34C	D	Water	6020	280-254469
280-62813-2	MW-34A	R	Water	6020	280-254429
280-62813-2MS	Matrix Spike	R	Water	6020	280-254429
280-62813-2MSD	Matrix Spike Duplicate	R	Water	6020	280-254429
280-62813-2	MW-34A	D	Water	6020	280-254469
280-62813-3	MW-33C	R	Water	6020	280-254429
280-62813-3	MW-33C	D	Water	6020	280-254469
280-62813-4	MW-15R	R	Water	6020	280-254429
280-62813-4	MW-15R	D	Water	6020	280-254469
280-62813-5	MW-36A	R	Water	6020	280-254429
280-62813-5	MW-36A	D	Water	6020	280-254469
280-62813-7	MW-33A	R	Water	6020	280-254429
280-62813-7	MW-33A	D	Water	6020	280-254469
280-62814-D-2-C MS	Matrix Spike	D	Water	6020	280-254469
280-62814-D-2-D MSD	Matrix Spike Duplicate	D	Water	6020	280-254469

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-255927					
LCS 280-254437/2-A	Lab Control Sample	R	Water	6010B	280-254437
MB 280-254437/1-A	Method Blank	R	Water	6010B	280-254437
280-62810-N-1-C MS	Matrix Spike	R	Water	6010B	280-254437
280-62810-N-1-D MSD	Matrix Spike Duplicate	R	Water	6010B	280-254437
280-62813-1	MW-34C	R	Water	6010B	280-254437
Analysis Batch:280-257019					
LCS 280-254436/2-A	Lab Control Sample	R	Water	6010B	280-254436
MB 280-254436/1-A	Method Blank	R	Water	6010B	280-254436
280-62813-2	MW-34A	R	Water	6010B	280-254436
280-62813-3	MW-33C	R	Water	6010B	280-254436
280-62813-4	MW-15R	R	Water	6010B	280-254436
280-62813-5	MW-36A	R	Water	6010B	280-254436
280-62813-7	MW-33A	R	Water	6010B	280-254436
280-62814-E-1-C MS	Matrix Spike	R	Water	6010B	280-254436
280-62814-E-1-D MSD	Matrix Spike Duplicate	R	Water	6010B	280-254436
Analysis Batch:280-257020					
LCS 280-254414/2-A	Lab Control Sample	R	Water	6010B	280-254414
MB 280-254414/1-A	Method Blank	R	Water	6010B	280-254414
LCS 280-254416/2-A	Lab Control Sample	R	Water	6010B	280-254416
MB 280-254416/1-A	Method Blank	R	Water	6010B	280-254416
280-62813-1	MW-34C	D	Water	6010B	280-254416
280-62813-2	MW-34A	D	Water	6010B	280-254414
280-62813-3	MW-33C	D	Water	6010B	280-254414
280-62813-4	MW-15R	D	Water	6010B	280-254414
280-62813-5	MW-36A	D	Water	6010B	280-254414
280-62813-7	MW-33A	D	Water	6010B	280-254414
280-62814-D-6-B MS	Matrix Spike	D	Water	6010B	280-254414
280-62814-D-6-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-254414
280-62907-F-1-B MS	Matrix Spike	D	Water	6010B	280-254416
280-62907-F-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-254416
Analysis Batch:280-257163					
280-62907-F-1-B MS ^5	Matrix Spike	D	Water	6010B	280-254416
280-62907-F-1-C MSD ^5	Matrix Spike Duplicate	D	Water	6010B	280-254416

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254309					
LCS 280-254309/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-254309/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-254309/3	Method Blank	T	Water	SM 2540D	
280-62813-1	MW-34C	T	Water	SM 2540D	
280-62813-1DU	Duplicate	T	Water	SM 2540D	
280-62813-2	MW-34A	T	Water	SM 2540D	
280-62813-3	MW-33C	T	Water	SM 2540D	
280-62813-4	MW-15R	T	Water	SM 2540D	
280-62813-5	MW-36A	T	Water	SM 2540D	
280-62813-7	MW-33A	T	Water	SM 2540D	
Analysis Batch:280-254584					
LCS 280-254584/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-254584/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-254584/1	Method Blank	T	Water	SM 2540C	
280-62813-1	MW-34C	T	Water	SM 2540C	
280-62813-1DU	Duplicate	T	Water	SM 2540C	
280-62813-2	MW-34A	T	Water	SM 2540C	
280-62813-3	MW-33C	T	Water	SM 2540C	
280-62813-4	MW-15R	T	Water	SM 2540C	
280-62813-5	MW-36A	T	Water	SM 2540C	
280-62813-7	MW-33A	T	Water	SM 2540C	
Analysis Batch:280-254661					
LCS 280-254661/156	Lab Control Sample	T	Water	350.1	
LCSD 280-254661/157	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-254661/158	Method Blank	T	Water	350.1	
280-62813-1	MW-34C	T	Water	350.1	
280-62813-1MS	Matrix Spike	T	Water	350.1	
280-62813-1MSD	Matrix Spike Duplicate	T	Water	350.1	
280-62813-2	MW-34A	T	Water	350.1	
280-62813-3	MW-33C	T	Water	350.1	
280-62813-4	MW-15R	T	Water	350.1	
280-62813-5	MW-36A	T	Water	350.1	
280-62813-7	MW-33A	T	Water	350.1	

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254675					
LCS 280-254675/31	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-254675/32	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-254675/33	Method Blank	T	Water	SM 2320B	
280-62811-A-3 DU	Duplicate	T	Water	SM 2320B	
280-62813-1	MW-34C	T	Water	SM 2320B	
280-62813-2	MW-34A	T	Water	SM 2320B	
280-62813-3	MW-33C	T	Water	SM 2320B	
280-62813-4	MW-15R	T	Water	SM 2320B	
280-62813-5	MW-36A	T	Water	SM 2320B	
280-62813-7	MW-33A	T	Water	SM 2320B	
Analysis Batch:280-254746					
LCS 280-254746/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254746/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254746/5	Method Blank	T	Water	SM 5310B	
280-62813-1	MW-34C	T	Water	SM 5310B	
280-62813-2	MW-34A	T	Water	SM 5310B	
280-62813-2MS	Matrix Spike	T	Water	SM 5310B	
280-62813-2MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-62813-3	MW-33C	T	Water	SM 5310B	
280-62813-4	MW-15R	T	Water	SM 5310B	
280-62813-5	MW-36A	T	Water	SM 5310B	
Analysis Batch:280-255045					
LCS 280-255045/4	Lab Control Sample	T	Water	300.0	
LCSD 280-255045/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-255045/6	Method Blank	T	Water	300.0	
280-62813-1	MW-34C	T	Water	300.0	
280-62813-2	MW-34A	T	Water	300.0	
280-62813-2DU	Duplicate	T	Water	300.0	
280-62813-2MS	Matrix Spike	T	Water	300.0	
280-62813-2MSD	Matrix Spike Duplicate	T	Water	300.0	
280-62813-3	MW-33C	T	Water	300.0	
280-62813-4	MW-15R	T	Water	300.0	
280-62813-5	MW-36A	T	Water	300.0	
280-62813-7	MW-33A	T	Water	300.0	
Analysis Batch:280-255070					
LCS 280-255070/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-255070/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-255070/5	Method Blank	T	Water	SM 5310B	
280-62813-7	MW-33A	T	Water	SM 5310B	
280-62905-F-7 MS	Matrix Spike	T	Water	SM 5310B	
280-62905-F-7 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-62813-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-255377					
MB 280-255377/1	Method Blank	T	Water	353.2	
280-62813-1	MW-34C	T	Water	353.2	
280-62813-2	MW-34A	T	Water	353.2	
280-62813-3	MW-33C	T	Water	353.2	
280-62813-4	MW-15R	T	Water	353.2	
280-62813-5	MW-36A	T	Water	353.2	
280-62813-7	MW-33A	T	Water	353.2	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-62813-1

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
280-62813-1	MW-34C	104	100	99
280-62813-2	MW-34A	99	98	99
280-62813-3	MW-33C	103	98	99
280-62813-4	MW-15R	103	98	100
280-62813-5	MW-36A	103	98	97
280-62813-6	TRIP BLANK	102	97	101
280-62813-7	MW-33A	105	100	97
MB 480-216556/7		102	100	101
LCS 480-216556/28		102	101	101
480-71667-N-1 MS		105	98	101
480-71667-N-1 MSD		100	98	98

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: 280-62813-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-62813-1	MW-34C	96	153X
280-62813-2	MW-34A	96	143
280-62813-3	MW-33C	96	117
280-62813-4	MW-15R	97	153X
280-62813-5	MW-36A	95	146
280-62813-6	TRIP BLANK	100	114
280-62813-7	MW-33A	94	144
MB 480-215927/8		97	112
LCS 480-215927/5		107	109
LCSD 480-215927/6		100	120

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216556/7	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2313.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1411	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1411				
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: 280-62813-1

Method Blank - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216556/7	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2313.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1411	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1411				
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		0.50	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: 280-62813-1

Method Blank - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

Lab Sample ID:	MB 480-216556/7	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2313.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1411	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1411				
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)	102	66 - 137
4-Bromofluorobenzene (Surr)	100	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Method Blank TICs- Batch: 480-216PP6

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62813-1

Lab Control Sam5le - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

Lab Sample ID:	LCS 480-216556/28	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2311.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 1323	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 1323				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	29.0	116	71 - 129	
1,1-Dichloroethene	25.0	28.8	115	58 - 121	
1,2,4-Trimethylbenzene	25.0	30.0	120	76 - 121	
1,2-Dichlorobenzene	25.0	28.9	115	80 - 124	
1,2-Dichloroethane	25.0	28.0	112	75 - 127	
Benzene	25.0	28.7	115	71 - 124	
Chlorobenzene	25.0	29.0	116	72 - 120	
cis-1,2-Dichloroethene	25.0	27.5	110	74 - 124	
Ethylbenzene	25.0	30.5	122	77 - 123	
Methyl tert-butyl ether	25.0	27.3	109	64 - 127	
m-Xylene & p-Xylene	25.0	29.4	118	76 - 122	
o-Xylene	25.0	29.6	119	76 - 122	
Tetrachloroethene	25.0	29.3	117	74 - 122	
Toluene	25.0	28.8	115	80 - 122	
trans-1,2-Dichloroethene	25.0	29.3	117	73 - 127	
Trichloroethene	25.0	29.2	117	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71667-N-1 MS	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2332.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 2156			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 2156				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71667-N-1 MSD	Analysis Batch:	480-216556	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N2333.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/01/2014 2221			Final Weight/Volume:	5 mL
Prep Date:	12/01/2014 2221				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	121	118	71 - 129	2	20		
1,1-Dichloroethene	126	122	58 - 121	3	16	F1	F1
1,2,4-Trimethylbenzene	123	123	76 - 121	0	20	F1	F1
1,2-Dichlorobenzene	119	119	80 - 124	0	20		
1,2-Dichloroethane	116	113	75 - 127	3	20		
Benzene	120	114	71 - 124	4	13		
Chlorobenzene	120	117	72 - 120	3	25		
cis-1,2-Dichloroethene	119	112	74 - 124	6	15		
Ethylbenzene	124	120	77 - 123	3	15	F1	
m-Xylene & p-Xylene	119	115	76 - 122	3	16		
o-Xylene	122	118	76 - 122	4	16		
Tetrachloroethene	122	115	74 - 122	6	20		
Toluene	120	114	80 - 122	6	15		
trans-1,2-Dichloroethene	124	121	73 - 127	2	20		
Trichloroethene	122	119	74 - 123	2	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	100	66 - 137
4-Bromofluorobenzene (Surr)	98	98	73 - 120
Toluene-d8 (Surr)	101	98	71 - 126

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 480-216PP6

Method: 8260C
pre5aration: P030C

MS Lab Sample ID:	480-71667-N-1 MS	Units:	ug/L	MSD Lab Sample ID:	480-71667-N-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	4.0			Dilution:	4.0
Analysis Date:	12/01/2014 2156			Analysis Date:	12/01/2014 2221
Prep Date:	12/01/2014 2156			Prep Date:	12/01/2014 2221
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		100	100	121		118	
1,1-Dichloroethene	ND		100	100	126	F1	122	F1
1,2,4-Trimethylbenzene	ND		100	100	123	F1	123	F1
1,2-Dichlorobenzene	ND		100	100	119		119	
1,2-Dichloroethane	ND		100	100	116		113	
Benzene	5.1		100	100	125		120	
Chlorobenzene	ND		100	100	120		117	
cis-1,2-Dichloroethene	ND		100	100	119		112	
Ethylbenzene	ND		100	100	124	F1	120	
m-Xylene & p-Xylene	3.2	J	100	100	123		119	
o-Xylene	ND		100	100	122		118	
Tetrachloroethene	ND		100	100	122		115	
Toluene	ND		100	100	120		114	
trans-1,2-Dichloroethene	ND		100	100	124		121	
Trichloroethene	ND		100	100	122		119	

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 480-21P729

Method: 8260C SIM
pre5aration: P030C

Lab Sample ID:	MB 480-215927/8	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4167.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1734	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1734				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	97	50 - 150
TBA-d9 (Surr)	112	50 - 150

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 480-21P729

Method: 8260C SIM
pre5aration: P030C

LCS Lab Sample ID:	LCS 480-215927/5	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4164.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1516	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1516				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-215927/6	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4165.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1540	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1540				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	133	129	50 - 150	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	107	100	50 - 150
TBA-d9 (Surr)	109	120	50 - 150

Client: Waste Management

Job Number: 280-62813-1

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 480-21P729

Method: 8260C SIM
pre5aration: P030C

LCS Lab Sample ID:	LCS 480-215927/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-215927/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 1516			Analysis Date:	11/25/2014 1540
Prep Date:	11/25/2014 1516			Prep Date:	11/25/2014 1540
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	0.266	0.258

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4414

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254414/1-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0817	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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 Sam5le - Batch: 280-2P4414

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254414/2-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0819	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	53.5	107	90 - 111	
Cobalt, Dissolved	0.500	0.531	106	89 - 111	
Iron, Dissolved	1.00	1.07	107	89 - 115	
Magnesium, Dissolved	50.0	52.0	104	90 - 113	
Potassium, Dissolved	50.0	53.0	106	89 - 114	
Sodium, Dissolved	50.0	55.4	111	90 - 115	

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4414

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62814-D-6-B MS	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0904			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-D-6-C MSD	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0907			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	106	105	48 - 153	1	20		
Cobalt, Dissolved	107	106	82 - 119	1	20		
Iron, Dissolved	108	107	52 - 155	1	20		
Magnesium, Dissolved	105	103	62 - 146	2	20		
Potassium, Dissolved	107	106	76 - 132	1	20		
Sodium, Dissolved	112	111	70 - 203	0	20		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4414

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62814-D-6-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/13/2014 0904		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62814-D-6-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/13/2014 0907
Prep Date:	11/24/2014 1245
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Calcium, Dissolved	25	50.0	50.0	78.4	77.7
Cobalt, Dissolved	ND	0.500	0.500	0.535	0.528
Iron, Dissolved	ND	1.00	1.00	1.08	1.07
Magnesium, Dissolved	15	50.0	50.0	66.8	65.8
Potassium, Dissolved	3.1	50.0	50.0	56.6	56.1
Sodium, Dissolved	9.0	50.0	50.0	64.9	64.5

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254416/1-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0618	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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 Sam5le - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254416/2-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0620	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	55.4	111	90 - 111	
Cobalt, Dissolved	0.500	0.545	109	89 - 111	
Iron, Dissolved	1.00	1.11	111	89 - 115	
Magnesium, Dissolved	50.0	53.9	108	90 - 113	
Potassium, Dissolved	50.0	54.9	110	89 - 114	
Sodium, Dissolved	50.0	57.1	114	90 - 115	

Client: Waste Management Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62907-F-1-B MS	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0702			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62907-F-1-C MSD	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0705			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	103	106	48 - 153	1	20		
Cobalt, Dissolved	104	104	82 - 119	0	20		
Iron, Dissolved	110	123	52 - 155	2	20	4	4
Magnesium, Dissolved	101	106	62 - 146	1	20		
Sodium, Dissolved	120	166	70 - 203	1	20	4	4

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62907-F-1-B MS ^5	Analysis Batch:	280-257163	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26b121414.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2014 2059			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62907-F-1-C MSD ^5	Analysis Batch:	280-257163	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254416	Lab File ID:	26b121414.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/14/2014 2102			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium, Dissolved	63	94	76 - 132	3	20	4	4

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62907-F-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/13/2014 0702		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62907-F-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/13/2014 0705
Prep Date:	11/24/2014 1245
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Calcium, Dissolved	140	50.0	50.0	190		192	
Cobalt, Dissolved	0.025	0.500	0.500	0.545		0.544	
Iron, Dissolved	5.2	1.00	1.00	6.30	4	6.44	4
Magnesium, Dissolved	140	50.0	50.0	195		198	
Sodium, Dissolved	1600	50.0	50.0	1670	4	1700	4

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4416

Method: 6010B
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62907-F-1-B MS ^5	Units:	mg/L
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	12/14/2014 2059		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62907-F-1-C MSD ^5
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	12/14/2014 2102
Prep Date:	11/24/2014 1245
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Potassium, Dissolved	470	50.0	50.0	499	4	514	4

Client: Waste Management Job Number: 280-62813-1

Method Blank - Batch: 280-2P4436

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254436/1-A	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0459	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
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 Sam5le - Batch: 280-2P4436

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254436/2-A	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0502	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.537	107	89 - 111	
Iron, Total	1.00	1.10	110	89 - 115	

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4436

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62814-E-1-C MS	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0533			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-E-1-D MSD	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0536			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	106	107	82 - 119	1	20		
Iron, Total	112	113	52 - 155	0	20		

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4436

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62814-E-1-C MS	Units: mg/L	MSD Lab Sample ID:	280-62814-E-1-D MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/13/2014 0533		Analysis Date:	12/13/2014 0536	
Prep Date:	11/25/2014 0715		Prep Date:	11/25/2014 0715	
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	0.530	0.535
Iron, Total	ND	1.00	1.00	1.12	1.13

Client: Waste Management Job Number: 280-62813-1

Method Blank - Batch: 280-2P4439

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254437/1-A	Analysis Batch:	280-255927	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254437	Lab File ID:	26d120414.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2014 0145	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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 Sam5le - Batch: 280-2P4439

Method: 6010B
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254437/2-A	Analysis Batch:	280-255927	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254437	Lab File ID:	26d120414.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2014 0147	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.546	109	89 - 111	
Iron, Total	1.00	1.09	109	89 - 115	

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4439

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62810-N-1-C MS	Analysis Batch:	280-255927	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254437	Lab File ID:	26d120414.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2014 0206			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62810-N-1-D MSD	Analysis Batch:	280-255927	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254437	Lab File ID:	26d120414.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/05/2014 0209			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	104	104	82 - 119	1	20		
Iron, Total	109	107	52 - 155	1	20		

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4439

Method: 6010B
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62810-N-1-C MS	Units: mg/L	MSD Lab Sample ID:	280-62810-N-1-D MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/05/2014 0206		Analysis Date:	12/05/2014 0209	
Prep Date:	11/24/2014 1245		Prep Date:	11/24/2014 1245	
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	0.522	0.519
Iron, Total	ND	1.00	1.00	1.09	1.07

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4427

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254429/1-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254429	Lab File ID:	098_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2318	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				
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 Sam5le - Batch: 280-2P4427

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254429/2-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254429	Lab File ID:	099_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/24/2014 2321	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0380	95	85 - 115	
Barium, Total	0.0400	0.0412	103	85 - 118	
Beryllium, Total	0.0400	0.0408	102	80 - 125	
Cadmium, Total	0.0400	0.0401	100	85 - 115	
Chromium, Total	0.0400	0.0380	95	84 - 121	
Copper, Total	0.0400	0.0408	102	85 - 119	
Lead, Total	0.0400	0.0409	102	85 - 118	
Manganese, Total	0.0400	0.0395	99	85 - 117	
Nickel, Total	0.0400	0.0398	100	85 - 119	
Selenium, Total	0.0400	0.0434	109	77 - 122	
Silver, Total	0.0400	0.0391	98	85 - 115	
Thallium, Total	0.0400	0.0407	102	85 - 118	
Vanadium, Total	0.0400	0.0377	94	85 - 120	
Zinc, Total	0.0400	0.0440	110	83 - 122	

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4427

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62813-2	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254429	Lab File ID:	120_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0026			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62813-2	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254429	Lab File ID:	121_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0029			Final Weight/Volume:	50 mL
Prep Date:	11/23/2014 1531				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Total	98	106	85 - 115	8	20		
Barium, Total	104	113	85 - 118	7	20		
Beryllium, Total	102	113	80 - 125	10	20		
Cadmium, Total	99	103	85 - 115	4	20		
Chromium, Total	94	101	84 - 121	6	20		
Copper, Total	99	106	85 - 119	7	20		
Lead, Total	98	106	85 - 118	8	20		
Manganese, Total	101	107	85 - 117	6	20		
Nickel, Total	105	112	85 - 119	7	20		
Selenium, Total	111	119	77 - 122	7	20		
Silver, Total	96	102	85 - 115	7	20		
Thallium, Total	99	107	85 - 118	8	20		
Vanadium, Total	95	101	85 - 120	5	20		
Zinc, Total	110	116	83 - 122	5	20		

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4427

Method: 6020
pre5aration: 300PA
Total Recoverable

MS Lab Sample ID:	280-62813-2	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/25/2014 0026		
Prep Date:	11/23/2014 1531		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62813-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/25/2014 0029
Prep Date:	11/23/2014 1531
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	0.0392	0.0423
Barium, Total	0.0044	0.0400	0.0400	0.0461	0.0496
Beryllium, Total	ND	0.0400	0.0400	0.0407	0.0451
Cadmium, Total	ND	0.0400	0.0400	0.0397	0.0412
Chromium, Total	0.0043	0.0400	0.0400	0.0421	0.0449
Copper, Total	ND	0.0400	0.0400	0.0395	0.0425
Lead, Total	ND	0.0400	0.0400	0.0391	0.0425
Manganese, Total	ND	0.0400	0.0400	0.0406	0.0429
Nickel, Total	ND	0.0400	0.0400	0.0420	0.0449
Selenium, Total	ND	0.0400	0.0400	0.0445	0.0478
Silver, Total	ND	0.0400	0.0400	0.0382	0.0409
Thallium, Total	ND	0.0400	0.0400	0.0395	0.0427
Vanadium, Total	0.0038	0.0400	0.0400	0.0420	0.0444
Zinc, Total	ND	0.0400	0.0400	0.0442	0.0464

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4467

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	MB 280-254469/1-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	182_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0338	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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 Sam5le - Batch: 280-2P4467

Method: 6020
pre5aration: 300PA
Total Recoverable

Lab Sample ID:	LCS 280-254469/2-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	183_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0341	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0368	92	85 - 115	
Barium, Dissolved	0.0400	0.0398	100	85 - 118	
Beryllium, Dissolved	0.0400	0.0397	99	80 - 125	
Cadmium, Dissolved	0.0400	0.0396	99	85 - 115	
Chromium, Dissolved	0.0400	0.0392	98	84 - 121	
Copper, Dissolved	0.0400	0.0410	103	85 - 119	
Lead, Dissolved	0.0400	0.0395	99	85 - 118	
Manganese, Dissolved	0.0400	0.0400	100	85 - 117	
Nickel, Dissolved	0.0400	0.0405	101	85 - 119	
Selenium, Dissolved	0.0400	0.0423	106	77 - 122	
Silver, Dissolved	0.0400	0.0403	101	85 - 115	
Thallium, Dissolved	0.0400	0.0395	99	85 - 118	
Vanadium, Dissolved	0.0400	0.0387	97	85 - 120	
Zinc, Dissolved	0.0400	0.0424	106	83 - 122	

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4467

Method: 6020
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62814-D-2-C MS	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	196_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0421			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-D-2-D MSD	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	197_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0424			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	102	101	85 - 115	1	20		
Barium, Dissolved	106	101	85 - 118	4	20		
Beryllium, Dissolved	104	102	80 - 125	2	20		
Cadmium, Dissolved	101	101	85 - 115	1	20		
Chromium, Dissolved	104	101	84 - 121	3	20		
Copper, Dissolved	106	102	85 - 119	4	20		
Lead, Dissolved	101	98	85 - 118	3	20		
Manganese, Dissolved	288	62	85 - 117	4	20	4	4
Nickel, Dissolved	107	104	85 - 119	3	20		
Selenium, Dissolved	110	106	77 - 122	4	20		
Silver, Dissolved	102	100	85 - 115	2	20		
Thallium, Dissolved	102	100	85 - 118	2	20		
Vanadium, Dissolved	105	102	85 - 120	3	20		
Zinc, Dissolved	101	96	83 - 122	4	20		

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4467

Method: 6020
pre5aration: 300PA
Dissolved

MS Lab Sample ID:	280-62814-D-2-C MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/25/2014 0421		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62814-D-2-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/25/2014 0424
Prep Date:	11/24/2014 1245
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	0.0408		0.0402	
Barium, Dissolved	0.0060	0.0400	0.0400	0.0484		0.0464	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0415		0.0406	
Cadmium, Dissolved	ND	0.0400	0.0400	0.0405		0.0402	
Chromium, Dissolved	ND	0.0400	0.0400	0.0416		0.0405	
Copper, Dissolved	ND	0.0400	0.0400	0.0424		0.0408	
Lead, Dissolved	ND	0.0400	0.0400	0.0403		0.0392	
Manganese, Dissolved	2.4	0.0400	0.0400	2.51	4	2.42	4
Nickel, Dissolved	ND	0.0400	0.0400	0.0428		0.0415	
Selenium, Dissolved	ND	0.0400	0.0400	0.0439		0.0424	
Silver, Dissolved	ND	0.0400	0.0400	0.0407		0.0398	
Thallium, Dissolved	ND	0.0400	0.0400	0.0408		0.0399	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0420		0.0409	
Zinc, Dissolved	0.0055	0.0400	0.0400	0.0459		0.0441	

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	MB 280-255045/6	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1120	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 Re5orting Limit Check - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	MRL 280-255045/3	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1034	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	94	50 - 150	
Sulfate	2.50	ND	93	50 - 150	

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-255045/4	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1049	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-255045/5	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1105	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	99	99	90 - 110	0	10		
Sulfate	98	98	90 - 110	0	10		

Client: Waste Management

Job Number: 280-62813-1

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-255045/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-255045/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/27/2014 1049			Analysis Date:	11/27/2014 1105
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	99.4	99.1
Sulfate	100	100	98.3	98.3

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

MS Lab Sample ID:	280-62813-2	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1401			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-62813-2	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1416			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	107	111	80 - 120	3	20		
Sulfate	106	110	80 - 120	3	20		

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

MS Lab Sample ID:	280-62813-2	Units:	mg/L	MSD Lab Sample ID:	280-62813-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/27/2014 1401			Analysis Date:	11/27/2014 1416
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	3.0	25.0	25.0	29.8	30.7
Sulfate	2.0	25.0	25.0	28.5	29.5

Du5licate - Batch: 280-2PP04P

Method: 300.0
pre5aration: N/A

Lab Sample ID:	280-62813-2	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1345	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	3.0	3.02	0.5	15	
Sulfate	2.0	2.00	0.3	15	

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4661

Method: 3P0.1
pre5aration: N/A

Lab Sample ID:	MB 280-254661/158	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1400	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4661

Method: 3P0.1
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254661/156	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/24/2014 1356	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254661/157	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/24/2014 1358	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	101	90 - 110	0	10		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4661

Method: 3P0.1
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254661/156	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254661/157
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1356			Analysis Date:	11/24/2014 1358
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	2.53	2.54

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4661

Method: 3P0.1
pre5aration: N/A

MS Lab Sample ID:	280-62813-1	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1404			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62813-1	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1406			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	105	90 - 110	1	10		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4661

Method: 3P0.1
pre5aration: N/A

MS Lab Sample ID:	280-62813-1	Units:	mg/L	MSD Lab Sample ID:	280-62813-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1404			Analysis Date:	11/24/2014 1406
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	1.04	1.05

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2PP399

Method: 3P3.2
pre5aration: N/A

Lab Sample ID:	MB 280-255377/1	Analysis Batch:	280-255377	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:	11/21/2014 2243	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: 280-62813-1

Method Blank - Batch: 280-2P469P

Method: SM 2320B
pre5aration: N/A

Lab Sample ID:	MB 280-254675/33	Analysis Batch:	280-254675	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414c.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1856	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P469P

Method: SM 2320B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254675/31	Analysis Batch:	280-254675	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414c.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1847	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254675/32	Analysis Batch:	280-254675	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414c.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1852	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	97	94	90 - 110	3	10		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P469P

Method: SM 2320B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254675/31	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254675/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1847			Analysis Date:	11/24/2014 1852
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	195	189

Client: Waste Management

Job Number: 280-62813-1

Du5licate - Batch: 280-2P469P

Method: SM 2320B
pre5aration: N/A

Lab Sample ID:	280-62811-A-3 DU	Analysis Batch:	280-254675	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414c.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1906	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)	86	89.3	3	10	

Client: Waste Management Job Number: 280-62813-1

Method Blank - Batch: 280-2P4P84

Method: SM 2P40C
pre5aration: N/A

Lab Sample ID:	MB 280-254584/1	Analysis Batch:	280-254584	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:	11/24/2014 1422	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4P84

Method: SM 2P40C
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254584/2	Analysis Batch:	280-254584	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:	11/24/2014 1422	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254584/3	Analysis Batch:	280-254584	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:	11/24/2014 1422	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	101	101	86 - 110	1	20		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4P84

Method: SM 2P40C
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254584/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254584/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1422			Analysis Date:	11/24/2014 1422
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	500	500	506	503

Client: Waste Management

Job Number: 280-62813-1

Du5licate - Batch: 280-2P4P84

Method: SM 2P40C
pre5aration: N/A

Lab Sample ID:	280-62813-1	Analysis Batch:	280-254584	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:	11/24/2014 1422	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)	190	190	1	10	

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2P4307

Method: SM 2P40D
pre5aration: N/A

Lab Sample ID:	MB 280-254309/3	Analysis Batch:	280-254309	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:	11/22/2014 1025	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4307

Method: SM 2P40D
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254309/1	Analysis Batch:	280-254309	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:	100 mL
Analysis Date:	11/22/2014 1025	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254309/2	Analysis Batch:	280-254309	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:	100 mL
Analysis Date:	11/22/2014 1025	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	91	88	86 - 114	3	20		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4307

Method: SM 2P40D
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254309/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254309/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/22/2014 1025			Analysis Date:	11/22/2014 1025
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	91.0	88.0

Client: Waste Management

Job Number: 280-62813-1

Du5licate - Batch: 280-2P4307

Method: SM 2P40D
pre5aration: N/A

Lab Sample ID:	280-62813-1	Analysis Batch:	280-254309	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:	150 mL
Analysis Date:	11/22/2014 1025	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	32	31.3	2	10	

Client: Waste Management Job Number: 280-62813-1

Method Blank - Batch: 280-2P4946

Method: SM P310B
pre5aration: N/A

Lab Sample ID:	MB 280-254746/5	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1702	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2P4946

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254746/3	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1622	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254746/4	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1640	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	98	88 - 112	1	15		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2P4946

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-254746/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254746/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1622			Analysis Date:	11/24/2014 1640
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.2	24.4

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4946

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62813-2	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 2200			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62813-2	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 2217			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	99	99	88 - 112	1	15		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2P4946

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62813-2	Units:	mg/L	MSD Lab Sample ID:	280-62813-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 2200			Analysis Date:	11/24/2014 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
Total Organic Carbon - Average	ND	25.0	25.0	24.7	24.9

Client: Waste Management

Job Number: 280-62813-1

Method Blank - Batch: 280-2PP090

Method: SM P310B
pre5aration: N/A

Lab Sample ID:	MB 280-255070/5	Analysis Batch:	280-255070	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112614.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/26/2014 1514	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 Sam5le/
Lab Control Sam5le Du5licate Recovery Re5ort - Batch: 280-2PP090

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-255070/3	Analysis Batch:	280-255070	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112614.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/26/2014 1438	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-255070/4	Analysis Batch:	280-255070	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112614.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/26/2014 1455	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	99	98	88 - 112	0	15		

Laboratory Control/
Laboratory Du5licate Data Re5ort - Batch: 280-2PP090

Method: SM P310B
pre5aration: N/A

LCS Lab Sample ID:	LCS 280-255070/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-255070/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 1438			Analysis Date:	11/26/2014 1455
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.7	24.6

Client: Waste Management

Job Number: 280-62813-1

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2PP090

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62905-F-7 MS	Analysis Batch:	280-255070	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112614.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/26/2014 1603			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62905-F-7 MSD	Analysis Batch:	280-255070	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112614.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/26/2014 1620			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	100	99	88 - 112	1	15		

Matrix S5ike/
Matrix S5ike Du5licate Recovery Re5ort - Batch: 280-2PP090

Method: SM P310B
pre5aration: N/A

MS Lab Sample ID:	280-62905-F-7 MS	Units:	mg/L	MSD Lab Sample ID:	280-62905-F-7 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 1603			Analysis Date:	11/26/2014 1620
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	11	25.0	25.0	36.3	36.0

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-4 **Client ID:** M1 -7WC

Sample Date/Time: 11/19/2014 10:03 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-G-1		480-216556		12/01/2014 14:46	1	TAL BUF	GTG
A:8260C	280-62813-G-1		480-216556		12/01/2014 14:46	1	TAL BUF	GTG
P:5030C	280-62813-K-1		480-215927		11/25/2014 18:38	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-1		480-215927		11/25/2014 18:38	1	TAL BUF	CDC
P:3005A	280-62813-C-1-B		280-255927	280-254437	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-C-1-B		280-255927	280-254437	12/05/2014 02:43	1	TAL DEN	LLB
P:3005A	280-62813-D-1-A		280-257020	280-254416	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-1-A		280-257020	280-254416	12/13/2014 07:11	1	TAL DEN	SJS
P:3005A	280-62813-C-1-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-1-A		280-254731	280-254429	11/25/2014 00:08	1	TAL DEN	JM
P:3005A	280-62813-D-1-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-1-B		280-254731	280-254469	11/25/2014 03:45	1	TAL DEN	JM
A:300.0	280-62813-A-1		280-255045		11/27/2014 13:14	1	TAL DEN	PS1
A:350.1	280-62813-E-1		280-254661		11/24/2014 14:02	1	TAL DEN	CML
A:353.2	280-62813-A-1		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-1		280-254675		11/24/2014 20:02	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-1		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-1		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-1		280-254746		11/24/2014 21:30	1	TAL DEN	CCJ

Lab ID: 280-62847-4 M3 **Client ID:** M1 -7WC

Sample Date/Time: 11/19/2014 10:03 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-62813-E-1 MS		280-254661		11/24/2014 14:04	1	TAL DEN	CML

Lab ID: 280-62847-4 M3D **Client ID:** M1 -7WC

Sample Date/Time: 11/19/2014 10:03 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:350.1	280-62813-E-1 MSD		280-254661		11/24/2014 14:06	1	TAL DEN	CML

Lab ID: 280-62847-4 D5 **Client ID:** M1 -7WC

Sample Date/Time: 11/19/2014 10:03 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-62813-A-1 DU		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-1 DU		280-254309		11/22/2014 10:25	1	TAL DEN	MW1

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-2 **Client ID:** M1 -7WA

Sample Date/Time: 11/19/2014 10:45 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-I-2		480-216556		12/01/2014 15:10	1	TAL BUF	GTG
A:8260C	280-62813-I-2		480-216556		12/01/2014 15:10	1	TAL BUF	GTG
P:5030C	280-62813-K-2		480-215927		11/25/2014 19:02	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-2		480-215927		11/25/2014 19:02	1	TAL BUF	CDC
P:3005A	280-62813-C-2-D		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62813-C-2-D		280-257019	280-254436	12/13/2014 05:04	1	TAL DEN	SJS
P:3005A	280-62813-D-2-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-2-A		280-257020	280-254414	12/13/2014 08:22	1	TAL DEN	SJS
P:3005A	280-62813-C-2-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-2-A		280-254731	280-254429	11/25/2014 00:17	1	TAL DEN	JM
P:3005A	280-62813-D-2-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-2-B		280-254731	280-254469	11/25/2014 03:48	1	TAL DEN	JM
A:300.0	280-62813-A-2		280-255045		11/27/2014 13:30	1	TAL DEN	PS1
A:350.1	280-62813-E-2		280-254661		11/24/2014 14:08	1	TAL DEN	CML
A:353.2	280-62813-A-2		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-2		280-254675		11/24/2014 19:44	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-2		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-2		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-2		280-254746		11/24/2014 21:45	1	TAL DEN	CCJ

Lab ID: 280-62847-2 M3 **Client ID:** M1 -7WA

Sample Date/Time: 11/19/2014 10:45 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62813-C-2-B MS		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-2-B MS		280-254731	280-254429	11/25/2014 00:26	1	TAL DEN	JM
A:300.0	280-62813-A-2 MS		280-255045		11/27/2014 14:01	1	TAL DEN	PS1
A:SM 5310B	280-62813-E-2 MS		280-254746		11/24/2014 22:00	1	TAL DEN	CCJ

Lab ID: 280-62847-2 M3D **Client ID:** M1 -7WA

Sample Date/Time: 11/19/2014 10:45 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-62813-C-2-C MSD		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-2-C MSD		280-254731	280-254429	11/25/2014 00:29	1	TAL DEN	JM
A:300.0	280-62813-A-2 MSD		280-255045		11/27/2014 14:16	1	TAL DEN	PS1
A:SM 5310B	280-62813-E-2 MSD		280-254746		11/24/2014 22:17	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-2 D5 **Client ID:** M1 -7WA

Sample Date/Time: 11/19/2014 10:45 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-62813-A-2 DU		280-255045		11/27/2014 13:45	1	TAL DEN	PS1

Lab ID: 280-62847-7 **Client ID:** M1 -77C

Sample Date/Time: 11/19/2014 13:11 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-F-3		480-216556		12/01/2014 15:34	1	TAL BUF	GTG
A:8260C	280-62813-F-3		480-216556		12/01/2014 15:34	1	TAL BUF	GTG
P:5030C	280-62813-K-3		480-215927		11/25/2014 19:26	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-3		480-215927		11/25/2014 19:26	1	TAL BUF	CDC
P:3005A	280-62813-C-3-B		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62813-C-3-B		280-257019	280-254436	12/13/2014 05:07	1	TAL DEN	SJS
P:3005A	280-62813-D-3-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-3-A		280-257020	280-254414	12/13/2014 08:24	1	TAL DEN	SJS
P:3005A	280-62813-C-3-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-3-A		280-254731	280-254429	11/25/2014 00:32	1	TAL DEN	JM
P:3005A	280-62813-D-3-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-3-B		280-254731	280-254469	11/25/2014 03:51	1	TAL DEN	JM
A:300.0	280-62813-A-3		280-255045		11/27/2014 14:31	1	TAL DEN	PS1
A:350.1	280-62813-E-3		280-254661		11/24/2014 14:10	1	TAL DEN	CML
A:353.2	280-62813-A-3		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-3		280-254675		11/24/2014 19:36	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-3		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-3		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-3		280-254746		11/24/2014 22:37	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-W **Client ID:** M1 -4SR

Sample Date/Time: 11/19/2014 14:22 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-H-4		480-216556		12/01/2014 15:59	1	TAL BUF	GTG
A:8260C	280-62813-H-4		480-216556		12/01/2014 15:59	1	TAL BUF	GTG
P:5030C	280-62813-K-4		480-215927		11/25/2014 19:50	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-4		480-215927		11/25/2014 19:50	1	TAL BUF	CDC
P:3005A	280-62813-C-4-B		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62813-C-4-B		280-257019	280-254436	12/13/2014 05:09	1	TAL DEN	SJS
P:3005A	280-62813-D-4-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-4-A		280-257020	280-254414	12/13/2014 08:27	1	TAL DEN	SJS
P:3005A	280-62813-C-4-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-4-A		280-254731	280-254429	11/25/2014 00:35	1	TAL DEN	JM
P:3005A	280-62813-D-4-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-4-B		280-254731	280-254469	11/25/2014 03:54	1	TAL DEN	JM
A:300.0	280-62813-A-4		280-255045		11/27/2014 14:47	1	TAL DEN	PS1
A:350.1	280-62813-E-4		280-254661		11/24/2014 14:12	1	TAL DEN	CML
A:353.2	280-62813-A-4		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-4		280-254675		11/24/2014 19:31	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-4		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-4		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-4		280-254746		11/24/2014 22:52	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-S **Client ID:** M1 -76A

Sample Date/Time: 11/19/2014 15:09 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-H-5		480-216556		12/01/2014 16:23	1	TAL BUF	GTG
A:8260C	280-62813-H-5		480-216556		12/01/2014 16:23	1	TAL BUF	GTG
P:5030C	280-62813-K-5		480-215927		11/25/2014 20:15	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-5		480-215927		11/25/2014 20:15	1	TAL BUF	CDC
P:3005A	280-62813-C-5-B		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62813-C-5-B		280-257019	280-254436	12/13/2014 05:12	1	TAL DEN	SJS
P:3005A	280-62813-D-5-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-5-A		280-257020	280-254414	12/13/2014 08:30	1	TAL DEN	SJS
P:3005A	280-62813-C-5-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-5-A		280-254731	280-254429	11/25/2014 00:38	1	TAL DEN	JM
P:3005A	280-62813-D-5-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-5-B		280-254731	280-254469	11/25/2014 03:57	1	TAL DEN	JM
A:300.0	280-62813-A-5		280-255045		11/27/2014 15:02	1	TAL DEN	PS1
A:350.1	280-62813-E-5		280-254661		11/24/2014 14:14	1	TAL DEN	CML
A:353.2	280-62813-A-5		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-5		280-254675		11/24/2014 19:40	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-5		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-5		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-5		280-254746		11/24/2014 23:06	1	TAL DEN	CCJ

Lab ID: 280-62847-6 **Client ID:** URIP BLATN

Sample Date/Time: 11/19/2014 00:00 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-A-6		480-216556		12/01/2014 16:47	1	TAL BUF	GTG
A:8260C	280-62813-A-6		480-216556		12/01/2014 16:47	1	TAL BUF	GTG
P:5030C	280-62813-B-6		480-215927		11/25/2014 20:39	1	TAL BUF	CDC
A:8260C SIM	280-62813-B-6		480-215927		11/25/2014 20:39	1	TAL BUF	CDC

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: 280-62847-K **Client ID:** M1 -77A

Sample Date/Time: 11/19/2014 12:36 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-62813-H-7		480-216556		12/01/2014 17:11	1	TAL BUF	GTG
A:8260C	280-62813-H-7		480-216556		12/01/2014 17:11	1	TAL BUF	GTG
P:5030C	280-62813-K-7		480-215927		11/25/2014 21:03	1	TAL BUF	CDC
A:8260C SIM	280-62813-K-7		480-215927		11/25/2014 21:03	1	TAL BUF	CDC
P:3005A	280-62813-C-7-B		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62813-C-7-B		280-257019	280-254436	12/13/2014 05:15	1	TAL DEN	SJS
P:3005A	280-62813-D-7-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62813-D-7-A		280-257020	280-254414	12/13/2014 08:32	1	TAL DEN	SJS
P:3005A	280-62813-C-7-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	280-62813-C-7-A		280-254731	280-254429	11/25/2014 00:41	1	TAL DEN	JM
P:3005A	280-62813-D-7-B		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62813-D-7-B		280-254731	280-254469	11/25/2014 04:00	1	TAL DEN	JM
A:300.0	280-62813-A-7		280-255045		11/27/2014 15:18	1	TAL DEN	PS1
A:350.1	280-62813-E-7		280-254661		11/24/2014 14:30	1	TAL DEN	CML
A:353.2	280-62813-A-7		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	280-62813-B-7		280-254675		11/24/2014 19:58	1	TAL DEN	CCJ
A:SM 2540C	280-62813-A-7		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	280-62813-B-7		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	280-62813-E-7		280-255070		11/26/2014 19:11	1	TAL DEN	CCJ

Client: Waste Management

Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: MB **Client ID:** T/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 480-216556/7		480-216556		12/01/2014 14:11	1	TAL BUF	GTG
A:8260C	MB 480-216556/7		480-216556		12/01/2014 14:11	1	TAL BUF	GTG
P:5030C	MB 480-215927/8		480-215927		11/25/2014 17:34	1	TAL BUF	CDC
A:8260C SIM	MB 480-215927/8		480-215927		11/25/2014 17:34	1	TAL BUF	CDC
P:3005A	MB 280-254437/1-A		280-255927	280-254437	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	MB 280-254437/1-A		280-255927	280-254437	12/05/2014 01:45	1	TAL DEN	LLB
P:3005A	MB 280-254436/1-A		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	MB 280-254436/1-A		280-257019	280-254436	12/13/2014 04:59	1	TAL DEN	SJS
P:3005A	MB 280-254416/1-A		280-257020	280-254416	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	MB 280-254416/1-A		280-257020	280-254416	12/13/2014 06:18	1	TAL DEN	SJS
P:3005A	MB 280-254414/1-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	MB 280-254414/1-A		280-257020	280-254414	12/13/2014 08:17	1	TAL DEN	SJS
P:3005A	MB 280-254429/1-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	MB 280-254429/1-A		280-254731	280-254429	11/24/2014 23:18	1	TAL DEN	JM
P:3005A	MB 280-254469/1-A		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	MB 280-254469/1-A		280-254731	280-254469	11/25/2014 03:38	1	TAL DEN	JM
A:300.0	MB 280-255045/6		280-255045		11/27/2014 11:20	1	TAL DEN	PS1
A:350.1	MB 280-254661/158		280-254661		11/24/2014 14:00	1	TAL DEN	CML
A:353.2	MB 280-255377/1		280-255377		11/21/2014 22:43	1	TAL DEN	RKS
A:SM 2320B	MB 280-254675/33		280-254675		11/24/2014 18:56	1	TAL DEN	CCJ
A:SM 2540C	MB 280-254584/1		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	MB 280-254309/3		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	MB 280-254746/5		280-254746		11/24/2014 17:02	1	TAL DEN	CCJ
A:SM 5310B	MB 280-255070/5		280-255070		11/26/2014 15:14	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: LC3 **Client ID: T/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 480-216556/28		480-216556		12/01/2014 13:23	1	TAL BUF	GTG
A:8260C	LCS 480-216556/28		480-216556		12/01/2014 13:23	1	TAL BUF	GTG
P:5030C	LCS 480-215927/5		480-215927		11/25/2014 15:16	1	TAL BUF	CDC
A:8260C SIM	LCS 480-215927/5		480-215927		11/25/2014 15:16	1	TAL BUF	CDC
P:3005A	LCS 280-254437/2-A		280-255927	280-254437	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	LCS 280-254437/2-A		280-255927	280-254437	12/05/2014 01:47	1	TAL DEN	LLB
P:3005A	LCS 280-254436/2-A		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	LCS 280-254436/2-A		280-257019	280-254436	12/13/2014 05:02	1	TAL DEN	SJS
P:3005A	LCS 280-254416/2-A		280-257020	280-254416	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	LCS 280-254416/2-A		280-257020	280-254416	12/13/2014 06:20	1	TAL DEN	SJS
P:3005A	LCS 280-254414/2-A		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	LCS 280-254414/2-A		280-257020	280-254414	12/13/2014 08:19	1	TAL DEN	SJS
P:3005A	LCS 280-254429/2-A		280-254731	280-254429	11/23/2014 15:31	1	TAL DEN	CGG
A:6020	LCS 280-254429/2-A		280-254731	280-254429	11/24/2014 23:21	1	TAL DEN	JM
P:3005A	LCS 280-254469/2-A		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	LCS 280-254469/2-A		280-254731	280-254469	11/25/2014 03:41	1	TAL DEN	JM
A:300.0	LCS 280-255045/4		280-255045		11/27/2014 10:49	1	TAL DEN	PS1
A:350.1	LCS 280-254661/156		280-254661		11/24/2014 13:56	1	TAL DEN	CML
A:SM 2320B	LCS 280-254675/31		280-254675		11/24/2014 18:47	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-254584/2		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	LCS 280-254309/1		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	LCS 280-254746/3		280-254746		11/24/2014 16:22	1	TAL DEN	CCJ
A:SM 5310B	LCS 280-255070/3		280-255070		11/26/2014 14:38	1	TAL DEN	CCJ

Lab ID: LC3D **Client ID: T/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 480-215927/6		480-215927		11/25/2014 15:40	1	TAL BUF	CDC
A:8260C SIM	LCSD 480-215927/6		480-215927		11/25/2014 15:40	1	TAL BUF	CDC
A:300.0	LCSD 280-255045/5		280-255045		11/27/2014 11:05	1	TAL DEN	PS1
A:350.1	LCSD 280-254661/157		280-254661		11/24/2014 13:58	1	TAL DEN	CML
A:SM 2320B	LCSD 280-254675/32		280-254675		11/24/2014 18:52	1	TAL DEN	CCJ
A:SM 2540C	LCSD 280-254584/3		280-254584		11/24/2014 14:22	1	TAL DEN	SVC
A:SM 2540D	LCSD 280-254309/2		280-254309		11/22/2014 10:25	1	TAL DEN	MW1
A:SM 5310B	LCSD 280-254746/4		280-254746		11/24/2014 16:40	1	TAL DEN	CCJ
A:SM 5310B	LCSD 280-255070/4		280-255070		11/26/2014 14:55	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: MRL **Client ID: T/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 280-255045/3		280-255045		11/27/2014 10:34	1	TAL DEN	PS1

Lab ID: M3 **Client ID: T/A**

Sample Date/Time: 11/19/2014 11:30 Received Date/Time: 11/20/2014 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71667-N-1 MS		480-216556		12/01/2014 21:56	4	TAL BUF	GTG
A:8260C	480-71667-N-1 MS		480-216556		12/01/2014 21:56	4	TAL BUF	GTG
P:3005A	280-62810-N-1-C MS		280-255927	280-254437	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62810-N-1-C MS		280-255927	280-254437	12/05/2014 02:06	1	TAL DEN	LLB
P:3005A	280-62814-E-1-C MS		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62814-E-1-C MS		280-257019	280-254436	12/13/2014 05:33	1	TAL DEN	SJS
P:3005A	280-62907-F-1-B MS		280-257020	280-254416	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62907-F-1-B MS		280-257020	280-254416	12/13/2014 07:02	1	TAL DEN	SJS
P:3005A	280-62814-D-6-B MS		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62814-D-6-B MS		280-257020	280-254414	12/13/2014 09:04	1	TAL DEN	SJS
P:3005A	280-62907-F-1-B MS ^5		280-257163	280-254416	11/24/2014 12:45	5	TAL DEN	CGG
A:6010B	280-62907-F-1-B MS ^5		280-257163	280-254416	12/14/2014 20:59	5	TAL DEN	LLB
P:3005A	280-62814-D-2-C MS		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62814-D-2-C MS		280-254731	280-254469	11/25/2014 04:21	1	TAL DEN	JM
A:SM 5310B	280-62905-F-7 MS		280-255070		11/26/2014 16:03	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-62813-1

Laboratory Chronicle

Lab ID: M3D **Client ID: T/A**

Sample Date/Time: 11/19/2014 11:30 Received Date/Time: 11/20/2014 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-71667-N-1 MSD		480-216556		12/01/2014 22:21	4	TAL BUF	GTG
A:8260C	480-71667-N-1 MSD		480-216556		12/01/2014 22:21	4	TAL BUF	GTG
P:3005A	280-62810-N-1-D MSD		280-255927	280-254437	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62810-N-1-D MSD		280-255927	280-254437	12/05/2014 02:09	1	TAL DEN	LLB
P:3005A	280-62814-E-1-D MSD		280-257019	280-254436	11/25/2014 07:15	1	TAL DEN	CGG
A:6010B	280-62814-E-1-D MSD		280-257019	280-254436	12/13/2014 05:36	1	TAL DEN	SJS
P:3005A	280-62907-F-1-C MSD		280-257020	280-254416	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62907-F-1-C MSD		280-257020	280-254416	12/13/2014 07:05	1	TAL DEN	SJS
P:3005A	280-62814-D-6-C MSD		280-257020	280-254414	11/24/2014 12:45	1	TAL DEN	CGG
A:6010B	280-62814-D-6-C MSD		280-257020	280-254414	12/13/2014 09:07	1	TAL DEN	SJS
P:3005A	280-62907-F-1-C MSD ^5		280-257163	280-254416	11/24/2014 12:45	5	TAL DEN	CGG
A:6010B	280-62907-F-1-C MSD ^5		280-257163	280-254416	12/14/2014 21:02	5	TAL DEN	LLB
P:3005A	280-62814-D-2-D MSD		280-254731	280-254469	11/24/2014 12:45	1	TAL DEN	CGG
A:6020	280-62814-D-2-D MSD		280-254731	280-254469	11/25/2014 04:24	1	TAL DEN	JM
A:SM 5310B	280-62905-F-7 MSD		280-255070		11/26/2014 16:20	1	TAL DEN	CCJ

Lab ID: D5 **Client ID: T/A**

Sample Date/Time: 11/19/2014 14:35 Received Date/Time: 11/21/2014 10:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-62811-A-3 DU		280-254675		11/24/2014 19:06	1	TAL DEN	CCJ

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

Chain of Custody

280-62813 Chain of Custody

TestAmerica
LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Matt O'Hare	Lab PM: Sara, Betsy A	No: 17318-3224.1
Client Contact: ~~Mr. Charles Tuckie~~ Elena Ramirez	Phone: 425 289-5452	E-Mail: betsy.sara@testamericainc.com	Page: 1 of 1
Company: Olympic View Transfer Station			Job #: 04204027 17
Address: 9300 Southwest Barney White Road	Due Date Requested: Standard		
City: Bremerton	TAT Requested (days): Standard		
State, Zip: WA, 98312	PO #:		
Phone: 425-289-5454	WO #:		
Email: eramirez@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 - 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:

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-34C	11/19/14	1003	G	W			X	X	X	X	X	X	X	X	X		Short Hold: NO3(cad)
MW-34A	11/19/14	1045	G	W													Arsenic - Direct sub to ARI
MW-33A	11/19/14	1236	G	W													
MW-33C	11/19/14	1311	G	W													
MW-15R	11/19/14	1422	G	W													
MW-36A	11/19/14	1509	G	W			X	X	X		X	X	X	X	X		
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
	Relinquished by:	11/19/14 1630	SCS		11/21/14 10:40	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: 1.3, 2.6 IR5 +0.5 Transferred by MJ 11/21/14

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-62813-1

Login Number: 62813

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	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	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: 280-62813-1

Login Number: 62813
List Number: 2
Creator: Robison, Zachary J

List Source: TestAmerica Buffalo
List Creation: 11/25/14 03:21 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 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-62814-1

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
12/19/2014 11:49 AM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/19/2014

cc: Mr. Sam Adlington
Mr. Matt O'Hare
Ms. Elena Ramirez
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: 280-62814-1

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 11/21/2014; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.4º C, 4.0º C and 4.1º 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 laboratory control sample (LCS) recovered outside control limits for Methyl acetate and Vinyl acetate. These were not requested spike compounds; therefore, the data have been qualified and reported.

All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited recoveries outside control limits for m-Xylene & p-Xylene Method 8260C. 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-32 were outside control limits for Total Manganese and 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.

All other MS and MSD samples were within established control limits.

Organics

The Method 8260C SIM surrogate TBA-d9 exhibited recoveries above the upper control limits during the analysis of the samples MW-32 and DUP2. Because the surrogate TBA-d9 is not associated with the target compounds detected in the samples MW-32 and DUP2, corrective action was deemed unnecessary.

The Method 8260C continuing calibration verification (CCV) recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detect for the Vinyl Acetate; therefore, the data have been reported.

The Method 8260C continuing calibration verification (CCV) was outside the method criteria for Chlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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: 280-62814-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62814-1	**MW-4**					
Acetone		4.1	J	10	ug/L	8260C
Methylene Chloride		0.55	J	1.0	ug/L	8260C
Vinyl chloride		0.017	J	0.020	ug/L	8260C SIM
Chloride		1.8		1.0	mg/L	300.0
Sulfate		2.8		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		47		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		47		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		75		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		9.4		0.040	mg/L	6010B
Magnesium, Dissolved		4.7		0.050	mg/L	6010B
Sodium, Dissolved		5.5		1.0	mg/L	6010B
Barium, Dissolved		0.0022		0.0010	mg/L	6020
Manganese, Dissolved		0.29		0.0010	mg/L	6020
Total Recoverable						
Barium, Total		0.0024		0.0010	mg/L	6020
Manganese, Total		0.35		0.0010	mg/L	6020
280-62814-2	**MW-32**					
Trichloroethene		0.49	J	1.0	ug/L	8260C
Vinyl chloride		0.39		0.020	ug/L	8260C SIM
Chloride		12		1.0	mg/L	300.0
Sulfate		16		1.0	mg/L	300.0
Alkalinity, Total (As CaCO3)		130		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		130		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		220		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.1		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		32		0.040	mg/L	6010B
Iron, Dissolved		0.87		0.060	mg/L	6010B
Magnesium, Dissolved		16		0.050	mg/L	6010B
Potassium, Dissolved		1.3		1.0	mg/L	6010B
Sodium, Dissolved		17		1.0	mg/L	6010B
Barium, Dissolved		0.0060		0.0010	mg/L	6020
Manganese, Dissolved		2.4		0.0010	mg/L	6020
Zinc, Dissolved		0.0055		0.0050	mg/L	6020
Total Recoverable						
Iron, Total		0.87		0.060	mg/L	6010B
Barium, Total		0.0059		0.0010	mg/L	6020
Manganese, Total		2.4		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62814-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62814-3	**MW-19C**					
2-Butanone (MEK)		1.5	J	10	ug/L	8260C
Trichloroethene		1.3		1.0	ug/L	8260C
Vinyl chloride		0.090		0.020	ug/L	8260C SIM
Chloride		2.6		1.0	mg/L	300.0
Sulfate		4.4		1.0	mg/L	300.0
Ammonia (as N)		0.60		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)		100		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Iron, Dissolved		0.13		0.060	mg/L	6010B
Magnesium, Dissolved		7.2		0.050	mg/L	6010B
Potassium, Dissolved		1.5		1.0	mg/L	6010B
Sodium, Dissolved		6.1		1.0	mg/L	6010B
Barium, Dissolved		0.0039		0.0010	mg/L	6020
Manganese, Dissolved		1.2		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.16		0.060	mg/L	6010B
Barium, Total		0.0033		0.0010	mg/L	6020
Manganese, Total		1.1		0.0010	mg/L	6020
280-62814-4	**MW-24**					
Chloride		2.8		1.0	mg/L	300.0
Sulfate		4.2		1.0	mg/L	300.0
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)		96		5.0	mg/L	SM 2540C
Total Suspended Solids		4.4		4.0	mg/L	SM 2540D
Dissolved						
Calcium, Dissolved		14		0.040	mg/L	6010B
Magnesium, Dissolved		8.0		0.050	mg/L	6010B
Sodium, Dissolved		5.4		1.0	mg/L	6010B
Manganese, Dissolved		0.22		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.45		0.060	mg/L	6010B
Barium, Total		0.0042		0.0010	mg/L	6020
Manganese, Total		1.0		0.0010	mg/L	6020
Vanadium, Total		0.0021		0.0020	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62814-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62814-5	**MW-2B1**					
Chloride		1.0		1.0	mg/L	300.0
Sulfate		2.7		1.0	mg/L	300.0
Ammonia (as N)		0.063		0.030	mg/L	350.1
Nitrate as N		0.29		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		37		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		37		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		60		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		8.7		0.040	mg/L	6010B
Magnesium, Dissolved		3.1		0.050	mg/L	6010B
Potassium, Dissolved		1.1		1.0	mg/L	6010B
Sodium, Dissolved		3.3		1.0	mg/L	6010B
Barium, Dissolved		0.0029		0.0010	mg/L	6020
Manganese, Dissolved		0.47		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.17		0.060	mg/L	6010B
Barium, Total		0.0032		0.0010	mg/L	6020
Manganese, Total		0.51		0.0010	mg/L	6020
Zinc, Total		0.0056		0.0050	mg/L	6020
280-62814-6	**MW-20**					
Vinyl chloride		0.054		0.020	ug/L	8260C SIM
Chloride		9.5		1.0	mg/L	300.0
Sulfate		5.7		1.0	mg/L	300.0
Ammonia (as N)		0.031		0.030	mg/L	350.1
Nitrate as N		2.7		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		100		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		100		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		160		5.0	mg/L	SM 2540C
Dissolved						
Calcium, Dissolved		25		0.040	mg/L	6010B
Magnesium, Dissolved		15		0.050	mg/L	6010B
Potassium, Dissolved		3.1		1.0	mg/L	6010B
Sodium, Dissolved		10		1.0	mg/L	6010B
Barium, Dissolved		0.0063		0.0010	mg/L	6020
Manganese, Dissolved		0.16		0.0010	mg/L	6020
Vanadium, Dissolved		0.0020		0.0020	mg/L	6020
Total Recoverable						
Barium, Total		0.0057		0.0010	mg/L	6020
Manganese, Total		0.15		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62814-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62814-7FD	**DUP1**					
Trichloroethene		0.47	J	1.0	ug/L	8260C
Vinyl chloride		0.064		0.020	ug/L	8260C SIM
Chloride		9.3		1.0	mg/L	300.0
Sulfate		5.7		1.0	mg/L	300.0
Ammonia (as N)		0.038		0.030	mg/L	350.1
Nitrate as N		2.6		0.050	mg/L	353.2
Alkalinity, Total (As CaCO3)		99		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		99		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		170		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.0		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		24		0.040	mg/L	6010B
Magnesium, Dissolved		14		0.050	mg/L	6010B
Potassium, Dissolved		3.0		1.0	mg/L	6010B
Sodium, Dissolved		8.4		1.0	mg/L	6010B
Barium, Dissolved		0.0064		0.0010	mg/L	6020
Manganese, Dissolved		0.16		0.0010	mg/L	6020
Total Recoverable						
Barium, Total		0.0061		0.0010	mg/L	6020
Manganese, Total		0.15		0.0010	mg/L	6020

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-62814-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-62814-8FD	**DUP2**					
Trichloroethene		0.51	J	1.0	ug/L	8260C
Vinyl chloride		0.42		0.020	ug/L	8260C SIM
Chloride		12		1.0	mg/L	300.0
Sulfate		17		1.0	mg/L	300.0
Ammonia (as N)		0.033		0.030	mg/L	350.1
Alkalinity, Total (As CaCO3)		130		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		130		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		230		5.0	mg/L	SM 2540C
Total Organic Carbon - Average		1.1		1.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		33		0.040	mg/L	6010B
Iron, Dissolved		0.83		0.060	mg/L	6010B
Magnesium, Dissolved		16		0.050	mg/L	6010B
Potassium, Dissolved		1.4		1.0	mg/L	6010B
Sodium, Dissolved		17		1.0	mg/L	6010B
Barium, Dissolved		0.0061		0.0010	mg/L	6020
Manganese, Dissolved		2.5		0.0010	mg/L	6020
Total Recoverable						
Iron, Total		0.82		0.060	mg/L	6010B
Barium, Total		0.0049		0.0010	mg/L	6020
Manganese, Total		2.3		0.0010	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-62847-4

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals 1(CI P	) TA L DN	EW876 6040S	
I reBarationp) otal , eRocerable or L issolcev Metals	) TA L DN		EW876 d003T
Metals 1(CI P	) TA L DN	EW876 6040S	
I reBarationp) otal , eRocerable or L issolcev Metals	) TA L DN		EW876 d003T
EamBle 5iltrationp5ielv			5(DAL F5A) , L
Metals 1(CI _MEP	) TA L DN	EW876 6020	
I reBarationp) otal , eRocerable or L issolcev Metals	) TA L DN		EW876 d003T
Metals 1(CI _MEP	) TA L DN	EW876 6020	
I reBarationp) otal , eRocerable or L issolcev Metals	) TA L DN		EW876 d003T
EamBle 5iltrationp5ielv			5(DAL F5A) , L
Tnionsp(on C/ romatograB/ h	) TA L DN	MCTWW d00y0	
NitrogenpTmmonia	) TA L DN	MCTWW d30y4	
Nitrate	) TA L DN	DI T d3dy2	
TI. alinith	) TA L DN	EM EM 2d20S	
Eolivsp) otal L issolcev 1) L EP	) TA L DN	EM EM 2370C	
Eolivsp) otal EusBenvev 1) EEP	) TA L DN	EM EM 2370L	
k rganiRCarbonp) otal 1) k CP	) TA L DN	EM EM 3d40S	
Oolatile k rganiRComBounvs bh VC_ME	) TA SG5	EW876 8260C	
I urge anv) raB	) TA SG5		EW876 30d0C
Oolatile k rganiRComBounvs 1VC_MEP	) TA SG5	EW876 8260C E(M	
I urge anv) raB	) TA SG5		EW876 30d0C

Lab References:

) TA SG5 U) estTmeriRa Su=alo

) TA L DN U) estTmeriRa L encer

Method References:

DI T U GE Dnciron mental I roteRtion TgenRh

MCTWW U fMet/ ovs 5or C/ emiRal Tnalhsis k =Water Tnv WastesfpDI T-600_7-" 9-020pMarR(498d Tnv Eubsequent , ecisionsy

EM U fEtanvarv Met/ ovs 5or) / e Dxamination k =Water Tnv Wastewaterf

EW876 U f) est Met/ ovs 5or Dcaluating Eoliv WastepI / hsiRal_C/ emiRal Met/ ovsfp) / irv DvitionpNocember 4986 Tnv (ts GBvatesy

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-62814-1

Method	Analyst	Analyst ID
SW846 8260C	Boldt, Erik D	EDB
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8260C SIM	Cwiklinski, Charles D	CDC
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Mooney, Joseph C	JM
SW846 6020	Trudell, Lynn-Anne M	LMT
MCAWW 300.0	Sripen, Phuriya	PS1
MCAWW 350.1	Lawrence, Caitlyn M	CML
EPA 353.2	Sullivan, Roxanne K	RKS
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 2540C	Schultz, Cassandra M	CMS
SM SM 2540D	Woolley, Mark -	MW1
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-62814-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-62814-1	MW-4	Water	11/20/2014 0939	11/21/2014 1040
280-62814-2	MW-32	Water	11/20/2014 1124	11/21/2014 1040
280-62814-3	MW-19C	Water	11/20/2014 1202	11/21/2014 1040
280-62814-4	MW-24	Water	11/20/2014 1106	11/21/2014 1040
280-62814-5	MW-2B1	Water	11/20/2014 1012	11/21/2014 1040
280-62814-6	MW-20	Water	11/20/2014 0910	11/21/2014 1040
280-62814-7FD	DUP1	Water	11/20/2014 0920	11/21/2014 1040
280-62814-8FD	DUP2	Water	11/20/2014 1124	11/21/2014 1040
280-62814-9TB	TRIP BLANK	Water	11/20/2014 0000	11/21/2014 1040

SAMPLE RESULTS

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4 I ate LamSlex: 44d20d2047 0/ 5/
Client MatriD: Water I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G93
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d05d2047 4892			. inal WeigFtd holume:	9 m1
PreS I ate:	42d05d2047 4892				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0332	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0335	430
4,2-I icFlorobenzene	NI		033/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0332	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		033G	430
4,5-I icFlorobenzene	NI		0338	430
4,5-I icFloroSroSane	NI		0339	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	734	J	530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 5/
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G93
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d05d2047 4892			. inal WeigFtd holume:	9 m1
PreS I ate:	42d05d2047 4892				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
poxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036/	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI	X	0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	0399	J	0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03/ 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	NI		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03/ 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 5/
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G93
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d05d2047 4892			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d05d2047 4892				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	404		66 - 45G
7-Bromofluorobenzene (Lurr)	406		G5 - 420
Toluene-x8 (Lurr)	402		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-4**

1ab LamSle p : 280-62847-4
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 5/
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ G93
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d05d2047 4892			. inal WeigFtd olume:	9 m1
PreS I ate:	42d05d2047 4892				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2 l ate LamSlex: 44d20d2047 4427
Client MatriD: Water l ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G63
l ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis l ate:	42d05d2047 4/ 47			. inal WeigFtd holume:	9 m1
PreS l ate:	42d05d2047 4/ 47				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-l icFloroetFane	NI		0358	430
4,4-l icFloroetFene	NI		032/	430
4,4-l icFloroSroSene	NI		0362	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-l ibromo-5-CFloroSroSane	NI		035/	430
4,2-l ibromoetFane (El B)	NI		0365	430
4,2-l icFlorobenzene	NI		039/	430
4,2-l icFloroetFane	NI		0324	430
4,2-l icFloroetFene, Total	NI		0384	230
4,2-l icFloroSroSane	NI		0362	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		039G	430
4,5-l icFlorobenzene	NI		0368	430
4,5-l icFloroSroSane	NI		0369	430
4,7-l icFlorobenzene	NI		0387	430
4,7-l ioDane	NI		/ 35	70
2,2-l icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2 l ate LamSlex: 44d20d2047 4427
Client MatriD: Water l ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G63
l ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis l ate:	42d05d2047 4/ 47			. inal WeigFtd holume:	9 m1
PreS l ate:	42d05d2047 4/ 47				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036/	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI	X	0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0366	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0369	430
Ltyrene	NI		0365	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	037/	J	0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-32**

1ab LamSle p : 280-62847-2
Client MatriD: Water

I ate LamSlex: 44d20d2047 4427
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ G63
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d05d2047 4/ 47			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d05d2047 4/ 47				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	405		66 - 45G
7-Bromofluorobenzene (Lurr)	409		G5 - 420
Toluene-x8 (Lurr)	404		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2
Client MatriD: Water

I ate LamSlex: 44d20d2047 4427
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-246/ 20	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ G63
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d05d2047 4/ 47			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d05d2047 4/ 47				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-19C**

1ab LamSle p : 280-62847-5
Client MatriD: Water

I ate LamSlex: 44d20d2047 4202
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 03
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0058			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0058				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0332	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0335	430
4,2-I icFlorobenzene	NI		033/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0332	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		033G	430
4,5-I icFlorobenzene	NI		0338	430
4,5-I icFloroSroSane	NI		0339	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	439	J	435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5
Client MatriD: Water

I ate LamSlex: 44d20d2047 4202
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 03
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0058			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0058				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036/	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0366	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0369	430
Ltyrene	NI		0365	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	435		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5
Client MatriD: Water

I ate LamSlex: 44d20d2047 4202
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 03
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0058			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0058				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	402		66 - 45G
7-Bromofluorobenzene (Lurr)	405		G5 - 420
Toluene-x8 (Lurr)	400		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5
Client MatriD: Water

I ate LamSlex: 44d20d2047 4202
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 03
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0058			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0058				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-24**

1ab LamSle pl : 280-62847-7
Client MatriD: Water

I ate LamSlex: 44d20d2047 4406
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 43
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0400			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0400				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0362	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0365	430
4,2-I icFlorobenzene	NI		036/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0362	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		036G	430
4,5-I icFlorobenzene	NI		0368	430
4,5-I icFloroSroSane	NI		0369	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-24**

1ab LamSle p : 280-62847-7
Client MatriD: Water

I ate LamSlex: 44d20d2047 4406
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 43
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0400			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0400				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	NI		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-24**

1ab LamSle pl : 280-62847-7

Client MatriD: Water

I ate LamSlex: 44d20d2047 4406

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 43
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0400			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0400				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	400		66 - 45G
7-Bromofluorobenzene (Lurr)	406		G5 - 420
Toluene-x8 (Lurr)	404		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-24**

1ab LamSle pl : 280-62847-7
Client MatriD: Water

I ate LamSlex: 44d20d2047 4406
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 43
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0400			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0400				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-2B1**

1ab LamSle p : 280-62847-9
Client MatriD: Water

I ate LamSlex: 44d20d2047 4042
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 23
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0425			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0425				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0362	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0365	430
4,2-I icFlorobenzene	NI		036/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0362	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		036G	430
4,5-I icFlorobenzene	NI		0368	430
4,5-I icFloroSroSane	NI		0369	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9 l ate LamSlex: 44d20d2047 4042
Client MatriD: Water l ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 23
l ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis l ate:	42d07d2047 0425			. inal WeigFtd holume:	9 m1
PreS l ate:	42d07d2047 0425				

Analyte	Result (ugdl)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	NI		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9

Client MatriD: Water

I ate LamSlex: 44d20d2047 4042

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 23
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0425			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0425				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	/ 8		66 - 45G
7-Bromofluorobenzene (Lurr)	405		G5 - 420
Toluene-x8 (Lurr)	/ /		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9
Client MatriD: Water

I ate LamSlex: 44d20d2047 4042
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 23
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0425			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0425				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6 I ate LamSlex: 44d20d2047 0/ 40
Client MatriD: Water I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 53
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0479			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0479				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0332	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0335	430
4,2-I icFlorobenzene	NI		033/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0332	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		033G	430
4,5-I icFlorobenzene	NI		0338	430
4,5-I icFloroSroSane	NI		0339	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-20**

1ab LamSle p : 280-62847-6
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 40
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 53
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0479			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0479				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036/	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03/ 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	NI		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03/ 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 40
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 53
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0479			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0479				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	/ 6		66 - 45G
7-Bromofluorobenzene (Lurr)	402		G5 - 420
Toluene-x8 (Lurr)	/ /		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 40
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 53
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0479			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0479				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP1**

1ab LamSle p : 280-62847-G I

Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 20

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 73
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0208			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0208				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0362	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0365	430
4,2-I icFlorobenzene	NI		036/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0362	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		036G	430
4,5-I icFlorobenzene	NI		0368	430
4,5-I icFloroSroSane	NI		0369	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G I I ate LamSlex: 44d20d2047 0/ 20
Client MatriD: Water I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 73
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0208			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0208				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	037G	J	0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G I

Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 20

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 73
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0208			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0208				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	/ /		66 - 45G
7-Bromofluorobenzene (Lurr)	407		G5 - 420
Toluene-x8 (Lurr)	400		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G I

Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 20

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 73
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0208			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0208				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client Sample ID: **DUP2**

1ab LamSle p : 280-62847-8. I I ate LamSlex: 44d20d2047 4427
Client MatriD: Water I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 93
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0250			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0250				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0332	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0335	430
4,2-I icFlorobenzene	NI		033/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0332	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		033G	430
4,5-I icFlorobenzene	NI		0338	430
4,5-I icFloroSroSane	NI		0339	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client Sample ID: **DUP2**

1ab LamSle pl : 280-62847-8. l l ate LamSlex: 44d20d2047 4427
Client MatriD: Water l ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 93
l ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis l ate:	42d07d2047 0250			. inal WeigFtd h olume:	9 m1
PreS l ate:	42d07d2047 0250				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
l ibromocFlorometFane	NI		0352	430
l ibromometFane	NI		0374	430
l icFloroxifluorometFane	NI		0368	430
l icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036/	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	0394	J	0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP2**

1ab LamSle p : 280-62847-8. I

Client MatriD: Water

I ate LamSlex: 44d20d2047 4427

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 93
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0250			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0250				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	404		66 - 45G
7-Bromofluorobenzene (Lurr)	407		G5 - 420
Toluene-x8 (Lurr)	400		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP2**

1ab LamSle p : 280-62847-8. I

Client MatriD: Water

I ate LamSlex: 44d20d2047 4427

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 93
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0250			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0250				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **TRIP BLANK**

1ab LamSle pl : 280-62847-/ TB

Client MatriD: Water

I ate LamSlex: 44d20d2047 0000

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 63
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0292			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0292				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
4,4,4,2-TetracFloroetFane	NI		0359	430
4,4,4-TricFloroetFane	NI		0382	430
4,4,2,2-TetracFloroetFane	NI		0324	430
4,4,2-TricFloro-4,2,2-trifluoroetFane	NI		0354	430
4,4,2-TricFloroetFane	NI		0325	430
4,4-I icFloroetFane	NI		0358	430
4,4-I icFloroetFene	NI		032/	430
4,4-I icFloroSroSene	NI		0332	430
4,2,5-TricFlorobenzene	NI		0374	430
4,2,5-TricFloroSroSane	NI		038/	430
4,2,7-TricFlorobenzene	NI		0374	430
4,2,7-TrimetFylbenzene	NI		0339	430
4,2-I ibromo-5-CFloroSroSane	NI		035/	430
4,2-I ibromoetFane (EI B)	NI		0335	430
4,2-I icFlorobenzene	NI		033/	430
4,2-I icFloroetFane	NI		0324	430
4,2-I icFloroetFene, Total	NI		0384	230
4,2-I icFloroSroSane	NI		0332	430
4,5,9-TricFlorobenzene	NI		0325	430
4,5,9-TrimetFylbenzene	NI		033G	430
4,5-I icFlorobenzene	NI		0338	430
4,5-I icFloroSroSane	NI		0339	430
4,7-I icFlorobenzene	NI		0387	430
4,7-I ioDane	NI		/ 35	70
2,2-I icFloroSroSane	NI		0370	430
2-Butanone (MEK)	NI		435	40
2-CFloroetFyl vinyl etFer	NI		03/ 6	930
2-HeDanone	NI		432	930
7-MetFyl-2-Sentanone (MpBK)	NI		234	930
Acetone	NI		530	40
Acetonitrile	NI		73	49
Acrolein	NI		03/ 4	20
Acrylonitrile	NI		0385	930
Benzene	NI		0374	430
Bromobenzene	NI		0380	430
BromocFlorometFane	NI		038G	430
BromoxicFlorometFane	NI		035/	430
Bromoform	NI		0326	430
BromometFane	NI		036/	430
Butyl alcoFol, n-	NI		83	70
Butyl alcoFol, tert-	NI		535	40
Carbon xisulfixe	NI		034/	430
Carbon tetracFlorixe	NI		032G	430
CFlorobenzene	NI		0339	430
CFloroxifluorometFane	NI		0326	430
CFloroetFane	NI		0352	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **TRIP BLANK**

1ab LamSle pl : 280-62847-/ TB

Client MatriD: Water

I ate LamSlex: 44d20d2047 0000

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 63
I ilution:	430			pnitial WeigFtd holume:	9 m1
Analysis I ate:	42d07d2047 0292			. inal WeigFtd holume:	9 m1
PreS I ate:	42d07d2047 0292				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
CFloroform	NI		0357	430
CFlorometFane	NI		0359	430
cis-4,2-I icFloroetFene	NI		0384	430
cis-4,5-I icFloroSroSene	NI		0356	430
CycloFeDane	NI		0348	430
I ibromocFlorometFane	NI		0352	430
I ibromometFane	NI		0374	430
I icFloroxifluorometFane	NI		0368	430
I icFlorofluorometFane	NI		0357	430
EtFyl acetate	NI		0366	430
EtFyl etFer	NI		0362	430
EtFyl tert-butyl etFer	NI		032/	430
EtFylbenzene	NI		0367	430
HeDacFlorobutaxiene	NI		0328	430
HeDane	NI		0370	40
pxometFane	NI		0350	430
psobutanol	NI		738	29
psoSroSyl etFer	NI		039/	430
psoSroSylbenzene	NI		036	430
MetFacrylonitrile	NI		036/	930
MetFyl acetate	NI		0390	239
MetFyl tert-butyl etFer	NI		0346	430
MetFylcycloFeDane	NI		0346	430
MetFylene CFlorixe	NI		0377	430
m-&ylene %S-&ylene	NI		0366	230
NaSFtFalene	NI		0375	430
n-Butylbenzene	NI		0367	430
N-ProSylbenzene	NI		036/	430
o-CFlorotoluene	NI		0386	430
o-&ylene	NI		0336	430
S-CFlorotoluene	NI		0387	430
S-Cymene	NI		0354	430
sec-Butylbenzene	NI		0339	430
Ltyrene	NI		0335	430
Tert-amyl metFyl etFer	NI		032G	430
tert-Butylbenzene	NI		0384	430
TetracFloroetFene	NI		0356	430
TetraFyxrofuran	NI		435	930
Toluene	NI		0394	430
trans-4,2-I icFloroetFene	NI		03 0	430
trans-4,5-I icFloroSroSene	NI		035G	430
trans-4,7-I icFloro-2-butene	NI		0322	430
TricFloroetFene	NI		0376	430
TricFlorofluorometFane	NI		0388	430
hinyl acetate	NI	X	0389	930
hinyl cFlorixe	NI		03 0	430

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **TRIP BLANK**

1ab LamSle pl : 280-62847-/ TB

Client MatriD: Water

I ate LamSlex: 44d20d2047 0000

I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument pl :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	V56/ / 63
I ilution:	430			pnitial WeigFtd h olume:	9 m1
Analysis I ate:	42d07d2047 0292			. inal WeigFtd h olume:	9 m1
PreS I ate:	42d07d2047 0292				

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
4,2-I icFloroetFane-x7 (Lurr)	404		66 - 45G
7-Bromofluorobenzene (Lurr)	407		G5 - 420
Toluene-x8 (Lurr)	404		G4 - 426

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **TRIP BLANK**

1ab LamSle p : 280-62847-/ TB
Client MatriD: Water

I ate LamSlex: 44d20d2047 0000
I ate Receivex: 44d24d2047 4070

8260C Volatile Organic Compounds by GC/MS

Analysis MetFox:	8260C	Analysis BatcF:	780-24G406	pnstrument p :	HP9/ G5V
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	V56/ / 63
I ilution:	430			pnitial WeigFtd olume:	9 m1
Analysis I ate:	42d07d2047 0292			. inal WeigFtd olume:	9 m1
PreS I ate:	42d07d2047 0292				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est3Result (ugdl)	Qualifier
6G-G2-4	HeDacFloroetFane TpC	NI	

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 5/
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74G63
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 242G			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 242G				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	0304G	J	030070	030020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	400		90 - 490
TBA-x/ (Lurr)	420		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2
Client MatriD: Water

I ate LamSlex: 44d20d2047 4427
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74GG3
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 2494			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 2494				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	035/		030070	030020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	/ 9		90 - 490
TBA-x/ (Lurr)	462	&	90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-19C**

1ab LamSle p : 280-62847-5
Client MatriD: Water

I ate LamSlex: 44d20d2047 4202
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument p :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	J74G83
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 2249			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 2249				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	030/ 0		03007 0	03020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	400		90 - 490
TBA-x/ (Lurr)	472		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-24**

1ab LamSle pl : 280-62847-7
Client MatriD: Water

I ate LamSlex: 44d20d2047 4406
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74G/ 3
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 225/			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 225/				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	NI		030070	030020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	/ /		90 - 490
TBA-x/ (Lurr)	490		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9
Client MatriD: Water

I ate LamSlex: 44d20d2047 4042
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J748031
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 2505			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 2505				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	NI		030070	030020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	/ /		90 - 490
TBA-x/ (Lurr)	47G		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 40
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74843
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d29d2047 2526			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d29d2047 2526				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	03097		03070	03020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	409		90 - 490
TBA-x/ (Lurr)	449		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G l

Client MatriD: Water

l ate LamSlex: 44d20d2047 0/ 20

l ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74823
l ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis l ate:	44d29d2047 2594			. inal WeigFtd h olume:	29 m1
PreS l ate:	44d29d2047 2594				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	03067		03070	03020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
l ibromofluorometFane (Lurr)	404		90 - 490
TBA-x/ (Lurr)	475		90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP2**

1ab LamSle p : 280-62847-8. I

Client MatriD: Water

I ate LamSlex: 44d20d2047 4427

I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument p :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile p :	J74853
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d26d2047 0049			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d26d2047 0049				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	0372		0300 70	0302 0

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	/ /		90 - 490
TBA-x/ (Lurr)	465	&	90 - 490

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **TRIP BLANK**

1ab LamSle pl : 280-62847-/ TB
Client MatriD: Water

I ate LamSlex: 44d20d2047 0000
I ate Receivex: 44d24d2047 4070

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis MetFox:	8260C LpM	Analysis BatcF:	780-249/ 2G	pnstrument pl :	HP9/ G5J
PreS MetFox:	9050C	PreS BatcF:	NdA	1ab . ile pl :	J74873
I ilution:	430			pnitial WeigFtd h olume:	29 m1
Analysis I ate:	44d26d2047 005/			. inal WeigFtd h olume:	29 m1
PreS I ate:	44d26d2047 005/				

Analyte	Result (ugd1)	Qualifier	MI 1	R1
h inyl cFlorixe	NI		030070	030020

Lurrogate	_ Rec	Qualifier	AcceStance 1imits
I ibromofluorometFane (Lurr)	/ /		90 - 490
TBA-x/ (Lurr)	47/		90 - 490

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4 l ate LamSlex: 44d20d2047 0/ 5/
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox:	6040B	Analysis BatcF:	280-29G04/	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297756	1ab . ile pl :	26A424247I 3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0928			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	NI		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox:	6040B	Analysis BatcF:	280-29G020	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297747	1ab . ile pl :	26A424247E3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0859			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, l issolvex	/ 37		03070	03070
Cobalt, l issolvex	NI		030050	030050
pron, l issolvex	NI		03060	03060
Magnesium, l issolvex	73G		03090	03090
Potassium, l issolvex	NI		430	430
Loxium, l issolvex	939		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-299098	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	247LMP13x
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d26d2047 0298			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	030027		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	0359		030040	030040
Lelenium, Total	NI		030040	030040
TFallium, Total	NI		030040	030040
hanaxium, Total	NI		030020	030020
Zinc, Total	NI		030090	030090

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-4**

1ab LamSle p : 280-62847-4
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 5/
I ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument p :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile p :	079LMP13x
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d28d2047 4627			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070
Lilver, Total	NI		030020	030020

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument p :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-29776/	1ab . ile p :	4/ 0LMP13
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d29d2047 0705			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, I issolvex	NI		030040	030040
Barium, I issolvex	030022		030040	030040
Beryllium, I issolvex	NI		030040	030040
Caxmium, I issolvex	NI		0300020	0300020
CFromium, I issolvex	NI		030050	030050
CoSSer, I issolvex	NI		030020	030020
1eax, I issolvex	NI		030040	030040
Manganese, I issolvex	032/		030040	030040
NicUel, I issolvex	NI		030070	030070
Lelenium, I issolvex	NI		030040	030040
Lilver, I issolvex	NI		030020	030020
TFallium, I issolvex	NI		030040	030040
hanaxium, I issolvex	NI		030020	030020
Zinc, I issolvex	NI		030090	030090

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2 l ate LamSlex: 44d20d2047 4427
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox: 6040B Analysis BatcF: 280-29G04/ pnstrument pl : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297756 1ab . ile pl : 26A424247I 3asc
I ilution: 430 pnitial WeigFtch olume: 90 m1
Analysis I ate: 42d45d2047 0958 . inal WeigFtch olume: 90 m1
PreS I ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	038G		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox: 6040B Analysis BatcF: 280-29G020 pnstrument pl : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297747 1ab . ile pl : 26A424247E3asc
I ilution: 430 pnitial WeigFtch olume: 90 m1
Analysis I ate: 42d45d2047 0858 . inal WeigFtch olume: 90 m1
PreS I ate: 44d27d2047 4279

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, I issolvex	52		03070	03070
Cobalt, I issolvex	NI		030050	030050
pron, I issolvex	038G		03060	03060
Magnesium, I issolvex	46		03090	03090
Potassium, I issolvex	435		430	430
Loxium, I issolvex	4G		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox: 6020 Analysis BatcF: 280-299098 pnstrument pl : MTk0G8
PreS MetFox: 5009A PreS BatcF: 280-297728 1ab . ile pl : 249LMP13x
I ilution: 430 pnitial WeigFtch olume: 90 m1
Analysis I ate: 44d26d2047 0502 . inal WeigFtch olume: 90 m1
PreS I ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	03009/		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	237		030040	030040
Lelenium, Total	NI		030040	030040
TFallium, Total	NI		030040	030040
hanaxium, Total	NI		030020	030020
Zinc, Total	NI		030090	030090

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-32**

1ab LamSle p : 280-62847-2
Client MatriD: Water

I ate LamSlex: 44d20d2047 4427
I ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument p :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile p :	076LMP13x
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d28d2047 462/			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070
L ilver, Total	NI		030020	030020

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument p :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-29776/	1ab . ile p :	4/ 5ARE. 3
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d29d2047 0742			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, I issolvex	NI		030040	030040
Barium, I issolvex	030060		030040	030040
Beryllium, I issolvex	NI		030040	030040
Caxmium, I issolvex	NI		0300020	0300020
CFromium, I issolvex	NI		030050	030050
CoSSer, I issolvex	NI		030020	030020
1eax, I issolvex	NI		030040	030040
Manganese, I issolvex	237		030040	030040
NicUel, I issolvex	NI		030070	030070
L elenium, I issolvex	NI		030040	030040
L ilver, I issolvex	NI		030020	030020
TFallium, I issolvex	NI		030040	030040
h anaxium, I issolvex	NI		030020	030020
Zinc, I issolvex	030099		030090	030090

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5 l ate LamSlex: 44d20d2047 4202
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox:	6040B	Analysis BatcF:	280-29G04/	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297756	1ab . ile pl :	26A424247I 3asc
I ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis I ate:	42d45d2047 0994			. inal WeigFtdh olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	0346		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox:	6040B	Analysis BatcF:	280-29G020	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297747	1ab . ile pl :	26A424247E3asc
I ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis I ate:	42d45d2047 0870			. inal WeigFtdh olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, I issolvex	47		03070	03070
Cobalt, I issolvex	NI		030050	030050
pron, I issolvex	0345		03060	03060
Magnesium, I issolvex	G32		03090	03090
Potassium, I issolvex	439		430	430
Loxium, I issolvex	634		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-299098	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	222LMP13x
I ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis I ate:	44d26d2047 052G			. inal WeigFtdh olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	030055		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	434		030040	030040
Lelenium, Total	NI		030040	030040
Lilver, Total	NI		030020	030020
TFallium, Total	NI		030040	030040
hanaxium, Total	NI		030020	030020
Zinc, Total	NI		030090	030090

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5 l ate LamSlex: 44d20d2047 4202
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	095LMP13x
l ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis l ate:	44d28d2047 4697			. inal WeigFtd h olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument pl :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-29776/	1ab . ile pl :	4/ 8LMP13
l ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis l ate:	44d29d2047 072G			. inal WeigFtd h olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, l issolvex	NI		030040	030040
Barium, l issolvex	030052/		030040	030040
Beryllium, l issolvex	NI		030040	030040
Caxmium, l issolvex	NI		0300020	0300020
CFromium, l issolvex	NI		030050	030050
CoSSer, l issolvex	NI		030020	030020
1eax, l issolvex	NI		030040	030040
Manganese, l issolvex	432		030040	030040
NicUel, l issolvex	NI		030070	030070
L elenium, l issolvex	NI		030040	030040
L ilver, l issolvex	NI		030020	030020
TFallium, l issolvex	NI		030040	030040
h anaxium, l issolvex	NI		030020	030020
Zinc, l issolvex	NI		030090	030090

Client Sample ID: **MW-24**

1ab LamSle p : 280-62847-7 I ate LamSlex: 44d20d2047 4406
Client MatriD: Water I ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox: 6040B Analysis BatcF: 280-29G04/ pnstrument p : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297756 1ab . ile p : 26A424247I 3asc
I ilution: 430 pnitial WeigFtd olume: 90 m1
Analysis I ate: 42d45d2047 0997 . inal WeigFtd olume: 90 m1
PreS I ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	0379		030060	030060

6010B Metals (ICP)-Dissolved

Analysis MetFox: 6040B Analysis BatcF: 280-29G020 pnstrument p : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297747 1ab . ile p : 26A424247E3asc
I ilution: 430 pnitial WeigFtd olume: 90 m1
Analysis I ate: 42d45d2047 0895 . inal WeigFtd olume: 90 m1
PreS I ate: 44d27d2047 4279

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, I issolvex	47		03070	03070
Cobalt, I issolvex	NI		030050	030050
pron, I issolvex	NI		030060	030060
Magnesium, I issolvex	830		030090	030090
Potassium, I issolvex	NI		430	430
Loxium, I issolvex	937		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox: 6020 Analysis BatcF: 280-299098 pnstrument p : MTk0G8
PreS MetFox: 5009A PreS BatcF: 280-297728 1ab . ile p : 225LMP13x
I ilution: 430 pnitial WeigFtd olume: 90 m1
Analysis I ate: 44d26d2047 0554 . inal WeigFtd olume: 90 m1
PreS I ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	030072		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	430		030040	030040
Lelenium, Total	NI		030040	030040
Lilver, Total	NI		030020	030020
TFallium, Total	NI		030040	030040
hanaxium, Total	030024		030020	030020
Zinc, Total	NI		030090	030090

Client Sample ID: **MW-24**

1ab LamSle p : 280-62847-7 I ate LamSlex: 44d20d2047 4406
Client MatriD: Water I ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument p :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile p :	097LMP13x
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d28d2047 469G			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument p :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-29776/	1ab . ile p :	4/ / LMP13
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d29d2047 0754			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, I issolvex	NI		030040	030040
Barium, I issolvex	NI		030040	030040
Beryllium, I issolvex	NI		030040	030040
Caxmium, I issolvex	NI		0300020	0300020
CFromium, I issolvex	NI		030050	030050
CoSSer, I issolvex	NI		030020	030020
1eax, I issolvex	NI		030040	030040
Manganese, I issolvex	0322		030040	030040
NicUel, I issolvex	NI		030070	030070
Lelenium, I issolvex	NI		030040	030040
Lilver, I issolvex	NI		030020	030020
TFallium, I issolvex	NI		030040	030040
hanaxium, I issolvex	NI		030020	030020
Zinc, I issolvex	NI		030090	030090

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9 l ate LamSlex: 44d20d2047 4042
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox:	6040B	Analysis BatcF:	280-29G04/	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297756	1ab . ile pl :	26A424247I 3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0996			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	034G		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox:	6040B	Analysis BatcF:	280-29G020	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297747	1ab . ile pl :	26A424247E3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0896			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, l issolvex	83G		03070	03070
Cobalt, l issolvex	NI		030050	030050
pron, l issolvex	NI		03060	03060
Magnesium, l issolvex	534		03090	03090
Potassium, l issolvex	434		430	430
Loxium, l issolvex	535		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-299098	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	227LMP13x
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d26d2047 0557			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	030052		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	0394		030040	030040
Lelenium, Total	NI		030040	030040
Lilver, Total	NI		030020	030020
TFallium, Total	NI		030040	030040
hanaxium, Total	NI		030020	030020
Zinc, Total	030096		030090	030090

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9
Client MatriD: Water

I ate LamSlex: 44d20d2047 4042
I ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	099LMP13x
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d28d2047 4G04			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument pl :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-29776/	1ab . ile pl :	200LMP13
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d29d2047 0757			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, I issolvex	NI		030040	030040
Barium, I issolvex	030002/		030040	030040
Beryllium, I issolvex	NI		030040	030040
Caxmium, I issolvex	NI		0300020	0300020
CFromium, I issolvex	NI		030050	030050
CoSSer, I issolvex	NI		030020	030020
1eax, I issolvex	NI		030040	030040
Manganese, I issolvex	037G		030040	030040
NicUel, I issolvex	NI		030070	030070
Lelenium, I issolvex	NI		030040	030040
Lilver, I issolvex	NI		030020	030020
TFallium, I issolvex	NI		030040	030040
hanaxium, I issolvex	NI		030020	030020
Zinc, I issolvex	NI		030090	030090

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6 l ate LamSlex: 44d20d2047 0/ 40
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox:	6040B	Analysis BatcF:	280-29G04/	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297756	1ab . ile pl :	26A424247I 3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 099/			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	NI		030050	030050
pron, Total	NI		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox:	6040B	Analysis BatcF:	280-29G020	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297747	1ab . ile pl :	26A424247E3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 089/			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, l issolvex	29		03070	03070
Cobalt, l issolvex	NI		030050	030050
pron, l issolvex	NI		03060	03060
Magnesium, l issolvex	49		03090	03090
Potassium, l issolvex	534		430	430
Loxium, l issolvex	40		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-299098	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	229LMP13x
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d26d2047 0558			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	NI		030040	030040
Barium, Total	03009G		030040	030040
Beryllium, Total	NI		030040	030040
Caxmium, Total	NI		0300020	0300020
CFromium, Total	NI		030050	030050
CoSSer, Total	NI		030020	030020
1eax, Total	NI		030040	030040
Manganese, Total	0349		030040	030040
Lelenium, Total	NI		030040	030040
Lilver, Total	NI		030020	030020
TFallium, Total	NI		030040	030040
hanaxium, Total	NI		030020	030020
Zinc, Total	NI		030090	030090

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6
Client MatriD: Water

I ate LamSlex: 44d20d2047 0/ 40
I ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	096LMP13x
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d28d2047 4G07			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument pl :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-297768	1ab . ile pl :	245LMP13
I ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis I ate:	44d29d2047 0945			. inal WeigFtd h olume:	90 m1
PreS I ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, I issolvex	NI		030040	030040
Barium, I issolvex	030065		030040	030040
Beryllium, I issolvex	NI		030040	030040
Caxmium, I issolvex	NI		0300020	0300020
CFromium, I issolvex	NI		030050	030050
CoSSer, I issolvex	NI		030020	030020
1eax, I issolvex	NI		030040	030040
Manganese, I issolvex	0346		030040	030040
NicUel, I issolvex	NI		030070	030070
L elenium, I issolvex	NI		030040	030040
L ilver, I issolvex	NI		030020	030020
TFallium, I issolvex	NI		030040	030040
h anaxium, I issolvex	030020		030020	030020
Zinc, I issolvex	NI		030090	030090

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G l l ate LamSlex: 44d20d2047 0/ 20
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox: 6040B Analysis BatcF: 280-29G04/ pnstrument pl : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297756 1ab . ile pl : 26A424247l 3asc
l ilution: 430 pnitial WeigFtd holume: 90 m1
Analysis l ate: 42d45d2047 0602 . inal WeigFtd holume: 90 m1
PreS l ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	Nl		030050	030050
pron, Total	Nl		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox: 6040B Analysis BatcF: 280-29G020 pnstrument pl : MTk026
PreS MetFox: 5009A PreS BatcF: 280-297747 1ab . ile pl : 26A424247E3asc
l ilution: 430 pnitial WeigFtd holume: 90 m1
Analysis l ate: 42d45d2047 0/ 0/ . inal WeigFtd holume: 90 m1
PreS l ate: 44d27d2047 4279

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, l issolvex	27		03070	03070
Cobalt, l issolvex	Nl		030050	030050
pron, l issolvex	Nl		03060	03060
Magnesium, l issolvex	47		03090	03090
Potassium, l issolvex	530		430	430
Loxium, l issolvex	837		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox: 6020 Analysis BatcF: 280-299098 pnstrument pl : MTk0G8
PreS MetFox: 5009A PreS BatcF: 280-297728 1ab . ile pl : 226LMP13x
l ilution: 430 pnitial WeigFtd holume: 90 m1
Analysis l ate: 44d26d2047 0574 . inal WeigFtd holume: 90 m1
PreS l ate: 44d29d2047 0G49

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	Nl		030040	030040
Barium, Total	030064		030040	030040
Beryllium, Total	Nl		030040	030040
Caxmium, Total	Nl		0300020	0300020
CFromium, Total	Nl		030050	030050
CoSSer, Total	Nl		030020	030020
1eax, Total	Nl		030040	030040
Manganese, Total	0349		030040	030040
Lelenium, Total	Nl		030040	030040
Lilver, Total	Nl		030020	030020
TFallium, Total	Nl		030040	030040
hanaxium, Total	Nl		030020	030020
Zinc, Total	Nl		030090	030090

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G l l ate LamSlex: 44d20d2047 0/ 20
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	09GL MP13x
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d28d2047 4G08			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument pl :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-297768	1ab . ile pl :	247ARE. 3
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d29d2047 0946			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, l issolvex	NI		030040	030040
Barium, l issolvex	030067		030040	030040
Beryllium, l issolvex	NI		030040	030040
Caxmium, l issolvex	NI		0300020	0300020
CFromium, l issolvex	NI		030050	030050
CoSSer, l issolvex	NI		030020	030020
1eax, l issolvex	NI		030040	030040
Manganese, l issolvex	0346		030040	030040
NicUel, l issolvex	NI		030070	030070
L elenium, l issolvex	NI		030040	030040
L ilver, l issolvex	NI		030020	030020
TFallium, l issolvex	NI		030040	030040
h anaxium, l issolvex	NI		030020	030020
Zinc, l issolvex	NI		030090	030090

Client Sample ID: **DUP2**

1ab LamSle pl : 280-62847-8. l l ate LamSlex: 44d20d2047 4427
Client MatriD: Water l ate Receivex: 44d24d2047 4070

6010B Metals (ICP)-Total Recoverable

Analysis MetFox:	6040B	Analysis BatcF:	280-29G04/	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297756	1ab . ile pl :	26A424247l 3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0607			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Cobalt, Total	Nl		030050	030050
pron, Total	0382		03060	03060

6010B Metals (ICP)-Dissolved

Analysis MetFox:	6040B	Analysis BatcF:	280-29G020	pnstrument pl :	MTk026
PreS MetFox:	5009A	PreS BatcF:	280-297747	1ab . ile pl :	26A424247E3asc
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	42d45d2047 0/ 42			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Calcium, l issolvex	55		03070	03070
Cobalt, l issolvex	Nl		030050	030050
pron, l issolvex	0385		03060	03060
Magnesium, l issolvex	46		03090	03090
Potassium, l issolvex	437		430	430
Loxium, l issolvex	4G		430	430

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-299098	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	22GLMP13x
l ilution:	430			pnitial WeigFtdh olume:	90 m1
Analysis l ate:	44d26d2047 0579			. inal WeigFtdh olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, Total	Nl		030040	030040
Barium, Total	03007/		030040	030040
Beryllium, Total	Nl		030040	030040
Caxmium, Total	Nl		0300020	0300020
CFromium, Total	Nl		030050	030050
CoSSer, Total	Nl		030020	030020
1eax, Total	Nl		030040	030040
Manganese, Total	235		030040	030040
Lelenium, Total	Nl		030040	030040
Lilver, Total	Nl		030020	030020
TFallium, Total	Nl		030040	030040
hanaxium, Total	Nl		030020	030020
Zinc, Total	Nl		030090	030090

Client: Waste Management

Job Number: 280-62847-4

Client Sample ID: **DUP2**

1ab LamSle pl : 280-62847-8. l

Client MatriD: Water

l ate LamSlex: 44d20d2047 4427

l ate Receivex: 44d24d2047 4070

6020 Metals (ICP/MS)-Total Recoverable

Analysis MetFox:	6020	Analysis BatcF:	280-29946G	pnstrument pl :	MTk0G8
PreS MetFox:	5009A	PreS BatcF:	280-297728	1ab . ile pl :	098LMP13x
l ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis l ate:	44d28d2047 4G42			. inal WeigFtd h olume:	90 m1
PreS l ate:	44d29d2047 0G49				

Analyte	Result (mgdl)	Qualifier	R1	R1
NicUel, Total	NI		030070	030070

6020 Metals (ICP/MS)-Dissolved

Analysis MetFox:	6020	Analysis BatcF:	280-297G54	pnstrument pl :	MTk027
PreS MetFox:	5009A	PreS BatcF:	280-297768	1ab . ile pl :	224LMP13
l ilution:	430			pnitial WeigFtd h olume:	90 m1
Analysis l ate:	44d29d2047 0958			. inal WeigFtd h olume:	90 m1
PreS l ate:	44d27d2047 4279				

Analyte	Result (mgdl)	Qualifier	R1	R1
Antimony, l issolvex	NI		030040	030040
Barium, l issolvex	030064		030040	030040
Beryllium, l issolvex	NI		030040	030040
Caxmium, l issolvex	NI		0300020	0300020
CFromium, l issolvex	NI		030050	030050
CoSSer, l issolvex	NI		030020	030020
1eax, l issolvex	NI		030040	030040
Manganese, l issolvex	239		030040	030040
NicUel, l issolvex	NI		030070	030070
Lelenium, l issolvex	NI		030040	030040
Lilver, l issolvex	NI		030020	030020
TFallium, l issolvex	NI		030040	030040
hanaxium, l issolvex	NI		030020	030020
Zinc, l issolvex	NI		030090	030090

General Chemistry

Client Sample ID: **MW-4**

1ab LamSle pl : 280-62847-4 I ate LamSlex: 44d20d2047 0/ 5/
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	438		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4955						
Lulfate	238		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4955						
Ammonia (as N)	NI		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4976						
Nitrate as N	NI		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	7G		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4420						
AlUalinity, Bicarbonate (As CaCO5)	7G		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4420						
Total I issolvex Lolixs (TI L)	G9		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total LusSenxex Lolixs	NI		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	NI		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0055						

General Chemistry

Client Sample ID: **MW-32**

1ab LamSle pl : 280-62847-2 I ate LamSlex: 44d20d2047 4427
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	42		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4620						
Lulfate	46		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4620						
Ammonia (as N)	NI		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4978						
Nitrate as N	NI		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	450		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4429						
AlUalinity, Bicarbonate (As CaCO5)	450		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4429						
Total I issolvex Lolixs (TI L)	220		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total LusSenxex Lolixs	NI		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	434		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 007/						

General Chemistry

Client Sample ID: **MW-19C**

1ab LamSle pl : 280-62847-5 I ate LamSlex: 44d20d2047 4202
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	236		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4659						
L ulfate	737		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4659						
Ammonia (as N)	0360		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4990						
Nitrate as N	NI		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	G0		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 445/						
AlUalinity, Bicarbonate (As CaCO5)	G0		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 445/						
Total I issolvex L olixs (TI L)	400		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total L usSenxex L olixs	NI		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	NI		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0409						

General Chemistry

Client Sample ID: **MW-24**

1ab LamSle pl : 280-62847-7 I ate LamSlex: 44d20d2047 4406
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	238		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4694						
L ulfate	732		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4694						
Ammonia (as N)	NI		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4992						
Nitrate as N	NI		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	62		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4475						
AlUalinity, Bicarbonate (As CaCO5)	62		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4475						
Total I issolvex L olixs (TI L)	/ 6		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total L usSenxex L olixs	737		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	NI		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0796						

General Chemistry

Client Sample ID: **MW-2B1**

1ab LamSle pl : 280-62847-9 I ate LamSlex: 44d20d2047 4042
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	430		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G06						
Lulfate	23G		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G06						
Ammonia (as N)	03065		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4997						
Nitrate as N	032/		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	5G		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4206						
AlUalinity, Bicarbonate (As CaCO5)	5G		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4206						
Total I issolvex Lolixs (TI L)	60		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total LusSenxex Lolixs	NI		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	NI		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0944						

General Chemistry

Client Sample ID: **MW-20**

1ab LamSle pl : 280-62847-6 I ate LamSlex: 44d20d2047 0/ 40
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	/ 39		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G22						
L ulfate	93G		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G22						
Ammonia (as N)	03054		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4996						
Nitrate as N	23G		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	400		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4240						
AlUalinity, Bicarbonate (As CaCO5)	400		mgdl	930	930	430	LM 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4240						
Total I issolvex L olixs (TI L)	460		mgdl	930	930	430	LM 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total L usSenxex L olixs	NI		mgdl	730	730	430	LM 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	NI		mgdl	430	430	430	LM 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0926						

General Chemistry

Client Sample ID: **DUP1**

1ab LamSle pl : 280-62847-G I I ate LamSlex: 44d20d2047 0/ 20
Client MatriD: Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	/ 35		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G5G						
L ulfate	93G		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G5G						
Ammonia (as N)	03058		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4642						
Nitrate as N	236		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	/ /		mgdl	930	930	430	L M 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4247						
AlUalinity, Bicarbonate (As CaCO5)	/ /		mgdl	930	930	430	L M 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 4247						
Total I issolvex L olixs (TI L)	4G0		mgdl	930	930	430	L M 2970C
Analysis BatcF: 280-297660	Analysis I ate: 44d27d2047 2548						
Total L usSenxex L olixs	NI		mgdl	730	730	430	L M 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	430		mgdl	430	430	430	L M 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0974						

General Chemistry

Client Sample ID: **DUP2**

1ab LamSle pl : 280-62847-8. I I ate LamSlex: 44d20d2047 4427
Client MatriD. Water I ate Receivex: 44d24d2047 4070

Analyte	Result	Qual	* nits	R1	R1	I il	MetFox
CFlorixe	42		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G95						
L ulfate	4G		mgdl	430	430	430	50030
Analysis BatcF: 280-299079	Analysis I ate: 44d2Gd2047 4G95						
Ammonia (as N)	03055		mgdl	03050	03050	430	59034
Analysis BatcF: 280-297664	Analysis I ate: 44d27d2047 4647						
Nitrate as N	NI		mgdl	03090	03090	430	59532
Analysis BatcF: 280-29960G	Analysis I ate: 44d24d2047 2244						
AlUalinity, Total (As CaCO5)	450		mgdl	930	930	430	L M 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 424/						
AlUalinity, Bicarbonate (As CaCO5)	450		mgdl	930	930	430	L M 2520B
Analysis BatcF: 280-297G87	Analysis I ate: 44d29d2047 424/						
Total I issolvex L olixs (TI L)	250		mgdl	930	930	430	L M 2970C
Analysis BatcF: 280-297/ G5	Analysis I ate: 44d26d2047 494/						
Total L usSenxex L olixs	NI		mgdl	730	730	430	L M 2970I
Analysis BatcF: 280-297GGG	Analysis I ate: 44d29d2047 4796						
Total Organic Carbon - Average	434		mgdl	430	430	430	L M 9540B
Analysis BatcF: 280-297G76	Analysis I ate: 44d29d2047 0650						

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-62814-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	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.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-215927					
LCS 480-215927/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-215927/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-215927/8	Method Blank	T	Water	8260C SIM	
280-62814-1	MW-4	T	Water	8260C SIM	
280-62814-2	MW-32	T	Water	8260C SIM	
280-62814-3	MW-19C	T	Water	8260C SIM	
280-62814-4	MW-24	T	Water	8260C SIM	
280-62814-5	MW-2B1	T	Water	8260C SIM	
280-62814-6	MW-20	T	Water	8260C SIM	
280-62814-7FD	DUP1	T	Water	8260C SIM	
280-62814-8FD	DUP2	T	Water	8260C SIM	
280-62814-9TB	TRIP BLANK	T	Water	8260C SIM	
Analysis Batch:480-216920					
LCS 480-216920/7	Lab Control Sample	T	Water	8260C	
MB 480-216920/9	Method Blank	T	Water	8260C	
280-62814-1	MW-4	T	Water	8260C	
280-62814-2	MW-32	T	Water	8260C	
480-71873-C-1 MS	Matrix Spike	T	Water	8260C	
480-71873-C-1 MSD	Matrix Spike Duplicate	T	Water	8260C	
Analysis Batch:480-217106					
LCS 480-217106/4	Lab Control Sample	T	Water	8260C	
MB 480-217106/7	Method Blank	T	Water	8260C	
280-62814-3	MW-19C	T	Water	8260C	
280-62814-4	MW-24	T	Water	8260C	
280-62814-5	MW-2B1	T	Water	8260C	
280-62814-6	MW-20	T	Water	8260C	
280-62814-7FD	DUP1	T	Water	8260C	
280-62814-8FD	DUP2	T	Water	8260C	
280-62814-9TB	TRIP BLANK	T	Water	8260C	
480-71793-J-1 MS	Matrix Spike	T	Water	8260C	
480-71793-J-1 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-254414					
LCS 280-254414/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254414/1-A	Method Blank	R	Water	3005A	
280-62814-1	MW-4	D	Water	3005A	
280-62814-2	MW-32	D	Water	3005A	
280-62814-3	MW-19C	D	Water	3005A	
280-62814-4	MW-24	D	Water	3005A	
280-62814-5	MW-2B1	D	Water	3005A	
280-62814-6	MW-20	D	Water	3005A	
280-62814-6MS	Matrix Spike	D	Water	3005A	
280-62814-6MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62814-7FD	DUP1	D	Water	3005A	
280-62814-8FD	DUP2	D	Water	3005A	
Prep Batch: 280-254428					
LCS 280-254428/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254428/1-A	Method Blank	R	Water	3005A	
280-62814-1	MW-4	R	Water	3005A	
280-62814-2	MW-32	R	Water	3005A	
280-62814-2MS	Matrix Spike	R	Water	3005A	
280-62814-2MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62814-3	MW-19C	R	Water	3005A	
280-62814-4	MW-24	R	Water	3005A	
280-62814-5	MW-2B1	R	Water	3005A	
280-62814-6	MW-20	R	Water	3005A	
280-62814-7FD	DUP1	R	Water	3005A	
280-62814-8FD	DUP2	R	Water	3005A	
Prep Batch: 280-254436					
LCS 280-254436/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254436/1-A	Method Blank	R	Water	3005A	
280-62814-1	MW-4	R	Water	3005A	
280-62814-1MS	Matrix Spike	R	Water	3005A	
280-62814-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-62814-2	MW-32	R	Water	3005A	
280-62814-3	MW-19C	R	Water	3005A	
280-62814-4	MW-24	R	Water	3005A	
280-62814-5	MW-2B1	R	Water	3005A	
280-62814-6	MW-20	R	Water	3005A	
280-62814-7FD	DUP1	R	Water	3005A	
280-62814-8FD	DUP2	R	Water	3005A	

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-254468					
LCS 280-254468/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254468/1-A	Method Blank	R	Water	3005A	
280-62814-6	MW-20	D	Water	3005A	
280-62814-7FD	DUP1	D	Water	3005A	
280-62814-7MS	Matrix Spike	D	Water	3005A	
280-62814-7MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62814-8FD	DUP2	D	Water	3005A	
Prep Batch: 280-254469					
LCS 280-254469/2-A	Lab Control Sample	R	Water	3005A	
MB 280-254469/1-A	Method Blank	R	Water	3005A	
280-62814-1	MW-4	D	Water	3005A	
280-62814-2	MW-32	D	Water	3005A	
280-62814-2MS	Matrix Spike	D	Water	3005A	
280-62814-2MSD	Matrix Spike Duplicate	D	Water	3005A	
280-62814-3	MW-19C	D	Water	3005A	
280-62814-4	MW-24	D	Water	3005A	
280-62814-5	MW-2B1	D	Water	3005A	
Analysis Batch:280-254731					
LCS 280-254468/2-A	Lab Control Sample	R	Water	6020	280-254468
MB 280-254468/1-A	Method Blank	R	Water	6020	280-254468
LCS 280-254469/2-A	Lab Control Sample	R	Water	6020	280-254469
MB 280-254469/1-A	Method Blank	R	Water	6020	280-254469
280-62814-1	MW-4	D	Water	6020	280-254469
280-62814-2	MW-32	D	Water	6020	280-254469
280-62814-2MS	Matrix Spike	D	Water	6020	280-254469
280-62814-2MSD	Matrix Spike Duplicate	D	Water	6020	280-254469
280-62814-3	MW-19C	D	Water	6020	280-254469
280-62814-4	MW-24	D	Water	6020	280-254469
280-62814-5	MW-2B1	D	Water	6020	280-254469
280-62814-6	MW-20	D	Water	6020	280-254468
280-62814-7FD	DUP1	D	Water	6020	280-254468
280-62814-7MS	Matrix Spike	D	Water	6020	280-254468
280-62814-7MSD	Matrix Spike Duplicate	D	Water	6020	280-254468
280-62814-8FD	DUP2	D	Water	6020	280-254468

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-255058					
LCS 280-254428/2-A	Lab Control Sample	R	Water	6020	280-254428
MB 280-254428/1-A	Method Blank	R	Water	6020	280-254428
280-62814-1	MW-4	R	Water	6020	280-254428
280-62814-2	MW-32	R	Water	6020	280-254428
280-62814-2MS	Matrix Spike	R	Water	6020	280-254428
280-62814-2MSD	Matrix Spike Duplicate	R	Water	6020	280-254428
280-62814-3	MW-19C	R	Water	6020	280-254428
280-62814-4	MW-24	R	Water	6020	280-254428
280-62814-5	MW-2B1	R	Water	6020	280-254428
280-62814-6	MW-20	R	Water	6020	280-254428
280-62814-7FD	DUP1	R	Water	6020	280-254428
280-62814-8FD	DUP2	R	Water	6020	280-254428
Analysis Batch:280-255167					
LCS 280-254428/2-A	Lab Control Sample	R	Water	6020	280-254428
MB 280-254428/1-A	Method Blank	R	Water	6020	280-254428
280-62814-1	MW-4	R	Water	6020	280-254428
280-62814-2	MW-32	R	Water	6020	280-254428
280-62814-3	MW-19C	R	Water	6020	280-254428
280-62814-4	MW-24	R	Water	6020	280-254428
280-62814-5	MW-2B1	R	Water	6020	280-254428
280-62814-6	MW-20	R	Water	6020	280-254428
280-62814-7FD	DUP1	R	Water	6020	280-254428
280-62814-8FD	DUP2	R	Water	6020	280-254428
Analysis Batch:280-257019					
LCS 280-254436/2-A	Lab Control Sample	R	Water	6010B	280-254436
MB 280-254436/1-A	Method Blank	R	Water	6010B	280-254436
280-62814-1	MW-4	R	Water	6010B	280-254436
280-62814-1MS	Matrix Spike	R	Water	6010B	280-254436
280-62814-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-254436
280-62814-2	MW-32	R	Water	6010B	280-254436
280-62814-3	MW-19C	R	Water	6010B	280-254436
280-62814-4	MW-24	R	Water	6010B	280-254436
280-62814-5	MW-2B1	R	Water	6010B	280-254436
280-62814-6	MW-20	R	Water	6010B	280-254436
280-62814-7FD	DUP1	R	Water	6010B	280-254436
280-62814-8FD	DUP2	R	Water	6010B	280-254436

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-257020					
LCS 280-254414/2-A	Lab Control Sample	R	Water	6010B	280-254414
MB 280-254414/1-A	Method Blank	R	Water	6010B	280-254414
280-62814-1	MW-4	D	Water	6010B	280-254414
280-62814-2	MW-32	D	Water	6010B	280-254414
280-62814-3	MW-19C	D	Water	6010B	280-254414
280-62814-4	MW-24	D	Water	6010B	280-254414
280-62814-5	MW-2B1	D	Water	6010B	280-254414
280-62814-6	MW-20	D	Water	6010B	280-254414
280-62814-6MS	Matrix Spike	D	Water	6010B	280-254414
280-62814-6MSD	Matrix Spike Duplicate	D	Water	6010B	280-254414
280-62814-7FD	DUP1	D	Water	6010B	280-254414
280-62814-8FD	DUP2	D	Water	6010B	280-254414

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254660					
LCS 280-254660/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-254660/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-254660/1	Method Blank	T	Water	SM 2540C	
280-62814-1	MW-4	T	Water	SM 2540C	
280-62814-2	MW-32	T	Water	SM 2540C	
280-62814-3	MW-19C	T	Water	SM 2540C	
280-62814-4	MW-24	T	Water	SM 2540C	
280-62814-5	MW-2B1	T	Water	SM 2540C	
280-62814-6	MW-20	T	Water	SM 2540C	
280-62814-7FD	DUP1	T	Water	SM 2540C	
280-62814-7DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-254661					
LCS 280-254661/197	Lab Control Sample	T	Water	350.1	
LCSD 280-254661/198	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-254661/199	Method Blank	T	Water	350.1	
280-62808-B-3 MS	Matrix Spike	T	Water	350.1	
280-62808-B-3 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-62814-1	MW-4	T	Water	350.1	
280-62814-2	MW-32	T	Water	350.1	
280-62814-3	MW-19C	T	Water	350.1	
280-62814-4	MW-24	T	Water	350.1	
280-62814-5	MW-2B1	T	Water	350.1	
280-62814-6	MW-20	T	Water	350.1	
280-62814-7FD	DUP1	T	Water	350.1	
280-62814-8FD	DUP2	T	Water	350.1	

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254746					
LCS 280-254746/3	Lab Control Sample	T	Water	SM 5310B	
LCS 280-254746/35	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-254746/36	Lab Control Sample Duplicate	T	Water	SM 5310B	
LCSD 280-254746/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-254746/37	Method Blank	T	Water	SM 5310B	
MB 280-254746/5	Method Blank	T	Water	SM 5310B	
280-62813-E-2 MS	Matrix Spike	T	Water	SM 5310B	
280-62813-E-2 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-62814-1	MW-4	T	Water	SM 5310B	
280-62814-2	MW-32	T	Water	SM 5310B	
280-62814-3	MW-19C	T	Water	SM 5310B	
280-62814-4	MW-24	T	Water	SM 5310B	
280-62814-5	MW-2B1	T	Water	SM 5310B	
280-62814-6	MW-20	T	Water	SM 5310B	
280-62814-7FD	DUP1	T	Water	SM 5310B	
280-62814-8FD	DUP2	T	Water	SM 5310B	
280-62833-D-3 MS	Matrix Spike	T	Water	SM 5310B	
280-62833-D-3 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-254777					
LCS 280-254777/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-254777/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-254777/3	Method Blank	T	Water	SM 2540D	
280-62804-C-1 DU	Duplicate	T	Water	SM 2540D	
280-62814-1	MW-4	T	Water	SM 2540D	
280-62814-2	MW-32	T	Water	SM 2540D	
280-62814-3	MW-19C	T	Water	SM 2540D	
280-62814-4	MW-24	T	Water	SM 2540D	
280-62814-5	MW-2B1	T	Water	SM 2540D	
280-62814-6	MW-20	T	Water	SM 2540D	
280-62814-7FD	DUP1	T	Water	SM 2540D	
280-62814-8FD	DUP2	T	Water	SM 2540D	

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-254784					
LCS 280-254784/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-254784/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-254784/6	Method Blank	T	Water	SM 2320B	
280-62814-1	MW-4	T	Water	SM 2320B	
280-62814-2	MW-32	T	Water	SM 2320B	
280-62814-3	MW-19C	T	Water	SM 2320B	
280-62814-4	MW-24	T	Water	SM 2320B	
280-62814-5	MW-2B1	T	Water	SM 2320B	
280-62814-6	MW-20	T	Water	SM 2320B	
280-62814-7FD	DUP1	T	Water	SM 2320B	
280-62814-8FD	DUP2	T	Water	SM 2320B	
280-62887-A-13 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-254973					
LCS 280-254973/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-254973/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-254973/1	Method Blank	T	Water	SM 2540C	
280-62814-8FD	DUP2	T	Water	SM 2540C	
280-62814-8DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-255045					
LCS 280-255045/4	Lab Control Sample	T	Water	300.0	
LCSD 280-255045/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-255045/6	Method Blank	T	Water	300.0	
280-62814-1	MW-4	T	Water	300.0	
280-62814-2	MW-32	T	Water	300.0	
280-62814-3	MW-19C	T	Water	300.0	
280-62814-4	MW-24	T	Water	300.0	
280-62814-5	MW-2B1	T	Water	300.0	
280-62814-6	MW-20	T	Water	300.0	
280-62814-7FD	DUP1	T	Water	300.0	
280-62814-8FD	DUP2	T	Water	300.0	
280-62814-8DU	Duplicate	T	Water	300.0	
280-62814-8MS	Matrix Spike	T	Water	300.0	
280-62814-8MSD	Matrix Spike Duplicate	T	Water	300.0	

Client: Waste Management

Job Number: 280-62814-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-255607					
MB 280-255607/1	Method Blank	T	Water	353.2	
280-62814-1	MW-4	T	Water	353.2	
280-62814-2	MW-32	T	Water	353.2	
280-62814-3	MW-19C	T	Water	353.2	
280-62814-4	MW-24	T	Water	353.2	
280-62814-5	MW-2B1	T	Water	353.2	
280-62814-6	MW-20	T	Water	353.2	
280-62814-7FD	DUP1	T	Water	353.2	
280-62814-8FD	DUP2	T	Water	353.2	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-62814-1

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
280-62814-1	MW-4	101	106	102
280-62814-2	MW-32	103	105	101
280-62814-3	MW-19C	102	103	100
280-62814-4	MW-24	100	106	101
280-62814-5	MW-2B1	98	103	99
280-62814-6	MW-20	96	102	99
280-62814-7	DUP1	99	104	100
280-62814-8	DUP2	101	104	100
280-62814-9	TRIP BLANK	101	104	101
MB 480-216920/9		99	106	102
MB 480-217106/7		101	103	100
LCS 480-216920/7		98	107	102
LCS 480-217106/4		106	106	101
480-71873-C-1 MS		100	108	102
480-71793-J-1 MS		101	103	101
480-71873-C-1 MSD		102	105	101
480-71793-J-1 MSD		103	105	101

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: 280-62814-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-62814-1	MW-4	100	120
280-62814-2	MW-32	95	162X
280-62814-3	MW-19C	100	142
280-62814-4	MW-24	99	150
280-62814-5	MW-2B1	99	147
280-62814-6	MW-20	105	115
280-62814-7	DUP1	101	143
280-62814-8	DUP2	99	163X
280-62814-9	TRIP BLANK	99	149
MB 480-215927/8		97	112
LCS 480-215927/5		107	109
LCSD 480-215927/6		100	120

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 480-216P20

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-216920/9	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36961.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1320	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1320				
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: 280-62814-1

Method Blank - Batch: 480-216P20

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-216920/9	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36961.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1320	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1320				
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		0.50	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: 280-62814-1

Method Blank - Batch: 480-216P20

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-216920/9	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36961.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1320	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1320				
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)	99	66 - 137
4-Bromofluorobenzene (Surr)	106	73 - 120
Toluene-d8 (Surr)	102	71 - 126

Method Blank ALCs- Batch: 480-216P20

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62814-1

baS Control xaD 5le - Batch: 480-216P20

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	LCS 480-216920/7	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36959.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 1235	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 1235				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.7	95	71 - 129	
1,1-Dichloroethene	25.0	22.3	89	58 - 121	
1,2,4-Trimethylbenzene	25.0	22.3	89	76 - 121	
1,2-Dichlorobenzene	25.0	24.2	97	80 - 124	
1,2-Dichloroethane	25.0	23.6	94	75 - 127	
Benzene	25.0	23.7	95	71 - 124	
Chlorobenzene	25.0	24.7	99	72 - 120	
cis-1,2-Dichloroethene	25.0	25.1	101	74 - 124	
Ethylbenzene	25.0	23.6	94	77 - 123	
Methyl tert-butyl ether	25.0	24.4	97	64 - 127	
m-Xylene & p-Xylene	25.0	24.2	97	76 - 122	
o-Xylene	25.0	24.2	97	76 - 122	
Tetrachloroethene	25.0	24.5	98	74 - 122	
Toluene	25.0	23.4	94	80 - 122	
trans-1,2-Dichloroethene	25.0	22.5	90	73 - 127	
Trichloroethene	25.0	23.4	94	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	66 - 137
4-Bromofluorobenzene (Surr)	107	73 - 120
Toluene-d8 (Surr)	102	71 - 126

Client: Waste Management Job Number: 280-62814-1

Matri/ x 5ike7 **Method: 8260C**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-216P20 **pre5aration: 30T0C**

MS Lab Sample ID:	480-71873-C-1 MS	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36979.D
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2021			Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2021				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71873-C-1 MSD	Analysis Batch:	480-216920	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36980.D
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2044			Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2044				5 mL
Leach Date:	N/A				

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	93	71 - 124	2	13		
Ethylbenzene	107	99	77 - 123	4	15		
Methyl tert-butyl ether	100	100	64 - 127	0	37		
m-Xylene & p-Xylene	133	115	76 - 122	5	16	F1	
o-Xylene	101	96	76 - 122	4	16		
Toluene	94	92	80 - 122	2	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	102	66 - 137
4-Bromofluorobenzene (Surr)	108	105	73 - 120
Toluene-d8 (Surr)	102	101	71 - 126

Matri/ x 5ike7 **Method: 8260C**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-216P20 **pre5aration: 30T0C**

MS Lab Sample ID:	480-71873-C-1 MS	Units:	ug/L	MSD Lab Sample ID:	480-71873-C-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	100			Dilution:	100
Analysis Date:	12/03/2014 2021			Analysis Date:	12/03/2014 2044
Prep Date:	12/03/2014 2021			Prep Date:	12/03/2014 2044
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Benzene	120	2500	2500	2500		2450
Ethylbenzene	2300	2500	2500	4970		4790
Methyl tert-butyl ether	ND	2500	2500	2500		2510
m-Xylene & p-Xylene	6500	2500	2500	9840	F1	9370
o-Xylene	580	2500	2500	3110		2980
Toluene	140	2500	2500	2500		2450

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-217106/7	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2349	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2349				
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: 280-62814-1

Method Blank - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-217106/7	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2349	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2349				
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		0.50	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: 280-62814-1

Method Blank - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	MB 480-217106/7	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36989.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2349	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2349				
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)	101	66 - 137
4-Bromofluorobenzene (Surr)	103	73 - 120
Toluene-d8 (Surr)	100	71 - 126

Method Blank ALCs- Batch: 480-219106

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-62814-1

baS Control xaD 5le - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

Lab Sample ID:	LCS 480-217106/4	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G36986.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/03/2014 2243	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/03/2014 2243				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.3	101	71 - 129	
1,1-Dichloroethene	25.0	22.9	92	58 - 121	
1,2,4-Trimethylbenzene	25.0	22.6	90	76 - 121	
1,2-Dichlorobenzene	25.0	24.9	99	80 - 124	
1,2-Dichloroethane	25.0	25.3	101	75 - 127	
Benzene	25.0	24.4	98	71 - 124	
Chlorobenzene	25.0	24.3	97	72 - 120	
cis-1,2-Dichloroethene	25.0	25.7	103	74 - 124	
Ethylbenzene	25.0	23.2	93	77 - 123	
Methyl tert-butyl ether	25.0	25.8	103	64 - 127	
m-Xylene & p-Xylene	25.0	23.6	94	76 - 122	
o-Xylene	25.0	24.3	97	76 - 122	
Tetrachloroethene	25.0	24.1	96	74 - 122	
Toluene	25.0	23.4	94	80 - 122	
trans-1,2-Dichloroethene	25.0	23.0	92	73 - 127	
Trichloroethene	25.0	25.1	100	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	66 - 137
4-Bromofluorobenzene (Surr)	106	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

MS Lab Sample ID:	480-71793-J-1 MS	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G37008.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/04/2014 0657			Final Weight/Volume:	5 mL
Prep Date:	12/04/2014 0657				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-71793-J-1 MSD	Analysis Batch:	480-217106	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G37009.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/04/2014 0719			Final Weight/Volume:	5 mL
Prep Date:	12/04/2014 0719				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethane	102	100	71 - 129	2	20		
1,1-Dichloroethene	97	97	58 - 121	0	16		
1,2-Dichlorobenzene	99	99	80 - 124	0	20		
1,2-Dichloroethane	98	99	75 - 127	1	20		
Benzene	100	98	71 - 124	2	13		
Chlorobenzene	99	97	72 - 120	2	25		
cis-1,2-Dichloroethene	104	101	74 - 124	3	15		
Ethylbenzene	96	93	77 - 123	3	15		
m-Xylene & p-Xylene	99	97	76 - 122	2	16		
o-Xylene	98	96	76 - 122	3	16		
Tetrachloroethene	96	95	74 - 122	2	20		
Toluene	95	94	80 - 122	1	15		
trans-1,2-Dichloroethene	97	98	73 - 127	1	20		
Trichloroethene	99	98	74 - 123	2	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	103	66 - 137
4-Bromofluorobenzene (Surr)	103	105	73 - 120
Toluene-d8 (Surr)	101	101	71 - 126

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-219106

Method: 8260C
pre5aration: 30T0C

MS Lab Sample ID:	480-71793-J-1 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	12/04/2014 0657		
Prep Date:	12/04/2014 0657		
Leach Date:	N/A		

MSD Lab Sample ID:	480-71793-J-1 MSD
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	12/04/2014 0719
Prep Date:	12/04/2014 0719
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1-Dichloroethane	ND	125	125	128	125
1,1-Dichloroethene	ND	125	125	121	121
1,2-Dichlorobenzene	ND	125	125	124	124
1,2-Dichloroethane	ND	125	125	122	123
Benzene	ND	125	125	125	122
Chlorobenzene	7.5	125	125	132	129
cis-1,2-Dichloroethene	ND	125	125	131	126
Ethylbenzene	ND	125	125	120	117
m-Xylene & p-Xylene	ND	125	125	124	122
o-Xylene	ND	125	125	123	120
Tetrachloroethene	ND	125	125	120	118
Toluene	ND	125	125	119	117
trans-1,2-Dichloroethene	ND	125	125	122	123
Trichloroethene	ND	125	125	124	122

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 480-213P29

Method: 8260C xLM
pre5aration: 30T0C

Lab Sample ID:	MB 480-215927/8	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4167.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1734	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1734				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.0040	0.020

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	97	50 - 150
TBA-d9 (Surr)	112	50 - 150

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 480-213P29

Method: 8260C xLM
pre5aration: 30T0C

LCS Lab Sample ID:	LCS 480-215927/5	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4164.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1516	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1516				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-215927/6	Analysis Batch:	480-215927	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4165.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	11/25/2014 1540	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	11/25/2014 1540				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	133	129	50 - 150	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	107	100	50 - 150
TBA-d9 (Surr)	109	120	50 - 150

Client: Waste Management

Job Number: 280-62814-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 480-213P29

Method: 8260C x LM
pre5aration: 30T0C

LCS Lab Sample ID:	LCS 480-215927/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-215927/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 1516			Analysis Date:	11/25/2014 1540
Prep Date:	11/25/2014 1516			Prep Date:	11/25/2014 1540
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	0.266	0.258

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234414

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254414/1-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0817	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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

baS Control xaD 5le - Batch: 280-234414

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254414/2-A	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0819	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	53.5	107	90 - 111	
Cobalt, Dissolved	0.500	0.531	106	89 - 111	
Iron, Dissolved	1.00	1.07	107	89 - 115	
Magnesium, Dissolved	50.0	52.0	104	90 - 113	
Potassium, Dissolved	50.0	53.0	106	89 - 114	
Sodium, Dissolved	50.0	55.4	111	90 - 115	

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234414

Method: 6010B
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-6	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0904			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-6	Analysis Batch:	280-257020	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254414	Lab File ID:	26A121214E.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0907			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	106	105	48 - 153	1	20		
Cobalt, Dissolved	107	106	82 - 119	1	20		
Iron, Dissolved	108	107	52 - 155	1	20		
Magnesium, Dissolved	105	103	62 - 146	2	20		
Potassium, Dissolved	107	106	76 - 132	1	20		
Sodium, Dissolved	112	111	70 - 203	0	20		

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234414

Method: 6010B
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-6	Units:	mg/L	MSD Lab Sample ID:	280-62814-6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/13/2014 0904			Analysis Date:	12/13/2014 0907
Prep Date:	11/24/2014 1245			Prep Date:	11/24/2014 1245
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, Dissolved	25	50.0	50.0	78.4	77.7
Cobalt, Dissolved	ND	0.500	0.500	0.535	0.528
Iron, Dissolved	ND	1.00	1.00	1.08	1.07
Magnesium, Dissolved	15	50.0	50.0	66.8	65.8
Potassium, Dissolved	3.1	50.0	50.0	56.6	56.1
Sodium, Dissolved	9.0	50.0	50.0	64.9	64.5

Client: Waste Management Job Number: 280-62814-1

Method Blank - Batch: 280-2344T6

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254436/1-A	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0459	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Cobalt, Total	ND		0.0030	0.0030
Iron, Total	ND		0.060	0.060

baS Control xaD 5le - Batch: 280-2344T6

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254436/2-A	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0502	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cobalt, Total	0.500	0.537	107	89 - 111	
Iron, Total	1.00	1.10	110	89 - 115	

Matri/ x5ike7
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-2344T6

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

MS Lab Sample ID:	280-62814-1	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0533			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-1	Analysis Batch:	280-257019	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-254436	Lab File ID:	26A121214D.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/13/2014 0536			Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cobalt, Total	106	107	82 - 119	1	20		
Iron, Total	112	113	52 - 155	0	20		

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-2344T6

Method: 6010B
pre5aration: T003m
Aotal Recol eraSle

MS Lab Sample ID:	280-62814-1	Units: mg/L	MSD Lab Sample ID:	280-62814-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/13/2014 0533		Analysis Date:	12/13/2014 0536	
Prep Date:	11/25/2014 0715		Prep Date:	11/25/2014 0715	
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	0.530	0.535
Iron, Total	ND	1.00	1.00	1.12	1.13

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234428

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254428/1-A	Analysis Batch:	280-255058	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-254428	Lab File ID:	212_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2014 0251	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
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
Selenium, Total	ND		0.0010	0.0010
Thallium, Total	ND		0.0010	0.0010
Vanadium, Total	ND		0.0020	0.0020
Zinc, Total	ND		0.0050	0.0050

Method Blank - Batch: 280-234428

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254428/1-A	Analysis Batch:	280-255167	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-254428	Lab File ID:	043_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/28/2014 1617	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nickel, Total	ND		0.0040	0.0040
Silver, Total	ND		0.0020	0.0020

Client: Waste Management Job Number: 280-62814-1

baS Control xaD 5le - Batch: 280-234428 **Method: 6020**
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254428/2-A	Analysis Batch:	280-255058	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-254428	Lab File ID:	213_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2014 0255	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	0.0400	0.0382	95	85 - 115	
Barium, Total	0.0400	0.0388	97	85 - 118	
Beryllium, Total	0.0400	0.0414	103	80 - 125	
Cadmium, Total	0.0400	0.0382	95	85 - 115	
Chromium, Total	0.0400	0.0373	93	84 - 121	
Copper, Total	0.0400	0.0369	92	85 - 119	
Lead, Total	0.0400	0.0415	104	85 - 118	
Manganese, Total	0.0400	0.0391	98	85 - 117	
Selenium, Total	0.0400	0.0401	100	77 - 122	
Thallium, Total	0.0400	0.0410	103	85 - 118	
Vanadium, Total	0.0400	0.0376	94	85 - 120	
Zinc, Total	0.0400	0.0399	100	83 - 122	

baS Control xaD 5le - Batch: 280-234428 **Method: 6020**
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254428/2-A	Analysis Batch:	280-255167	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-254428	Lab File ID:	044_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/28/2014 1621	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nickel, Total	0.0400	0.0428	107	85 - 119	
Silver, Total	0.0400	0.0428	107	85 - 115	

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike - Batch: 280-234428

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	280-62814-2	Analysis Batch:	280-255058	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-254428	Lab File ID:	217SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/26/2014 0309	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/25/2014 0715				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Total	ND	0.0400	0.0385	96	85 - 115	
Barium, Total	0.0062	0.0400	0.0453	98	85 - 118	
Beryllium, Total	ND	0.0400	0.0428	107	80 - 125	
Cadmium, Total	ND	0.0400	0.0375	94	85 - 115	
Chromium, Total	ND	0.0400	0.0371	93	84 - 121	
Copper, Total	ND	0.0400	0.0370	92	85 - 119	
Lead, Total	ND	0.0400	0.0403	101	85 - 118	
Manganese, Total	2.5	0.0400	2.43	-73	85 - 117	4
Selenium, Total	ND	0.0400	0.0394	98	77 - 122	
Thallium, Total	ND	0.0400	0.0404	101	85 - 118	
Vanadium, Total	ND	0.0400	0.0385	96	85 - 120	
Zinc, Total	0.0091	0.0400	0.0424	83	83 - 122	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234468

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254468/1-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254468	Lab File ID:	211_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0507	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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

baS Control xaD 5le - Batch: 280-234468

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254468/2-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254468	Lab File ID:	212_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0510	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0393	98	85 - 115	
Barium, Dissolved	0.0400	0.0408	102	85 - 118	
Beryllium, Dissolved	0.0400	0.0416	104	80 - 125	
Cadmium, Dissolved	0.0400	0.0426	107	85 - 115	
Chromium, Dissolved	0.0400	0.0411	103	84 - 121	
Copper, Dissolved	0.0400	0.0431	108	85 - 119	
Lead, Dissolved	0.0400	0.0426	107	85 - 118	
Manganese, Dissolved	0.0400	0.0414	103	85 - 117	
Nickel, Dissolved	0.0400	0.0428	107	85 - 119	
Selenium, Dissolved	0.0400	0.0428	107	77 - 122	
Silver, Dissolved	0.0400	0.0426	106	85 - 115	
Thallium, Dissolved	0.0400	0.0422	105	85 - 118	
Vanadium, Dissolved	0.0400	0.0403	101	85 - 120	
Zinc, Dissolved	0.0400	0.0457	114	83 - 122	

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234468

Method: 6020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-7	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254468	Lab File ID:	217_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0526			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-7	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254468	Lab File ID:	218_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0529			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	106	104	85 - 115	2	20		
Barium, Dissolved	105	105	85 - 118	0	20		
Beryllium, Dissolved	109	106	80 - 125	2	20		
Cadmium, Dissolved	107	105	85 - 115	2	20		
Chromium, Dissolved	106	103	84 - 121	3	20		
Copper, Dissolved	108	106	85 - 119	2	20		
Lead, Dissolved	106	104	85 - 118	2	20		
Manganese, Dissolved	113	102	85 - 117	2	20		
Nickel, Dissolved	108	106	85 - 119	2	20		
Selenium, Dissolved	110	106	77 - 122	3	20		
Silver, Dissolved	107	104	85 - 115	3	20		
Thallium, Dissolved	105	104	85 - 118	1	20		
Vanadium, Dissolved	109	107	85 - 120	1	20		
Zinc, Dissolved	118	113	83 - 122	4	20		

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234468

Method: 6020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-7	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/25/2014 0526		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62814-7
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/25/2014 0529
Prep Date:	11/24/2014 1245
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	0.0423	0.0415
Barium, Dissolved	0.0064	0.0400	0.0400	0.0485	0.0483
Beryllium, Dissolved	ND	0.0400	0.0400	0.0435	0.0426
Cadmium, Dissolved	ND	0.0400	0.0400	0.0429	0.0420
Chromium, Dissolved	ND	0.0400	0.0400	0.0424	0.0410
Copper, Dissolved	ND	0.0400	0.0400	0.0431	0.0425
Lead, Dissolved	ND	0.0400	0.0400	0.0425	0.0415
Manganese, Dissolved	0.16	0.0400	0.0400	0.203	0.198
Nickel, Dissolved	ND	0.0400	0.0400	0.0432	0.0423
Selenium, Dissolved	ND	0.0400	0.0400	0.0438	0.0426
Silver, Dissolved	ND	0.0400	0.0400	0.0428	0.0414
Thallium, Dissolved	ND	0.0400	0.0400	0.0421	0.0416
Vanadium, Dissolved	ND	0.0400	0.0400	0.0435	0.0429
Zinc, Dissolved	ND	0.0400	0.0400	0.0474	0.0454

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-23446P

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-254469/1-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	182_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0338	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
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

baS Control xaD 5le - Batch: 280-23446P

Method: 6020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-254469/2-A	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	183_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0341	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0368	92	85 - 115	
Barium, Dissolved	0.0400	0.0398	100	85 - 118	
Beryllium, Dissolved	0.0400	0.0397	99	80 - 125	
Cadmium, Dissolved	0.0400	0.0396	99	85 - 115	
Chromium, Dissolved	0.0400	0.0392	98	84 - 121	
Copper, Dissolved	0.0400	0.0410	103	85 - 119	
Lead, Dissolved	0.0400	0.0395	99	85 - 118	
Manganese, Dissolved	0.0400	0.0400	100	85 - 117	
Nickel, Dissolved	0.0400	0.0405	101	85 - 119	
Selenium, Dissolved	0.0400	0.0423	106	77 - 122	
Silver, Dissolved	0.0400	0.0403	101	85 - 115	
Thallium, Dissolved	0.0400	0.0395	99	85 - 118	
Vanadium, Dissolved	0.0400	0.0387	97	85 - 120	
Zinc, Dissolved	0.0400	0.0424	106	83 - 122	

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23446P

Method: 6020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-2	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	196_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0421			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-2	Analysis Batch:	280-254731	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-254469	Lab File ID:	197_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/25/2014 0424			Final Weight/Volume:	50 mL
Prep Date:	11/24/2014 1245				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	102	101	85 - 115	1	20		
Barium, Dissolved	106	101	85 - 118	4	20		
Beryllium, Dissolved	104	102	80 - 125	2	20		
Cadmium, Dissolved	101	101	85 - 115	1	20		
Chromium, Dissolved	104	101	84 - 121	3	20		
Copper, Dissolved	106	102	85 - 119	4	20		
Lead, Dissolved	101	98	85 - 118	3	20		
Manganese, Dissolved	288	62	85 - 117	4	20	4	4
Nickel, Dissolved	107	104	85 - 119	3	20		
Selenium, Dissolved	110	106	77 - 122	4	20		
Silver, Dissolved	102	100	85 - 115	2	20		
Thallium, Dissolved	102	100	85 - 118	2	20		
Vanadium, Dissolved	105	102	85 - 120	3	20		
Zinc, Dissolved	101	96	83 - 122	4	20		

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23446P

Method: 6020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-62814-2	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/25/2014 0421		
Prep Date:	11/24/2014 1245		
Leach Date:	N/A		

MSD Lab Sample ID:	280-62814-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/25/2014 0424
Prep Date:	11/24/2014 1245
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	0.0408		0.0402	
Barium, Dissolved	0.0060	0.0400	0.0400	0.0484		0.0464	
Beryllium, Dissolved	ND	0.0400	0.0400	0.0415		0.0406	
Cadmium, Dissolved	ND	0.0400	0.0400	0.0405		0.0402	
Chromium, Dissolved	ND	0.0400	0.0400	0.0416		0.0405	
Copper, Dissolved	ND	0.0400	0.0400	0.0424		0.0408	
Lead, Dissolved	ND	0.0400	0.0400	0.0403		0.0392	
Manganese, Dissolved	2.4	0.0400	0.0400	2.51	4	2.42	4
Nickel, Dissolved	ND	0.0400	0.0400	0.0428		0.0415	
Selenium, Dissolved	ND	0.0400	0.0400	0.0439		0.0424	
Silver, Dissolved	ND	0.0400	0.0400	0.0407		0.0398	
Thallium, Dissolved	ND	0.0400	0.0400	0.0408		0.0399	
Vanadium, Dissolved	ND	0.0400	0.0400	0.0420		0.0409	
Zinc, Dissolved	0.0055	0.0400	0.0400	0.0459		0.0441	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-233043

Method: T00.0
pre5aration: N7m

Lab Sample ID:	MB 280-255045/6	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1120	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 Re5orting biD it Check - Batch: 280-233043

Method: T00.0
pre5aration: N7m

Lab Sample ID:	MRL 280-255045/3	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1034	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	94	50 - 150	
Sulfate	2.50	ND	93	50 - 150	

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-233043

Method: T00.0
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-255045/4	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1049	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-255045/5	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1105	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	99	99	90 - 110	0	10		
Sulfate	98	98	90 - 110	0	10		

Client: Waste Management

Job Number: 280-62814-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-233043

Method: T00.0
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-255045/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-255045/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/27/2014 1049			Analysis Date:	11/27/2014 1105
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	99.4	99.1
Sulfate	100	100	98.3	98.3

Matri/ x5ike7
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-233043

Method: T00.0
pre5aration: N7m

MS Lab Sample ID:	280-62814-8	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1824			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-62814-8	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1839			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	112	115	80 - 120	2	20		
Sulfate	115	118	80 - 120	2	20		

Client: Waste Management Job Number: 280-62814-1

Matri/ x 5ike7 **Method: T00.0**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-233043 **pre5aration: N7m**

MS Lab Sample ID:	280-62814-8	Units: mg/L	MSD Lab Sample ID:	280-62814-8	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/27/2014 1824		Analysis Date:	11/27/2014 1839	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	12	25.0	25.0	40.4	41.2
Sulfate	17	25.0	25.0	45.8	46.7

v u5licate - Batch: 280-233043 **Method: T00.0**
pre5aration: N7m

Lab Sample ID:	280-62814-8	Analysis Batch:	280-255045	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/27/2014 1808	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	12	12.5	0.07	15	
Sulfate	17	17.1	0.02	15	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234661

Method: T30.1
pre5aration: N7m

Lab Sample ID:	MB 280-254661/199	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1522	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234661

Method: T30.1
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254661/197	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/24/2014 1518	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254661/198	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/24/2014 1520	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)	96	90	90 - 110	6	10		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234661

Method: T30.1
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254661/197	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254661/198
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1518			Analysis Date:	11/24/2014 1520
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	2.39	2.24

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7 **Method: T30.1**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234661 **pre5aration: N7m**

MS Lab Sample ID:	280-62808-B-3 MS	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1540			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62808-B-3 MSD	Analysis Batch:	280-254661	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\112414.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	11/24/2014 1542			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)	90	91	90 - 110	1	10		

Matri/ x 5ike7 **Method: T30.1**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234661 **pre5aration: N7m**

MS Lab Sample ID:	280-62808-B-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-62808-B-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1540			Analysis Date:	11/24/2014 1542
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)	0.044	1.00	1.00	0.948	0.959

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-233609

Method: T3T.2
pre5aration: N7m

Lab Sample ID:	MB 280-255607/1	Analysis Batch:	280-255607	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:	11/21/2014 2211	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: 280-62814-1

Method Blank - Batch: 280-234984

Method: xM 2T20B
pre5aration: N7m

Lab Sample ID:	MB 280-254784/6	Analysis Batch:	280-254784	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112514a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 1038	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234984

Method: xM 2T20B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254784/4	Analysis Batch:	280-254784	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112514a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 1028	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254784/5	Analysis Batch:	280-254784	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112514a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 1034	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	95	97	90 - 110	2	10		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234984

Method: xM 2T20B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254784/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254784/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 1028			Analysis Date:	11/25/2014 1034
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	190	194

Client: Waste Management

Job Number: 280-62814-1

v u5licate - Batch: 280-234984

Method: xM 2T20B
pre5aration: N7m

Lab Sample ID:	280-62887-A-13 DU	Analysis Batch:	280-254784	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112514a.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 1053	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)	570	566	0.9	10	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234660

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	MB 280-254660/1	Analysis Batch:	280-254660	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:	11/24/2014 2318	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234660

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254660/2	Analysis Batch:	280-254660	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:	11/24/2014 2318	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254660/3	Analysis Batch:	280-254660	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:	11/24/2014 2318	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	99	86 - 110	0	20		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234660

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254660/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254660/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 2318			Analysis Date:	11/24/2014 2318
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	500	500	494	495

Client: Waste Management

Job Number: 280-62814-1

v u5licate - Batch: 280-234660

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	280-62814-7	Analysis Batch:	280-254660	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:	11/24/2014 2318	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)	170	165	4	10	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234P9T

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	MB 280-254973/1	Analysis Batch:	280-254973	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:	11/26/2014 1519	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234P9T

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254973/2	Analysis Batch:	280-254973	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:	11/26/2014 1519	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254973/3	Analysis Batch:	280-254973	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:	11/26/2014 1519	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	99	86 - 110	1	20		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234P9T

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254973/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254973/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/26/2014 1519			Analysis Date:	11/26/2014 1519
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	497	494

Client: Waste Management

Job Number: 280-62814-1

v u5licate - Batch: 280-234P9T

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	280-62814-8	Analysis Batch:	280-254973	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:	11/26/2014 1519	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)	230	227	0	10	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234999

Method: xM 2340v
pre5aration: N7m

Lab Sample ID:	MB 280-254777/3	Analysis Batch:	280-254777	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:	11/25/2014 1456	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234999

Method: xM 2340v
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254777/1	Analysis Batch:	280-254777	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:	100 mL
Analysis Date:	11/25/2014 1456	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254777/2	Analysis Batch:	280-254777	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:	100 mL
Analysis Date:	11/25/2014 1456	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	91	92	86 - 114	1	20		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234999

Method: xM 2340v
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254777/1	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254777/2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 1456			Analysis Date:	11/25/2014 1456
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	91.0	92.0

Client: Waste Management

Job Number: 280-62814-1

v u5licate - Batch: 280-234999

Method: xM 2340v
pre5aration: N7m

Lab Sample ID:	280-62804-C-1 DU	Analysis Batch:	280-254777	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:	150 mL
Analysis Date:	11/25/2014 1456	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	48	46.0	4	10	

Client: Waste Management

Job Number: 280-62814-1

Method Blank - Batch: 280-234946

Method: xM 3T10B
pre5aration: N7m

Lab Sample ID:	MB 280-254746/5	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1702	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: 280-234946

Method: xM 3T10B
pre5aration: N7m

Lab Sample ID:	MB 280-254746/37	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 0153	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

Client: Waste Management Job Number: 280-62814-1

baS Control xaD 5le7 **Method: xM 3T10B**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234946 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-254746/3	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1622	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254746/4	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 1640	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	98	88 - 112	1	15		

baS Control xaD 5le7 **Method: xM 3T10B**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-234946 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-254746/35	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 0120	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-254746/36	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 0137	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	99	88 - 112	2	15		

Client: Waste Management

Job Number: 280-62814-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234946

Method: x M 3T10B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254746/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254746/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 1622			Analysis Date:	11/24/2014 1640
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.2	24.4

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-234946

Method: x M 3T10B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-254746/35	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-254746/36
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 0120			Analysis Date:	11/25/2014 0137
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.3	24.7

Client: Waste Management Job Number: 280-62814-1

Matri/ x 5ike7 **Method: xM 3T10B**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234946 **pre5aration: N7m**

MS Lab Sample ID:	280-62813-E-2 MS	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 2200			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62813-E-2 MSD	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/24/2014 2217			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	99	99	88 - 112	1	15		

Matri/ x 5ike7 **Method: xM 3T10B**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234946 **pre5aration: N7m**

MS Lab Sample ID:	280-62833-D-3 MS	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 0333			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-62833-D-3 MSD	Analysis Batch:	280-254746	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112414.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/25/2014 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	97	97	88 - 112	0	15		

Client: Waste Management

Job Number: 280-62814-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234946

Method: x M 3T10B
pre5aration: N7m

MS Lab Sample ID:	280-62813-E-2 MS	Units: mg/L		MSD Lab Sample ID:	280-62813-E-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/24/2014 2200			Analysis Date:	11/24/2014 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
Total Organic Carbon - Average	ND	25.0	25.0	24.7	24.9

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-234946

Method: x M 3T10B
pre5aration: N7m

MS Lab Sample ID:	280-62833-D-3 MS	Units: mg/L		MSD Lab Sample ID:	280-62833-D-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/25/2014 0333			Analysis Date:	11/25/2014 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	2.5	25.0	25.0	26.7	26.8

Client: Waste Management Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: 280-6281W1 **Client ID:** M4 -W

/ am9le 3 ate15ime: 441201 2047 0RcR SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-4		780-246R20		4210c1 2047 48:d2	4	5EB AL P	G5G
E:8260C	280-62847-P-4		780-246R20		4210c1 2047 48:d2	4	5EB AL P	G5G
v :d0c0C	280-62847-U-4		780-24dR2F		441 2d1 2047 24:2F	4	5EB AL P	C3 C
E:8260C / KM	280-62847-U-4		780-24dR2F		441 2d1 2047 24:2F	4	5EB AL P	C3 C
v :c00dE	280-62847-I -4-A		280-2dF04R	280-2d77c6	441 2d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -4-A		280-2dF04R	280-2d77c6	4214c1 2047 0d:28	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -4-E		280-2dF020	280-2d7747	441271 2047 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -4-E		280-2dF020	280-2d7747	4214c1 2047 08:cd	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -4-A		280-2d7Fc4	280-2d776R	441271 2047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -4-A		280-2d7Fc4	280-2d776R	441 2d1 2047 07:0c	4	5EB 3 I N	JM
v :c00dE	280-62847-I -4-E		280-2dd0d8	280-2d7728	441 2d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -4-E		280-2dd0d8	280-2d7728	441261 2047 02:d8	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -4-E		280-2dd46F	280-2d7728	441 2d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -4-E		280-2dd46F	280-2d7728	441281 2047 46:27	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-4		280-2dd07d		441 2F1 2047 4d:cc	4	5EB 3 I N	v / 4
E:cd0.4	280-62847-C-4		280-2d7664		441271 2047 4d:76	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-4		280-2dd60F		441241 2047 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-4		280-2d7F87		441 2d1 2047 44:20	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-4		280-2d7660		441271 2047 2c:48	4	5EB 3 I N	CM/
E:/ M 2d703	280-62847-A-4		280-2d7FFF		441 2d1 2047 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-4		280-2d7F76		441 2d1 2047 00:cc	4	5EB 3 I N	CCJ

Lab ID: 280-6281W1 MU **Client ID:** M4 -W

/ am9le 3 ate15ime: 441201 2047 0RcR SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-I -4-C M/		280-2dF04R	280-2d77c6	441 2d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -4-C M/		280-2dF04R	280-2d77c6	4214c1 2047 0d:cc	4	5EB 3 I N	/ J/

Lab ID: 280-6281W1 MUD **Client ID:** M4 -W

/ am9le 3 ate15ime: 441201 2047 0RcR SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-I -4-3 M/ 3		280-2dF04R	280-2d77c6	441 2d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -4-3 M/ 3		280-2dF04R	280-2d77c6	4214c1 2047 0d:c6	4	5EB 3 I N	/ J/

Client: Waste Management Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: 280-6281W2 **Client ID:** M4 -92

/ am9le 3 ate 5ime: 44120120 47 44:27 SepeiDeT 3 ate 5ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-2		780-246R20		4210c120 47 4R47	4	5EB AL P	G5G
E:8260C	280-62847-P-2		780-246R20		4210c120 47 4R47	4	5EB AL P	G5G
v :d0c0C	280-62847-U-2		780-24dR2F		4412d120 47 24:d4	4	5EB AL P	C3 C
E:8260C / KM	280-62847-U-2		780-24dR2F		4412d120 47 24:d4	4	5EB AL P	C3 C
v :c00dE	280-62847-I -2-3		280-2dF04R	280-2d77c6	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -2-3		280-2dF04R	280-2d77c6	4214c120 47 0d:c8	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -2-E		280-2dF020	280-2d7747	4412712047 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -2-E		280-2dF020	280-2d7747	4214c120 47 08:c8	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -2-A		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -2-A		280-2d7Fc4	280-2d776R	4412d120 47 07:42	4	5EB 3 I N	JM
v :c00dE	280-62847-I -2-E		280-2dd0d8	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -2-E		280-2dd0d8	280-2d7728	4412612047 0c:02	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -2-E		280-2dd46F	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -2-E		280-2dd46F	280-2d7728	4412812047 46:2R	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-2		280-2dd07d		4412F12047 46:20	4	5EB 3 I N	v/ 4
E:cd0.4	280-62847-C-2		280-2d7664		4412712047 4d:78	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-2		280-2dd60F		4412412047 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-2		280-2d7F87		4412d120 47 44:2d	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-2		280-2d7660		4412712047 2c:48	4	5EB 3 I N	CM/
E:/ M 2d703	280-62847-A-2		280-2d7FFF		4412d120 47 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-2		280-2d7F76		4412d120 47 00:7R	4	5EB 3 I N	CCJ

Lab ID: 280-6281W2 MU **Client ID:** M4 -92

/ am9le 3 ate 5ime: 44120120 47 44:27 SepeiDeT 3 ate 5ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -2-C M/		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -2-C M/		280-2d7Fc4	280-2d776R	4412d120 47 07:24	4	5EB 3 I N	JM
v :c00dE	280-62847-I -2-A M/		280-2dd0d8	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -2-A M/		280-2dd0d8	280-2d7728	4412612047 0c:0R	4	5EB 3 I N	BM5

Lab ID: 280-6281W2 MUD **Client ID:** M4 -92

/ am9le 3 ate 5ime: 44120120 47 44:27 SepeiDeT 3 ate 5ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -2-3 M/ 3		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -2-3 M/ 3		280-2d7Fc4	280-2d776R	4412d120 47 07:27	4	5EB 3 I N	JM
v :c00dE	280-62847-I -2-C M/ 3		280-2dd0d8	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -2-C M/ 3		280-2dd0d8	280-2d7728	4412612047 0c:4c	4	5EB 3 I N	BM5

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **280-6281W9**

Client ID: **M4 -13C**

/ am9le 3 ate15ime: 4412012047 42:02

SepeiDeT 3 ate15ime: 4412412047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-c		780-24F406		4210712047 00:c8	4	5EBALP	I 3A
E:8260C	280-62847-P-c		780-24F406		4210712047 00:c8	4	5EBALP	I 3A
v :d0c0C	280-62847-U-c		780-24dR2F		4412d12047 22:4d	4	5EBALP	C3C
E:8260C / KM	280-62847-U-c		780-24dR2F		4412d12047 22:4d	4	5EBALP	C3C
v :c00dE	280-62847-I -c-A		280-2dF04R	280-2d77c6	4412d12047 0F:4d	4	5EB3IN	CGG
E:6040A	280-62847-I -c-A		280-2dF04R	280-2d77c6	4214c12047 0d:d4	4	5EB3IN	/ J/
v :c00dE	280-62847-3 -c-E		280-2dF020	280-2d7747	4412712047 42:7d	4	5EB3IN	CGG
E:6040A	280-62847-3 -c-E		280-2dF020	280-2d7747	4214c12047 08:70	4	5EB3IN	/ J/
v :c00dE	280-62847-3 -c-A		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB3IN	CGG
E:6020	280-62847-3 -c-A		280-2d7Fc4	280-2d776R	4412d12047 07:2F	4	5EB3IN	JM
v :c00dE	280-62847-I -c-E		280-2dd0d8	280-2d7728	4412d12047 0F:4d	4	5EB3IN	CGG
E:6020	280-62847-I -c-E		280-2dd0d8	280-2d7728	4412612047 0c:2F	4	5EB3IN	BM5
v :c00dE	280-62847-I -c-E		280-2dd46F	280-2d7728	4412d12047 0F:4d	4	5EB3IN	CGG
E:6020	280-62847-I -c-E		280-2dd46F	280-2d7728	4412812047 46:d7	4	5EB3IN	BM5
E:c00.0	280-62847-A-c		280-2dd07d		4412F12047 46:cd	4	5EB3IN	v/ 4
E:cd0.4	280-62847-C-c		280-2d7664		4412712047 4d:d0	4	5EB3IN	CMB
E:cdc.2	280-62847-E-c		280-2dd60F		4412412047 22:44	4	5EB3IN	SU/
E:/ M 2c20A	280-62847-A-c		280-2d7F87		4412d12047 44:cR	4	5EB3IN	CCJ
E:/ M 2d70C	280-62847-A-c		280-2d7660		4412712047 2c:48	4	5EB3IN	CM/
E:/ M 2d703	280-62847-A-c		280-2d7FFF		4412d12047 47:d6	4	5EB3IN	MW4
E:/ M dc40A	280-62847-C-c		280-2d7F76		4412d12047 04:0d	4	5EB3IN	CCJ

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **280-6281WW** **Client ID:** **M4 -2W**

/ am9le 3 ate15ime: 4412012047 44:06 SepeiDeT 3 ate15ime: 4412412047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-7		780-24F406		42107 12047 04:00	4	5EB AL P	I 3A
E:8260C	280-62847-P-7		780-24F406		42107 12047 04:00	4	5EB AL P	I 3A
v :d0c0C	280-62847-U-7		780-24dR2F		4412d 12047 22:cR	4	5EB AL P	C3 C
E:8260C / KM	280-62847-U-7		780-24dR2F		4412d 12047 22:cR	4	5EB AL P	C3 C
v :c00dE	280-62847-I -7-A		280-2dF04R	280-2d77c6	4412d 12047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -7-A		280-2dF04R	280-2d77c6	4214c 12047 0d:d7	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -7-E		280-2dF020	280-2d7747	44127 12047 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -7-E		280-2dF020	280-2d7747	4214c 12047 08:dc	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -7-A		280-2d7Fc4	280-2d776R	44127 12047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -7-A		280-2d7Fc4	280-2d776R	4412d 12047 07:c4	4	5EB 3 I N	JM
v :c00dE	280-62847-I -7-E		280-2dd0d8	280-2d7728	4412d 12047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -7-E		280-2dd0d8	280-2d7728	44126 12047 0c:c4	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -7-E		280-2dd46F	280-2d7728	4412d 12047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -7-E		280-2dd46F	280-2d7728	44128 12047 46:dF	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-7		280-2dd07d		4412F 12047 46:d4	4	5EB 3 I N	v / 4
E:cd0.4	280-62847-C-7		280-2d7664		44127 12047 4d:d2	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-7		280-2dd60F		44124 12047 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-7		280-2d7F87		4412d 12047 44:7c	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-7		280-2d7660		44127 12047 2c:48	4	5EB 3 I N	CM/
E:/ M 2d703	280-62847-A-7		280-2d7FFF		4412d 12047 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-7		280-2d7F76		4412d 12047 07:d6	4	5EB 3 I N	CCJ

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **280-6281WS**

Client ID: **M4 -2B1**

/ am9le 3 ate15ime: 4412012047 40:42

SepeiDeT 3 ate15ime: 4412412047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-d		780-24F406		4210712047 04:2c	4	5EBALP	I 3A
E:8260C	280-62847-P-d		780-24F406		4210712047 04:2c	4	5EBALP	I 3A
v :d0c0C	280-62847-U-d		780-24dR2F		4412d12047 2c:0c	4	5EBALP	C3C
E:8260C / KM	280-62847-U-d		780-24dR2F		4412d12047 2c:0c	4	5EBALP	C3C
v :c00dE	280-62847-I -d-A		280-2dF04R	280-2d77c6	4412d12047 0F:4d	4	5EB3IN	CGG
E:6040A	280-62847-I -d-A		280-2dF04R	280-2d77c6	4214c12047 0d:d6	4	5EB3IN	/ J/
v :c00dE	280-62847-3 -d-E		280-2dF020	280-2d7747	4412712047 42:7d	4	5EB3IN	CGG
E:6040A	280-62847-3 -d-E		280-2dF020	280-2d7747	4214c12047 08:d6	4	5EB3IN	/ J/
v :c00dE	280-62847-3 -d-A		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB3IN	CGG
E:6020	280-62847-3 -d-A		280-2d7Fc4	280-2d776R	4412d12047 07:c7	4	5EB3IN	JM
v :c00dE	280-62847-I -d-E		280-2dd0d8	280-2d7728	4412d12047 0F:4d	4	5EB3IN	CGG
E:6020	280-62847-I -d-E		280-2dd0d8	280-2d7728	4412612047 0c:c7	4	5EB3IN	BM5
v :c00dE	280-62847-I -d-E		280-2dd46F	280-2d7728	4412d12047 0F:4d	4	5EB3IN	CGG
E:6020	280-62847-I -d-E		280-2dd46F	280-2d7728	4412812047 4F:04	4	5EB3IN	BM5
E:c00.0	280-62847-A-d		280-2dd07d		4412F12047 4F:06	4	5EB3IN	v/ 4
E:cd0.4	280-62847-C-d		280-2d7664		4412712047 4d:d7	4	5EB3IN	CMB
E:cdc.2	280-62847-E-d		280-2dd60F		4412412047 22:44	4	5EB3IN	SU/
E:/ M 2c20A	280-62847-A-d		280-2d7F87		4412d12047 42:06	4	5EB3IN	CCJ
E:/ M 2d70C	280-62847-A-d		280-2d7660		4412712047 2c:48	4	5EB3IN	CM/
E:/ M 2d703	280-62847-A-d		280-2d7FFF		4412d12047 47:d6	4	5EB3IN	MW4
E:/ M dc40A	280-62847-C-d		280-2d7F76		4412d12047 0d:44	4	5EB3IN	CCJ

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: 280-6281W6 **Client ID:** M4 -20

/ am9le 3 ate15ime: 44120120 47 0R40 SepeiDeT 3 ate15ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-6		780-24F406		42107120 47 04:7d	4	5EB AL P	I 3A
E:8260C	280-62847-P-6		780-24F406		42107120 47 04:7d	4	5EB AL P	I 3A
v :d0c0C	280-62847-U-6		780-24dR2F		4412d120 47 2c:26	4	5EB AL P	C3 C
E:8260C / KM	280-62847-U-6		780-24dR2F		4412d120 47 2c:26	4	5EB AL P	C3 C
v :c00dE	280-62847-I -6-A		280-2dF04R	280-2d77c6	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -6-A		280-2dF04R	280-2d77c6	4214c120 47 0d:dR	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -6-E		280-2dF020	280-2d7747	44127120 47 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -6-E		280-2dF020	280-2d7747	4214c120 47 08:dR	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -6-3		280-2d7Fc4	280-2d7768	44127120 47 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -6-3		280-2d7Fc4	280-2d7768	4412d120 47 0d:4c	4	5EB 3 I N	JM
v :c00dE	280-62847-I -6-E		280-2dd0d8	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -6-E		280-2dd0d8	280-2d7728	44126120 47 0c:c8	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -6-E		280-2dd46F	280-2d7728	4412d120 47 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -6-E		280-2dd46F	280-2d7728	44128120 47 4F:07	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-6		280-2dd07d		4412F120 47 4F:22	4	5EB 3 I N	v / 4
E:cd0.4	280-62847-C-6		280-2d7664		44127120 47 4d:d6	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-6		280-2dd60F		44124120 47 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-6		280-2d7F87		4412d120 47 42:40	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-6		280-2d7660		44127120 47 2c:48	4	5EB 3 I N	CM/
E:/ M 2d703	280-62847-A-6		280-2d7FFF		4412d120 47 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-6		280-2d7F76		4412d120 47 0d:26	4	5EB 3 I N	CCJ

Lab ID: 280-6281W6 MU **Client ID:** M4 -20

/ am9le 3 ate15ime: 44120120 47 0R40 SepeiDeT 3 ate15ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -6-A M/		280-2dF020	280-2d7747	44127120 47 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -6-A M/		280-2dF020	280-2d7747	4214c120 47 0R07	4	5EB 3 I N	/ J/

Lab ID: 280-6281W6 MUD **Client ID:** M4 -20

/ am9le 3 ate15ime: 44120120 47 0R40 SepeiDeT 3 ate15ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -6-C M/ 3		280-2dF020	280-2d7747	44127120 47 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -6-C M/ 3		280-2dF020	280-2d7747	4214c120 47 0R0F	4	5EB 3 I N	/ J/

Client: Waste Management Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: 280-6281W5 Client ID: D7 P1

/ am9le 3 ate 15ime: 44 12012047 0R:20 SepeiDeT 3 ate 15ime: 44 1241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-F		780-24F406		42107 12047 02:08	4	5EB AL P	I 3A
E:8260C	280-62847-P-F		780-24F406		42107 12047 02:08	4	5EB AL P	I 3A
v :d0c0C	280-62847-U-F		780-24dR2F		44 12d 12047 2c:d4	4	5EB AL P	C3 C
E:8260C / KM	280-62847-U-F		780-24dR2F		44 12d 12047 2c:d4	4	5EB AL P	C3 C
v :c00dE	280-62847-I -F-A		280-2dF04R	280-2d77c6	44 12d 12047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -F-A		280-2dF04R	280-2d77c6	4214c 12047 06:02	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -F-E		280-2dF020	280-2d7747	44 1271 2047 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -F-E		280-2dF020	280-2d7747	4214c 12047 0R:0R	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -F-A		280-2d7Fc4	280-2d7768	44 1271 2047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -F-A		280-2d7Fc4	280-2d7768	44 12d 12047 0d:46	4	5EB 3 I N	JM
v :c00dE	280-62847-I -F-E		280-2dd0d8	280-2d7728	44 12d 12047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -F-E		280-2dd0d8	280-2d7728	44 1261 2047 0c:74	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -F-E		280-2dd46F	280-2d7728	44 12d 12047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -F-E		280-2dd46F	280-2d7728	44 1281 2047 4F:08	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-F		280-2dd07d		44 12F 12047 4F:cF	4	5EB 3 I N	v / 4
E:cd0.4	280-62847-C-F		280-2d7664		44 1271 2047 46:42	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-F		280-2dd60F		44 1241 2047 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-F		280-2d7F87		44 12d 12047 42:47	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-F		280-2d7660		44 1271 2047 2c:48	4	5EB 3 I N	CM/
E:/ M 2d703	280-62847-A-F		280-2d7FFF		44 12d 12047 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-F		280-2d7F76		44 12d 12047 0d:74	4	5EB 3 I N	CCJ

Lab ID: 280-6281W5 MU Client ID: D7 P1

/ am9le 3 ate 15ime: 44 12012047 0R:20 SepeiDeT 3 ate 15ime: 44 1241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -F-C M/		280-2d7Fc4	280-2d7768	44 1271 2047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -F-C M/		280-2d7Fc4	280-2d7768	44 12d 12047 0d:26	4	5EB 3 I N	JM

Lab ID: 280-6281W5 MUD Client ID: D7 P1

/ am9le 3 ate 15ime: 44 12012047 0R:20 SepeiDeT 3 ate 15ime: 44 1241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :c00dE	280-62847-3 -F-3 M/ 3		280-2d7Fc4	280-2d7768	44 1271 2047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -F-3 M/ 3		280-2d7Fc4	280-2d7768	44 12d 12047 0d:2R	4	5EB 3 I N	JM

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: 280-6281W5 D7 **Client ID:** D7 P1

/ am9le 3 ate15ime: 441201 2047 0R:20 SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:/ M 2d70C	280-62847-A-F 3 L		280-2d7660		441271 2047 2c:48	4	5EB 3 I N	CM/

Lab ID: 280-6281W8 **Client ID:** D7 P2

/ am9le 3 ate15ime: 441201 2047 44:27 SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-P-8		780-24F406		421071 2047 02:c0	4	5EB AL P	I 3A
E:8260C	280-62847-P-8		780-24F406		421071 2047 02:c0	4	5EB AL P	I 3A
v :d0c0C	280-62847-U-8		780-24dR2F		441261 2047 00:4d	4	5EB AL P	C3 C
E:8260C / kM	280-62847-U-8		780-24dR2F		441261 2047 00:4d	4	5EB AL P	C3 C
v :c00dE	280-62847-I -8-A		280-2dF04R	280-2d77c6	441d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6040A	280-62847-I -8-A		280-2dF04R	280-2d77c6	4214c1 2047 06:07	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -8-E		280-2dF020	280-2d7747	441271 2047 42:7d	4	5EB 3 I N	CGG
E:6040A	280-62847-3 -8-E		280-2dF020	280-2d7747	4214c1 2047 0R:42	4	5EB 3 I N	/ J/
v :c00dE	280-62847-3 -8-A		280-2d7Fc4	280-2d7768	441271 2047 42:7d	4	5EB 3 I N	CGG
E:6020	280-62847-3 -8-A		280-2d7Fc4	280-2d7768	441d1 2047 0d:c8	4	5EB 3 I N	JM
v :c00dE	280-62847-I -8-E		280-2dd0d8	280-2d7728	441d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -8-E		280-2dd0d8	280-2d7728	441261 2047 0c:7d	4	5EB 3 I N	BM5
v :c00dE	280-62847-I -8-E		280-2dd46F	280-2d7728	441d1 2047 0F:4d	4	5EB 3 I N	CGG
E:6020	280-62847-I -8-E		280-2dd46F	280-2d7728	441281 2047 4F:42	4	5EB 3 I N	BM5
E:c00.0	280-62847-A-8		280-2dd07d		441F1 2047 4F:dc	4	5EB 3 I N	v/ 4
E:cd0.4	280-62847-C-8		280-2d7664		441271 2047 46:47	4	5EB 3 I N	CMB
E:cdc.2	280-62847-E-8		280-2dd60F		441241 2047 22:44	4	5EB 3 I N	SU/
E:/ M 2c20A	280-62847-A-8		280-2d7F87		441d1 2047 42:4R	4	5EB 3 I N	CCJ
E:/ M 2d70C	280-62847-A-8		280-2d7RFc		441261 2047 4d:4R	4	5EB 3 I N	/ hC
E:/ M 2d703	280-62847-A-8		280-2d7FFF		441d1 2047 47:d6	4	5EB 3 I N	MW4
E:/ M dc40A	280-62847-C-8		280-2d7F76		441d1 2047 06:c0	4	5EB 3 I N	CCJ

Lab ID: 280-6281W8 MU **Client ID:** D7 P2

/ am9le 3 ate15ime: 441201 2047 44:27 SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:c00.0	280-62847-A-8 M/		280-2dd07d		441F1 2047 48:27	4	5EB 3 I N	v/ 4

Lab ID: 280-6281W8 MUD **Client ID:** D7 P2

/ am9le 3 ate15ime: 441201 2047 44:27 SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:c00.0	280-62847-A-8 M/ 3		280-2dd07d		441F1 2047 48:cR	4	5EB 3 I N	v/ 4

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **280-6281W8 D7** **Client ID:** **D7 P2**

/ am9le 3 ate 5ime: 44120120 47 44:27 SepeiDeT 3 ate 5ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:c00.0	280-62847-A-8 3 L		280-2dd07d		4412F120 47 48:08	4	5EB 3 I N	v / 4
E:/ M 2d70C	280-62847-A-8 3 L		280-2d7RFc		44126120 47 4d:4R	4	5EB 3 I N	/ hC

Lab ID: **280-6281W3** **Client ID:** **TRIP BLANK**

/ am9le 3 ate 5ime: 44120120 47 00:00 SepeiDeT 3 ate 5ime: 44124120 47 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	280-62847-E-R		780-24F406		42107120 47 02:d2	4	5EB AL P	I 3 A
E:8260C	280-62847-E-R		780-24F406		42107120 47 02:d2	4	5EB AL P	I 3 A
v :d0c0C	280-62847-I -R		780-24dR2F		44126120 47 00:cR	4	5EB AL P	C3 C
E:8260C / kM	280-62847-I -R		780-24dR2F		44126120 47 00:cR	4	5EB AL P	C3 C

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

/ am9le 3 ate15ime: N1E SepeiDeT 3 ate15ime: N1E

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	MA 780-246R201R		780-246R20		4210c12047 4c:20	4	5EB AL P	G5G
E:8260C	MA 780-246R201R		780-246R20		4210c12047 4c:20	4	5EB AL P	G5G
v :d0c0C	MA 780-24F4061F		780-24F406		4210c12047 2c:7R	4	5EB AL P	I 3A
E:8260C	MA 780-24F4061F		780-24F406		4210c12047 2c:7R	4	5EB AL P	I 3A
v :d0c0C	MA 780-24dR2F18		780-24dR2F		4412d12047 4F:c7	4	5EB AL P	C3C
E:8260C / kM	MA 780-24dR2F18		780-24dR2F		4412d12047 4F:c7	4	5EB AL P	C3C
v :c00dE	MA 280-2d77c614-E		280-2dF04R	280-2d77c6	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6040A	MA 280-2d77c614-E		280-2dF04R	280-2d77c6	4214c12047 07:dR	4	5EB 3I N	/ J/
v :c00dE	MA 280-2d774714-E		280-2dF020	280-2d7747	4412712047 42:7d	4	5EB 3I N	CGG
E:6040A	MA 280-2d774714-E		280-2dF020	280-2d7747	4214c12047 08:4F	4	5EB 3I N	/ J/
v :c00dE	MA 280-2d776R14-E		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB 3I N	CGG
E:6020	MA 280-2d776R14-E		280-2d7Fc4	280-2d776R	4412d12047 0c:c8	4	5EB 3I N	JM
v :c00dE	MA 280-2d776814-E		280-2d7Fc4	280-2d7768	4412712047 42:7d	4	5EB 3I N	CGG
E:6020	MA 280-2d776814-E		280-2d7Fc4	280-2d7768	4412d12047 0d:0F	4	5EB 3I N	JM
v :c00dE	MA 280-2d772814-E		280-2dd0d8	280-2d7728	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6020	MA 280-2d772814-E		280-2dd0d8	280-2d7728	4412612047 02:d4	4	5EB 3I N	BM5
v :c00dE	MA 280-2d772814-E		280-2dd46F	280-2d7728	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6020	MA 280-2d772814-E		280-2dd46F	280-2d7728	4412812047 46:4F	4	5EB 3I N	BM5
E:c00.0	MA 280-2dd07d16		280-2dd07d		4412F12047 44:20	4	5EB 3I N	v/ 4
E:cd0.4	MA 280-2d766414-RR		280-2d7664		4412712047 4d:22	4	5EB 3I N	CMB
E:cdc.2	MA 280-2dd60F14		280-2dd60F		4412412047 22:44	4	5EB 3I N	SU/
E:/ M 2c20A	MA 280-2d7F8716		280-2d7F87		4412d12047 40:c8	4	5EB 3I N	CCJ
E:/ M 2d70C	MA 280-2d766014		280-2d7660		4412712047 2c:48	4	5EB 3I N	CM/
E:/ M 2d70C	MA 280-2d7RFc14		280-2d7RFc		4412612047 4d:4R	4	5EB 3I N	/ hC
E:/ M 2d703	MA 280-2d7FFF1c		280-2d7FFF		4412d12047 47:d6	4	5EB 3I N	MW4
E:/ M dc40A	MA 280-2d7F761d		280-2d7F76		4412712047 4F:02	4	5EB 3I N	CCJ
E:/ M dc40A	MA 280-2d7F761cF		280-2d7F76		4412d12047 04:dc	4	5EB 3I N	CCJ

Client: Waste Management Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: LCU **Client ID: N/A**

/ am9le 3 ate15ime: N1E SepeiDeT 3 ate15ime: N1E

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	BC/ 780-246R201F		780-246R20		4210c12047 42:cd	4	5EB AL P	G5G
E:8260C	BC/ 780-246R201F		780-246R20		4210c12047 42:cd	4	5EB AL P	G5G
v :d0c0C	BC/ 780-24F40617		780-24F406		4210c12047 22:7c	4	5EB AL P	I 3A
E:8260C	BC/ 780-24F40617		780-24F406		4210c12047 22:7c	4	5EB AL P	I 3A
v :d0c0C	BC/ 780-24dR2F1d		780-24dR2F		4412d12047 4d:46	4	5EB AL P	C3C
E:8260C / KM	BC/ 780-24dR2F1d		780-24dR2F		4412d12047 4d:46	4	5EB AL P	C3C
v :c00dE	BC/ 280-2d77c612-E		280-2dF04R	280-2d77c6	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6040A	BC/ 280-2d77c612-E		280-2dF04R	280-2d77c6	4214c12047 0d:02	4	5EB 3I N	/ J/
v :c00dE	BC/ 280-2d774712-E		280-2dF020	280-2d7747	4412712047 42:7d	4	5EB 3I N	CGG
E:6040A	BC/ 280-2d774712-E		280-2dF020	280-2d7747	4214c12047 08:4R	4	5EB 3I N	/ J/
v :c00dE	BC/ 280-2d776R12-E		280-2d7Fc4	280-2d776R	4412712047 42:7d	4	5EB 3I N	CGG
E:6020	BC/ 280-2d776R12-E		280-2d7Fc4	280-2d776R	4412d12047 0c:74	4	5EB 3I N	JM
v :c00dE	BC/ 280-2d776812-E		280-2d7Fc4	280-2d7768	4412712047 42:7d	4	5EB 3I N	CGG
E:6020	BC/ 280-2d776812-E		280-2d7Fc4	280-2d7768	4412d12047 0d:40	4	5EB 3I N	JM
v :c00dE	BC/ 280-2d772812-E		280-2dd0d8	280-2d7728	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6020	BC/ 280-2d772812-E		280-2dd0d8	280-2d7728	4412612047 02:dd	4	5EB 3I N	BM5
v :c00dE	BC/ 280-2d772812-E		280-2dd46F	280-2d7728	4412d12047 0F:4d	4	5EB 3I N	CGG
E:6020	BC/ 280-2d772812-E		280-2dd46F	280-2d7728	4412812047 46:24	4	5EB 3I N	BM5
E:c00.0	BC/ 280-2dd07d17		280-2dd07d		4412F12047 40:7R	4	5EB 3I N	v/ 4
E:cd0.4	BC/ 280-2d766414RF		280-2d7664		4412712047 4d:48	4	5EB 3I N	CMB
E:/ M 2c20A	BC/ 280-2d7F8717		280-2d7F87		4412d12047 40:28	4	5EB 3I N	CCJ
E:/ M 2d70C	BC/ 280-2d766012		280-2d7660		4412712047 2c:48	4	5EB 3I N	CM/
E:/ M 2d70C	BC/ 280-2d7RFc12		280-2d7RFc		4412612047 4d:4R	4	5EB 3I N	/ hC
E:/ M 2d703	BC/ 280-2d7FFF14		280-2d7FFF		4412d12047 47:d6	4	5EB 3I N	MW4
E:/ M dc40A	BC/ 280-2d7F761c		280-2d7F76		4412712047 46:22	4	5EB 3I N	CCJ
E:/ M dc40A	BC/ 280-2d7F761cd		280-2d7F76		4412d12047 04:20	4	5EB 3I N	CCJ

Lab ID: LCUD **Client ID: N/A**

/ am9le 3 ate15ime: N1E SepeiDeT 3 ate15ime: N1E

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	BC/ 3 780-24dR2F16		780-24dR2F		4412d12047 4d:70	4	5EB AL P	C3C
E:8260C / KM	BC/ 3 780-24dR2F16		780-24dR2F		4412d12047 4d:70	4	5EB AL P	C3C
E:c00.0	BC/ 3 280-2dd07d1d		280-2dd07d		4412F12047 44:0d	4	5EB 3I N	v/ 4
E:cd0.4	BC/ 3 280-2d766414R8		280-2d7664		4412712047 4d:20	4	5EB 3I N	CMB
E:/ M 2c20A	BC/ 3 280-2d7F871d		280-2d7F87		4412d12047 40:c7	4	5EB 3I N	CCJ
E:/ M 2d70C	BC/ 3 280-2d76601c		280-2d7660		4412712047 2c:48	4	5EB 3I N	CM/
E:/ M 2d70C	BC/ 3 280-2d7RFc1c		280-2d7RFc		4412612047 4d:4R	4	5EB 3I N	/ hC
E:/ M 2d703	BC/ 3 280-2d7FFF12		280-2d7FFF		4412d12047 47:d6	4	5EB 3I N	MW4
E:/ M dc40A	BC/ 3 280-2d7F7617		280-2d7F76		4412712047 46:70	4	5EB 3I N	CCJ
E:/ M dc40A	BC/ 3 280-2d7F761c6		280-2d7F76		4412d12047 04:cF	4	5EB 3I N	CCJ

Client: Waste Management

Job Number: 280-62847-4

Laboratory Chronicle

Lab ID: **MRL** **Client ID:** **N/A**

/ am9le 3 ate15ime: N1E SepeiDeT 3 ate15ime: N1E

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:c00.0	MSB 280-2dd07d1c		280-2dd07d		4412F12047 40:c7	4	5EB 3 I N	v / 4

Lab ID: **MU** **Client ID:** **N/A**

/ am9le 3 ate15ime: 441201 2047 4d:c0 SepeiDeT 3 ate15ime: 441271 2047 40:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	780-F48Fc-C-4 M/		780-246R20		4210c12047 20:24	400	5EB AL P	G5G
E:8260C	780-F48Fc-C-4 M/		780-246R20		4210c12047 20:24	400	5EB AL P	G5G
v :d0c0C	780-F4FRc-J-4 M/		780-24F406		421071 2047 06:dF	d	5EB AL P	I 3 A
E:8260C	780-F4FRc-J-4 M/		780-24F406		421071 2047 06:dF	d	5EB AL P	I 3 A
E:cd0.4	280-62808-A-c M/		280-2d7664		441271 2047 4d:70	4	5EB 3 I N	CMB
E:/ M dc40A	280-6284c-I -2 M/		280-2d7F76		441271 2047 22:00	4	5EB 3 I N	CCJ
E:/ M dc40A	280-628cc-3 -c M/		280-2d7F76		4412d1 2047 0c:cc	4	5EB 3 I N	CCJ

Lab ID: **MUD** **Client ID:** **N/A**

/ am9le 3 ate15ime: 441201 2047 4d:c0 SepeiDeT 3 ate15ime: 441271 2047 40:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
v :d0c0C	780-F48Fc-C-4 M/ 3		780-246R20		4210c12047 20:77	400	5EB AL P	G5G
E:8260C	780-F48Fc-C-4 M/ 3		780-246R20		4210c12047 20:77	400	5EB AL P	G5G
v :d0c0C	780-F4FRc-J-4 M/ 3		780-24F406		421071 2047 0F:4R	d	5EB AL P	I 3 A
E:8260C	780-F4FRc-J-4 M/ 3		780-24F406		421071 2047 0F:4R	d	5EB AL P	I 3 A
E:cd0.4	280-62808-A-c M/ 3		280-2d7664		441271 2047 4d:72	4	5EB 3 I N	CMB
E:/ M dc40A	280-6284c-I -2 M/ 3		280-2d7F76		441271 2047 22:4F	4	5EB 3 I N	CCJ
E:/ M dc40A	280-628cc-3 -c M/ 3		280-2d7F76		4412d1 2047 0c:d0	4	5EB 3 I N	CCJ

Lab ID: **D7** **Client ID:** **N/A**

/ am9le 3 ate15ime: 4414R12047 40:26 SepeiDeT 3 ate15ime: 441241 2047 40:70

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
E:/ M 2c20A	280-6288F-E-4c 3 L		280-2d7F87		4412d1 2047 40:dc	4	5EB 3 I N	CCJ
E:/ M 2d703	280-62807-C-4 3 L		280-2d7FFF		4412d1 2047 47:d6	4	5EB 3 I N	MW4

Lab References:

5EB AL P V 5estEmeripa Auffalo

5EB 3 I N V 5estEmeripa 3 enDer

1,9, 3.5, 3.6 +.05 IRS
Transferdite

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody

280-62814 Chain of Custody

TestAmerica
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Client Information	Sampler: Matt O'Hare	Lab PM: Sara, Betsy A	No: 17318-3224.1
Client Contact: ~~Mr. Charles Luckie~~ Elena Ramirez	Phone: 425-289-5452	E-Mail: betsy.sara@testamericainc.com	Page: Page 1 of 1
Company: Olympic View Transfer Station		Analysis Requested	Job #: 04204027.17
Address: 9300 Southwest Barney White Road	Due Date Requested: Standard		Preservation Codes:
City: Bremerton	TAT Requested (days): Standard		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)
State, Zip: WA, 98312	PO #:		
Phone: 425-289-5454	WO #:		Other:
Email: eramirez@scsengineers.com			
Project Name: WA02|Olympic View Sanitary LF Event Desc: Quarterly GW Appl/II - Mar Jun Sep Dec	Project #: 28002692		
Site: Washington	SSOW#:		

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-4	11/20/14	0939	G	W	Y		X	X	X	X	X	X	X	X	X					11	Short Hold: NO3(cad)
MW-32		1124																		11	Arsenic - Direct sub to ARI
MW-19C		1202																		11	
MW-24		1106																		11	
MW-28I		1012																		11	
MW-20		0910																		11	
DUP-1		0920																		11	
DUP-2		1124					X	X	X		X	X	X	X	X					11	
Trip Blank	–	–	–	–						X										3	

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
Matt O'Hare	11/20/14 1330	SCS		11/21/14 1040	
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:

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-62814-1

Login Number: 62814

List Source: TestAmerica Denver

List Number: 1

Creator: Conquest, Tyler W

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: 280-62814-1

Login Number: 62814
List Number: 2
Creator: Robison, Zachary J

List Source: TestAmerica Buffalo
List Creation: 11/25/14 03:20 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 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-63425-1

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.
Stephanie D Sanders
Project Manager I
12/23/2014 5:39 PM

Designee for
Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/23/2014

cc: Mr. Sam Adlington
Mr. Matt O'Hare
Ms. Elena Ramirez
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: 280-63425-1

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 12/10/2014; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.1 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 LCS/LCSD exhibited RPD data outside control limits for Ammonia Method 350.1. Because the corresponding MS/MSD and the Method Blank sample were within control limits no corrective action was taken.

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 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 a recovery outside control limits for Chemical Oxygen Demand (COD) Method 410.4. 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 continuing calibration verification (CCV) associated with batch 257812 recovered above the upper control limit for low line Sodium. The method blank associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The instrument blank for analytical batch 257812 contained Sodium greater than the reporting limit (RL), and were not reanalyzed because associated method blank was non-detect and the LCS was with in control limits. The data have been qualified and reported.

General Chemistry

In batch 256630 all the dilutions failed to deplete the method-required 2mgO2/L for the following samples: (280-63425-1), LP-LCD (280-63425-1). Only a "less than" result could be calculated from the least dilute preparation.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-63425-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-63425-1	**LP-LCD**					
Specific Conductivity		3597.0			umhos/cm	Field Sampling
Dissolved Oxygen		10.39			mg/L	Field Sampling
eH		117.1			millivolts	Field Sampling
Turbidity		8.06			NTU	Field Sampling
Temperature		10.37			Degrees C	Field Sampling
pH		7.15			SU	Field Sampling
Chloride		660		10	mg/L	300.0
Sulfate		250		10	mg/L	300.0
Ammonia (as N)		5.7		0.060	mg/L	350.1
Chemical Oxygen Demand (COD)		180		20	mg/L	410.4
Alkalinity		800		5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		800		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		2500		10	mg/L	SM 2540C
Total Organic Carbon - Average		63		5.0	mg/L	SM 5310B
Total Recoverable						
Calcium, Total		57		0.040	mg/L	6010B
Iron, Total		0.55		0.060	mg/L	6010B
Magnesium, Total		36		0.050	mg/L	6010B
Manganese, Total		0.81		0.050	mg/L	6010B
Potassium, Total		72		1.0	mg/L	6010B
Sodium, Total		790		1.0	mg/L	6010B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-63425-1

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: 280-63425-1

Method	Analyst	Analyst ID
SW846 6010B	Scott, Samantha J	SJS
EPA Field Sampling	Saraubon, Phakchaya	PS
MCAWW 300.0	Benson, Alex F	AFB
MCAWW 350.1	Lawrence, Caitlyn M	CML
MCAWW 410.4	Shaheen, Scott W	SWS
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 5310B	Jewell, Connie C	CCJ
SM SM5210B	Simons, Nicole A	NAS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-63425-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-63425-1	LP-LCD	Water	12/09/2014 0930	12/10/2014 0950

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-63425-1

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-63425-1
Client Matrix: Water

Date Sampled: 12/09/2014 0930
Date Received: 12/10/2014 0950

6010B Metals (ICP)-Total Recoverable

Analysis Method:	6010B	Analysis Batch:	280-257812	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-256663	Lab File ID:	26g121814.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0217			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Total	57		0.040	0.040
Iron, Total	0.55		0.060	0.060
Magnesium, Total	36		0.050	0.050
Manganese, Total	0.81		0.050	0.050
Potassium, Total	72		1.0	1.0
Sodium, Total	790		1.0	1.0

General Chemistry

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-63425-1 Date Sampled: 12/09/2014 0930
Client Matrix: Water Date Received: 12/10/2014 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	660		mg/L	10	10	10	300.0
Analysis Batch: 280-257136	Analysis Date: 12/15/2014 2223						
Sulfate	250		mg/L	10	10	10	300.0
Analysis Batch: 280-257136	Analysis Date: 12/15/2014 2223						
Ammonia (as N)	5.7		mg/L	0.060	0.060	2.0	350.1
Analysis Batch: 280-256977	Analysis Date: 12/12/2014 1413						
Chemical Oxygen Demand (COD)	180		mg/L	20	20	2.0	410.4
Analysis Batch: 280-256774	Analysis Date: 12/11/2014 1430						
Alkalinity	800		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-256799	Analysis Date: 12/11/2014 1131						
Bicarbonate Alkalinity as CaCO3	800		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-256799	Analysis Date: 12/11/2014 1131						
Total Dissolved Solids (TDS)	2500		mg/L	10	10	1.0	SM 2540C
Analysis Batch: 280-256626	Analysis Date: 12/10/2014 1454						
Total Organic Carbon - Average	63		mg/L	5.0	5.0	5.0	SM 5310B
Analysis Batch: 280-256888	Analysis Date: 12/11/2014 2010						
Biochemical Oxygen Demand	ND		mg/L	10	10	5.0	SM5210B
Analysis Batch: 280-256630	Analysis Date: 12/10/2014 1540						

Field Service / Mobile Lab

Client Sample ID: **LP-LCD**

Lab Sample ID: 280-63425-1 Date Sampled: 12/09/2014 0930
Client Matrix: Water Date Received: 12/10/2014 0950

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Specific Conductivity	3597.0		umhos/cm	1.0	Field Sampling	280-256683	12/09/2014 1030
Dissolved Oxygen	10.39		mg/L	1.0	Field Sampling	280-256683	12/09/2014 1030
eH	117.1		millivolts	1.0	Field Sampling	280-256683	12/09/2014 1030
Turbidity	8.06		NTU	1.0	Field Sampling	280-256683	12/09/2014 1030
Temperature	10.37		Degrees C	1.0	Field Sampling	280-256683	12/09/2014 1030
pH	7.15		SU	1.0	Field Sampling	280-256683	12/09/2014 1030

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-63425-1

Lab Section	Qualifier	Description
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
General Chemistry		
	F1	MS and/or MSD Recovery exceeds the control limits
	*	RPD of the LCS and LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-63425-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-256663					
LCS 280-256663/2-A	Lab Control Sample	R	Water	3005A	
MB 280-256663/1-A	Method Blank	R	Water	3005A	
280-63425-1	LP-LCD	R	Water	3005A	
280-63425-1MS	Matrix Spike	R	Water	3005A	
280-63425-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-257812					
LCS 280-256663/2-A	Lab Control Sample	R	Water	6010B	280-256663
MB 280-256663/1-A	Method Blank	R	Water	6010B	280-256663
280-63425-1	LP-LCD	R	Water	6010B	280-256663
280-63425-1MS	Matrix Spike	R	Water	6010B	280-256663
280-63425-1MSD	Matrix Spike Duplicate	R	Water	6010B	280-256663

Report Basis

R = Total Recoverable

Field Service / Mobile Lab					
Analysis Batch:280-256683					
280-63425-1	LP-LCD	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-63425-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-256626					
LCS 280-256626/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-256626/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-256626/1	Method Blank	T	Water	SM 2540C	
280-63397-A-2 DU	Duplicate	T	Water	SM 2540C	
280-63425-1	LP-LCD	T	Water	SM 2540C	
Analysis Batch:280-256630					
LCS 280-256630/3	Lab Control Sample	T	Water	SM5210B	
LCSD 280-256630/5	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-256630/6	Method Blank	T	Water	SM5210B	
280-63379-A-10 DU	Duplicate	T	Water	SM5210B	
280-63425-1	LP-LCD	T	Water	SM5210B	
Analysis Batch:280-256774					
LCS 280-256774/3	Lab Control Sample	T	Water	410.4	
LCSD 280-256774/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-256774/5	Method Blank	T	Water	410.4	
280-63146-B-1 MS	Matrix Spike	T	Water	410.4	
280-63146-B-1 MSD	Matrix Spike Duplicate	T	Water	410.4	
280-63425-1	LP-LCD	T	Water	410.4	
Analysis Batch:280-256799					
LCS 280-256799/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-256799/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-256799/6	Method Blank	T	Water	SM 2320B	
280-63425-1	LP-LCD	T	Water	SM 2320B	
280-63464-D-1 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-256887					
LCS 280-256887/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-256887/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-256887/5	Method Blank	T	Water	SM 5310B	
280-63425-1	LP-LCD	T	Water	SM 5310B	
280-63425-1MS	Matrix Spike	T	Water	SM 5310B	
280-63425-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-256888					
LCS 280-256888/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-256888/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-256888/5	Method Blank	T	Water	SM 5310B	
280-63392-E-1 MS	Matrix Spike		Water	SM 5310B	
280-63392-E-1 MSD	Matrix Spike Duplicate		Water	SM 5310B	
280-63425-1	LP-LCD	T	Water	SM 5310B	
280-63425-1MS	Matrix Spike	T	Water	SM 5310B	
280-63425-1MSD	Matrix Spike Duplicate	T	Water	SM 5310B	

Client: Waste Management

Job Number: 280-63425-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-256977					
LCS 280-256977/106	Lab Control Sample	T	Water	350.1	
LCS 280-256977/19	Lab Control Sample	T	Water	350.1	
LCSD 280-256977/107	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-256977/166	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-256977/20	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-256977/108	Method Blank	T	Water	350.1	
MB 280-256977/21	Method Blank	T	Water	350.1	
280-63423-B-5 MS	Matrix Spike	T	Water	350.1	
280-63423-B-5 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-63425-1	LP-LCD	T	Water	350.1	
280-63517-B-4 MS	Matrix Spike	T	Water	350.1	
280-63517-B-4 MSD	Matrix Spike Duplicate	T	Water	350.1	
Analysis Batch:280-257136					
LCS 280-257136/4	Lab Control Sample	T	Water	300.0	
LCSD 280-257136/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-257136/6	Method Blank	T	Water	300.0	
280-63423-A-3 DU	Duplicate	T	Water	300.0	
280-63423-A-3 MS	Matrix Spike	T	Water	300.0	
280-63423-A-3 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-63425-1	LP-LCD	T	Water	300.0	
Analysis Batch:280-257412					
LCS 280-257412/19	Lab Control Sample	T	Water	350.1	
LCSD 280-257412/20	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-257412/21	Method Blank	T	Water	350.1	
280-63425-1	LP-LCD	T	Water	350.1	
280-63484-E-2 MS	Matrix Spike	T	Water	350.1	
280-63484-E-2 MSD	Matrix Spike Duplicate	T	Water	350.1	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256663

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-256663/1-A	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256663	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0146	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Total	ND		0.040	0.040
Iron, Total	ND		0.060	0.060
Magnesium, Total	ND		0.050	0.050
Manganese, Total	ND		0.050	0.050
Potassium, Total	ND		1.0	1.0
Sodium, Total	ND	^	1.0	1.0

Lab Control Sample - Batch: 280-256663

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-256663/2-A	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256663	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0148	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Total	50.0	45.9	92	90 - 111	
Iron, Total	1.00	0.922	92	89 - 115	
Magnesium, Total	50.0	49.1	98	90 - 113	
Manganese, Total	0.500	0.518	104	90 - 110	
Potassium, Total	50.0	50.7	101	89 - 114	
Sodium, Total	50.0	50.0	100	90 - 115	

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256663

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-63425-1	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256663	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0223			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63425-1	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256663	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0226			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Total	90	91	48 - 153	1	20		
Iron, Total	110	109	52 - 155	1	20		
Magnesium, Total	95	96	62 - 146	1	20		
Manganese, Total	101	102	79 - 121	0	20		
Potassium, Total	99	101	76 - 132	1	20		
Sodium, Total	65	76	70 - 203	1	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256663

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-63425-1	Units:	mg/L	MSD Lab Sample ID:	280-63425-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2014 0223			Analysis Date:	12/19/2014 0226
Prep Date:	12/11/2014 0930			Prep Date:	12/11/2014 0930
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	57	50.0	50.0	102		103	
Iron, Total	0.55	1.00	1.00	1.64		1.63	
Magnesium, Total	36	50.0	50.0	83.5		84.0	
Manganese, Total	0.81	0.500	0.500	1.31		1.32	
Potassium, Total	72	50.0	50.0	121		122	
Sodium, Total	790	50.0	50.0	824	4	830	4

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-257136

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-257136/6	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1618	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: 280-257136

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-257136/3	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1532	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	97	50 - 150	
Sulfate	2.50	ND	110	50 - 150	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-257136

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-257136/4	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1547	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257136/5	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1603	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	100	100	90 - 110	0	10		
Sulfate	102	102	90 - 110	0	10		

Client: Waste Management

Job Number: 280-63425-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-257136

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-257136/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257136/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2014 1547			Analysis Date:	12/15/2014 1603
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	99.8
Sulfate	100	100	102	102

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-257136

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-63423-A-3 MS	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 2035			Final Weight/Volume:	5 mL
Prep Date:	N/A				5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-63423-A-3 MSD	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 2050			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	97	99	80 - 120	1	20		
Sulfate	99	101	80 - 120	1	20		

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-257136

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-63423-A-3 MS	Units: mg/L	MSD Lab Sample ID:	280-63423-A-3 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/15/2014 2035		Analysis Date:	12/15/2014 2050	
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	22	25.0	25.0	46.7	47.1
Sulfate	3.6	25.0	25.0	28.4	28.8

Duplicate - Batch: 280-257136

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-63423-A-3 DU	Analysis Batch:	280-257136	Instrument ID:	WC_IonChrom10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Info 2_DENPC179_Anions
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 2019	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	22	22.5	0.08	15	
Sulfate	3.6	3.59	0.5	15	

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256977

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-256977/21	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 0946	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Method Blank - Batch: 280-256977

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-256977/108	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1240	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Client: Waste Management

Job Number: 280-63425-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256977/19	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 0942	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256977/20	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 0944	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	103	90 - 110	2	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256977/106	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1236	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256977/107	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1238	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	90	90 - 110	13	10		*

Client: Waste Management

Job Number: 280-63425-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256977/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256977/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 0942			Analysis Date:	12/12/2014 0944
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	2.53	2.58

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256977/106	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256977/107
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 1236			Analysis Date:	12/12/2014 1238
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	2.56	2.25 *

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63423-B-5 MS	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1026			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63423-B-5 MSD	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1028			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)	102	102	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63517-B-4 MS	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1322			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63517-B-4 MSD	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1324			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	108	90 - 110	2	10		

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63423-B-5 MS	Units: mg/L	MSD Lab Sample ID:	280-63423-B-5 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2014 1026		Analysis Date:	12/12/2014 1028	
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)	0.038	1.00	1.00	1.06	1.05

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256977

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63517-B-4 MS	Units: mg/L	MSD Lab Sample ID:	280-63517-B-4 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/12/2014 1322		Analysis Date:	12/12/2014 1324	
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	1.08

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-257412

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-257412/21	Analysis Batch:	280-257412	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121614.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/16/2014 1134	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-257412

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-257412/19	Analysis Batch:	280-257412	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121614.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/16/2014 1130	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257412/20	Analysis Batch:	280-257412	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121614.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/16/2014 1132	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)	98	91	90 - 110	7	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-257412

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-257412/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257412/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/16/2014 1130			Analysis Date:	12/16/2014 1132
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	2.44	2.29

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-257412

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63484-E-2 MS	Analysis Batch:	280-257412	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121614.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/16/2014 1138			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63484-E-2 MSD	Analysis Batch:	280-257412	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121614.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/16/2014 1140			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)	101	102	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-257412

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-63484-E-2 MS	Units:	mg/L	MSD Lab Sample ID:	280-63484-E-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/16/2014 1138			Analysis Date:	12/16/2014 1140
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)	2.1	1.00	1.00	3.08	3.09

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256774

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-256774/5	Analysis Batch:	280-256774	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	12/11/2014 1430	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: 280-256774

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256774/3	Analysis Batch:	280-256774	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2014 1430	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256774/4	Analysis Batch:	280-256774	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2014 1430	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	96	90 - 110	1	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256774

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256774/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256774/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1430			Analysis Date:	12/11/2014 1430
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	97.8	96.5

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256774

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-63146-B-1 MS	Analysis Batch:	280-256774	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2014 1430			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63146-B-1 MSD	Analysis Batch:	280-256774	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/11/2014 1430			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)	81	80	90 - 110	0	11	F1	F1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256774

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-63146-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-63146-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1430			Analysis Date:	12/11/2014 1430
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)	140	50.0	50.0	178	F1	177	F1

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256799

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-256799/6	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1056	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/
Lab Control Sample Duplicate Recovery Report - Batch: 280-256799

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256799/4	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1047	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256799/5	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1053	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity	97	97	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256799

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256799/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256799/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1047			Analysis Date:	12/11/2014 1053
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity	200	200	195	193

Client: Waste Management

Job Number: 280-63425-1

Duplicate - Batch: 280-256799

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-63464-D-1 DU	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1106	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity	380	379	0.9	10	

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256626

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-256626/1	Analysis Batch:	280-256626	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:	12/10/2014 1454	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Dissolved Solids (TDS)	ND		5.0	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-256626

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256626/2	Analysis Batch:	280-256626	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:	12/10/2014 1454	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256626/3	Analysis Batch:	280-256626	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:	12/10/2014 1454	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	99	86 - 110	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256626

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256626/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256626/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2014 1454			Analysis Date:	12/10/2014 1454
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	498	497

Client: Waste Management

Job Number: 280-63425-1

Duplicate - Batch: 280-256626

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-63397-A-2 DU	Analysis Batch:	280-256626	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:	12/10/2014 1454	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)	440	435	0.9	10	

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256888

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-256888/5	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1547	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: 280-256888

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256888/3	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1514	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256888/4	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1531	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	96	97	88 - 112	1	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256888

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256888/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256888/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1514			Analysis Date:	12/11/2014 1531
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.1	24.2

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256888

Method: SM 5310B

MS Lab Sample ID:	280-63392-E-1 MS	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1655			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63392-E-1 MSD	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1711			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	100	101	88 - 112	1	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256888

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-63425-1	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 2026			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63425-1	Analysis Batch:	280-256888	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.txt
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 2044			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	97	96	88 - 112	0	15		

Client: Waste Management

Job Number: 280-63425-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256888

Method: SM 5310B

MS Lab Sample ID:	280-63392-E-1 MS	Units: mg/L	MSD Lab Sample ID:	280-63392-E-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/11/2014 1655		Analysis Date:	12/11/2014 1711	
Prep Date:	N/A		Prep Date:	N/A	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	ND	25.0	25.0	25.0	25.2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-256888

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-63425-1	Units: mg/L	MSD Lab Sample ID:	280-63425-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	5.0		Dilution:	5.0	
Analysis Date:	12/11/2014 2026		Analysis Date:	12/11/2014 2044	
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	63	125	125	184	184

Client: Waste Management

Job Number: 280-63425-1

Method Blank - Batch: 280-256630

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-256630/6	Analysis Batch:	280-256630	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:	12/10/2014 1540	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: 280-256630

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256630/3	Analysis Batch:	280-256630	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:	12/10/2014 1540	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256630/5	Analysis Batch:	280-256630	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:	12/10/2014 1540	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	96	96	85 - 115	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-256630

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-256630/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256630/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/10/2014 1540			Analysis Date:	12/10/2014 1540
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	190	191

Client: Waste Management

Job Number: 280-63425-1

Duplicate - Batch: 280-256630

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-63379-A-10 DU	Analysis Batch:	280-256630	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:	12/10/2014 0835	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: 280-63425-1

Laboratory Chronicle

Lab ID: 280-63425-1 **Client ID: LP-LCD**

Sample Date/Time: 12/09/2014 09:30 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-63425-E-1-A		280-257812	280-256663	12/11/2014 09:30	1	TAL DEN	CGG
A:6010B	280-63425-E-1-A		280-257812	280-256663	12/19/2014 02:17	1	TAL DEN	SJS
A:300.0	280-63425-A-1		280-257136		12/15/2014 22:23	10	TAL DEN	AFB
A:350.1	280-63425-C-1		280-256977		12/12/2014 14:13	2	TAL DEN	CML
A:410.4	280-63425-C-1		280-256774		12/11/2014 14:30	2	TAL DEN	SWS
A:SM 2320B	280-63425-A-1		280-256799		12/11/2014 11:31	1	TAL DEN	CCJ
A:SM 2540C	280-63425-A-1		280-256626		12/10/2014 14:54	1	TAL DEN	SVC
A:SM 5310B	280-63425-D-1		280-256888		12/11/2014 20:10	5	TAL DEN	CCJ
A:SM5210B	280-63425-B-1		280-256630		12/10/2014 15:40	5	TAL DEN	NAS
A:Field Sampling	280-63425-A-1		280-256683		12/09/2014 10:30	1	TAL DEN	PS

Lab ID: 280-63425-1 MS **Client ID: LP-LCD**

Sample Date/Time: 12/09/2014 09:30 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-63425-E-1-B MS		280-257812	280-256663	12/11/2014 09:30	1	TAL DEN	CGG
A:6010B	280-63425-E-1-B MS		280-257812	280-256663	12/19/2014 02:23	1	TAL DEN	SJS
A:SM 5310B	280-63425-D-1 MS		280-256888		12/11/2014 20:26	5	TAL DEN	CCJ

Lab ID: 280-63425-1 MSD **Client ID: LP-LCD**

Sample Date/Time: 12/09/2014 09:30 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-63425-E-1-C MSD		280-257812	280-256663	12/11/2014 09:30	1	TAL DEN	CGG
A:6010B	280-63425-E-1-C MSD		280-257812	280-256663	12/19/2014 02:26	1	TAL DEN	SJS
A:SM 5310B	280-63425-D-1 MSD		280-256888		12/11/2014 20:44	5	TAL DEN	CCJ

Client: Waste Management Job Number: 280-63425-1

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 280-256663/1-A		280-257812	280-256663	12/11/2014 09:30	1	TAL DEN	CGG
A:6010B	MB 280-256663/1-A		280-257812	280-256663	12/19/2014 01:46	1	TAL DEN	SJS
A:300.0	MB 280-257136/6		280-257136		12/15/2014 16:18	1	TAL DEN	AFB
A:350.1	MB 280-256977/21		280-256977		12/12/2014 09:46	1	TAL DEN	CML
A:350.1	MB 280-256977/108		280-256977		12/12/2014 12:40	1	TAL DEN	CML
A:350.1	MB 280-257412/21		280-257412		12/16/2014 11:34	1	TAL DEN	CML
A:410.4	MB 280-256774/5		280-256774		12/11/2014 14:30	1	TAL DEN	SWS
A:SM 2320B	MB 280-256799/6		280-256799		12/11/2014 10:56	1	TAL DEN	CCJ
A:SM 2540C	MB 280-256626/1		280-256626		12/10/2014 14:54	1	TAL DEN	SVC
A:SM 5310B	MB 280-256888/5		280-256888		12/11/2014 15:47	1	TAL DEN	CCJ
A:SM5210B	MB 280-256630/6		280-256630		12/10/2014 15:40	1	TAL DEN	NAS

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 280-256663/2-A		280-257812	280-256663	12/11/2014 09:30	1	TAL DEN	CGG
A:6010B	LCS 280-256663/2-A		280-257812	280-256663	12/19/2014 01:48	1	TAL DEN	SJS
A:300.0	LCS 280-257136/4		280-257136		12/15/2014 15:47	1	TAL DEN	AFB
A:350.1	LCS 280-256977/19		280-256977		12/12/2014 09:42	1	TAL DEN	CML
A:350.1	LCS 280-256977/106		280-256977		12/12/2014 12:36	1	TAL DEN	CML
A:350.1	LCS 280-257412/19		280-257412		12/16/2014 11:30	1	TAL DEN	CML
A:410.4	LCS 280-256774/3		280-256774		12/11/2014 14:30	1	TAL DEN	SWS
A:SM 2320B	LCS 280-256799/4		280-256799		12/11/2014 10:47	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-256626/2		280-256626		12/10/2014 14:54	1	TAL DEN	SVC
A:SM 5310B	LCS 280-256888/3		280-256888		12/11/2014 15:14	1	TAL DEN	CCJ
A:SM5210B	LCS 280-256630/3		280-256630		12/10/2014 15:40	1	TAL DEN	NAS

Client: Waste Management Job Number: 280-63425-1

Laboratory Chronicle

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	LCSD 280-257136/5		280-257136		12/15/2014 16:03	1	TAL DEN	AFB
A:350.1	LCSD 280-256977/20		280-256977		12/12/2014 09:44	1	TAL DEN	CML
A:350.1	LCSD 280-256977/107		280-256977		12/12/2014 12:38	1	TAL DEN	CML
A:350.1	LCSD 280-256977/166		280-256977		12/12/2014 14:49	1	TAL DEN	CML
A:350.1	LCSD 280-257412/20		280-257412		12/16/2014 11:32	1	TAL DEN	CML
A:410.4	LCSD 280-256774/4		280-256774		12/11/2014 14:30	1	TAL DEN	SWS
A:SM 2320B	LCSD 280-256799/5		280-256799		12/11/2014 10:53	1	TAL DEN	CCJ
A:SM 2540C	LCSD 280-256626/3		280-256626		12/10/2014 14:54	1	TAL DEN	SVC
A:SM 5310B	LCSD 280-256888/4		280-256888		12/11/2014 15:31	1	TAL DEN	CCJ
A:SM5210B	LCSD 280-256630/5		280-256630		12/10/2014 15:40	1	TAL DEN	NAS

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 280-257136/3		280-257136		12/15/2014 15:32	1	TAL DEN	AFB

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 12/09/2014 10:03 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-63423-A-3 MS		280-257136		12/15/2014 20:35	1	TAL DEN	AFB
A:350.1	280-63423-B-5 MS		280-256977		12/12/2014 10:26	1	TAL DEN	CML
A:350.1	280-63517-B-4 MS		280-256977		12/12/2014 13:22	1	TAL DEN	CML
A:350.1	280-63484-E-2 MS		280-257412		12/16/2014 11:38	1	TAL DEN	CML
A:410.4	280-63146-B-1 MS		280-256774		12/11/2014 14:30	1	TAL DEN	SWS
A:SM 5310B	280-63392-E-1 MS		280-256888		12/11/2014 16:55	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 12/09/2014 10:03 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-63423-A-3 MSD		280-257136		12/15/2014 20:50	1	TAL DEN	AFB
A:350.1	280-63423-B-5 MSD		280-256977		12/12/2014 10:28	1	TAL DEN	CML
A:350.1	280-63517-B-4 MSD		280-256977		12/12/2014 13:24	1	TAL DEN	CML
A:350.1	280-63484-E-2 MSD		280-257412		12/16/2014 11:40	1	TAL DEN	CML
A:410.4	280-63146-B-1 MSD		280-256774		12/11/2014 14:30	1	TAL DEN	SWS
A:SM 5310B	280-63392-E-1 MSD		280-256888		12/11/2014 17:11	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-63425-1

Laboratory Chronicle

Lab ID: DU **Client ID:** N/A

Sample Date/Time: 12/09/2014 10:03 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-63423-A-3 DU		280-257136		12/15/2014 20:19	1	TAL DEN	AFB
A:SM 2320B	280-63464-D-1 DU		280-256799		12/11/2014 11:06	1	TAL DEN	CCJ
A:SM 2540C	280-63397-A-2 DU		280-256626		12/10/2014 14:54	1	TAL DEN	SVC
A:SM5210B	280-63379-A-10 DU		280-256630		12/10/2014 08:35	1	TAL DEN	NAS

Lab References:
TAL DEN = TestAmerica Denver

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

0.C+0.5 IR-5
Transfer by TCC
12/10/14

Chain of Cust

280-63425 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bradley Beach	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-17323-8080.1
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: 303-914-1434(Tel)	PO #: Purchase Order not required			
Email: cluckie@wm.com	WO #:			
Project Name:WA02|Olympic View Sanitary LF Event Desc: Quarterly Leachate AppII - Mar Jun Sep D	Project #: 28002692			
Site: Washington	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	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	Total Metals	Ammonia/TOC/COD	BOD	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	S	N		
20141209-LPLCD-Q4	12/9/14	0930	G	W			X	X	X	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: 12/9/14 0930	Company SGS-FS	Received by:	Date/Time: 12/10/14 950	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: Δ Yes Δ No	Custody Seal No.: 213429	Cooler Temperature(s) °C and Other Remarks:

12/23/2014

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: SO3702 Sample Point: LP-LCD (Sample ID)

20141209-LPLCD-Q4

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

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
12/09/14	0930				

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: F

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

X-Other: _____

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

WELL DATA

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

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

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

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	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: Units Time
12/09/14	7.15	3597	10.37	8.06	10.39	117.1	0930

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: 10 S Outlook: Wind / 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
12/9/14	Bradley Beach	[signature]	SCS-FS
___/___/___			

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

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-63425-1

Login Number: 63425

List Source: TestAmerica Denver

List Number: 1

Creator: Orfield, Tayler C

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	REFER TO CUR
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Job Number: 280-63441-1

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
12/10/2014 12:30 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/10/2014

cc: Mr. Sam Adlington
Mr. Charles Luckie
Mr. Matt O'Hare
Ms. Elena Ramirez
Mr. Dan Venchiarutti

The Lab Certification ID# is 4025.

Table of Contents

Analytical Resources, Incorporated
Analytical Chemists and Consultants

5 December 2014

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

RE: Project: OVSL
ARI Job Nos.: ZM18, ZM19

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-three water samples on November 24, 2014. The samples were received in good condition. 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: files ZM18, ZM19

MDH/mdh

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: ZM18	Turn-around Requested: Standard	Date: 11/21/14	
ARI Client Company: SCS Engineers	Phone: 425-746-4600	Page. 1 of 3	
Client Contact: Elena Ramirez		No. of Coolers: 2	Cooler Temps: 7.6, 7.8
Client Project Name: OVSL 4Q14 GW Sampling			
Client Project #:04204027 17	Samplers Matt O'Hare		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested: Low level Dissolved Arsenic	Low-level Total Arsenic							Notes/Comments
MW-35	11/17/2014	1250	W	2	X	X							Direct sub from
MW-13A	11/17/2014	1340	W	2	X	X							TestAmerica
MW-13B	11/17/2014	1500	W	2	X	X							
MW-16	11/18/2014	906	W	2	X	X							
MW-39	11/18/2014	1005	W	2	X	X							
MW-23A	11/18/2014	1145	W	2	X	X							
MW-43	11/18/2014	1315	W	2	X	X							
MW-29A	11/18/2014	1402	W	2	X	X							
MW-42	11/18/2014	1455	W	2	X	X							
MW-36A	11/19/2014	1509	W	2	X	X							

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	Printed Name: Matt O'Hare	Printed Name: Rich Hudson	Printed Name	Printed Name
	Company: SCS	Company: ARI	Company	Company
	Date & Time: 11/24/14 1318	Date & Time: 11/24/14 1318	Date & Time	Date & Time

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

ZM18 20000

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: SCS Engineers Project Name: OVSL 4Q14 GW Sampling

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

Assigned ARI Job No: ZM18 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): 7.6 7.8

Time: 1345

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90077952

Cooler Accepted by: _____ Date: 11/24/14 Time: 1310

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

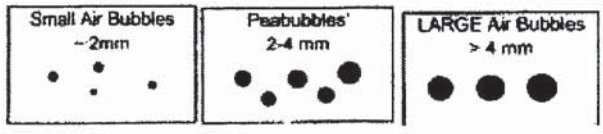
Samples Logged by: JM Date: 11/25/14 Time: 755

***** 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 → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ZM18

Cooler Temperature Compliance Form

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**
All samples associated with this job were received at a temp greater than 6° C.		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by: JM Date: 11/25/14 Time: 801

PRESERVATION VERIFICATION 11/25/14

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **ZM18**

PC: Mark
VTSR: 11/24/14

Inquiry Number: NONE
Analysis Requested: 11/24/14
Contact: Sara, Betsy
Client: Test America
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: 04204027.17
Project: OVSL 4Q14 GW Sampling
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
14-25686 **ZM18A**	MW-35						TOT P															
14-25687 **ZM18B**	MW-13A						TOT P															
14-25688 **ZM18C**	MW-13B						TOT P															
14-25689 **ZM18D**	MW-16						TOT P															
14-25690 **ZM18E**	MW-39						TOT P															
14-25691 **ZM18F**	MW-23A						TOT P															
14-25692 **ZM18G**	MW-43						TOT P															
14-25693 **ZM18H**	MW-29A						TOT P															
14-25694 **ZM18I**	MW-42						TOT P															
14-25695 **ZM18J**	MW-36A						TOT P															
14-25696 **ZM18K**	MW-35						DIS P									Y						
14-25697 **ZM18L**	MW-13A						DIS P									Y						
14-25698 **ZM18M**	MW-13B						DIS P									Y						
14-25699 **ZM18N**	MW-16						DIS P									Y						

P = Pass

Checked By JM Date 11/25/14

PRESERVATION VERIFICATION 11/25/14
Page 2 of 2

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **ZM18**

Client: Test America

Project #: 04204027.17
Project: OVSL 4Q14 GW Sampling

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
14-25700 **ZM18O**	MW-39						DIS									Y						
14-25701 **ZM18P**	MW-23A						DIS									Y						
14-25702 **ZM18Q**	MW-43						DIS									Y						
14-25703 **ZM18R**	MW-29A						DIS									Y						
14-25704 **ZM18S**	MW-42						DIS									Y						
14-25705 **ZM18T**	MW-36A						DIS									Y						

Checked By JM Date 11/25/14

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: ZM18
Client: Test America
Project Event: 04204027.17
Project Name: OVSL 4Q14 GW Sampling

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW-35	ZM18A	14-25686	Water	11/17/14 12:50	11/24/14 13:10
2.	MW-13A	ZM18B	14-25687	Water	11/17/14 13:40	11/24/14 13:10
3.	MW-13B	ZM18C	14-25688	Water	11/17/14 15:00	11/24/14 13:10
4.	MW-16	ZM18D	14-25689	Water	11/18/14 09:06	11/24/14 13:10
5.	MW-39	ZM18E	14-25690	Water	11/18/14 10:05	11/24/14 13:10
6.	MW-23A	ZM18F	14-25691	Water	11/18/14 11:45	11/24/14 13:10
7.	MW-43	ZM18G	14-25692	Water	11/18/14 13:15	11/24/14 13:10
8.	MW-29A	ZM18H	14-25693	Water	11/18/14 14:02	11/24/14 13:10
9.	MW-42	ZM18I	14-25694	Water	11/18/14 14:55	11/24/14 13:10
10.	MW-36A	ZM18J	14-25695	Water	11/19/14 15:09	11/24/14 13:10
11.	MW-35	ZM18K	14-25696	Water	11/17/14 12:50	11/24/14 13:10
12.	MW-13A	ZM18L	14-25697	Water	11/17/14 13:40	11/24/14 13:10
13.	MW-13B	ZM18M	14-25698	Water	11/17/14 15:00	11/24/14 13:10
14.	MW-16	ZM18N	14-25699	Water	11/18/14 09:06	11/24/14 13:10
15.	MW-39	ZM18O	14-25700	Water	11/18/14 10:05	11/24/14 13:10
16.	MW-23A	ZM18P	14-25701	Water	11/18/14 11:45	11/24/14 13:10
17.	MW-43	ZM18Q	14-25702	Water	11/18/14 13:15	11/24/14 13:10
18.	MW-29A	ZM18R	14-25703	Water	11/18/14 14:02	11/24/14 13:10
19.	MW-42	ZM18S	14-25704	Water	11/18/14 14:55	11/24/14 13:10
20.	MW-36A	ZM18T	14-25705	Water	11/19/14 15:09	11/24/14 13:10

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: ZM19	Turn-around Requested: Standard	Date: 11/21/14	
ARI Client Company: SCS Engineers	Phone: 425-746-4600	Page: 2 of 3	
Client Contact: Elena Ramirez		No. of Coolers: 2	Cooler Temps: 7.6, 7.8
Client Project Name: OVSL 4Q14 GW Sampling			
Client Project #: 04204027.17	Samplers: Matt O'Hare		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested: Low level Dissolved Arsenic	Analysis Requested: Low-level Total Arsenic	Notes/Comments
MW-15R	11/19/2014	1422	W	2	X	X	Direct sub from
MW-33C	11/19/2014	1311	W	2	X	X	TestAmerica
MW-33A	11/19/2014	1236	W	2	X	X	
MW-34A	11/19/2014	1045	W	2	X	X	
MW-34C	11/19/2014	1003	W	2	X	X	
MW-2B1	11/20/2014	1012	W	2	X	X	
MW-20	11/20/2014	910	W	2	X	X	
MW-24	11/20/2014	1106	W	2	X	X	
MW-19C	11/20/2014	1202	W	2	X	X	
MW-4	11/20/2014	939	W	2	X	X	

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	Printed Name: MatO'Hare	Printed Name: Rich Hudson	Printed Name	Printed Name
	Company: SCS	Company: ARI	Company	Company
	Date & Time: 11/24/14 1310	Date & Time: 11/24/14 1310	Date & Time	Date & Time

ZM19

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 2M19	Turn-around Requested: Standard	Date: 11/21/14	
ARI Client Company: SCS Engineers	Phone 425-746-4600	Page: 3 of 3	
Client Contact: Elena Ramirez		No. of Coolers: 2	Cooler Temps: 7.6, 7.8
Client Project Name: OVSL 4Q14 GW Sampling			
Client Project #:04204027.17	Samplers.Matt O'Hare		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	Analysis Requested: Low level Dissolved Arsenic	Low-level Total Arsenic							Notes/Comments
MW-32	11/20/2014	1124	W	2	X	X							Direct sub from
DUP-1	11/20/2014	920	W	2	X	X							TestAmerica
DUP-2	11/20/2014	1124	W	2	X	X							

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
	Printed Name: Matt O'Hare	Printed Name: Rich Hudson	Printed Name	Printed Name
	Company: SCS	Company: ARI	Company	Company
	Date & Time: 11/24/14 1310	Date & Time: 11/24/14 1310	Date & Time	Date & Time

Sample Retention Policy: Unless specified by workorder or contract, all water/soil samples submitted to ARI will be discarded or returned, no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer. Sediment samples submitted under PSDDA/PSEP/SMS protocol will be stored frozen for up to one year and then discarded.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: SCS Engineers

Project Name: OVSL 4Q14 GW Sampling

COC No(s). _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: ZM19

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) 7.6 7.9

Time. 1345

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90277952

Cooler Accepted by: _____ Date: 11/24/14 Time: 1310

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

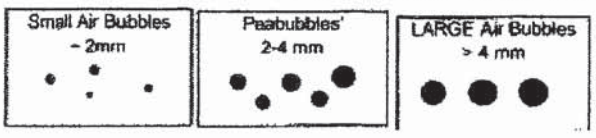
Samples Logged by: JM Date: 11/25/14 Time: 755

***** 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 → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

ZM19

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**
All samples associated with this job were received at a temp greater than 6°C.		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by: JM Date: 11/25/14 Time: 801

PRESERVATION VERIFICATION 11/25/14
Page 1 of 2

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **ZM19**

Inquiry Number: NONE
Analysis Requested: 11/24/14
Contact: Sara, Betsy
Client: Test America
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

PC: Mark
VTSR: 11/24/14

Project #: 04204027.17
Project: OVSL 4Q14 GW Sampling
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
14-25706 **ZM19A**	MW-15R						TOT															
14-25707 **ZM19B**	MW-33C						TOT															
14-25708 **ZM19C**	MW-33A						TOT															
14-25709 **ZM19D**	MW-34A						TOT															
14-25710 **ZM19E**	MW-34C						TOT															
14-25711 **ZM19F**	MW-2B1						TOT															
14-25712 **ZM19G**	MW-20						TOT															
14-25713 **ZM19H**	MW-24						TOT															
14-25714 **ZM19I**	MW-19C						TOT															
14-25715 **ZM19J**	MW-4						TOT															
14-25716 **ZM19K**	MW-32						TOT															
14-25717 **ZM19L**	DUP-1						TOT															
14-25718 **ZM19M**	DUP-2						TOT															
14-25719 **ZM19N**	MW-15R						DIS									Y						

Page 1 of 2

P= Pass

Checked By JM Date 11/25/14

PRESERVATION VERIFICATION 11/25/14
Page 2 of 2

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **ZM19**

Client: Test America

Project #: 04204027.17
Project: OVSL 4Q14 GW Sampling

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
14-25720 **ZM19O**	MW-33C						DIS									Y						
14-25721 **ZM19P**	MW-33A						DIS									Y						
14-25722 **ZM19Q**	MW-34A						DIS									Y						
14-25723 **ZM19R**	MW-34C						DIS									Y						
14-25724 **ZM19S**	MW-2B1						DIS									Y						
14-25725 **ZM19T**	MW-20						DIS									Y						
14-25726 **ZM19U**	MW-24						DIS									Y						
14-25727 **ZM19V**	MW-19C						DIS									Y						
14-25728 **ZM19W**	MW-4						DIS									Y						
14-25729 **ZM19X**	MW-32						DIS									Y						
14-25730 **ZM19Y**	DUP-1						DIS									Y						
14-25731 **ZM19Z**	DUP-2						DIS									Y						

Page 1 of 1

ZM19 . 05053

Checked By JM Date 11/25/14

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: ZM19
Client: Test America
Project Event: 04204027.17
Project Name: OVSL 4Q14 GW Sampling

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW-15R	ZM19A	14-25706	Water	11/19/14 14:22	11/24/14 13:10
2.	MW-33C	ZM19B	14-25707	Water	11/19/14 13:11	11/24/14 13:10
3.	MW-33A	ZM19C	14-25708	Water	11/19/14 12:36	11/24/14 13:10
4.	MW-34A	ZM19D	14-25709	Water	11/19/14 10:45	11/24/14 13:10
5.	MW-34C	ZM19E	14-25710	Water	11/19/14 10:03	11/24/14 13:10
6.	MW-2B1	ZM19F	14-25711	Water	11/20/14 10:12	11/24/14 13:10
7.	MW-20	ZM19G	14-25712	Water	11/20/14 09:10	11/24/14 13:10
8.	MW-24	ZM19H	14-25713	Water	11/20/14 11:06	11/24/14 13:10
9.	MW-19C	ZM19I	14-25714	Water	11/20/14 12:02	11/24/14 13:10
10.	MW-4	ZM19J	14-25715	Water	11/20/14 09:39	11/24/14 13:10
11.	MW-32	ZM19K	14-25716	Water	11/20/14 11:24	11/24/14 13:10
12.	DUP-1	ZM19L	14-25717	Water	11/20/14 09:20	11/24/14 13:10
13.	DUP-2	ZM19M	14-25718	Water	11/20/14 11:24	11/24/14 13:10
14.	MW-15R	ZM19N	14-25719	Water	11/19/14 14:22	11/24/14 13:10
15.	MW-33C	ZM19O	14-25720	Water	11/19/14 13:11	11/24/14 13:10
16.	MW-33A	ZM19P	14-25721	Water	11/19/14 12:36	11/24/14 13:10
17.	MW-34A	ZM19Q	14-25722	Water	11/19/14 10:45	11/24/14 13:10
18.	MW-34C	ZM19R	14-25723	Water	11/19/14 10:03	11/24/14 13:10
19.	MW-2B1	ZM19S	14-25724	Water	11/20/14 10:12	11/24/14 13:10
20.	MW-20	ZM19T	14-25725	Water	11/20/14 09:10	11/24/14 13:10
21.	MW-24	ZM19U	14-25726	Water	11/20/14 11:06	11/24/14 13:10
22.	MW-19C	ZM19V	14-25727	Water	11/20/14 12:02	11/24/14 13:10
23.	MW-4	ZM19W	14-25728	Water	11/20/14 09:39	11/24/14 13:10
24.	MW-32	ZM19X	14-25729	Water	11/20/14 11:24	11/24/14 13:10
25.	DUP-1	ZM19Y	14-25730	Water	11/20/14 09:20	11/24/14 13:10
26.	DUP-2	ZM19Z	14-25731	Water	11/20/14 11:24	11/24/14 13:10

ZM18 · 00016

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
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Sample ID: MW-35
SAMPLE

Lab Sample ID: ZM18A
LIMS ID: 14-25686
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00012**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18 · 00018

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW-35
DUPLICATE

Lab Sample ID: ZM18A
LIMS ID: 14-25686
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.00012	0.00012	0.0%	+/- 0.00004	L

Reported in mg/L

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

ZM18-00019

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-35
MATRIX SPIKE

Lab Sample ID: ZM18A
LIMS ID: 14-25686
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.00012	0.00474	0.00500	92.4%	

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%

ZM18 · 00020

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-13A
SAMPLE

Lab Sample ID: ZM18B
LIMS ID: 14-25687
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00018**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00021

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-13B
SAMPLE

Lab Sample ID: ZM18C
LIMS ID: 14-25688
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00030**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00022

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-16
SAMPLE

Lab Sample ID: ZM18D
LIMS ID: 14-25689
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00035**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00023

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-39
SAMPLE

Lab Sample ID: ZM18E
LIMS ID: 14-25690
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00115**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00024

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-23A
SAMPLE

Lab Sample ID: ZM18F
LIMS ID: 14-25691
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00018**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18 00025

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-43
SAMPLE

Lab Sample ID: ZM18G
LIMS ID: 14-25692
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	7440-38-2	Arsenic	0.00004	0.00004	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00026

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-29A
SAMPLE

Lab Sample ID: ZM18H
LIMS ID: 14-25693
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00190**	

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: ZM18I
LIMS ID: 14-25694
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**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-36A
SAMPLE

Lab Sample ID: ZM18J
LIMS ID: 14-25695
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00053**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00029

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-35
SAMPLE

Lab Sample ID: ZM18K
LIMS ID: 14-25696
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00011**	

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-35
DUPLICATE

Lab Sample ID: ZM18K
LIMS ID: 14-25696
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.00011	0.00011	0.0%	+/- 0.00004	L

Reported in mg/L

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

ZM18:00031

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-35
MATRIX SPIKE

Lab Sample ID: ZM18K
LIMS ID: 14-25696
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.00011	0.00459	0.005	89.6%	

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-13A
SAMPLE

Lab Sample ID: ZM18L
LIMS ID: 14-25697
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00018**	

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

ZM18 · 00033

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-13B
SAMPLE

Lab Sample ID: ZM18M
LIMS ID: 14-25698
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/17/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00029**	

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

ZM18-00034

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-16
SAMPLE

Lab Sample ID: ZM18N
LIMS ID: 14-25699
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00029**	

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-39
SAMPLE

Lab Sample ID: ZM18O
LIMS ID: 14-25700
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00116**	

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

ZM18:00036

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-23A
SAMPLE

Lab Sample ID: ZM18P
LIMS ID: 14-25701
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00009**	

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

ZM18:00037

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-43
SAMPLE

Lab Sample ID: ZM18Q
LIMS ID: 14-25702
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	7440-38-2	Arsenic	0.00004	0.00004	U

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

ZM18:00038

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-29A
SAMPLE

Lab Sample ID: ZM18R
LIMS ID: 14-25703
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00153**	

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-42
SAMPLE

Lab Sample ID: ZM18S
LIMS ID: 14-25704
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/18/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.0001	**0.0016**	

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-36A
SAMPLE

Lab Sample ID: ZM18T
LIMS ID: 14-25705
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	**7440-38-2**	**Arsenic**	0.00004	**0.00051**	

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

ZM18:00041

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**
Page 1 of 1

Lab Sample ID: ZM18MB
LIMS ID: 14-25695
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	7440-38-2	Arsenic	0.00004	0.00004	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18 00042

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: ZM18LCS
LIMS ID: 14-25695
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.00504	0.00500	101%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ZM18:00043

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: METHOD BLANK

Lab Sample ID: ZM18MB
LIMS ID: 14-25705
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/01/14	200.8	12/04/14	7440-38-2	Arsenic	0.00004	0.00004	U

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

ZM18:00044

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: LAB CONTROL**

Lab Sample ID: ZM18LCS
LIMS ID: 14-25705
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM18-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.00513	0.00500	103%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ZM18 · 00045

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-15R
SAMPLE

Lab Sample ID: ZM19A
LIMS ID: 14-25706
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00021**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-15R
DUPLICATE

Lab Sample ID: ZM19A
LIMS ID: 14-25706
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.00021	0.00022	4.7%	+/- 20%	

Reported in mg/L

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

ZM18:00047

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-15R
MATRIX SPIKE

Lab Sample ID: ZM19A
LIMS ID: 14-25706
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.00021	0.00446	0.00500	85.0%	

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-33C
SAMPLE

Lab Sample ID: ZM19B
LIMS ID: 14-25707
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00254**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-33A
SAMPLE

Lab Sample ID: ZM19C
LIMS ID: 14-25708
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00041**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-34A
SAMPLE

Lab Sample ID: ZM19D
LIMS ID: 14-25709
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00051

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: MW-34C
SAMPLE

Lab Sample ID: ZM19E
LIMS ID: 14-25710
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00491**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00052

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-2B1
SAMPLE

Lab Sample ID: ZM19F
LIMS ID: 14-25711
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00034**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18 00053

ANALYTICAL RESOURCES INCORPORATED

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Sample ID: MW-20
SAMPLE

Lab Sample ID: ZM19G
LIMS ID: 14-25712
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00054

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-24
SAMPLE

Lab Sample ID: ZM19H
LIMS ID: 14-25713
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00061**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

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Sample ID: MW-19C
SAMPLE

Lab Sample ID: ZM19I
LIMS ID: 14-25714
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00319**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18 · 00056

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Sample ID: MW-4
SAMPLE

Lab Sample ID: ZM19J
LIMS ID: 14-25715
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00040**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM19:00057

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-32
SAMPLE

Lab Sample ID: ZM19K
LIMS ID: 14-25716
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0092**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM19:00058

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: DUP-1
SAMPLE

Lab Sample ID: ZM19L
LIMS ID: 14-25717
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00059

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: DUP-2**
Page 1 of 1 **SAMPLE**

Lab Sample ID: ZM19M
LIMS ID: 14-25718
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0092**	

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-15R
SAMPLE

Lab Sample ID: ZM19N
LIMS ID: 14-25719
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00020**	

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

ZM18-00061

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-15R
DUPLICATE

Lab Sample ID: ZM19N
LIMS ID: 14-25719
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	0.00020	0.00020	0.0%	+/- 20%	

Reported in mg/L

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

ZM18 00062

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-15R
MATRIX SPIKE

Lab Sample ID: ZM19N
LIMS ID: 14-25719
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	0.00020	0.00468	0.005	89.6%	

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%

ZM19 00063

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-33C
SAMPLE

Lab Sample ID: ZM19O
LIMS ID: 14-25720
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00235**	

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

ZM18:00064

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-33A
SAMPLE

Lab Sample ID: ZM19P
LIMS ID: 14-25721
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00020**	

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

ZM18 · 00065

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-34A
SAMPLE

Lab Sample ID: ZM19Q
LIMS ID: 14-25722
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0004**	

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

ZM18:00065

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-34C
SAMPLE

Lab Sample ID: ZM19R
LIMS ID: 14-25723
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/19/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00114**	

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

ZM18 · 00067

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-2B1
SAMPLE

Lab Sample ID: ZM19S
LIMS ID: 14-25724
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00022**	

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

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INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-20
SAMPLE

Lab Sample ID: ZM19T
LIMS ID: 14-25725
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**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
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Sample ID: MW-24
SAMPLE

Lab Sample ID: ZM19U
LIMS ID: 14-25726
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00022**	

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

ZM18:00070

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-19C
SAMPLE

Lab Sample ID: ZM19V
LIMS ID: 14-25727
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00307**	

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-4
SAMPLE

Lab Sample ID: ZM19W
LIMS ID: 14-25728
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.00004	**0.00040**	

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-32
SAMPLE

Lab Sample ID: ZM19X
LIMS ID: 14-25729
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0092**	

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: DUP-1
SAMPLE

Lab Sample ID: ZM19Y
LIMS ID: 14-25730
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0002**	

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

ZM18:00074

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: DUP-2
SAMPLE

Lab Sample ID: ZM19Z
LIMS ID: 14-25731
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: 11/20/14
Date Received: 11/24/14

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	**7440-38-2**	**Arsenic**	0.0001	**0.0092**	

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

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: ZM19MB
LIMS ID: 14-25718
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/02/14	200.8	12/05/14	7440-38-2	Arsenic	0.00004	0.00004	U

U-Analyte undetected at given LOQ
LOQ-Reporting Limit

ZM18:00076

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: LAB CONTROL

Lab Sample ID: ZM19LCS
LIMS ID: 14-25718
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.00457	0.00500	91.4%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ZM18-00077

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: METHOD BLANK**
Page 1 of 1

Lab Sample ID: ZM19MB
LIMS ID: 14-25731
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/L	Q
200.8	12/04/14	200.8	12/05/14	7440-38-2	Arsenic	0.00004	0.00004	U

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

ZM18:00078

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: LAB CONTROL

Lab Sample ID: ZM19LCS
LIMS ID: 14-25731
Matrix: Water
Data Release Authorized:
Reported: 12/05/14

QC Report No: ZM19-Test America
Project: OVSL 4Q14 GW Sampling
04204027.17
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	0.00444	0.00500	88.8%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ZM18:00079

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-63460-1

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
12/29/2014 12:03 PM

Betsy A Sara, Project Manager II
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0189
betsy.sara@testamericainc.com
12/29/2014

cc: Mr. Sam Adlington
Mr. Matt O'Hare
Ms. Elena Ramirez
Mr. Dan Venchiarutti

The Lab Certification ID# is 4025.

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

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CASE NARRATIVE

Client: Waste Management

Project: WA02|Olympic View Sanitary LF

Report Number: 280-63460-1

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 12/10/2014 at 9:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

The laboratory received volume for sample OBWL-TD, which was not listed on the COC, however two sample bottles were received labeled in OBWL-TD. The client was notified on 12/11/14 and the sample volumes labeled OBWL-TD were cancelled.

Holding Times

All holding times were within established control limits.

Method Blanks

Dissolved Calcium Method 6010B was detected in the Method Blank above the project established reporting limit, however, the requested reporting limit for Dissolved Calcium is below TestAmerica Denver's standard reporting limit and, therefore, no corrective action has been taken for this anomaly. It must be noted that results reported below TestAmerica Denver's standard reporting limits may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Method 8260C laboratory control sample (LCS) recovered outside control limits for 1,1,1-Trichloroethane and Vinyl chloride. These were not requested spike compounds; therefore, no further corrective action was performed.

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 L-INF 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 a sample from another client were outside control limits for Ammonia Method 350.1 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.

Organics

The Method 8260C Continuing Calibration Verification (CCV) standard exhibited a recovery of several analytes above the upper control limit. Because the data are considered to be biased high and the --affected analytes were not detected in the associated samples, 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

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-63460-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-63460-1	**L-INF**					
Specific Conductivity		2871.0			umhos/cm	Field Sampling
Dissolved Oxygen		9.80			mg/L	Field Sampling
eH		204.1			millivolts	Field Sampling
Turbidity		2.51			NTU	Field Sampling
Temperature		10.13			Degrees C	Field Sampling
pH		6.99			SU	Field Sampling
Chloride		540		10	mg/L	300.0
Sulfate		200		10	mg/L	300.0
Ammonia (as N)		6.6		0.15	mg/L	350.1
Nitrate/Nitrite		48		0.25	mg/L	353.2
Chemical Oxygen Demand (COD)		170		20	mg/L	410.4
Alkalinity, Total (As CaCO3)		380		5.0	mg/L	SM 2320B
Alkalinity, Bicarbonate (As CaCO3)		380		5.0	mg/L	SM 2320B
Total Dissolved Solids (TDS)		2000		10	mg/L	SM 2540C
Total Organic Carbon - Average		56		2.0	mg/L	SM 5310B
Dissolved						
Calcium, Dissolved		79	B	0.040	mg/L	6010B
Cobalt, Dissolved		0.0091		0.0030	mg/L	6010B
Iron, Dissolved		0.36		0.060	mg/L	6010B
Magnesium, Dissolved		47		0.050	mg/L	6010B
Potassium, Dissolved		69		1.0	mg/L	6010B
Sodium, Dissolved		460		1.0	mg/L	6010B
Antimony, Dissolved		0.0051		0.0010	mg/L	6020
Barium, Dissolved		0.083		0.0010	mg/L	6020
Cadmium, Dissolved		0.00021		0.00020	mg/L	6020
Chromium, Dissolved		0.0051		0.0030	mg/L	6020
Copper, Dissolved		0.026		0.0020	mg/L	6020
Manganese, Dissolved		0.66		0.0010	mg/L	6020
Nickel, Dissolved		0.065		0.0040	mg/L	6020
Vanadium, Dissolved		0.0070		0.0020	mg/L	6020
Zinc, Dissolved		0.040		0.0050	mg/L	6020

METHOD SUMMARY

Client: Waste Management

Job Number: 280-64760-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	SW876 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW876 4003A
Sample 5ilitration, 5ield			5IELDF5LTRD
Metals (ICP_MS)	TAL DEN	SW876 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW876 4003A
Sample 5ilitration, 5ield			5IELDF5LTRD
Anions, Ion C/ romatograp/ h	TAL DEN	MCAWW 400y0	
Nitrogen, Ammonia	TAL DEN	MCAWW 430y1	
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 434y2	
C. D	TAL DEN	MCAWW 710y7	
Alkalinith	TAL DEN	SM SM 2420B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2370C	
. rganic Carbon, Total (T. C)	TAL DEN	SM SM 3410B	
5ield Sampling	TAL DEN	EPA 5ield Sampling	
Oolatile . rganic Compounds bh VC_MS	TAL BG5	SW876 8260C	
Purge and Trap	TAL BG5		SW876 3040C
Oolatile . rganic Compounds (VC_MS)	TAL BG5	SW876 8260C SIM	
Purge and Trap	TAL BG5		SW876 3040C

Lab References:

TAL BG5 UTestAmerica Bu=alo

TAL DEN UTestAmerica Denver

Method References:

EPA UGS Environmental Protection Agench

MCAWW UfMet/ ods 5or C/ emical Analhsis . =Water And Wastesf, EPA-600_7-" 9-020, Marc/ 1984 And Subsequent Revisionsy

SM UfStandard Met/ ods 5or T/ e Examination . =Water And Wastewaterf

SW876 UfTest Met/ ods 5or Evaluating Solid Waste, P/ hsical_C/ emical Met/ odsf, T/ ird Edition, November 1986 And Its Gpdatesy

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-63460-1

Method	Analyst	Analyst ID
SW846 8260C	Man, Chi x	CxM
SW846 8260C SIM	Sobol, Renee A	RAS
SW846 6010B	Scott, Samantha J	SJS
SW846 6020	Trudell, Lynn-Anne M	LMT
EPA Field Sampling	Saraubon, Phakchaya	PS
MCAWW 300.0	Sripen, Phuriya	PS1
MCAWW 350.1	Lawrence, Caitlyn M	CML
MCAWW 353.2	Janssen, Elizabeth L	ELJ
MCAWW 410.4	Shaheen, Scott W	SWS
SM SM 2320B	Jewell, Connie C	CCJ
SM SM 2540C	Cherry, Scott V	SVC
SM SM 5310B	Jewell, Connie C	CCJ

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-63460-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-63460-1	L-INF	Water	12/09/2014 0845	12/10/2014 0950

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3133.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0638			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0638				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		1.8	5.0
1,1,1-Trichloroethane	ND	*	4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.9	5.0
1,1-Dichloroethene	ND		1.5	5.0
1,1-Dichloropropene	ND		3.6	5.0
1,2,3-Trichlorobenzene	ND		2.1	5.0
1,2,3-Trichloropropane	ND		4.5	5.0
1,2,4-Trichlorobenzene	ND		2.1	5.0
1,2,4-Trimethylbenzene	ND		3.8	5.0
1,2-Dibromo-3-Chloropropane	ND		2.0	5.0
1,2-Dibromoethane (EDB)	ND		3.7	5.0
1,2-Dichlorobenzene	ND		4.0	5.0
1,2-Dichloroethane	ND		1.1	5.0
1,2-Dichloroethene, Total	ND		4.1	10
1,2-Dichloropropane	ND		3.6	5.0
1,3,5-Trichlorobenzene	ND		1.2	5.0
1,3,5-Trimethylbenzene	ND		3.9	5.0
1,3-Dichlorobenzene	ND		3.9	5.0
1,3-Dichloropropane	ND		3.8	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
1,4-Dioxane	ND		47	200
2,2-Dichloropropane	ND		2.0	5.0
2-Butanone (MEK)	ND		6.6	50
2-Chloroethyl vinyl ether	ND		4.8	25
2-Hexanone	ND		6.2	25
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	ND		15	50
Acetonitrile	ND		25	75
Acrolein	ND		4.6	100
Acrylonitrile	ND		4.2	25
Benzene	ND		2.1	5.0
Bromobenzene	ND		4.0	5.0
Bromochloromethane	ND		4.4	5.0
Bromodichloromethane	ND		2.0	5.0
Bromoform	ND		1.3	5.0
Bromomethane	ND		3.5	5.0
Butyl alcohol, n-	ND		44	200
Butyl alcohol, tert-	ND		17	50
Carbon disulfide	ND		0.95	5.0
Carbon tetrachloride	ND		1.4	5.0
Chlorobenzene	ND		3.8	5.0
Chlorodifluoromethane	ND		1.3	5.0
Chloroethane	ND		1.6	5.0

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3133.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0638			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0638				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	ND		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	5.0
Dibromochloromethane	ND		1.6	5.0
Dibromomethane	ND		2.1	5.0
Dichlorodifluoromethane	ND		3.4	5.0
Dichlorofluoromethane	ND		1.7	5.0
Ethyl acetate	ND		3.3	5.0
Ethyl ether	ND		3.6	5.0
Ethyl tert-butyl ether	ND		1.5	5.0
Ethylbenzene	ND		3.7	5.0
Hexachlorobutadiene	ND		1.4	5.0
Hexane	ND		2.0	50
Iodomethane	ND		1.5	5.0
Isobutanol	ND		24	130
Isopropyl ether	ND		3.0	5.0
Isopropylbenzene	ND		4.0	5.0
Methacrylonitrile	ND		3.5	25
Methyl acetate	ND		2.5	13
Methyl tert-butyl ether	ND		0.80	5.0
Methylcyclohexane	ND		0.80	5.0
Methylene Chloride	ND		2.2	5.0
m-Xylene & p-Xylene	ND		3.3	10
Naphthalene	ND		2.2	5.0
n-Butylbenzene	ND		3.2	5.0
N-Propylbenzene	ND		3.5	5.0
o-Chlorotoluene	ND		4.3	5.0
o-Xylene	ND		3.8	5.0
p-Chlorotoluene	ND		4.2	5.0
p-Cymene	ND		1.6	5.0
sec-Butylbenzene	ND		3.8	5.0
Styrene	ND		3.7	5.0
Tert-amyl methyl ether	ND		1.4	5.0
tert-Butylbenzene	ND		4.1	5.0
Tetrachloroethene	ND		1.8	5.0
Tetrahydrofuran	ND		6.3	25
Toluene	ND		2.6	5.0
trans-1,2-Dichloroethene	ND		4.5	5.0
trans-1,3-Dichloropropene	ND		1.9	5.0
trans-1,4-Dichloro-2-butene	ND		1.1	5.0
Trichloroethene	ND		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0
Vinyl acetate	ND	*	4.3	25
Vinyl chloride	ND		4.5	5.0

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3133.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0638			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0638				

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N3133.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0638			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0638				

Targeted Tentatively Identified Compounds

Cas Number	Analyte	Est. Result (ug/L)	Qualifier
67-72-1	Hexachloroethane TIC	ND	

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

8260C SIM Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C SIM	Analysis Batch:	480-219752	Instrument ID:	HP5973J
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	J4339.D
Dilution:	20			Initial Weight/Volume:	25 mL
Analysis Date:	12/18/2014 0504			Final Weight/Volume:	25 mL
Prep Date:	12/18/2014 0504				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.080	0.40

Surrogate	%Rec	Qualifier	Acceptance Limits
Dibromofluoromethane (Surr)	102		50 - 150
TBA-d9 (Surr)	118		50 - 150

Client: Waste Management

Job Number: 280-63460-1

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1
Client Matrix: Water

Date Sampled: 12/09/2014 0845
Date Received: 12/10/2014 0950

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	280-257812	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-256658	Lab File ID:	26g121814.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0348			Final Weight/Volume:	50 mL
Prep Date:	12/10/2014 1807				

Analyte	Result (mg/L)	Qualifier	RL	RL
Calcium, Dissolved	79	B	0.040	0.040
Cobalt, Dissolved	0.0091		0.0030	0.0030
Iron, Dissolved	0.36		0.060	0.060
Magnesium, Dissolved	47		0.050	0.050
Potassium, Dissolved	69		1.0	1.0
Sodium, Dissolved	460		1.0	1.0

6020 Metals (ICP/MS)-Dissolved

Analysis Method:	6020	Analysis Batch:	280-256852	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-256659	Lab File ID:	245SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2014 0313			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				

Analyte	Result (mg/L)	Qualifier	RL	RL
Antimony, Dissolved	0.0051		0.0010	0.0010
Barium, Dissolved	0.083		0.0010	0.0010
Beryllium, Dissolved	ND		0.0010	0.0010
Cadmium, Dissolved	0.00021		0.00020	0.00020
Chromium, Dissolved	0.0051		0.0030	0.0030
Copper, Dissolved	0.026		0.0020	0.0020
Lead, Dissolved	ND		0.0010	0.0010
Nickel, Dissolved	0.065		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	0.0070		0.0020	0.0020
Zinc, Dissolved	0.040		0.0050	0.0050

Analysis Method:	6020	Analysis Batch:	280-257289	Instrument ID:	MT_078
Prep Method:	3005A	Prep Batch:	280-256659	Lab File ID:	027SMPL.d
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	12/15/2014 1445			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				

Analyte	Result (mg/L)	Qualifier	RL	RL
Manganese, Dissolved	0.66		0.0010	0.0010

General Chemistry

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1 Date Sampled: 12/09/2014 0845
Client Matrix: Water Date Received: 12/10/2014 0950

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Chloride	540		mg/L	10	10	10	300.0
Analysis Batch: 280-257326	Analysis Date: 12/16/2014 1820						
Sulfate	200		mg/L	10	10	10	300.0
Analysis Batch: 280-257326	Analysis Date: 12/16/2014 1820						
Ammonia (as N)	6.6		mg/L	0.15	0.15	5.0	350.1
Analysis Batch: 280-256977	Analysis Date: 12/12/2014 1751						
Nitrate/Nitrite	48		mg/L	0.25	0.25	5.0	353.2
Analysis Batch: 280-257257	Analysis Date: 12/15/2014 1321						
Chemical Oxygen Demand (COD)	170		mg/L	20	20	2.0	410.4
Analysis Batch: 280-256959	Analysis Date: 12/12/2014 1622						
Alkalinity, Total (As CaCO3)	380		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-256799	Analysis Date: 12/11/2014 1227						
Alkalinity, Bicarbonate (As CaCO3)	380		mg/L	5.0	5.0	1.0	SM 2320B
Analysis Batch: 280-256799	Analysis Date: 12/11/2014 1227						
Total Dissolved Solids (TDS)	2000		mg/L	10	10	1.0	SM 2540C
Analysis Batch: 280-256749	Analysis Date: 12/11/2014 1045						
Total Organic Carbon - Average	56		mg/L	2.0	2.0	2.0	SM 5310B
Analysis Batch: 280-257148	Analysis Date: 12/12/2014 1824						

Field Service / Mobile Lab

Client Sample ID: **L-INF**

Lab Sample ID: 280-63460-1 Date Sampled: 12/09/2014 0845
Client Matrix: Water Date Received: 12/10/2014 0950

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Specific Conductivity	2871.0		umhos/cm	1.0	Field Sampling	280-256829	12/09/2014 0945
Dissolved Oxygen	9.80		mg/L	1.0	Field Sampling	280-256829	12/09/2014 0945
eH	204.1		millivolts	1.0	Field Sampling	280-256829	12/09/2014 0945
Turbidity	2.51		NTU	1.0	Field Sampling	280-256829	12/09/2014 0945
Temperature	10.13		Degrees C	1.0	Field Sampling	280-256829	12/09/2014 0945
pH	6.99		SU	1.0	Field Sampling	280-256829	12/09/2014 0945

DATA REPORTING QUALIFIERS

Client: Waste Management Job Number: 280-63460-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	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		
	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.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-63460-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-219752					
LCS 480-219752/5	Lab Control Sample	T	Water	8260C SIM	
LCSD 480-219752/6	Lab Control Sample Duplicate	T	Water	8260C SIM	
MB 480-219752/8	Method Blank	T	Water	8260C SIM	
280-63460-1	L-INF	T	Water	8260C SIM	
Analysis Batch:480-219996					
LCS 480-219996/4	Lab Control Sample	T	Water	8260C	
MB 480-219996/6	Method Blank	T	Water	8260C	
280-63460-1	L-INF	T	Water	8260C	
480-72854-F-2 MS	Matrix Spike	T	Water	8260C	
480-72854-F-2 MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-63460-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-256658					
LCS 280-256658/2-A	Lab Control Sample	R	Water	3005A	
MB 280-256658/1-A	Method Blank	R	Water	3005A	
280-63426-C-1-B MS	Matrix Spike	D	Water	3005A	
280-63426-C-1-C MSD	Matrix Spike Duplicate	D	Water	3005A	
280-63460-1	L-INF	D	Water	3005A	
Prep Batch: 280-256659					
LCS 280-256659/2-A	Lab Control Sample	R	Water	3005A	
MB 280-256659/1-A	Method Blank	R	Water	3005A	
280-63460-1	L-INF	D	Water	3005A	
280-63460-1MS	Matrix Spike	D	Water	3005A	
280-63460-1MSD	Matrix Spike Duplicate	D	Water	3005A	
Analysis Batch:280-256852					
LCS 280-256659/2-A	Lab Control Sample	R	Water	6020	280-256659
MB 280-256659/1-A	Method Blank	R	Water	6020	280-256659
280-63460-1	L-INF	D	Water	6020	280-256659
280-63460-1MS	Matrix Spike	D	Water	6020	280-256659
280-63460-1MSD	Matrix Spike Duplicate	D	Water	6020	280-256659
Analysis Batch:280-257289					
LCS 280-256659/2-A	Lab Control Sample	R	Water	6020	280-256659
MB 280-256659/1-A	Method Blank	R	Water	6020	280-256659
280-63460-1	L-INF	D	Water	6020	280-256659
280-63460-1MS	Matrix Spike	D	Water	6020	280-256659
280-63460-1MSD	Matrix Spike Duplicate	D	Water	6020	280-256659
Analysis Batch:280-257812					
LCS 280-256658/2-A	Lab Control Sample	R	Water	6010B	280-256658
MB 280-256658/1-A	Method Blank	R	Water	6010B	280-256658
280-63426-C-1-B MS	Matrix Spike	D	Water	6010B	280-256658
280-63426-C-1-C MSD	Matrix Spike Duplicate	D	Water	6010B	280-256658
280-63460-1	L-INF	D	Water	6010B	280-256658

Report Basis

D = Dissolved

R = Total Recoverable

Client: Waste Management

Job Number: 280-63460-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-256829					
280-63460-1	L-INF	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-63460-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-256749					
LCS 280-256749/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-256749/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-256749/1	Method Blank	T	Water	SM 2540C	
280-63429-A-1 DU	Duplicate	T	Water	SM 2540C	
280-63460-1	L-INF	T	Water	SM 2540C	
Analysis Batch:280-256799					
LCS 280-256799/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-256799/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-256799/6	Method Blank	T	Water	SM 2320B	
280-63460-1	L-INF	T	Water	SM 2320B	
280-63464-D-1 DU	Duplicate	T	Water	SM 2320B	
Analysis Batch:280-256887					
LCS 280-256887/3	Lab Control Sample	T	Water	SM 5310B	
LCS 280-256887/35	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-256887/36	Lab Control Sample Duplicate	T	Water	SM 5310B	
LCSD 280-256887/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-256887/37	Method Blank	T	Water	SM 5310B	
MB 280-256887/5	Method Blank	T	Water	SM 5310B	
280-63287-I-1 MS	Matrix Spike	T	Water	SM 5310B	
280-63287-I-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-63392-E-1 MS	Matrix Spike		Water	SM 5310B	
280-63392-E-1 MSD	Matrix Spike Duplicate		Water	SM 5310B	
280-63460-1	L-INF	T	Water	SM 5310B	
Analysis Batch:280-256959					
LCS 280-256959/3	Lab Control Sample	T	Water	410.4	
LCSD 280-256959/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-256959/5	Method Blank	T	Water	410.4	
280-63460-1	L-INF	T	Water	410.4	
280-63484-D-3 MS	Matrix Spike	T	Water	410.4	
280-63484-D-3 MSD	Matrix Spike Duplicate	T	Water	410.4	
Analysis Batch:280-256977					
LCS 280-256977/160	Lab Control Sample	T	Water	350.1	
LCS 280-256977/201	Lab Control Sample	T	Water	350.1	
LCSD 280-256977/166	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-256977/202	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-256977/162	Method Blank	T	Water	350.1	
MB 280-256977/203	Method Blank	T	Water	350.1	
280-63446-A-1 MS	Matrix Spike	T	Water	350.1	
280-63446-A-1 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-63460-1	L-INF	T	Water	350.1	

Client: Waste Management

Job Number: 280-63460-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-257148					
LCS 280-257148/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-257148/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-257148/5	Method Blank	T	Water	SM 5310B	
280-63460-1	L-INF	T	Water	SM 5310B	
280-63503-CC-3 MS	Matrix Spike	T	Water	SM 5310B	
280-63503-CC-3 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-257149					
LCS 280-257149/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-257149/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-257149/5	Method Blank	T	Water	SM 5310B	
280-63460-1	L-INF	T	Water	SM 5310B	
280-63503-CC-3 MS	Matrix Spike	T	Water	SM 5310B	
280-63503-CC-3 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-257257					
LCS 280-257257/21	Lab Control Sample	T	Water	353.2	
LCS 280-257257/60	Lab Control Sample	T	Water	353.2	
LCSD 280-257257/22	Lab Control Sample Duplicate	T	Water	353.2	
LCSD 280-257257/61	Lab Control Sample Duplicate	T	Water	353.2	
MB 280-257257/23	Method Blank	T	Water	353.2	
MB 280-257257/62	Method Blank	T	Water	353.2	
280-63460-1	L-INF	T	Water	353.2	
280-63503-CA-3 MS	Matrix Spike	T	Water	353.2	
280-63503-CA-3 MSD	Matrix Spike Duplicate	T	Water	353.2	
Analysis Batch:280-257326					
LCS 280-257326/4	Lab Control Sample	T	Water	300.0	
LCSD 280-257326/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-257326/6	Method Blank	T	Water	300.0	
550-36439-B-1 DU	Duplicate	T	Water	300.0	
550-36439-B-1 MS	Matrix Spike	T	Water	300.0	
550-36439-B-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-63460-1	L-INF	T	Water	300.0	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-63460-1

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
280-63460-1	L-INF	127	95	100
MB 480-219996/6		124	94	96
LCS 480-219996/4		119	94	100
480-72854-F-2 MS		122	96	98
480-72854-F-2 MSD		123	95	97

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: 280-63460-1

Surrogate Recovery Report

8260C SIM Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	TBA %Rec
280-63460-1	L-INF	102	118
MB 480-219752/8		99	114
LCS 480-219752/5		110	95
LCSD 480-219752/6		107	89

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	50-150
TBA = TBA-d9 (Surr)	50-150

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

Lab Sample ID:	MB 480-219996/6	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3115.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/18/2014 2258	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/18/2014 2258				
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: 280-63460-1

Method Blank - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

Lab Sample ID:	MB 480-219996/6	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3115.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/18/2014 2258	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/18/2014 2258				
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		0.50	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: 280-63460-1

Method Blank - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

Lab Sample ID:	MB 480-219996/6	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3115.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/18/2014 2258	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/18/2014 2258				
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)	124	66 - 137
4-Bromofluorobenzene (Surr)	94	73 - 120
Toluene-d8 (Surr)	96	71 - 126

Method Blank ALCs- Batch: 480-21666P

Cas Number	Analyte	RT	Est. Result (ug/L	Qual
67-72-1	Hexachloroethane TIC	0.00	ND	

Client: Waste Management

Job Number: 280-63460-1

baS Control xaD 5le - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

Lab Sample ID:	LCS 480-219996/4	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3113.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/18/2014 2209	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/18/2014 2209				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.7	103	71 - 129	
1,1-Dichloroethene	25.0	29.8	119	58 - 121	
1,2,4-Trimethylbenzene	25.0	27.4	110	76 - 121	
1,2-Dichlorobenzene	25.0	25.6	102	80 - 124	
1,2-Dichloroethane	25.0	28.3	113	75 - 127	
Benzene	25.0	23.9	95	71 - 124	
Chlorobenzene	25.0	24.3	97	72 - 120	
cis-1,2-Dichloroethene	25.0	24.5	98	74 - 124	
Ethylbenzene	25.0	25.8	103	77 - 123	
Methyl tert-butyl ether	25.0	26.3	105	64 - 127	
m-Xylene & p-Xylene	25.0	23.9	96	76 - 122	
o-Xylene	25.0	24.6	98	76 - 122	
Tetrachloroethene	25.0	24.4	97	74 - 122	
Toluene	25.0	24.0	96	80 - 122	
trans-1,2-Dichloroethene	25.0	25.2	101	73 - 127	
Trichloroethene	25.0	25.6	102	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119	66 - 137
4-Bromofluorobenzene (Surr)	94	73 - 120
Toluene-d8 (Surr)	100	71 - 126

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

MS Lab Sample ID:	480-72854-F-2 MS	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3134.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0702			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0702				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-72854-F-2 MSD	Analysis Batch:	480-219996	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N3135.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/19/2014 0726			Final Weight/Volume:	5 mL
Prep Date:	12/19/2014 0726				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	114	109	71 - 124	5	13		
Ethylbenzene	123	121	77 - 123	2	15		
m-Xylene & p-Xylene	114	113	76 - 122	1	16		
o-Xylene	115	112	76 - 122	2	16		
Toluene	112	110	80 - 122	2	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122	123	66 - 137
4-Bromofluorobenzene (Surr)	96	95	73 - 120
Toluene-d8 (Surr)	98	97	71 - 126

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 480-21666P

Method: 82P0C
pre5aration: 30T0C

MS Lab Sample ID:	480-72854-F-2 MS	Units:	ug/L	MSD Lab Sample ID:	480-72854-F-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2014 0702			Analysis Date:	12/19/2014 0726
Prep Date:	12/19/2014 0702			Prep Date:	12/19/2014 0726
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	25.0	25.0	28.5	27.2
Ethylbenzene	ND	25.0	25.0	30.8	30.2
m-Xylene & p-Xylene	ND	25.0	25.0	28.4	28.2
o-Xylene	ND	25.0	25.0	28.7	28.0
Toluene	ND	25.0	25.0	28.1	27.5

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 480-216932

Method: 82P0C xLM
pre5aration: 30T0C

Lab Sample ID:	MB 480-219752/8	Analysis Batch:	480-219752	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4337.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/18/2014 0323	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/18/2014 0323				
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)	114	50 - 150

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 480-216932

Method: 82P0C xLM
pre5aration: 30T0C

LCS Lab Sample ID:	LCS 480-219752/5	Analysis Batch:	480-219752	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4334.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/18/2014 0211	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/18/2014 0211				25 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-219752/6	Analysis Batch:	480-219752	Instrument ID:	HP5973J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	J4335.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/18/2014 0235	Units:	ug/L	Final Weight/Volume:	25 mL
Prep Date:	12/18/2014 0235				25 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vinyl chloride	111	107	50 - 150	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane (Surr)	110	107	50 - 150
TBA-d9 (Surr)	95	89	50 - 150

Client: Waste Management

Job Number: 280-63460-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 480-216932

Method: 82P0C x LM
pre5aration: 30T0C

LCS Lab Sample ID:	LCS 480-219752/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-219752/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/18/2014 0211			Analysis Date:	12/18/2014 0235
Prep Date:	12/18/2014 0211			Prep Date:	12/18/2014 0235
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	0.223	0.214

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23PP38

Method: P010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-256658/1-A	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256658	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0301	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/10/2014 1807				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Calcium, Dissolved	0.0769		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

baS Control xaD 5le - Batch: 280-23PP38

Method: P010B
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-256658/2-A	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256658	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0304	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/10/2014 1807				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Calcium, Dissolved	50.0	45.6	91	90 - 111	
Cobalt, Dissolved	0.500	0.473	95	89 - 111	
Iron, Dissolved	1.00	0.912	91	89 - 115	
Magnesium, Dissolved	50.0	48.9	98	90 - 113	
Potassium, Dissolved	50.0	50.4	101	89 - 114	
Sodium, Dissolved	50.0	49.8	100	90 - 115	

Client: Waste Management

Job Number: 280-63460-1

Matri/ x5ike7
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-23PP38

Method: P010B
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63426-C-1-B MS	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256658	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0311			Final Weight/Volume:	50 mL
Prep Date:	12/10/2014 1807				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63426-C-1-C MSD	Analysis Batch:	280-257812	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-256658	Lab File ID:	26g121814.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/19/2014 0314			Final Weight/Volume:	50 mL
Prep Date:	12/10/2014 1807				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Calcium, Dissolved	89	94	48 - 153	3	20		
Cobalt, Dissolved	94	95	82 - 119	1	20		
Iron, Dissolved	90	91	52 - 155	1	20		
Magnesium, Dissolved	96	99	62 - 146	2	20		
Potassium, Dissolved	102	103	76 - 132	2	20		
Sodium, Dissolved	99	101	70 - 203	2	20		

Matri/ x5ike7
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-23PP38

Method: P010B
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63426-C-1-B MS	Units:	mg/L	MSD Lab Sample ID:	280-63426-C-1-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/19/2014 0311			Analysis Date:	12/19/2014 0314
Prep Date:	12/10/2014 1807			Prep Date:	12/10/2014 1807
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, Dissolved	41	50.0	50.0	85.3	87.6
Cobalt, Dissolved	ND	0.500	0.500	0.468	0.473
Iron, Dissolved	ND	1.00	1.00	0.904	0.915
Magnesium, Dissolved	15	50.0	50.0	63.5	64.9
Potassium, Dissolved	ND	50.0	50.0	50.8	51.6
Sodium, Dissolved	10	50.0	50.0	59.8	60.8

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23PP36

Method: P020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-256659/1-A	Analysis Batch:	280-256852	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	243_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2014 0306	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
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
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

Method Blank - Batch: 280-23PP36

Method: P020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	MB 280-256659/1-A	Analysis Batch:	280-257289	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	025_BLK.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/15/2014 1437	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Manganese, Dissolved	ND		0.0010	0.0010

Client: Waste Management

Job Number: 280-63460-1

baS Control xaD 5le - Batch: 280-23PP36

Method: P020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-256659/2-A	Analysis Batch:	280-256852	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	244_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2014 0310	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony, Dissolved	0.0400	0.0395	99	85 - 115	
Barium, Dissolved	0.0400	0.0417	104	85 - 118	
Beryllium, Dissolved	0.0400	0.0422	105	80 - 125	
Cadmium, Dissolved	0.0400	0.0411	103	85 - 115	
Chromium, Dissolved	0.0400	0.0404	101	84 - 121	
Copper, Dissolved	0.0400	0.0402	101	85 - 119	
Lead, Dissolved	0.0400	0.0421	105	85 - 118	
Nickel, Dissolved	0.0400	0.0414	104	85 - 119	
Selenium, Dissolved	0.0400	0.0407	102	77 - 122	
Silver, Dissolved	0.0400	0.0405	101	85 - 115	
Thallium, Dissolved	0.0400	0.0416	104	85 - 118	
Vanadium, Dissolved	0.0400	0.0406	102	85 - 120	
Zinc, Dissolved	0.0400	0.0420	105	83 - 122	

baS Control xaD 5le - Batch: 280-23PP36

Method: P020
pre5aration: T003m
Aotal Recol eraSle

Lab Sample ID:	LCS 280-256659/2-A	Analysis Batch:	280-257289	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	026_LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/15/2014 1441	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Manganese, Dissolved	0.0400	0.0405	101	85 - 117	

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23PP36

Method: P020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63460-1	Analysis Batch:	280-256852	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	247SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2014 0321			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63460-1	Analysis Batch:	280-256852	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	248SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/12/2014 0324			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony, Dissolved	106	102	85 - 115	3	20		
Barium, Dissolved	102	103	85 - 118	0	20		
Beryllium, Dissolved	119	117	80 - 125	1	20		
Cadmium, Dissolved	104	102	85 - 115	2	20		
Chromium, Dissolved	105	104	84 - 121	0	20		
Copper, Dissolved	105	103	85 - 119	1	20		
Lead, Dissolved	105	103	85 - 118	2	20		
Nickel, Dissolved	104	106	85 - 119	1	20		
Selenium, Dissolved	104	103	77 - 122	1	20		
Silver, Dissolved	100	98	85 - 115	3	20		
Thallium, Dissolved	104	103	85 - 118	1	20		
Vanadium, Dissolved	108	108	85 - 120	0	20		
Zinc, Dissolved	109	111	83 - 122	1	20		

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23PP36

Method: P020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63460-1	Analysis Batch:	280-257289	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	029SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/15/2014 1452			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63460-1	Analysis Batch:	280-257289	Instrument ID:	MT_078
Client Matrix:	Water	Prep Batch:	280-256659	Lab File ID:	030SMPL.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	12/15/2014 1455			Final Weight/Volume:	50 mL
Prep Date:	12/11/2014 0930				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese, Dissolved	112	127	85 - 117	1	20	4	4

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23PP36

Method: P020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63460-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2014 0321		
Prep Date:	12/11/2014 0930		
Leach Date:	N/A		

MSD Lab Sample ID:	280-63460-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2014 0324
Prep Date:	12/11/2014 0930
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony, Dissolved	0.0051	0.0400	0.0400	0.0473	0.0459
Barium, Dissolved	0.083	0.0400	0.0400	0.123	0.124
Beryllium, Dissolved	ND	0.0400	0.0400	0.0475	0.0469
Cadmium, Dissolved	0.00021	0.0400	0.0400	0.0420	0.0411
Chromium, Dissolved	0.0051	0.0400	0.0400	0.0470	0.0469
Copper, Dissolved	0.026	0.0400	0.0400	0.0676	0.0668
Lead, Dissolved	ND	0.0400	0.0400	0.0420	0.0412
Nickel, Dissolved	0.065	0.0400	0.0400	0.107	0.108
Selenium, Dissolved	ND	0.0400	0.0400	0.0418	0.0413
Silver, Dissolved	ND	0.0400	0.0400	0.0402	0.0391
Thallium, Dissolved	ND	0.0400	0.0400	0.0414	0.0410
Vanadium, Dissolved	0.0070	0.0400	0.0400	0.0503	0.0503
Zinc, Dissolved	0.040	0.0400	0.0400	0.0836	0.0846

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23PP36

Method: P020
pre5aration: T003m
v issoll ed

MS Lab Sample ID:	280-63460-1	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/15/2014 1452		
Prep Date:	12/11/2014 0930		
Leach Date:	N/A		

MSD Lab Sample ID:	280-63460-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/15/2014 1455
Prep Date:	12/11/2014 0930
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Manganese, Dissolved	0.66	0.0400	0.0400	0.702	4	0.708	4

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

Lab Sample ID:	MB 280-257326/6	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	13.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1138	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 Re5orting biD it Check - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

Lab Sample ID:	MRL 280-257326/3	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1048	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	100	50 - 150	
Sulfate	2.50	ND	93	50 - 150	

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257326/4	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	11.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1105	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257326/5	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	12.0000.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1121	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	98	98	90 - 110	0	10		
Sulfate	96	95	90 - 110	1	10		

Client: Waste Management

Job Number: 280-63460-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257326/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257326/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/16/2014 1105			Analysis Date:	12/16/2014 1121
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	97.8	97.9
Sulfate	100	100	95.8	95.2

Matri/ x5ike7
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

MS Lab Sample ID:	550-36439-B-1 MS	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	19.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1408			Final Weight/Volume:	5 mL
Prep Date:	N/A				10 uL
Leach Date:	N/A				

MSD Lab Sample ID:	550-36439-B-1 MSD	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	20.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1425			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	89	89	80 - 120	0	20		
Sulfate	87	87	80 - 120	0	20		

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

MS Lab Sample ID:	550-36439-B-1 MS	Units:	mg/L	MSD Lab Sample ID:	550-36439-B-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	10			Dilution:	10
Analysis Date:	12/16/2014 1408			Analysis Date:	12/16/2014 1425
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	180	250	250	400	402
Sulfate	180	250	250	393	394

v u5licate - Batch: 280-239T2P

Method: T00.0
pre5aration: N7m

Lab Sample ID:	550-36439-B-1 DU	Analysis Batch:	280-257326	Instrument ID:	WC_IonChrom8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	18.0000.d
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/16/2014 1351	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	180	177	0.8	15	
Sulfate	180	173	2	15	

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23P699

Method: T30.1
pre5aration: N7m

Lab Sample ID:	MB 280-256977/162	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1435	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Method Blank - Batch: 280-23P699

Method: T30.1
pre5aration: N7m

Lab Sample ID:	MB 280-256977/203	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1604	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Ammonia (as N)	ND		0.030	0.030

Client: Waste Management Job Number: 280-63460-1

baS Control xaD 5le7 **Method: T30.1**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-23P699 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-256977/160	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1431	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256977/166	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1449	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)	104	103	90 - 110	1	10		

baS Control xaD 5le7 **Method: T30.1**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-23P699 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-256977/201	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1600	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256977/202	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1602	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)	103	106	90 - 110	3	10		

Client: Waste Management

Job Number: 280-63460-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-23P699

Method: T30.1
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256977/160	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2014 1431		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-256977/166
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2014 1449
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	2.60	2.57

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-23P699

Method: T30.1
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256977/201	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	12/12/2014 1600		
Prep Date:	N/A		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-256977/202
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	12/12/2014 1602
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	2.58	2.65

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7 **Method: T30.1**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23P699 **pre5aration: N7m**

MS Lab Sample ID:	280-63446-A-1 MS	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1439			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63446-A-1 MSD	Analysis Batch:	280-256977	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\121214.RST
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/12/2014 1447			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)	95	130	90 - 110	6	10	4	4

Matri/ x 5ike7 **Method: T30.1**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-23P699 **pre5aration: N7m**

MS Lab Sample ID:	280-63446-A-1 MS	Units:	mg/L	MSD Lab Sample ID:	280-63446-A-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	12/12/2014 1439			Analysis Date:	12/12/2014 1447
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)	23	5.00	5.00	27.3	4	29.1	4

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-239239

Method: T3T.2
pre5aration: N7m

Lab Sample ID:	MB 280-257257/23	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2014 1237	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate/Nitrite	ND		0.050	0.050

Method Blank - Batch: 280-239239

Method: T3T.2
pre5aration: N7m

Lab Sample ID:	MB 280-257257/62	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/15/2014 1355	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Nitrate/Nitrite	ND		0.050	0.050

Method Re5orting biD it Check - Batch: 280-239239

Method: T3T.2
pre5aration: N7m

Lab Sample ID:	MRL 280-257257/18	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/15/2014 1152	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate/Nitrite	0.100	ND	81	50 - 150	

Client: Waste Management Job Number: 280-63460-1

baS Control xaD 5le7 **Method: T3T.2**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-239239 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-257257/21	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/15/2014 1233	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257257/22	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/15/2014 1235	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate/Nitrite	105	105	90 - 110	0	10		

baS Control xaD 5le7 **Method: T3T.2**
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-239239 **pre5aration: N7m**

LCS Lab Sample ID:	LCS 280-257257/60	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/15/2014 1351	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257257/61	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/15/2014 1353	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Nitrate/Nitrite	105	106	90 - 110	0	10		

Client: Waste Management

Job Number: 280-63460-1

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-239239

Method: T3T.2
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257257/21	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257257/22
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2014 1233			Analysis Date:	12/15/2014 1235
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate/Nitrite	5.00	5.00	5.26	5.24

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-239239

Method: T3T.2
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257257/60	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257257/61
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/15/2014 1351			Analysis Date:	12/15/2014 1353
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate/Nitrite	5.00	5.00	5.27	5.29

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7 **Method: T3T.2**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-239239 **pre5aration: N7m**

MS Lab Sample ID:	280-63503-CA-3 MS	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1545			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63503-CA-3 MSD	Analysis Batch:	280-257257	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\121514.RST
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/15/2014 1547			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate/Nitrite	97	97	90 - 110	0	10		

Matri/ x 5ike7 **Method: T3T.2**
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-239239 **pre5aration: N7m**

MS Lab Sample ID:	280-63503-CA-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-63503-CA-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	12/15/2014 1545			Analysis Date:	12/15/2014 1547
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate/Nitrite	19	20.0	20.0	38.7	38.7

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23P636

Method: 410.4
pre5aration: N7m

Lab Sample ID:	MB 280-256959/5	Analysis Batch:	280-256959	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	12/12/2014 1622	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-23P636

Method: 410.4
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256959/3	Analysis Batch:	280-256959	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1622	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256959/4	Analysis Batch:	280-256959	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1622	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)	100	102	90 - 110	2	11		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-23P636

Method: 410.4
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256959/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256959/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 1622			Analysis Date:	12/12/2014 1622
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	100	102

Client: Waste Management

Job Number: 280-63460-1

Matri/ x5ike7 **Method: 410.4**
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-23P636 **pre5aration: N7m**

MS Lab Sample ID:	280-63484-D-3 MS	Analysis Batch:	280-256959	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1622			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63484-D-3 MSD	Analysis Batch:	280-256959	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	12/12/2014 1622			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)	108	100	90 - 110	3	11		

Matri/ x5ike7 **Method: 410.4**
Matri/ x5ike v u5licate Recol ery Re5ort - Batch: 280-23P636 **pre5aration: N7m**

MS Lab Sample ID:	280-63484-D-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-63484-D-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 1622			Analysis Date:	12/12/2014 1622
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)	99	50.0	50.0	153	149

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23P966

Method: xM 2T20B
pre5aration: N7m

Lab Sample ID:	MB 280-256799/6	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1056	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-23P966

Method: xM 2T20B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256799/4	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1047	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256799/5	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1053	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Alkalinity, Total (As CaCO3)	97	97	90 - 110	1	10		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-23P966

Method: xM 2T20B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256799/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256799/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1047			Analysis Date:	12/11/2014 1053
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Alkalinity, Total (As CaCO3)	200	200	195	193

Client: Waste Management

Job Number: 280-63460-1

v u5licate - Batch: 280-23P966

Method: xM 2T20B
pre5aration: N7m

Lab Sample ID:	280-63464-D-1 DU	Analysis Batch:	280-256799	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/11/2014 1106	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)	380	379	0.9	10	

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-23P946

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	MB 280-256749/1	Analysis Batch:	280-256749	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:	12/11/2014 1045	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-23P946

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256749/2	Analysis Batch:	280-256749	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:	12/11/2014 1045	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-256749/3	Analysis Batch:	280-256749	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:	12/11/2014 1045	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids (TDS)	99	97	86 - 110	1	20		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-23P946

Method: xM 2340C
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-256749/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-256749/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2014 1045			Analysis Date:	12/11/2014 1045
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids (TDS)	501	501	494	487

Client: Waste Management

Job Number: 280-63460-1

v u5licate - Batch: 280-23P946

Method: xM 2340C
pre5aration: N7m

Lab Sample ID:	280-63429-A-1 DU	Analysis Batch:	280-256749	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:	12/11/2014 1045	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)	550	550	0.4	10	

Client: Waste Management

Job Number: 280-63460-1

Method Blank - Batch: 280-239148

Method: xM 3T10B
pre5aration: N7m

Lab Sample ID:	MB 280-257148/5	Analysis Batch:	280-257148	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121214.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/12/2014 1526	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

baS Control xaD 5le7
baS Control xaD 5le v u5licate Recol ery Re5ort - Batch: 280-239148

Method: xM 3T10B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257148/3	Analysis Batch:	280-257148	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121214.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/12/2014 1451	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-257148/4	Analysis Batch:	280-257148	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121214.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/12/2014 1508	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	98	88 - 112	1	15		

baSoratory Control7
baSoratory v u5licate v ata Re5ort - Batch: 280-239148

Method: xM 3T10B
pre5aration: N7m

LCS Lab Sample ID:	LCS 280-257148/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-257148/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 1451			Analysis Date:	12/12/2014 1508
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.3	24.6

Client: Waste Management

Job Number: 280-63460-1

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-239148

Method: x M 3T10B
pre5aration: N7m

MS Lab Sample ID:	280-63503-CC-3 MS	Analysis Batch:	280-257148	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121214.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/12/2014 1713			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-63503-CC-3 MSD	Analysis Batch:	280-257148	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121214.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/12/2014 1731			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	99	99	88 - 112	0	15		

Matri/ x 5ike7
Matri/ x 5ike v u5licate Recol ery Re5ort - Batch: 280-239148

Method: x M 3T10B
pre5aration: N7m

MS Lab Sample ID:	280-63503-CC-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-63503-CC-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/12/2014 1713			Analysis Date:	12/12/2014 1731
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	22	25.0	25.0	46.7	46.8

Client: Waste Management Job Number: 280-63460-1

Laboratory Chronicle

Lab ID: 280-63460-1 **Client ID:** L-INF

Sample Date/Time: 12/09/2014 08:45 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	280-63460-E-1		480-219996		12/19/2014 06:38	5	TAL BUF	CxM
A:8260C	280-63460-E-1		480-219996		12/19/2014 06:38	5	TAL BUF	CxM
P:5030C	280-63460-J-1		480-219752		12/18/2014 05:04	20	TAL BUF	RAS
A:8260C SIM	280-63460-J-1		480-219752		12/18/2014 05:04	20	TAL BUF	RAS
P:3005A	280-63460-D-1-A		280-257812	280-256658	12/10/2014 18:07	1	TAL DEN	CGG
A:6010B	280-63460-D-1-A		280-257812	280-256658	12/19/2014 03:48	1	TAL DEN	SJS
P:3005A	280-63460-D-1-B		280-256852	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-B		280-256852	280-256659	12/12/2014 03:13	1	TAL DEN	LMT
P:3005A	280-63460-D-1-B		280-257289	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-B		280-257289	280-256659	12/15/2014 14:45	1	TAL DEN	LMT
A:300.0	280-63460-A-1		280-257326		12/16/2014 18:20	10	TAL DEN	PS1
A:350.1	280-63460-B-1		280-256977		12/12/2014 17:51	5	TAL DEN	CML
A:353.2	280-63460-C-1		280-257257		12/15/2014 13:21	5	TAL DEN	ELJ
A:410.4	280-63460-C-1		280-256959		12/12/2014 16:22	2	TAL DEN	SWS
A:SM 2320B	280-63460-A-1		280-256799		12/11/2014 12:27	1	TAL DEN	CCJ
A:SM 2540C	280-63460-A-1		280-256749		12/11/2014 10:45	1	TAL DEN	SVC
A:SM 5310B	280-63460-C-1		280-257148		12/12/2014 18:24	2	TAL DEN	CCJ
A:Field Sampling	280-63460-A-1		280-256829		12/09/2014 09:45	1	TAL DEN	PS

Lab ID: 280-63460-1 MS **Client ID:** L-INF

Sample Date/Time: 12/09/2014 08:45 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-63460-D-1-C MS		280-256852	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-C MS		280-256852	280-256659	12/12/2014 03:21	1	TAL DEN	LMT
P:3005A	280-63460-D-1-C MS		280-257289	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-C MS		280-257289	280-256659	12/15/2014 14:52	1	TAL DEN	LMT

Lab ID: 280-63460-1 MSD **Client ID:** L-INF

Sample Date/Time: 12/09/2014 08:45 Received Date/Time: 12/10/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-63460-D-1-D MSD		280-256852	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-D MSD		280-256852	280-256659	12/12/2014 03:24	1	TAL DEN	LMT
P:3005A	280-63460-D-1-D MSD		280-257289	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	280-63460-D-1-D MSD		280-257289	280-256659	12/15/2014 14:55	1	TAL DEN	LMT

Client: Waste Management

Job Number: 280-63460-1

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 480-219996/6		480-219996		12/18/2014 22:58	1	TAL BUF	CxM
A:8260C	MB 480-219996/6		480-219996		12/18/2014 22:58	1	TAL BUF	CxM
P:5030C	MB 480-219752/8		480-219752		12/18/2014 03:23	1	TAL BUF	RAS
A:8260C SIM	MB 480-219752/8		480-219752		12/18/2014 03:23	1	TAL BUF	RAS
P:3005A	MB 280-256658/1-A		280-257812	280-256658	12/10/2014 18:07	1	TAL DEN	CGG
A:6010B	MB 280-256658/1-A		280-257812	280-256658	12/19/2014 03:01	1	TAL DEN	SJS
P:3005A	MB 280-256659/1-A		280-256852	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	MB 280-256659/1-A		280-256852	280-256659	12/12/2014 03:06	1	TAL DEN	LMT
P:3005A	MB 280-256659/1-A		280-257289	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	MB 280-256659/1-A		280-257289	280-256659	12/15/2014 14:37	1	TAL DEN	LMT
A:300.0	MB 280-257326/6		280-257326		12/16/2014 11:38	1	TAL DEN	PS1
A:350.1	MB 280-256977/162		280-256977		12/12/2014 14:35	1	TAL DEN	CML
A:350.1	MB 280-256977/203		280-256977		12/12/2014 16:04	1	TAL DEN	CML
A:353.2	MB 280-257257/23		280-257257		12/15/2014 12:37	1	TAL DEN	ELJ
A:353.2	MB 280-257257/62		280-257257		12/15/2014 13:55	1	TAL DEN	ELJ
A:410.4	MB 280-256959/5		280-256959		12/12/2014 16:22	1	TAL DEN	SWS
A:SM 2320B	MB 280-256799/6		280-256799		12/11/2014 10:56	1	TAL DEN	CCJ
A:SM 2540C	MB 280-256749/1		280-256749		12/11/2014 10:45	1	TAL DEN	SVC
A:SM 5310B	MB 280-257148/5		280-257148		12/12/2014 15:26	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-63460-1

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 480-219996/4		480-219996		12/18/2014 22:09	1	TAL BUF	CxM
A:8260C	LCS 480-219996/4		480-219996		12/18/2014 22:09	1	TAL BUF	CxM
P:5030C	LCS 480-219752/5		480-219752		12/18/2014 02:11	1	TAL BUF	RAS
A:8260C SIM	LCS 480-219752/5		480-219752		12/18/2014 02:11	1	TAL BUF	RAS
P:3005A	LCS 280-256658/2-A		280-257812	280-256658	12/10/2014 18:07	1	TAL DEN	CGG
A:6010B	LCS 280-256658/2-A		280-257812	280-256658	12/19/2014 03:04	1	TAL DEN	SJS
P:3005A	LCS 280-256659/2-A		280-256852	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	LCS 280-256659/2-A		280-256852	280-256659	12/12/2014 03:10	1	TAL DEN	LMT
P:3005A	LCS 280-256659/2-A		280-257289	280-256659	12/11/2014 09:30	1	TAL DEN	CGG
A:6020	LCS 280-256659/2-A		280-257289	280-256659	12/15/2014 14:41	1	TAL DEN	LMT
A:300.0	LCS 280-257326/4		280-257326		12/16/2014 11:05	1	TAL DEN	PS1
A:350.1	LCS 280-256977/160		280-256977		12/12/2014 14:31	1	TAL DEN	CML
A:350.1	LCS 280-256977/201		280-256977		12/12/2014 16:00	1	TAL DEN	CML
A:353.2	LCS 280-257257/21		280-257257		12/15/2014 12:33	1	TAL DEN	ELJ
A:353.2	LCS 280-257257/60		280-257257		12/15/2014 13:51	1	TAL DEN	ELJ
A:410.4	LCS 280-256959/3		280-256959		12/12/2014 16:22	1	TAL DEN	SWS
A:SM 2320B	LCS 280-256799/4		280-256799		12/11/2014 10:47	1	TAL DEN	CCJ
A:SM 2540C	LCS 280-256749/2		280-256749		12/11/2014 10:45	1	TAL DEN	SVC
A:SM 5310B	LCS 280-257148/3		280-257148		12/12/2014 14:51	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 480-219752/6		480-219752		12/18/2014 02:35	1	TAL BUF	RAS
A:8260C SIM	LCSD 480-219752/6		480-219752		12/18/2014 02:35	1	TAL BUF	RAS
A:300.0	LCSD 280-257326/5		280-257326		12/16/2014 11:21	1	TAL DEN	PS1
A:350.1	LCSD 280-256977/166		280-256977		12/12/2014 14:49	1	TAL DEN	CML
A:350.1	LCSD 280-256977/202		280-256977		12/12/2014 16:02	1	TAL DEN	CML
A:353.2	LCSD 280-257257/22		280-257257		12/15/2014 12:35	1	TAL DEN	ELJ
A:353.2	LCSD 280-257257/61		280-257257		12/15/2014 13:53	1	TAL DEN	ELJ
A:410.4	LCSD 280-256959/4		280-256959		12/12/2014 16:22	1	TAL DEN	SWS
A:SM 2320B	LCSD 280-256799/5		280-256799		12/11/2014 10:53	1	TAL DEN	CCJ
A:SM 2540C	LCSD 280-256749/3		280-256749		12/11/2014 10:45	1	TAL DEN	SVC
A:SM 5310B	LCSD 280-257148/4		280-257148		12/12/2014 15:08	1	TAL DEN	CCJ

Client: Waste Management Job Number: 280-63460-1

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 280-257326/3		280-257326		12/16/2014 10:48	1	TAL DEN	PS1
A:353.2	MRL 280-257257/18		280-257257		12/15/2014 11:52	1	TAL DEN	ELJ

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 12/08/2014 15:30 Received Date/Time: 12/11/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-72854-F-2 MS		480-219996		12/19/2014 07:02	1	TAL BUF	CxM
A:8260C	480-72854-F-2 MS		480-219996		12/19/2014 07:02	1	TAL BUF	CxM
P:3005A	280-63426-C-1-B MS		280-257812	280-256658	12/10/2014 18:07	1	TAL DEN	CGG
A:6010B	280-63426-C-1-B MS		280-257812	280-256658	12/19/2014 03:11	1	TAL DEN	SJS
A:300.0	550-36439-B-1 MS		280-257326		12/16/2014 14:08	10	TAL DEN	PS1
A:350.1	280-63446-A-1 MS		280-256977		12/12/2014 14:39	5	TAL DEN	CML
A:353.2	280-63503-CA-3 MS		280-257257		12/15/2014 15:45	5	TAL DEN	ELJ
A:410.4	280-63484-D-3 MS		280-256959		12/12/2014 16:22	1	TAL DEN	SWS
A:SM 5310B	280-63503-CC-3 MS		280-257148		12/12/2014 17:13	1	TAL DEN	CCJ

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 12/08/2014 15:30 Received Date/Time: 12/11/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-72854-F-2 MSD		480-219996		12/19/2014 07:26	1	TAL BUF	CxM
A:8260C	480-72854-F-2 MSD		480-219996		12/19/2014 07:26	1	TAL BUF	CxM
P:3005A	280-63426-C-1-C MSD		280-257812	280-256658	12/10/2014 18:07	1	TAL DEN	CGG
A:6010B	280-63426-C-1-C MSD		280-257812	280-256658	12/19/2014 03:14	1	TAL DEN	SJS
A:300.0	550-36439-B-1 MSD		280-257326		12/16/2014 14:25	10	TAL DEN	PS1
A:350.1	280-63446-A-1 MSD		280-256977		12/12/2014 14:47	5	TAL DEN	CML
A:353.2	280-63503-CA-3 MSD		280-257257		12/15/2014 15:47	5	TAL DEN	ELJ
A:410.4	280-63484-D-3 MSD		280-256959		12/12/2014 16:22	1	TAL DEN	SWS
A:SM 5310B	280-63503-CC-3 MSD		280-257148		12/12/2014 17:31	1	TAL DEN	CCJ

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 12/08/2014 10:00 Received Date/Time: 12/08/2014 17:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	550-36439-B-1 DU		280-257326		12/16/2014 13:51	10	TAL DEN	PS1
A:SM 2320B	280-63464-D-1 DU		280-256799		12/11/2014 11:06	1	TAL DEN	CCJ
A:SM 2540C	280-63429-A-1 DU		280-256749		12/11/2014 10:45	1	TAL DEN	SVC

Client: Waste Management

Job Number: 280-63460-1

Laboratory Chronicle

Lab References:
TAL BUF = TestAmerica Buffalo
TAL DEN = TestAmerica Denver

1.1+0, 5 IRS 12/10/14 (TC)

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of C.

280-63460 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bradley Reach	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-29114-4071.1
Client Contact: Mr. Charles Luckie	Phone: 360-703-8156	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: Olympic View Transfer Station				Job #:

Address: 9300 Southwest Barney White Road	Due Date Requested:
City: Bremerton	TAT Requested (days):
State, Zip: WA. 98312	
Phone:	PO #:
Email:	WO #:
Project Name: WA02|Olympic View Sanitary LF	Project #: 28002692-Annual OBW-TB/L-INF App I/II -Dec
Site: Washington	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	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)	8260B - VOA	8260B_SIM - Vinyl chloride	Cl/SO4/Alks/TDS	Dissolved Metals	Ammonia/NOXT/TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	A	N	D	S	X	
L-INF	12/9/14	0845	G	W			X	X	X	X	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: 12/9/14	Company SES-PS	Received by:	Date/Time: 12/10/14 950	Company
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.: 333119

Cooler Temperature(s) °C and Other Remarks:

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: OVSL

Site No.: S03702 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
12/9/14	0845				

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 F

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

X-Other: ____

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

WELL DATA

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

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

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

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	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

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

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units Time
12/9/14	6.99	2871	10.13	2.51	9.80	204.1	0845

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: lt Straw Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 18 Sth Outlook: Wind / 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
12/9/14	Bradley Beach	[signature]	SCS-FS

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

TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-63460-1

Login Number: 63460

List Source: TestAmerica Denver

List Number: 1

Creator: Conquest, Tyler W

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.	False	Refer to job narrative for details
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: 280-63460-1

Login Number: 63460
List Number: 2
Creator: Robison, Zachary J

List Source: TestAmerica Buffalo
List Creation: 12/12/14 01:40 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	2.7 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

APPENDIX C

2014 ANNUAL TIME SERIES, TREND TEST, AND PREDICTION LIMIT EVALUATION

Olympic View Sanitary Landfill

Annual Statistical Evaluation & Summary

2014 Monitoring Year

Prepared for:

SCS ENGINEERS

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Bellevue, Washington 98005
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Prepared by:

GeoChem Applications
Geochemical and Statistical Data Analysis

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MARCH 2015

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1. Statistical Trend Analysis

- Trend Results Summary Table (showing status through Q4 2014) (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 2014 REPORT

Trend Test Period: January 2005 through December 2014

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)
Barium, dissolved	None	MW-15R (graph 113) MW-19C (graph 115) MW-24 (graph 118) MW-29A (graph 119) MW-36A (graph 127)
Beryllium, dissolved	None	None
Cadmium, dissolved	None	None
Chromium, dissolved	MW-34A (graph 234) MW-36A (graph 237)	None
Cobalt, dissolved	None	None
Copper, dissolved	None	None
Lead, dissolved	None	None
Nickel, dissolved	None	None
Selenium, dissolved	None	None
Silver, dissolved	None	None
Thallium, dissolved	None	None
Vanadium, dissolved	None	MW-36A (graph 677)
Zinc, dissolved	None	None
Nitrate (as N)	MW-35 (graph 412) MW-36A (graph 413)	None
pH	MW-16 (graph 422) 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-20 (graph 578) MW-2B1 (graph 582) MW-32 (graph 583) MW-34A (graph 586) MW-34C (graph 587)	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-34C (graph 191) MW-36A (graph 193) MW-9 (graph 198)
Bicarbonate Alkalinity (as CaCO3)	MW-13A (graph 1) MW-13B (graph 2) MW-35 (graph 16)	MW-15R (graph 3) MW-23A (graph 7) MW-24 (graph 8) MW-36A (graph 17)
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) MW-36A (graph 347)

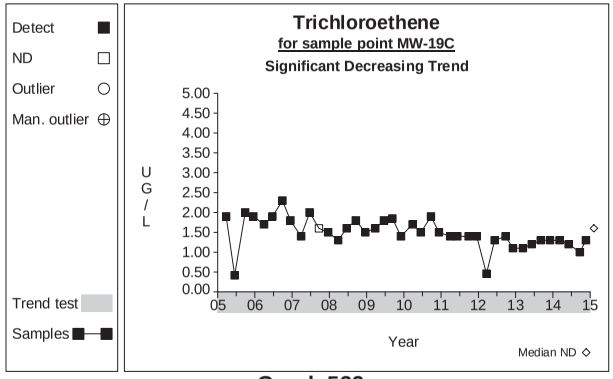
TABLE 1-1

Sulfate	MW-20 (graph 556) MW-24 (graph 558)	MW-13A (graph 551) MW-13B (graph 552) MW-19C (graph 555) MW-23A (graph 557) MW-34A (graph 564) 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-34A (graph 520) MW-34C (graph 521)
Chloride	None	MW-15R (graph 201) 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-36A (graph 215) MW-4 (graph 217)
Potassium, dissolved	MW-42 (graph 460)	None
Total Alkalinity as CaCO3	MW-13A (graph 23) MW-13B (graph 24) MW-35 (graph 38)	MW-15R (graph 25) MW-23A (graph 29) MW-24 (graph 30) 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)
Ammonia (as N)	None	MW-29A (graph 53)
Total Organic Carbon	None	None

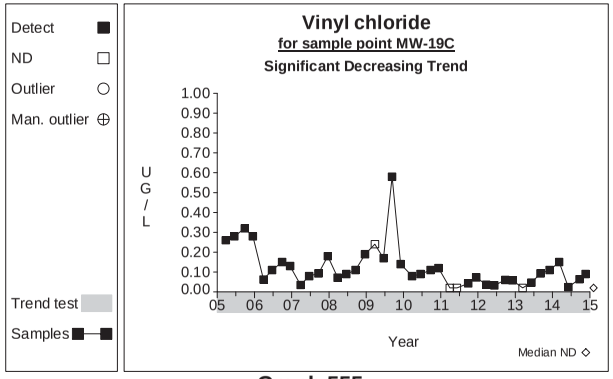
TABLE 1-1

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)

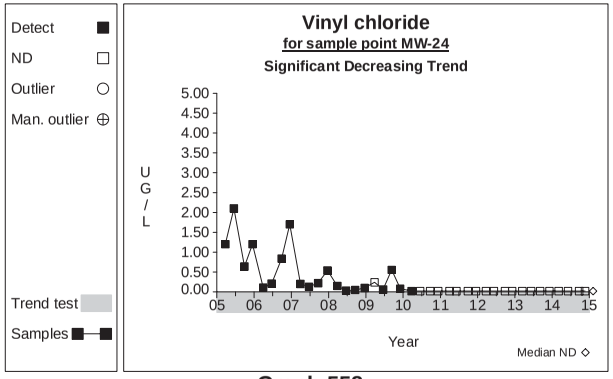
Time Series



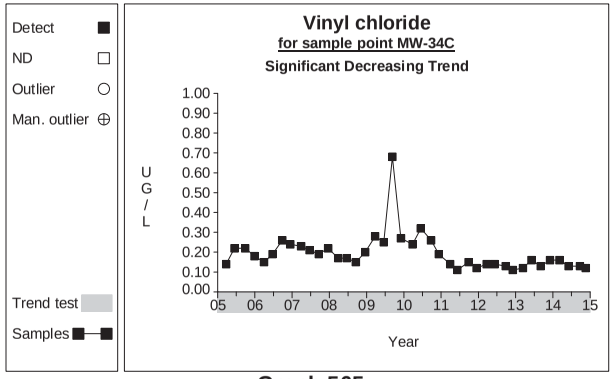
Graph 533



Graph 555

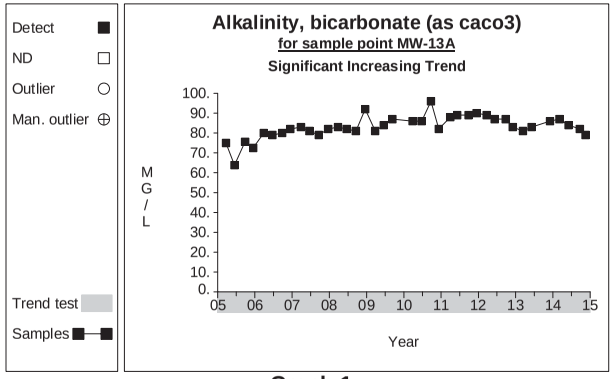


Graph 558

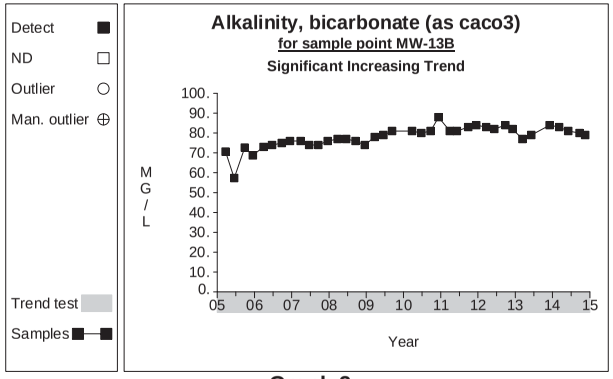


Graph 565

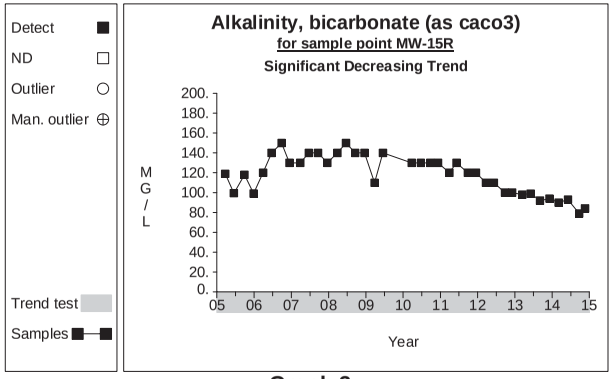
Time Series



Graph 1



Graph 2



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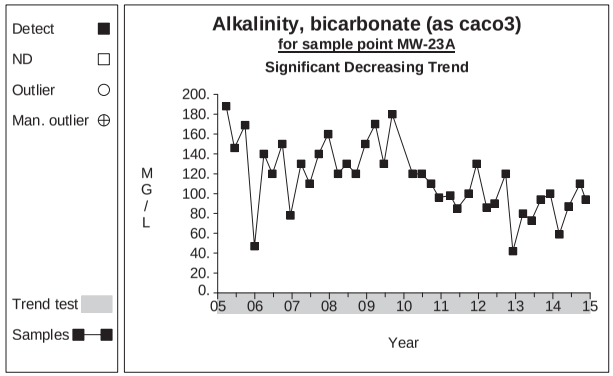
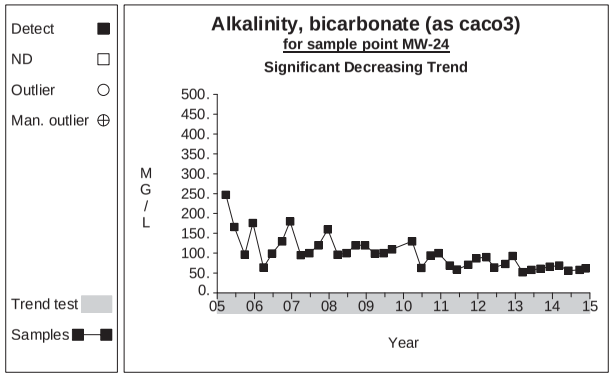
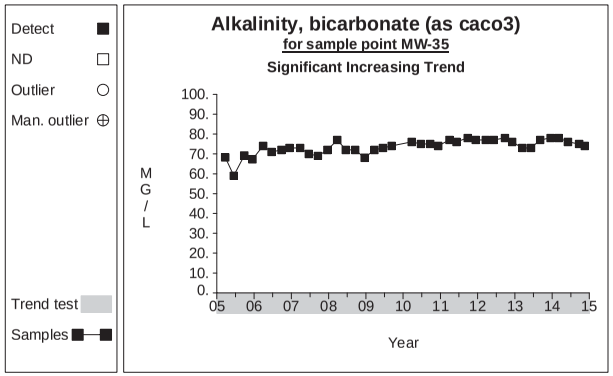


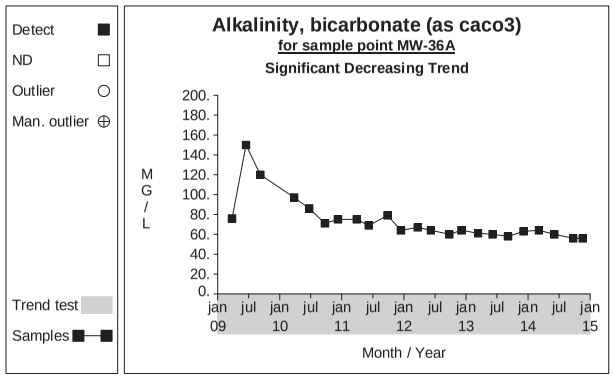
Graph 7



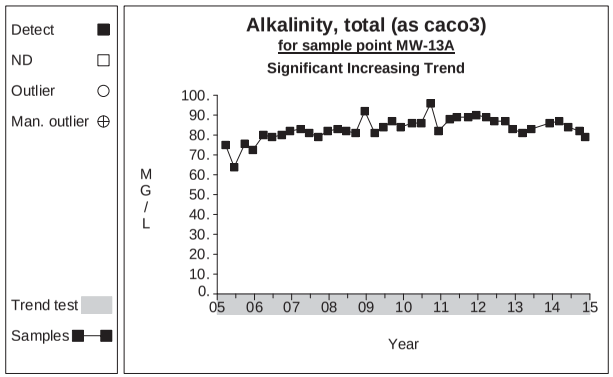
Graph 8



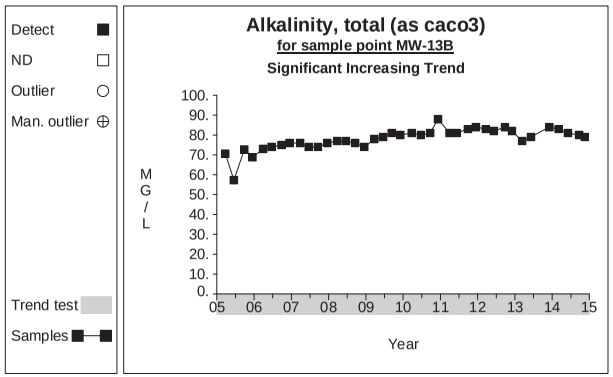
Graph 16



Graph 17

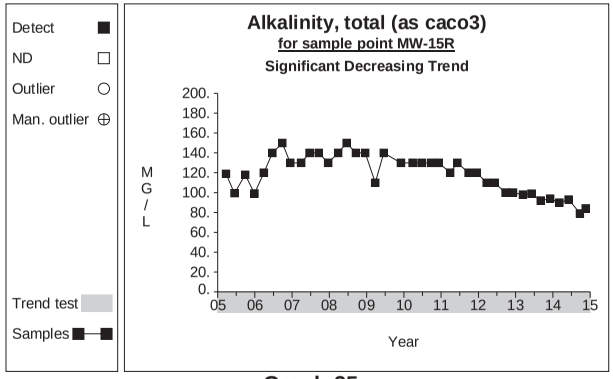


Graph 23

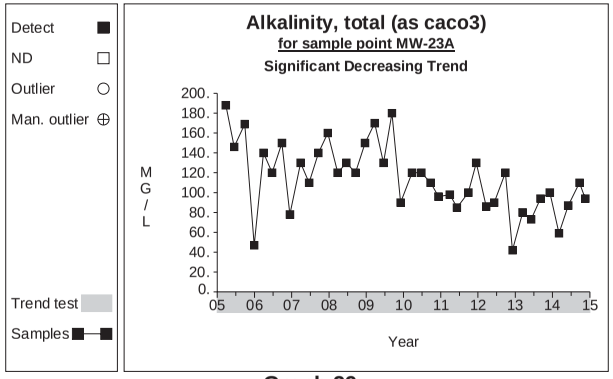


Graph 24

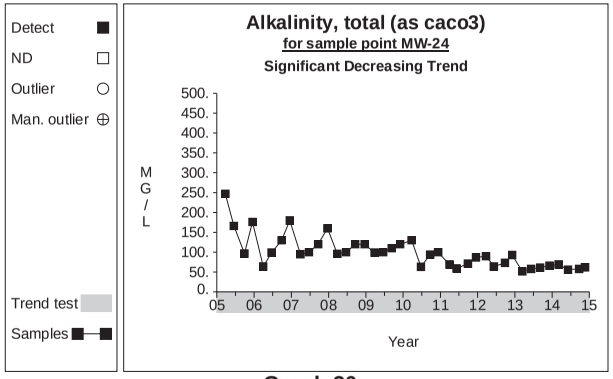
Time Series



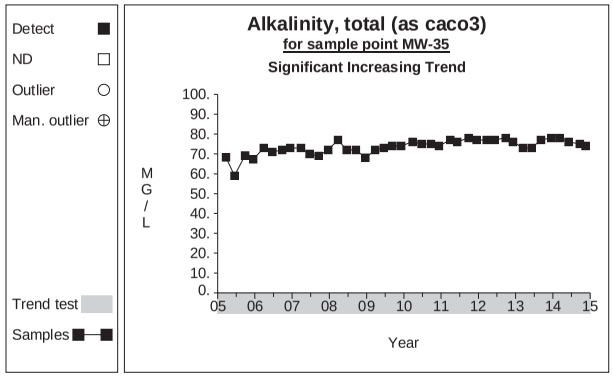
Graph 25



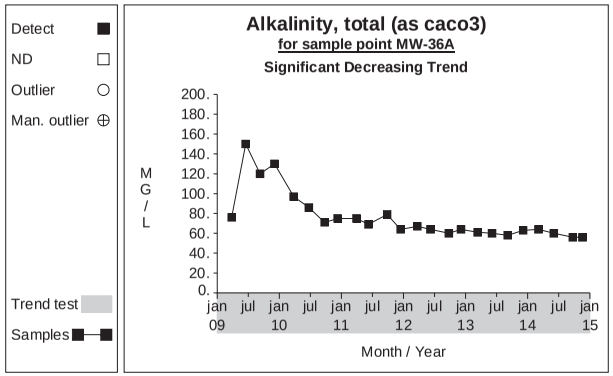
Graph 29



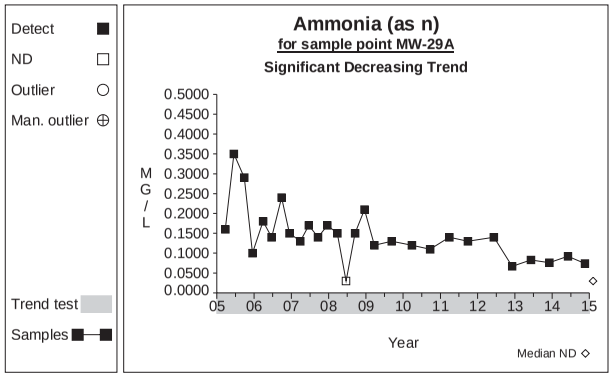
Graph 30



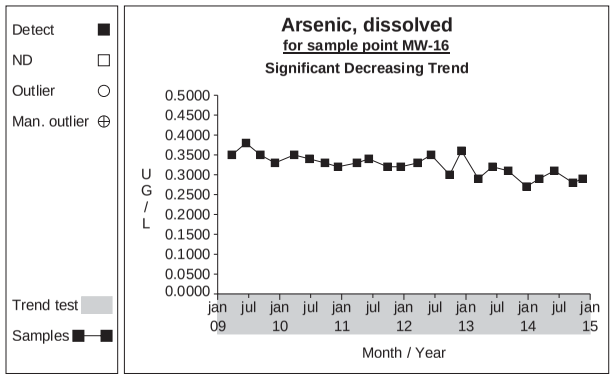
Graph 38



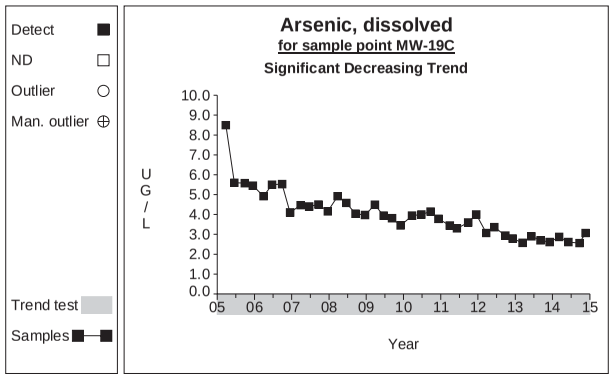
Graph 39



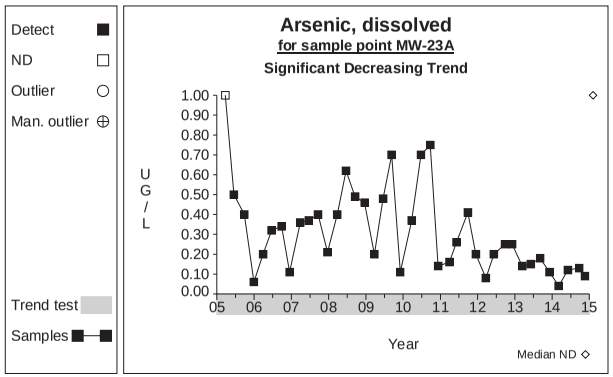
Graph 53



Graph 92

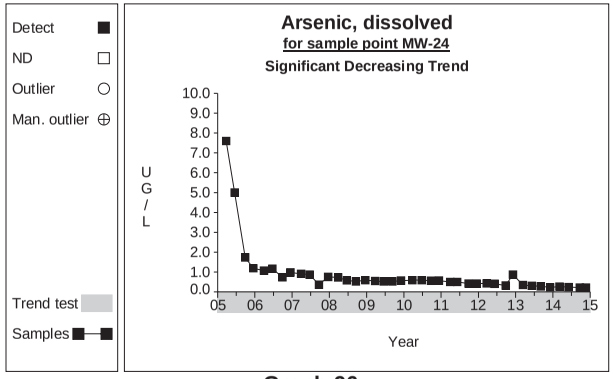


Graph 93

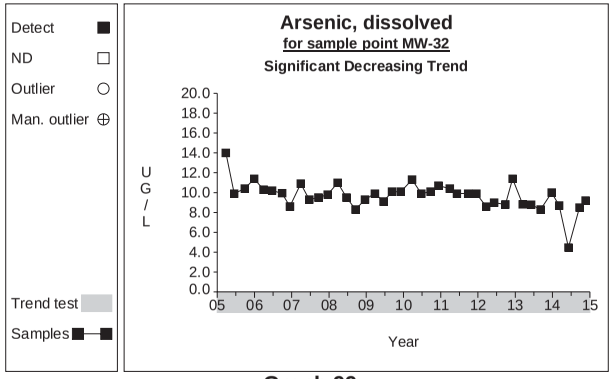


Graph 95

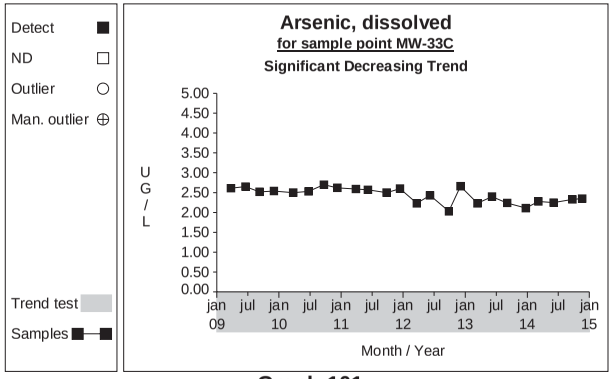
Time Series



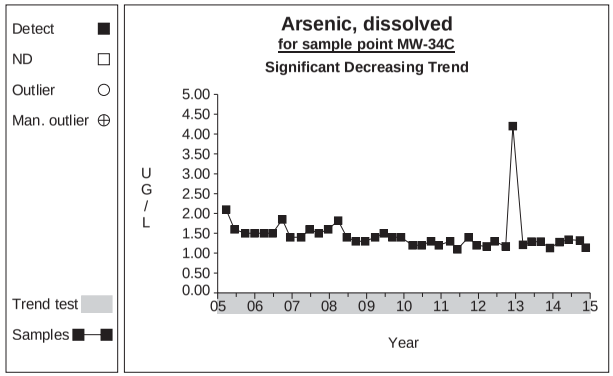
Graph 96



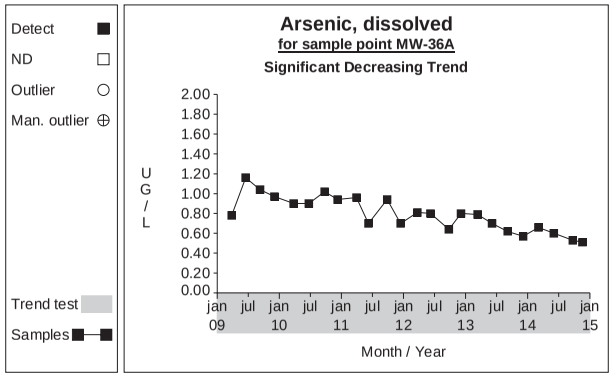
Graph 99



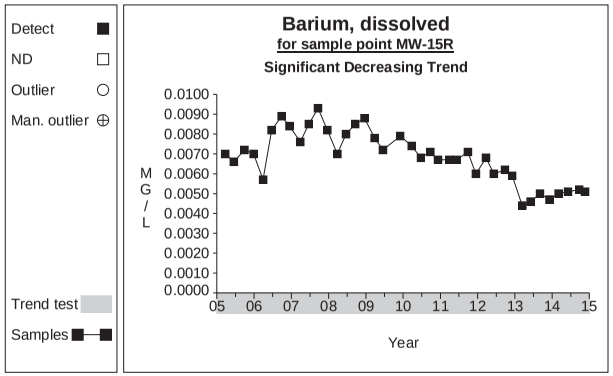
Graph 101



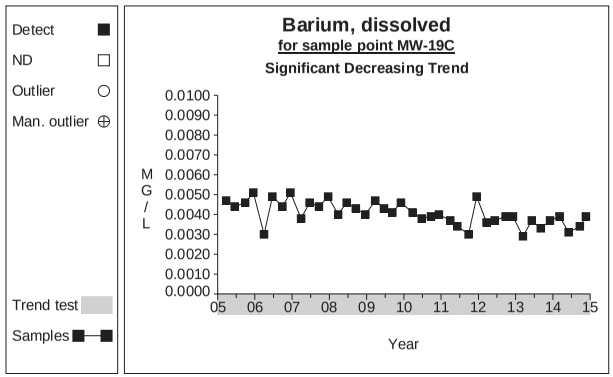
Graph 103



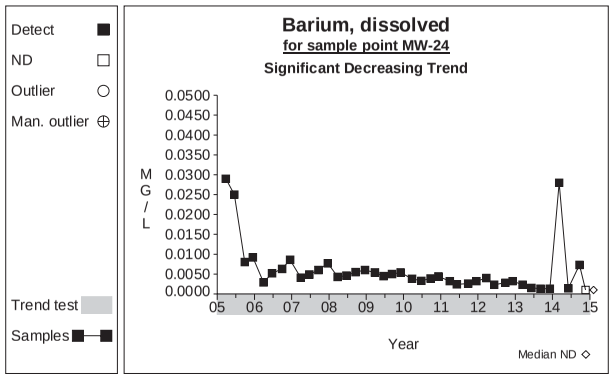
Graph 105



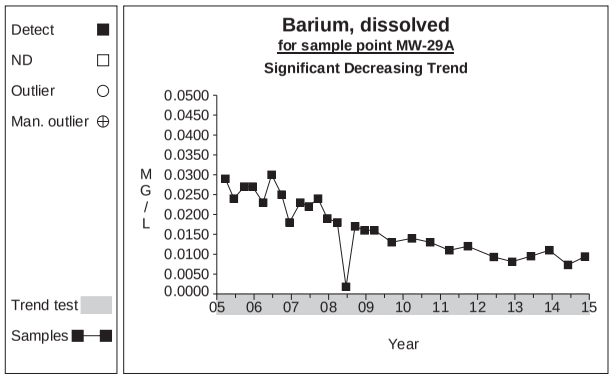
Graph 113



Graph 115

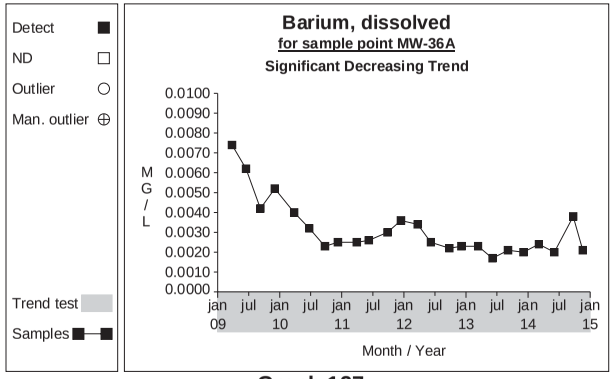


Graph 118

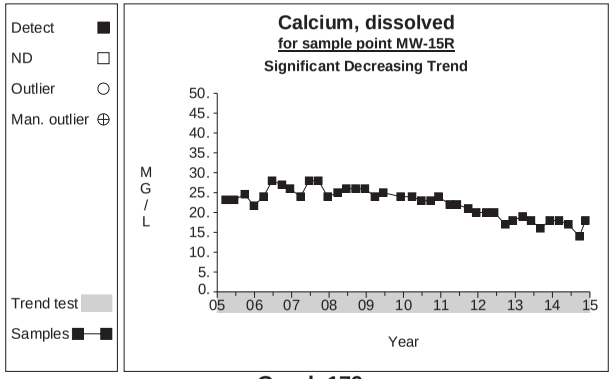


Graph 119

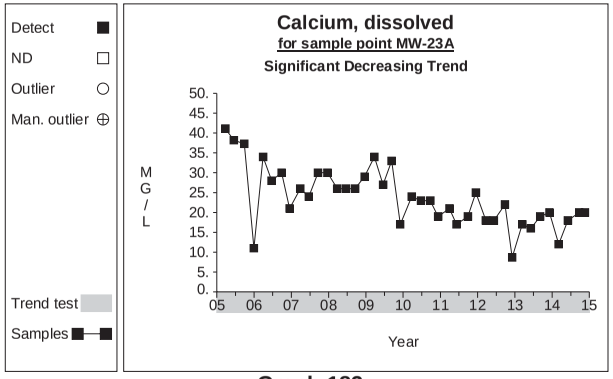
Time Series



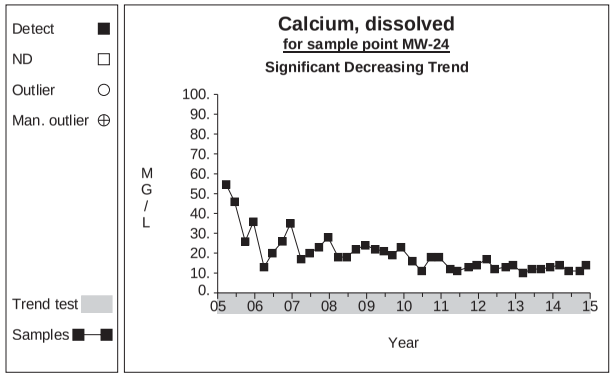
Graph 127



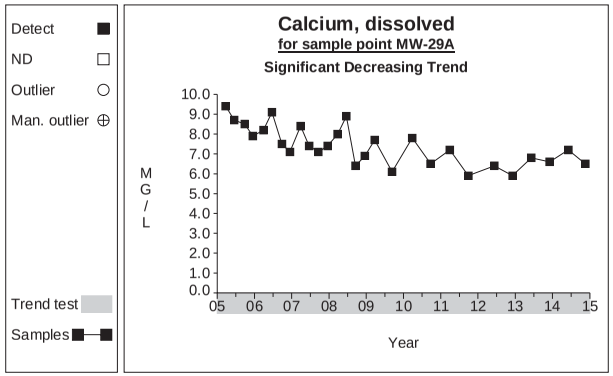
Graph 179



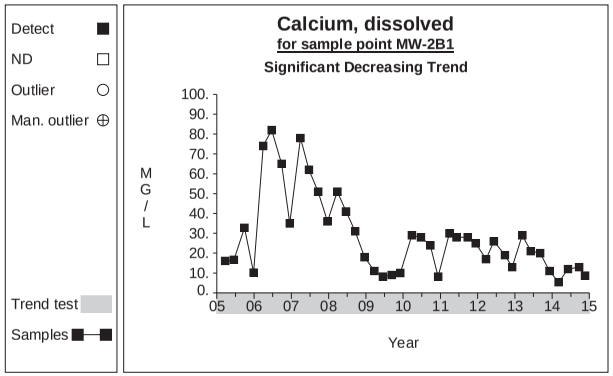
Graph 183



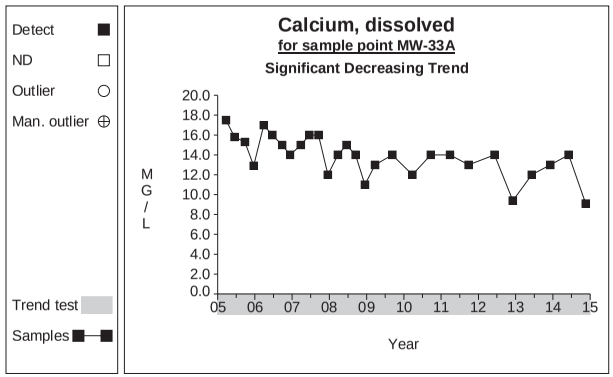
Graph 184



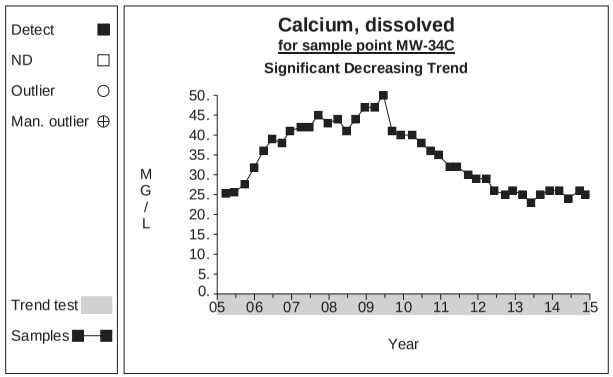
Graph 185



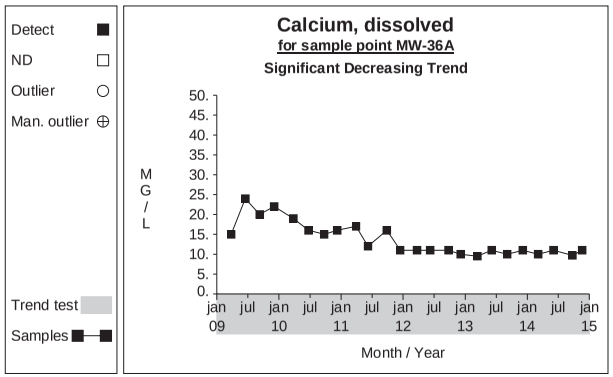
Graph 186



Graph 188

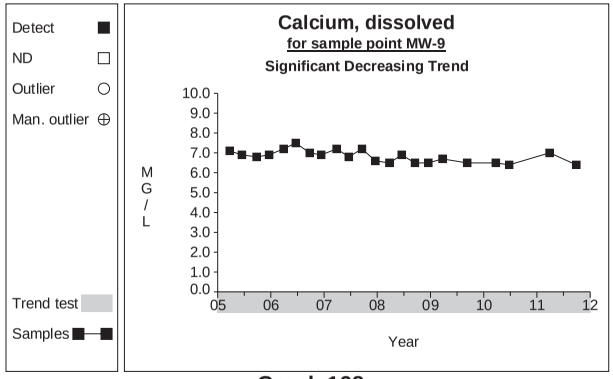


Graph 191

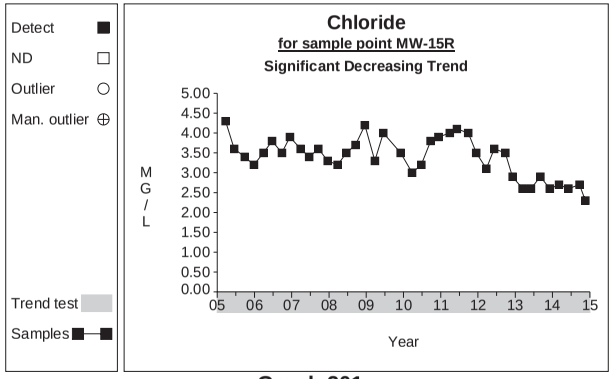


Graph 193

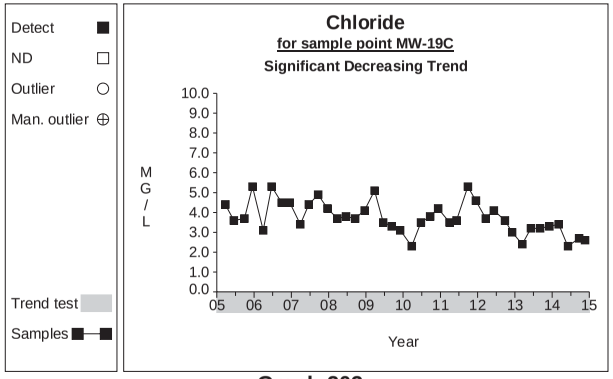
Time Series



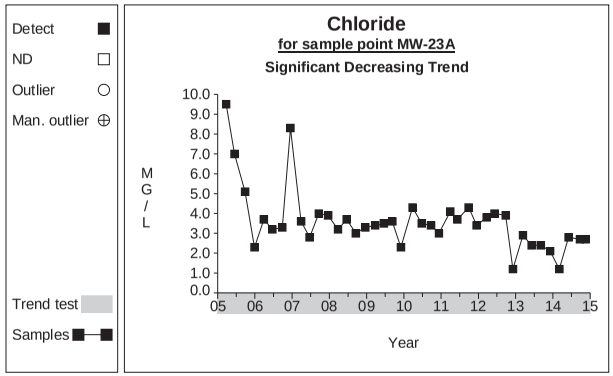
Graph 198



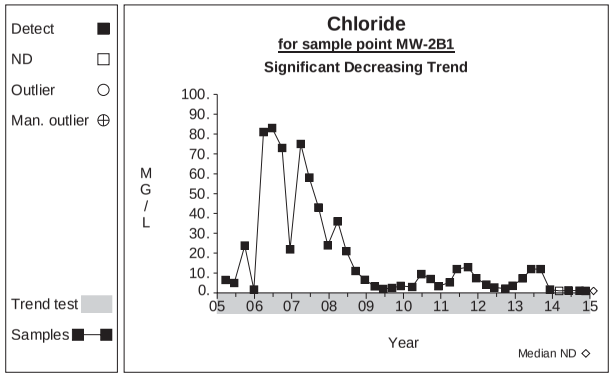
Graph 201



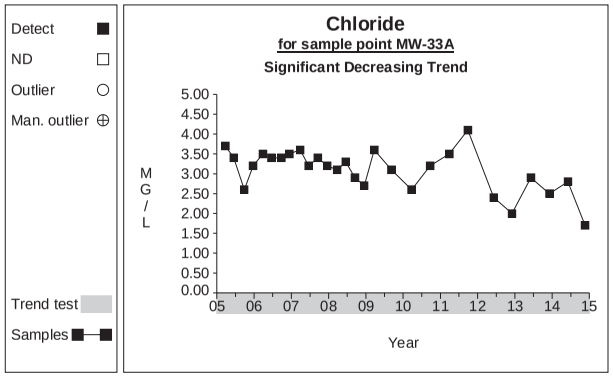
Graph 203



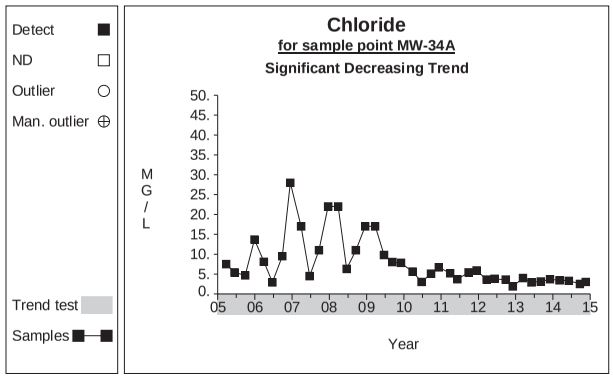
Graph 205



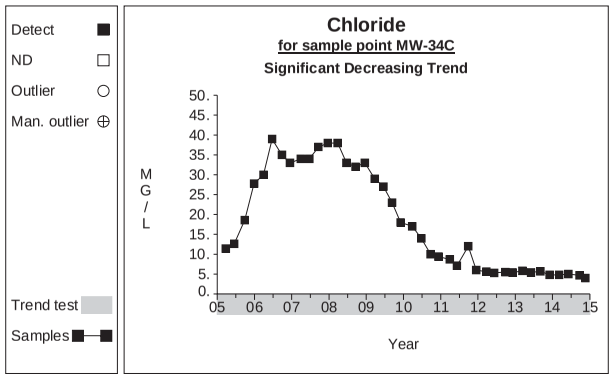
Graph 208



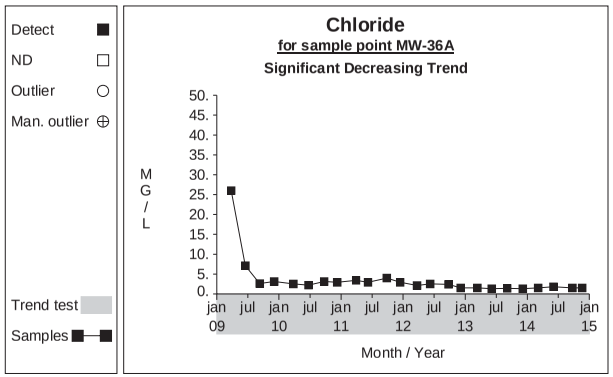
Graph 210



Graph 212

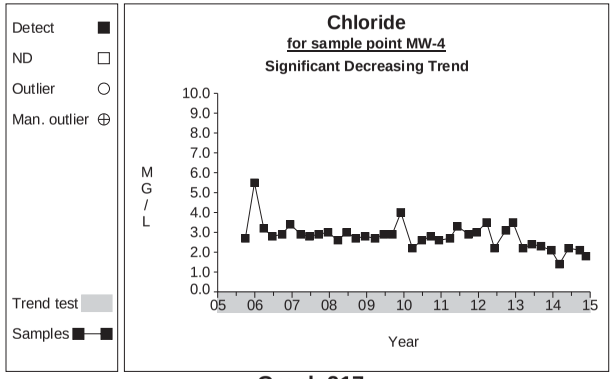


Graph 213

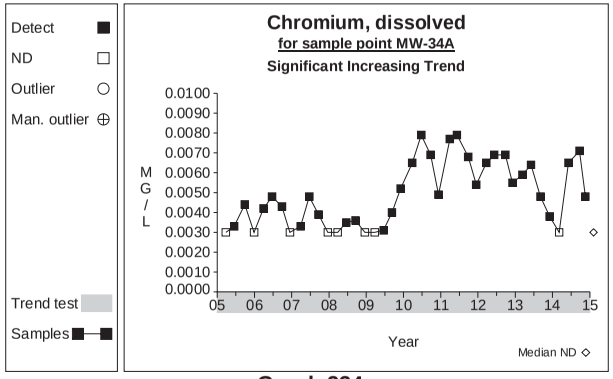


Graph 215

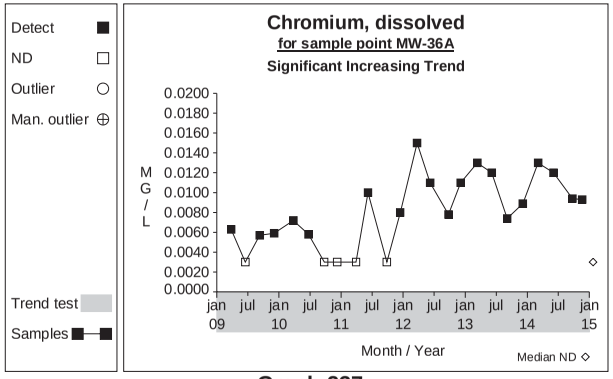
Time Series



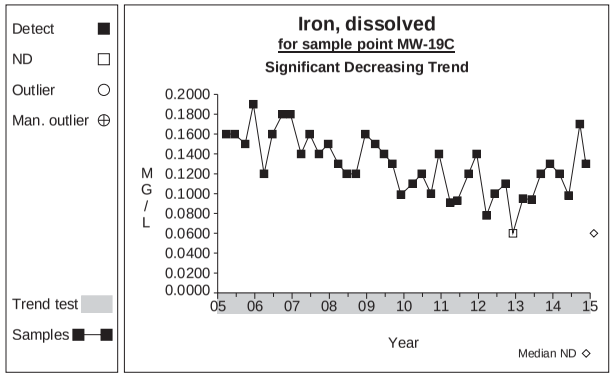
Graph 217



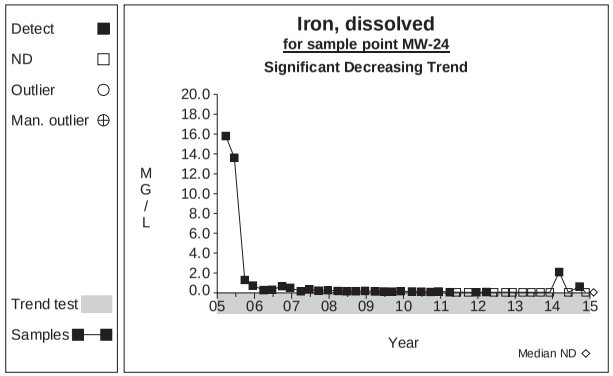
Graph 234



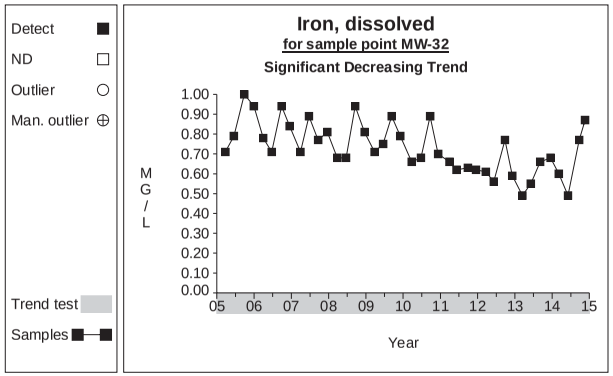
Graph 237



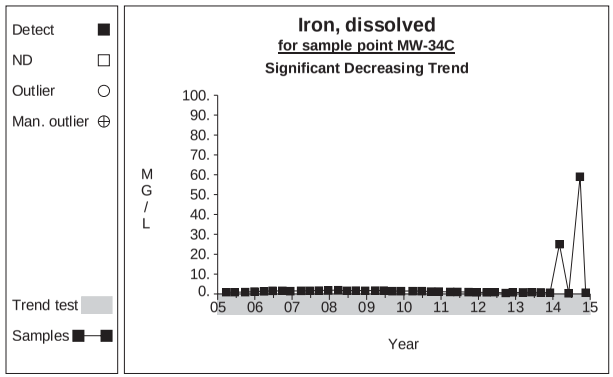
Graph 291



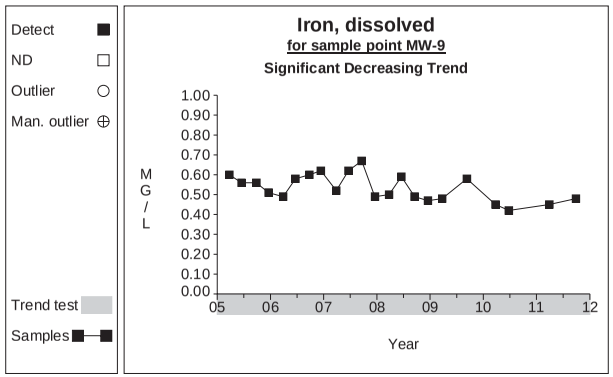
Graph 294



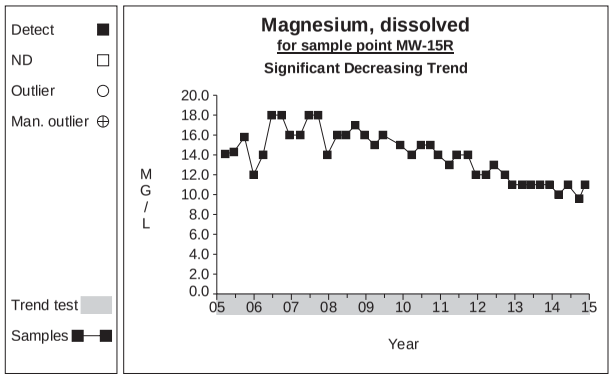
Graph 297



Graph 301

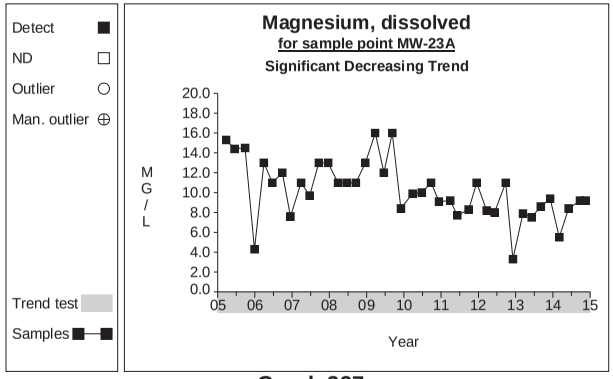


Graph 308

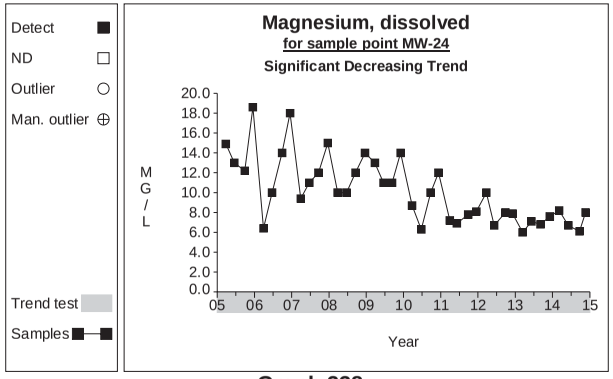


Graph 333

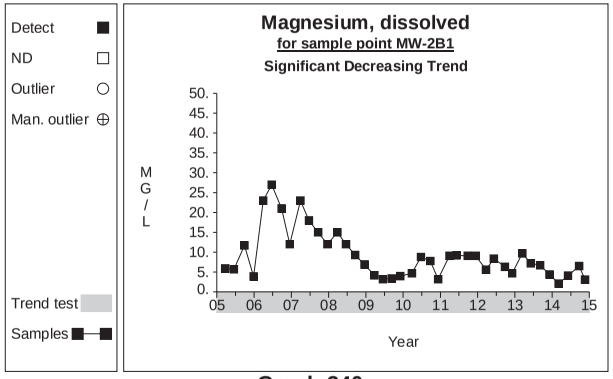
Time Series



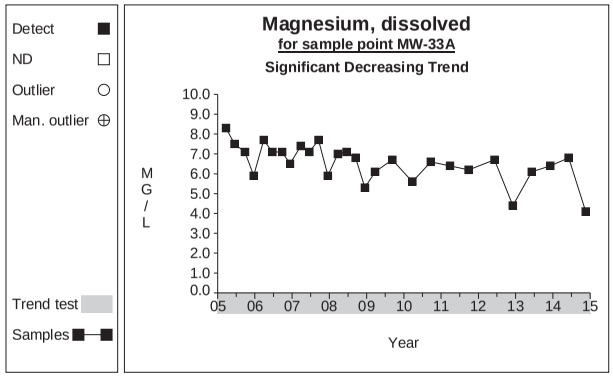
Graph 337



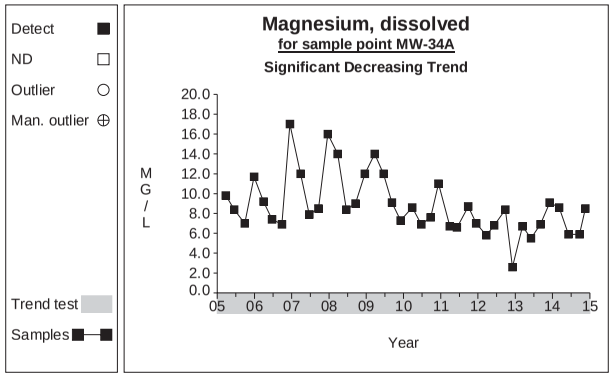
Graph 338



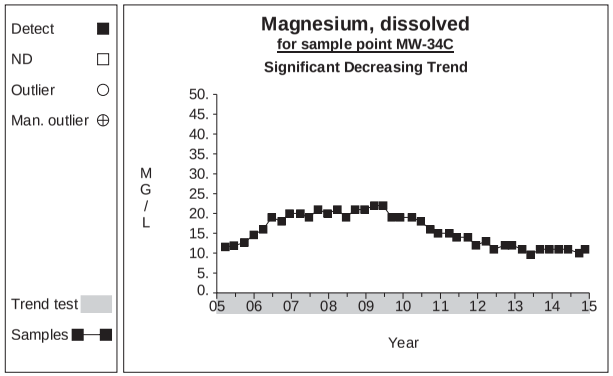
Graph 340



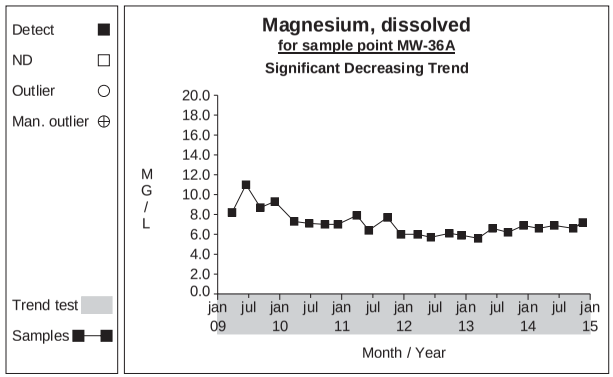
Graph 342



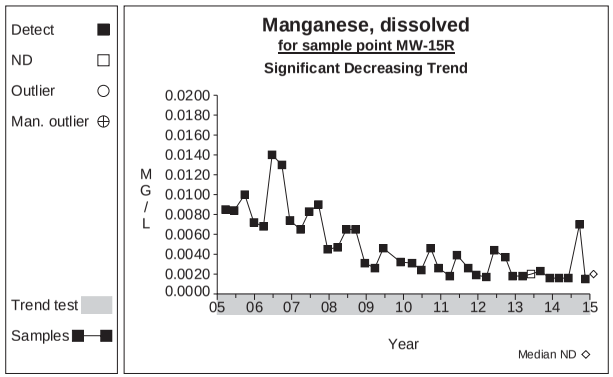
Graph 344



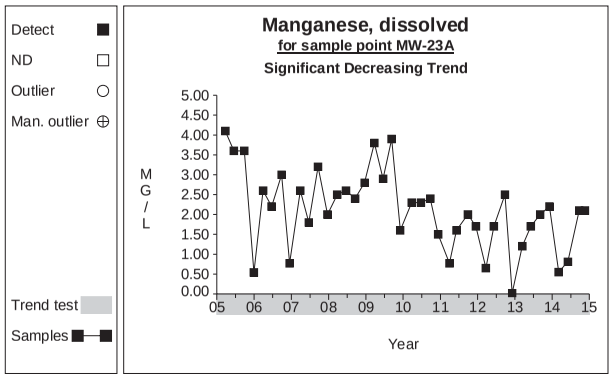
Graph 345



Graph 347

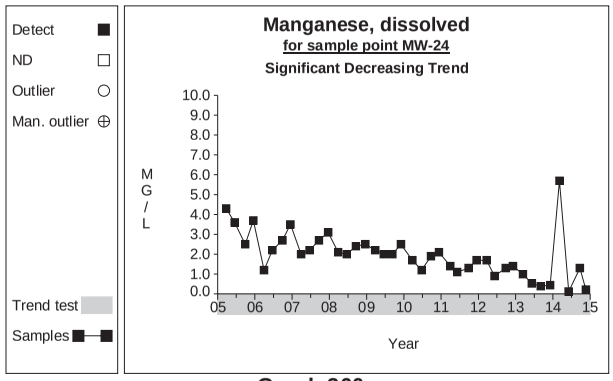


Graph 355

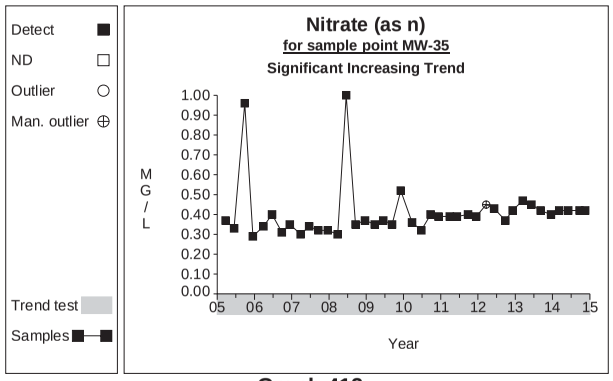


Graph 359

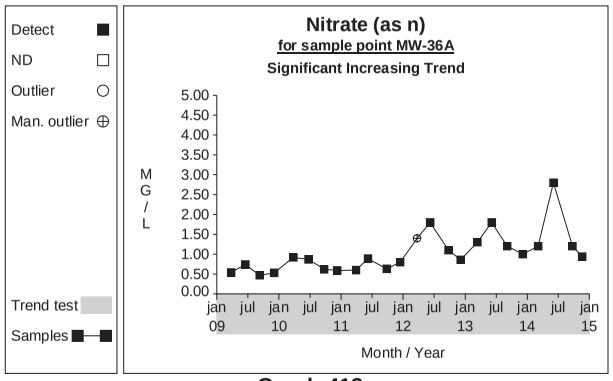
Time Series



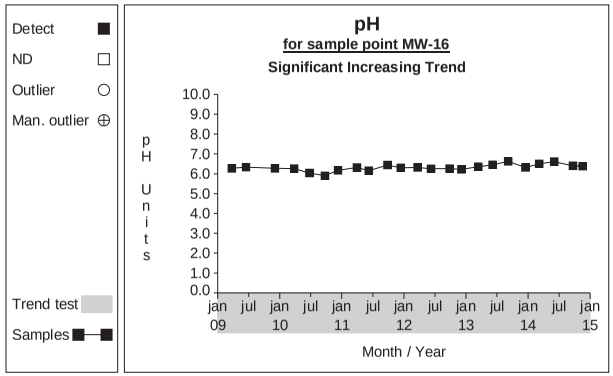
Graph 360



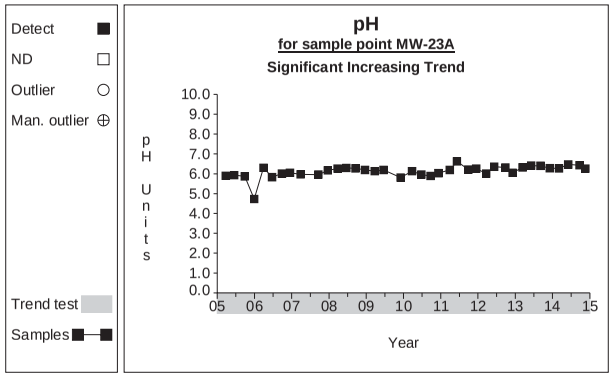
Graph 412



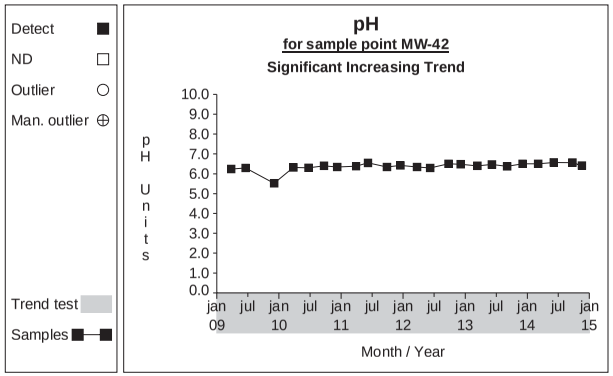
Graph 413



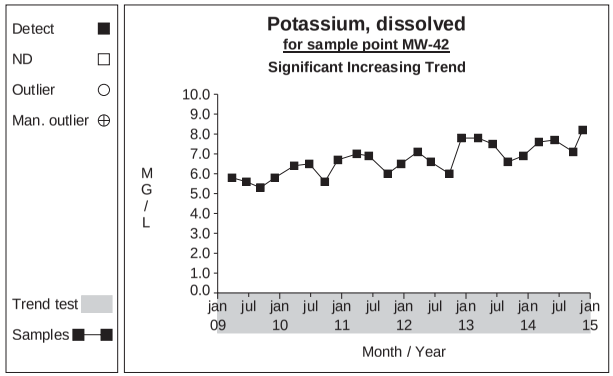
Graph 422



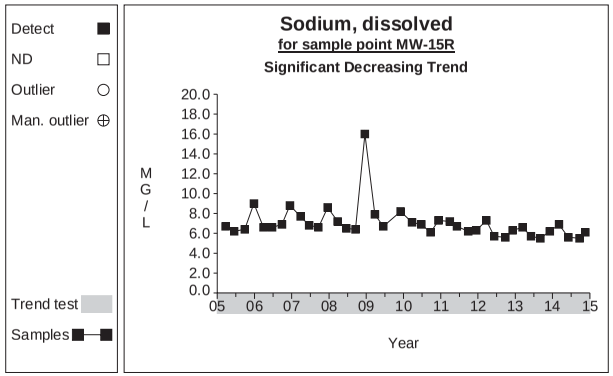
Graph 425



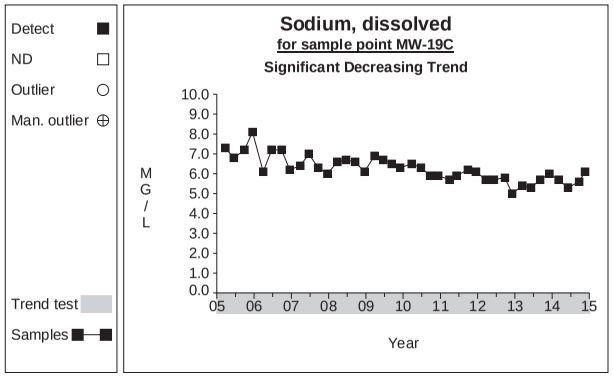
Graph 438



Graph 460

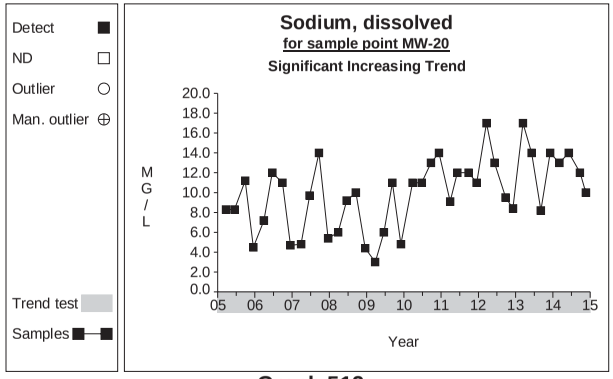


Graph 509

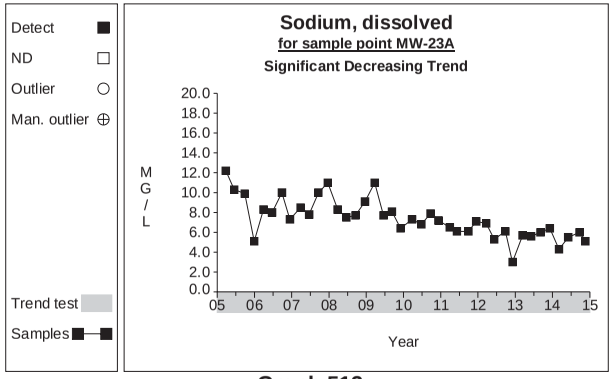


Graph 511

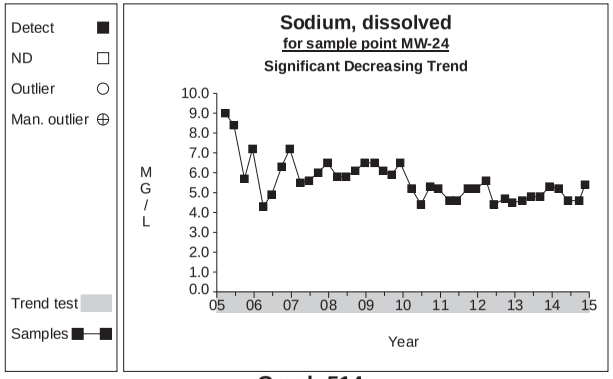
Time Series



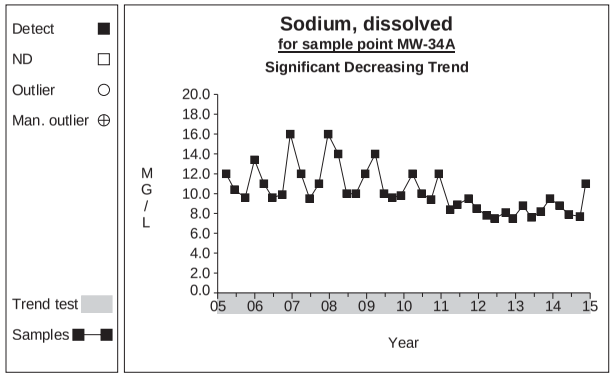
Graph 512



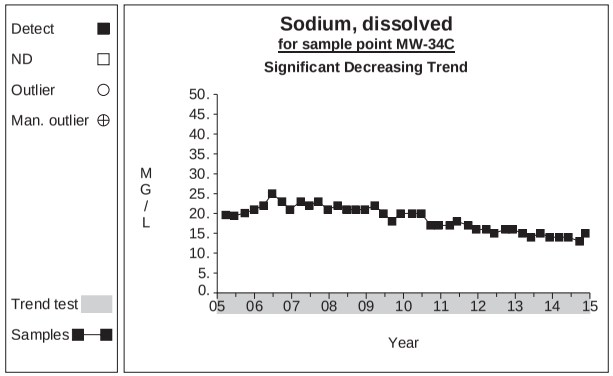
Graph 513



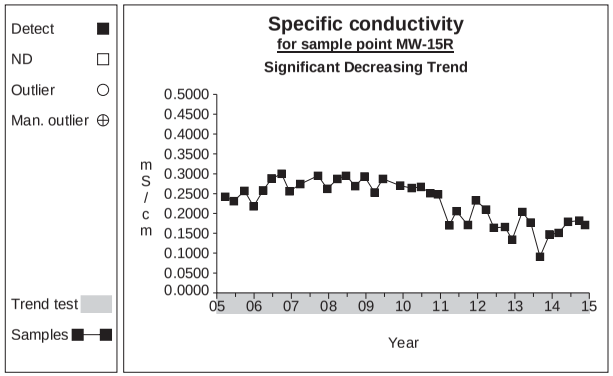
Graph 514



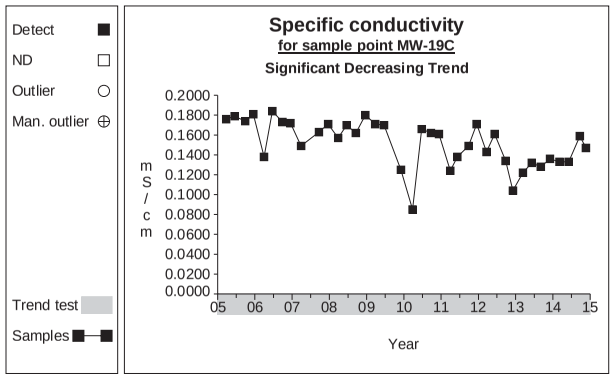
Graph 520



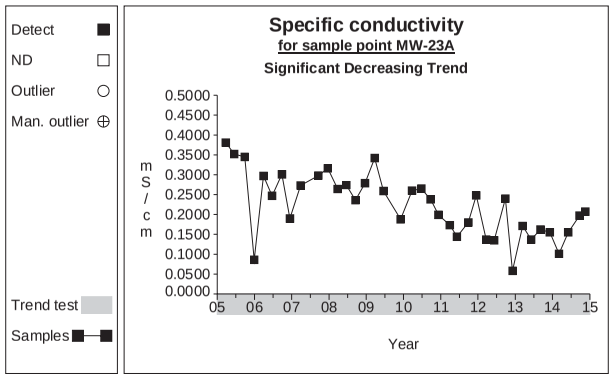
Graph 521



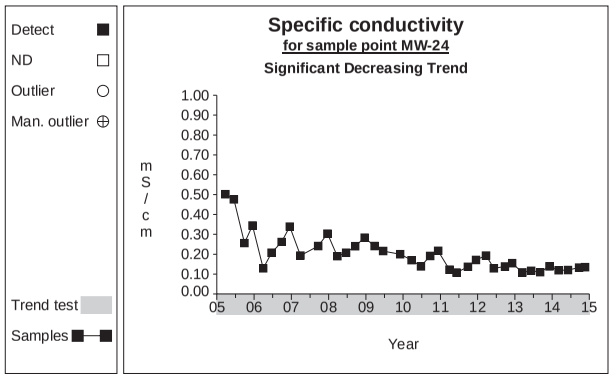
Graph 531



Graph 533

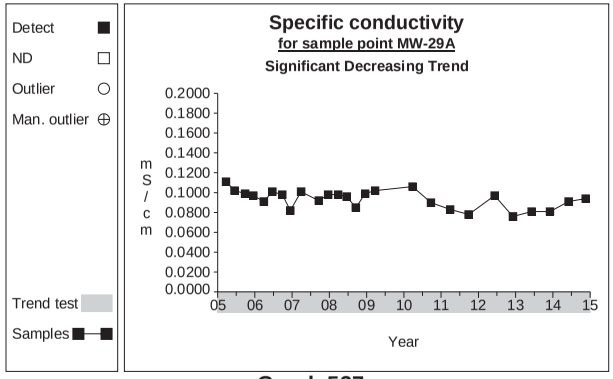


Graph 535

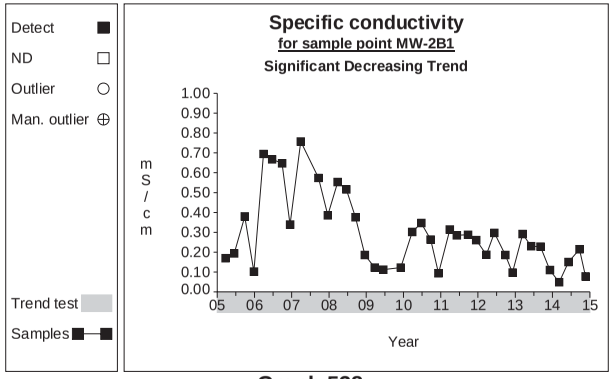


Graph 536

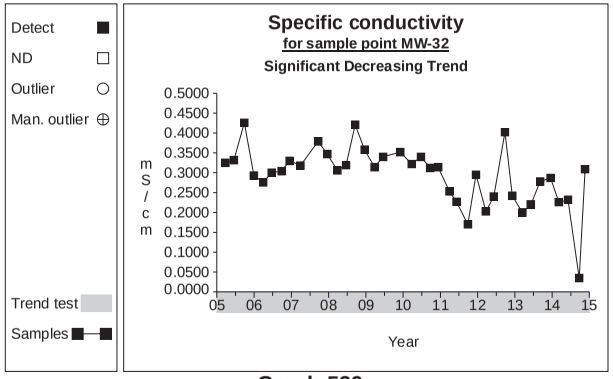
Time Series



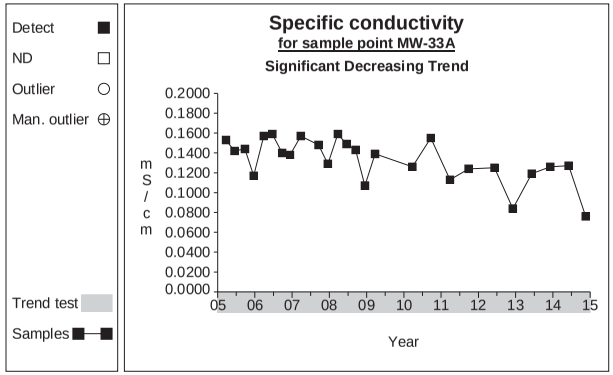
Graph 537



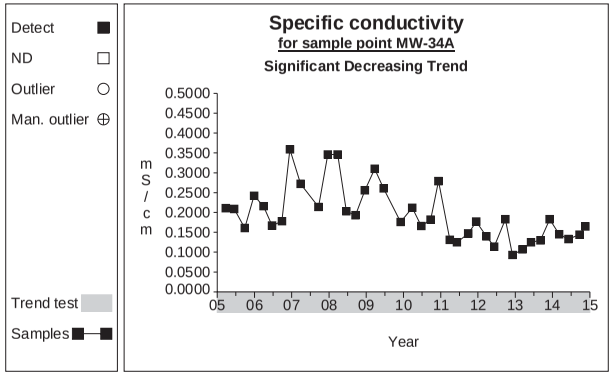
Graph 538



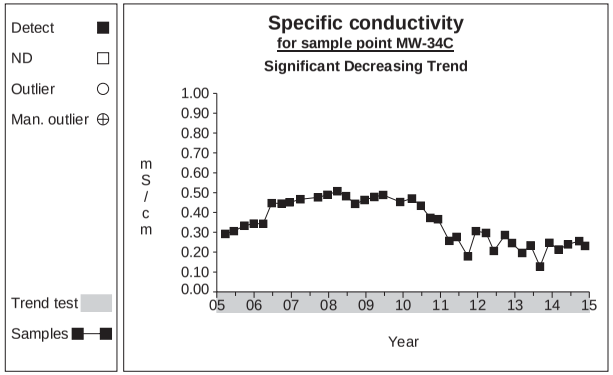
Graph 539



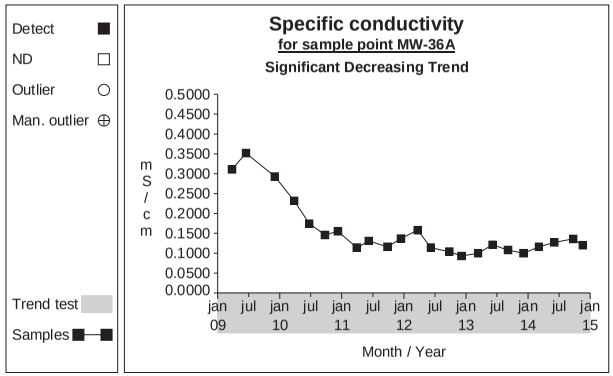
Graph 540



Graph 542



Graph 543



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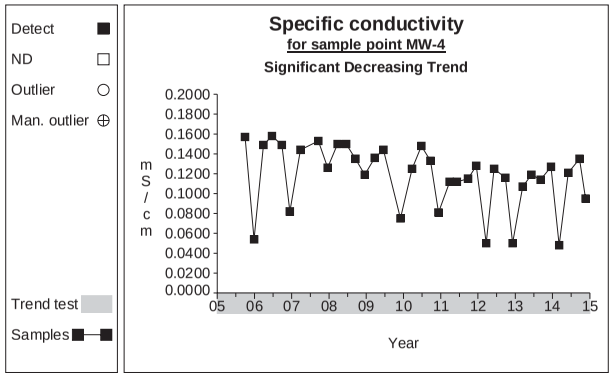
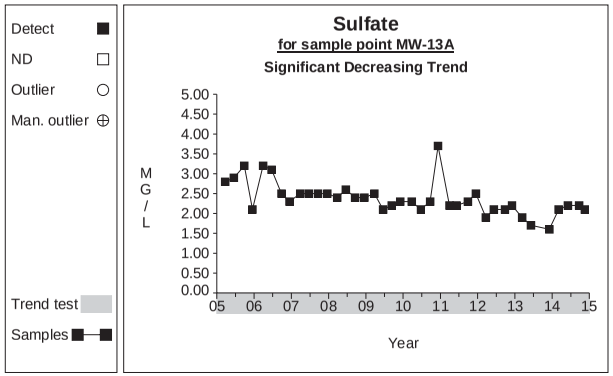
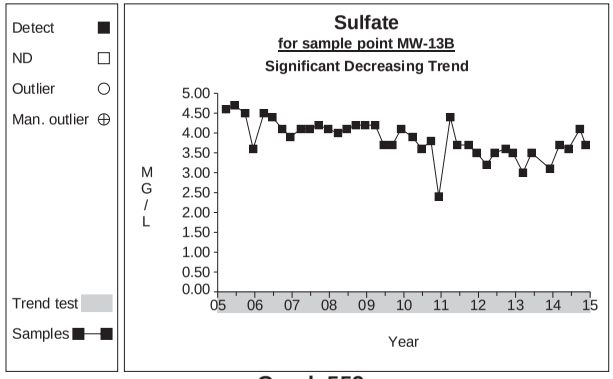


Graph 547



Graph 551

Time Series



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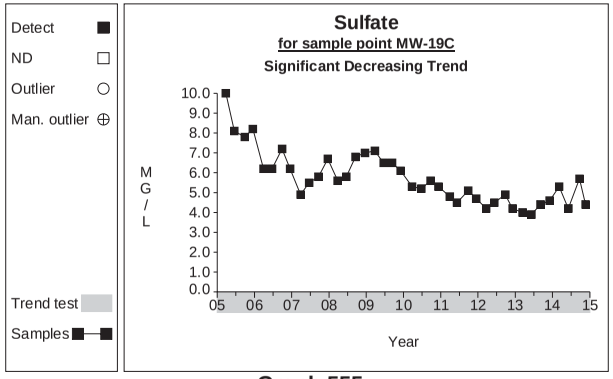
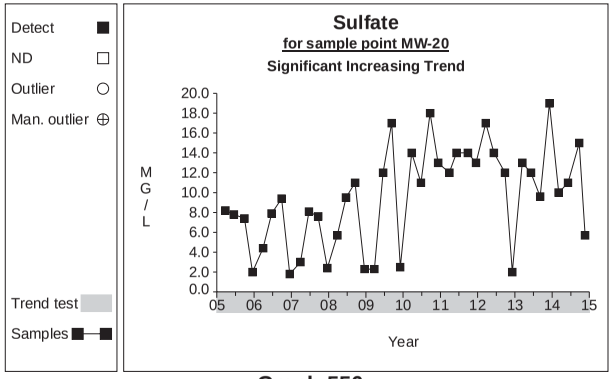


Graph 555



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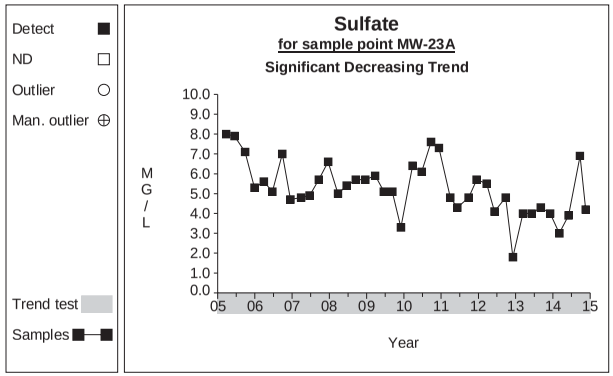
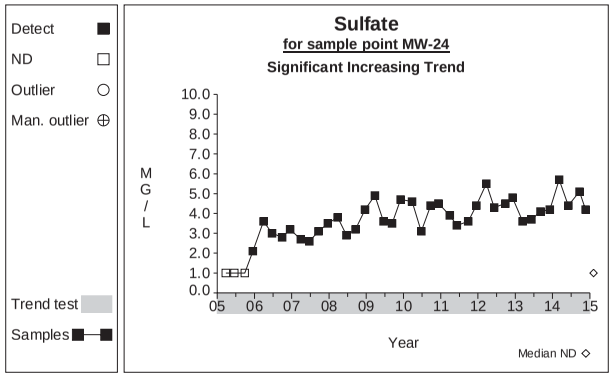
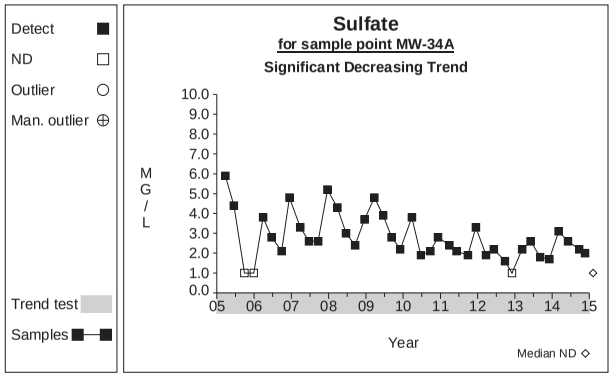


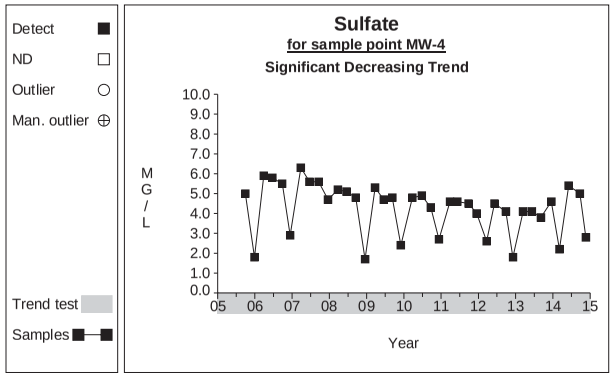
Graph 557



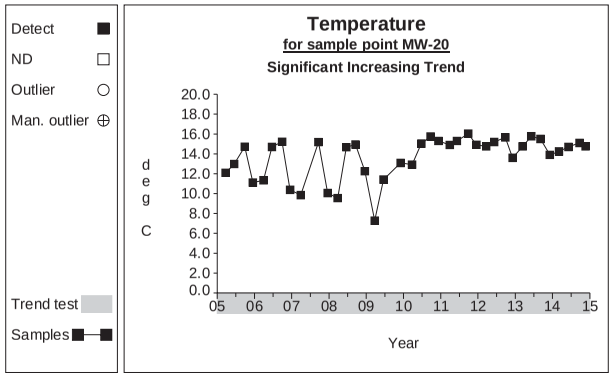
Graph 558



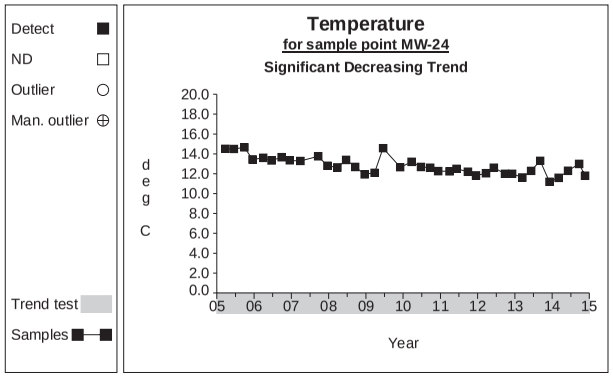
Graph 564



Graph 569

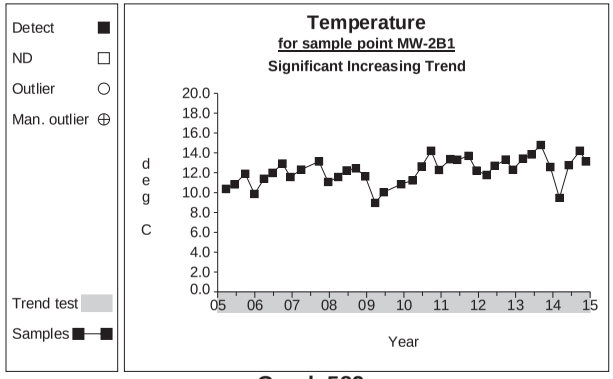


Graph 578

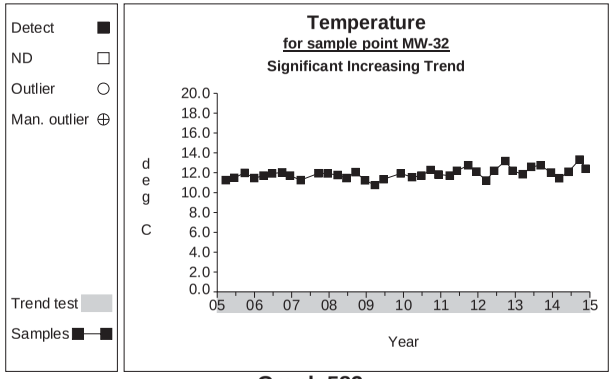


Graph 580

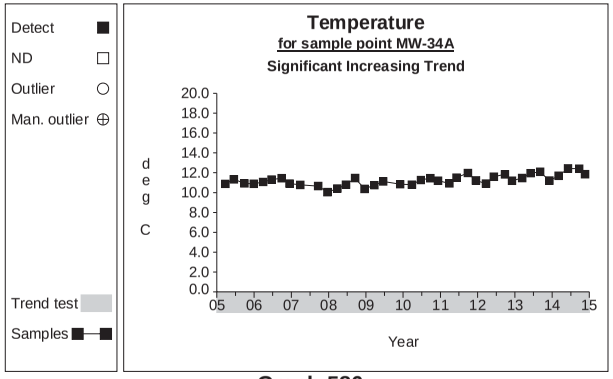
Time Series



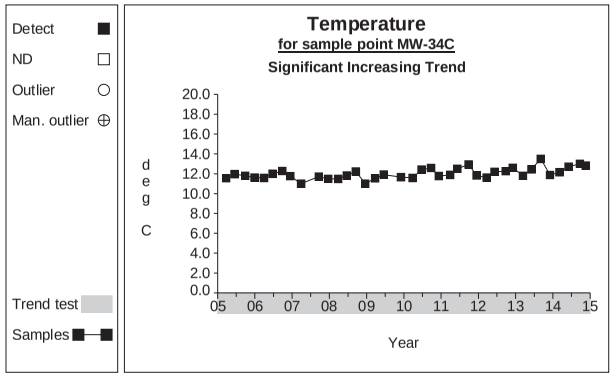
Graph 582



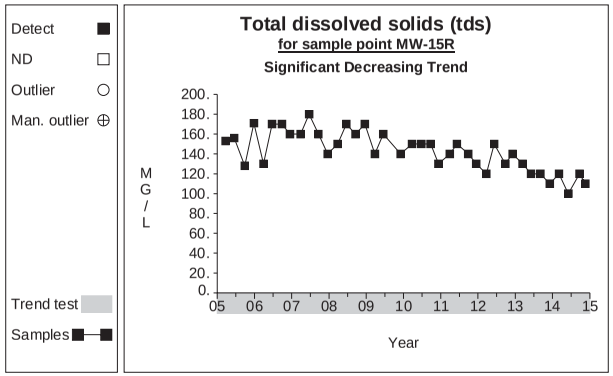
Graph 583



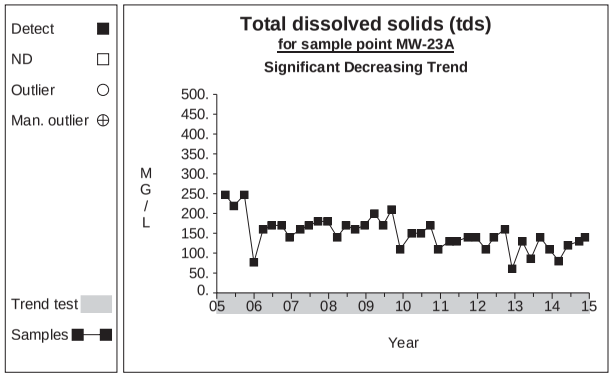
Graph 586



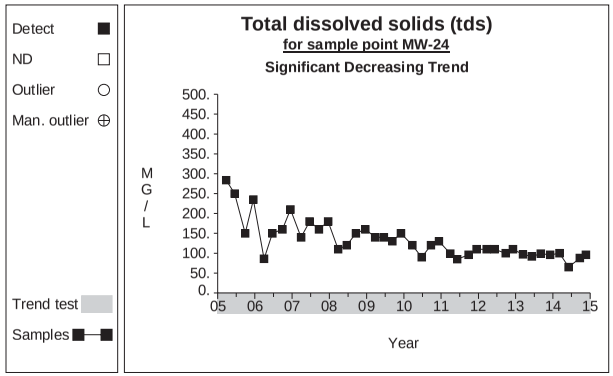
Graph 587



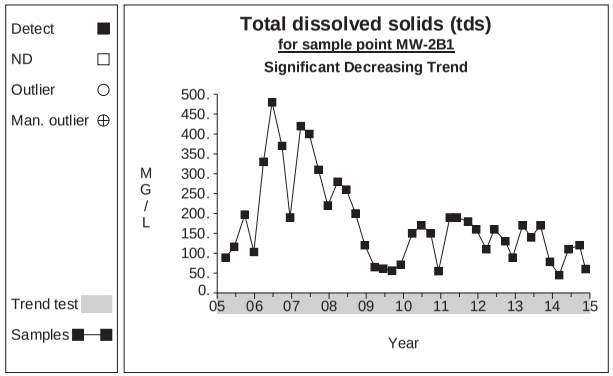
Graph 619



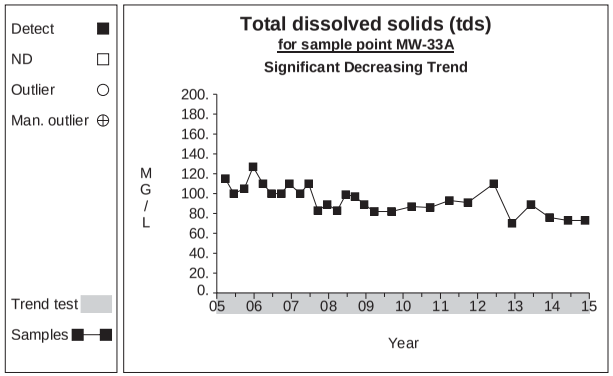
Graph 623



Graph 624

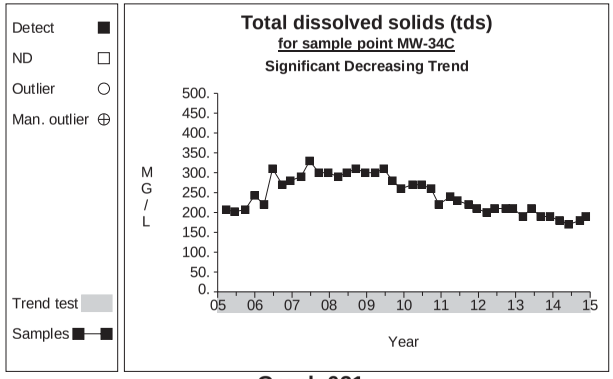


Graph 626

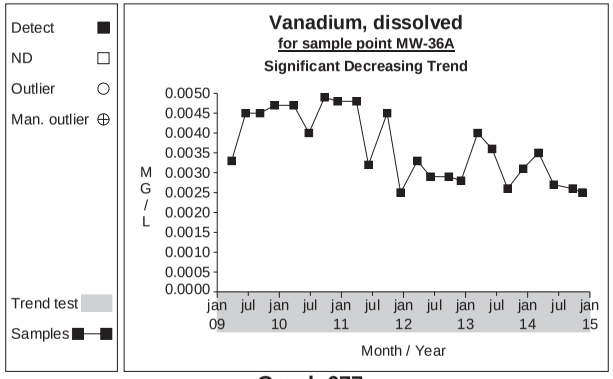


Graph 628

Time Series



Graph 631



Graph 677

2. Prediction Limits for Detection Monitoring

- 2014 Prediction Limits and Q4 2014 Exeedance Summary Table (Table 2-1)
- Updated Prediction Limits for Use During 2015 Monitoring Year (Table 2-2)
- Upgradient Data used in 2015 Prediction Limit Calculations (Table 2-3)
- Results of Shapiro-Wilk Test for Normality for 2015 Upgradient Data (Table 2-4)
- Comparison of 2014 Prediction Limits with 2015 Prediction Limits (Table 2-5)

TABLE 2-1
SUMMARY OF CURRENT PREDICTION LIMIT EXCEEDANCES
Q4 2014
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 2013
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-32	130	11/20/2014	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-34C	110	11/19/2014	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-39	98	11/18/2014	96
Alkalinity, bicarbonate (as caco3)	MG/L	MW-42	230	11/18/2014	96
Alkalinity, total (as caco3)	MG/L	MW-32	130	11/20/2014	96
Alkalinity, total (as caco3)	MG/L	MW-34C	110	11/19/2014	96
Alkalinity, total (as caco3)	MG/L	MW-39	98	11/18/2014	96
Alkalinity, total (as caco3)	MG/L	MW-42	230	11/18/2014	96
Ammonia (as n)	MG/L	MW-42	6.3	11/18/2014	0.340
Arsenic, dissolved	UG/L	MW-29A	1.53	11/18/2014	0.380
Arsenic, dissolved	UG/L	MW-32	9.2	11/20/2014	0.380
Arsenic, dissolved	UG/L	MW-33C	2.35	11/19/2014	0.380
Arsenic, dissolved	UG/L	MW-34A	0.4	11/19/2014	0.380
Arsenic, dissolved	UG/L	MW-34C	1.14	11/19/2014	0.380
Arsenic, dissolved	UG/L	MW-36A	0.51	11/19/2014	0.380
Arsenic, dissolved	UG/L	MW-39	1.16	11/18/2014	0.380
Arsenic, dissolved	UG/L	MW-42	1.6	11/18/2014	0.380
Barium, dissolved	MG/L	MW-29A	0.0094	11/18/2014	0.0052
Barium, dissolved	MG/L	MW-32	0.006	11/20/2014	0.0052
Barium, dissolved	MG/L	MW-34C	0.025	11/19/2014	0.0052
Barium, dissolved	MG/L	MW-39	0.013	11/18/2014	0.0052
Barium, dissolved	MG/L	MW-42	0.12	11/18/2014	0.0052
Barium, dissolved	MG/L	MW-43	0.0058	11/18/2014	0.0052
Calcium, dissolved	MG/L	MW-15R	18	11/19/2014	17.1
Calcium, dissolved	MG/L	MW-32	32	11/20/2014	17.1
Calcium, dissolved	MG/L	MW-33C	18	11/19/2014	17.1
Calcium, dissolved	MG/L	MW-34C	25	11/19/2014	17.1

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Calcium, dissolved	MG/L	MW-42	44	11/18/2014	17.1
Chloride	MG/L	MW-32	12	11/20/2014	4.00
Chloride	MG/L	MW-42	19	11/18/2014	4.00
Cobalt, dissolved	MG/L	MW-39	0.0065	11/18/2014	0.003
Cobalt, dissolved	MG/L	MW-42	0.0077	11/18/2014	0.003
Iron, dissolved	MG/L	MW-29A	3.7	11/18/2014	0.097
Iron, dissolved	MG/L	MW-32	0.87	11/20/2014	0.097
Iron, dissolved	MG/L	MW-33A	5.1	11/19/2014	0.097
Iron, dissolved	MG/L	MW-33C	0.38	11/19/2014	0.097
Iron, dissolved	MG/L	MW-34C	0.59	11/19/2014	0.097
Iron, dissolved	MG/L	MW-39	29	11/18/2014	0.097
Iron, dissolved	MG/L	MW-42	27	11/18/2014	0.097
Iron, dissolved	MG/L	MW-43	0.7	11/18/2014	0.097
Magnesium, dissolved	MG/L	MW-15R	11	11/19/2014	10.86
Magnesium, dissolved	MG/L	MW-32	16	11/20/2014	10.86
Magnesium, dissolved	MG/L	MW-34C	11	11/19/2014	10.86
Magnesium, dissolved	MG/L	MW-42	17	11/18/2014	10.86
Manganese, dissolved	MG/L	MW-29A	1.3	11/18/2014	0.014
Manganese, dissolved	MG/L	MW-32	2.4	11/20/2014	0.014
Manganese, dissolved	MG/L	MW-33A	0.11	11/19/2014	0.014
Manganese, dissolved	MG/L	MW-33C	0.2	11/19/2014	0.014
Manganese, dissolved	MG/L	MW-34C	1.3	11/19/2014	0.014
Manganese, dissolved	MG/L	MW-39	0.49	11/18/2014	0.014
Manganese, dissolved	MG/L	MW-42	5	11/18/2014	0.014
Manganese, dissolved	MG/L	MW-43	0.24	11/18/2014	0.014
pH	pH Units	MW-33A	5.65	11/19/2014	5.89 - 8.24
pH	pH Units	MW-34A	5.62	11/19/2014	5.89 - 8.24
pH	pH Units	MW-36A	5.88	11/19/2014	5.89 - 8.24
pH	pH Units	MW-43	5.61	11/18/2014	5.89 - 8.24
Potassium, dissolved	MG/L	MW-32	1.3	11/20/2014	1.00
Potassium, dissolved	MG/L	MW-33C	1.5	11/19/2014	1.00
Potassium, dissolved	MG/L	MW-34C	2.4	11/19/2014	1.00
Potassium, dissolved	MG/L	MW-36A	1.1	11/19/2014	1.00
Potassium, dissolved	MG/L	MW-42	8.2	11/18/2014	1.00
Sodium, dissolved	MG/L	MW-32	17	11/20/2014	6.20
Sodium, dissolved	MG/L	MW-34A	11	11/19/2014	6.20
Sodium, dissolved	MG/L	MW-34C	15	11/19/2014	6.20
Sodium, dissolved	MG/L	MW-36A	6.5	11/19/2014	6.20
Sodium, dissolved	MG/L	MW-39	6.9	11/18/2014	6.20
Sodium, dissolved	MG/L	MW-42	20	11/18/2014	6.20
Specific conductivity	mS/cm	MW-32	0.309	11/20/2014	0.18
Specific conductivity	mS/cm	MW-34C	0.232	11/19/2014	0.18
Specific conductivity	mS/cm	MW-39	0.213	11/18/2014	0.18
Specific conductivity	mS/cm	MW-42	0.573	11/18/2014	0.18
Sulfate	MG/L	MW-32	16	11/20/2014	9.90

Parameter	Unit	Well	Latest Result	Date Sampled	Prediction Limit
Sulfate	MG/L	MW-42	11	11/18/2014	9.90
Temperature	deg C	MW-32	12.4	11/20/2014	11.96
Temperature	deg C	MW-34C	12.83	11/19/2014	11.96
Temperature	deg C	MW-42	12.2	11/18/2014	11.96
Temperature	deg C	MW-43	12.1	11/18/2014	11.96
Total dissolved solids (tds)	MG/L	MW-32	220	11/20/2014	175
Total dissolved solids (tds)	MG/L	MW-34C	190	11/19/2014	175
Total dissolved solids (tds)	MG/L	MW-42	310	11/18/2014	175
Total organic carbon (toc)	MG/L	MW-42	7.9	11/18/2014	6.0

TABLE 2-2
STATISTICAL PREDICTION LIMITS UPDATED FOR 2015 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 2014 (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	138	138			96	0.99
Alkalinity, total (as $CaCO_3$)	MG/L	nonparametric	142	142			96	0.99
Ammonia (as N)	MG/L	nonparametric	139	73			0.340	0.99
Antimony, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Arsenic, dissolved	UG/L	nonparametric	139	139			0.380	0.99
Barium, dissolved	MG/L	nonparametric	142	141			0.0052	0.99
Beryllium, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Cadmium, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Calcium, dissolved	MG/L	nonparametric	142	142			17.10	0.99
Chloride	MG/L	nonparametric	142	141			4.40	0.99
Chromium, dissolved	MG/L	nonparametric	142	51			0.033	0.99
Cobalt, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Copper, dissolved	MG/L	nonparametric	142	4			0.0094	0.99
Iron, dissolved	MG/L	nonparametric	142	4			0.097	0.99
Lead, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Magnesium, dissolved	MG/L	normal	142	142	8.30	1.104	10.93	
Manganese, dissolved	MG/L	nonparametric	142	14			0.014	0.99
Nickel, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Nitrate (as N)	MG/L	nonparametric	138	138			1.80	0.99
pH	pH Units	normal	135	135	7.07	0.442	5.90 - 8.23	
Potassium, dissolved	MG/L	nonparametric	142	13			1.20	0.99
Selenium, dissolved	MG/L	nonparametric	142	4			0.0033	0.99
Silver, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Sodium, dissolved	MG/L	nonparametric	142	142			6.20	0.99
Specific conductivity	mS/cm	nonparametric	135	135			0.18	0.99
Sulfate	MG/L	nonparametric	142	141			9.90	0.99
Temperature	deg C	nonparametric	135	135			14.32	0.99
Thallium, dissolved	MG/L	nonparametric	142	0			Current RL*	0.99
Total dissolved solids (tds)	MG/L	nonparametric	142	142			175	0.99
Total organic carbon (toc)	MG/L	nonparametric	142	7			6.0	0.99
Vanadium, dissolved	MG/L	nonparametric	142	141			0.0066	0.99
Zinc, dissolved	MG/L	nonparametric	109	1			0.0096	0.99

[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-13B	03/22/2005		70.6000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/15/2005		57.3000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/27/2005		72.7000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/15/2005		68.8000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/29/2006		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/21/2006		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/26/2006		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/13/2006		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/27/2007		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/19/2007		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/18/2007		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/19/2007		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/25/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/18/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/17/2008		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/16/2008		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/24/2009		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/17/2009		79.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/10/2009		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/25/2010		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/23/2010		80.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/23/2010		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/08/2010		88.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	03/30/2011		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	06/06/2011		81.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	09/27/2011		83.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-13B	12/14/2011		84.0000	

* - 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	03/21/2012		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-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-35	03/22/2005		68.2000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/14/2005		59.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/27/2005		69.2000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/15/2005		67.3000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/28/2006		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/21/2006		71.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2006		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/12/2006		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/27/2007		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/20/2007		70.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/18/2007		69.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/20/2007		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/25/2008		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/18/2008		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/18/2008		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/19/2008		68.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/24/2009		72.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/16/2009		73.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/10/2009		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/25/2010		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/23/2010		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/23/2010		75.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/09/2010		74.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/30/2011		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/06/2011		76.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2011		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/13/2011		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	03/21/2012		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	06/06/2012		77.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	09/26/2012		78.0000	
Alkalinity, bicarbonate (as caco3)	MG/L	MW-35	12/04/2012		76.0000	

* - 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	03/13/2013		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, 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-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	

* - 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-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-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	
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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Alkalinity, total (as caco3)	MG/L	MW-35	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	
Ammonia (as n)	MG/L	MW-13A	03/22/2005		0.0200	
Ammonia (as n)	MG/L	MW-13A	06/15/2005		0.1300	
Ammonia (as n)	MG/L	MW-13A	09/27/2005		0.0210	
Ammonia (as n)	MG/L	MW-13A	12/15/2005	ND	0.0200	
Ammonia (as n)	MG/L	MW-13A	03/28/2006		0.0490	
Ammonia (as n)	MG/L	MW-13A	06/21/2006		0.0680	
Ammonia (as n)	MG/L	MW-13A	09/26/2006		0.0360	
Ammonia (as n)	MG/L	MW-13A	12/13/2006	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	03/27/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	06/19/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/19/2007	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/19/2007		0.0420	
Ammonia (as n)	MG/L	MW-13A	03/25/2008		0.0500	
Ammonia (as n)	MG/L	MW-13A	06/18/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/17/2008	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/17/2008		0.0630	
Ammonia (as n)	MG/L	MW-13A	03/24/2009		0.0830	
Ammonia (as n)	MG/L	MW-13A	06/17/2009		0.0930	
Ammonia (as n)	MG/L	MW-13A	09/10/2009	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	12/03/2009		0.0590	
Ammonia (as n)	MG/L	MW-13A	03/25/2010		0.0460	
Ammonia (as n)	MG/L	MW-13A	06/23/2010	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/23/2010		0.0490	
Ammonia (as n)	MG/L	MW-13A	12/08/2010		0.0610	
Ammonia (as n)	MG/L	MW-13A	03/30/2011		0.0640	
Ammonia (as n)	MG/L	MW-13A	06/06/2011	ND	0.0300	
Ammonia (as n)	MG/L	MW-13A	09/27/2011		0.0750	
Ammonia (as n)	MG/L	MW-13A	12/14/2011		0.0860	
Ammonia (as n)	MG/L	MW-13A	03/21/2012		0.0390	
Ammonia (as n)	MG/L	MW-13A	06/08/2012		0.2800	
Ammonia (as n)	MG/L	MW-13A	09/26/2012		0.0870	
Ammonia (as n)	MG/L	MW-13A	12/03/2012		0.1200	
Ammonia (as n)	MG/L	MW-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-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	

* - 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	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	
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-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-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	

* - 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	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	
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	
Antimony, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	12/03/2013	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	
Antimony, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/12/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	06/04/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	09/05/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	12/16/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	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	
Antimony, dissolved	MG/L	MW-16	09/22/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-16	11/18/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Antimony, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	03/04/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Antimony, dissolved	MG/L	MW-35	11/17/2014	ND	0.0010	
Arsenic, dissolved	UG/L	MW-13A	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-13A	06/15/2005		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/27/2005		0.2200	
Arsenic, dissolved	UG/L	MW-13A	12/15/2005		0.2100	
Arsenic, dissolved	UG/L	MW-13A	03/28/2006		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/21/2006		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/26/2006		0.1900	
Arsenic, dissolved	UG/L	MW-13A	12/13/2006		0.2100	
Arsenic, dissolved	UG/L	MW-13A	03/27/2007		0.2100	
Arsenic, dissolved	UG/L	MW-13A	06/19/2007		0.1900	
Arsenic, dissolved	UG/L	MW-13A	09/19/2007		0.2100	
Arsenic, dissolved	UG/L	MW-13A	12/19/2007		0.1800	
Arsenic, dissolved	UG/L	MW-13A	03/25/2008		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/18/2008		0.2000	
Arsenic, dissolved	UG/L	MW-13A	09/17/2008		0.1700	
Arsenic, dissolved	UG/L	MW-13A	12/17/2008		0.1900	
Arsenic, dissolved	UG/L	MW-13A	03/24/2009		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/17/2009		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/10/2009		0.2100	
Arsenic, dissolved	UG/L	MW-13A	12/03/2009		0.2000	
Arsenic, dissolved	UG/L	MW-13A	03/25/2010		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/23/2010		0.2100	
Arsenic, dissolved	UG/L	MW-13A	09/23/2010		0.2100	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic, dissolved	UG/L	MW-13A	12/08/2010		0.3400	
Arsenic, dissolved	UG/L	MW-13A	03/30/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/06/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	09/27/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	12/14/2011		0.2000	
Arsenic, dissolved	UG/L	MW-13A	03/21/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13A	06/08/2012		0.2300	
Arsenic, dissolved	UG/L	MW-13A	09/26/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13A	12/03/2012		0.2000	
Arsenic, dissolved	UG/L	MW-13A	03/11/2013		0.2100	
Arsenic, dissolved	UG/L	MW-13A	06/05/2013		0.1800	
Arsenic, dissolved	UG/L	MW-13A	12/03/2013		0.1700	
Arsenic, dissolved	UG/L	MW-13A	03/04/2014		0.1900	
Arsenic, dissolved	UG/L	MW-13A	06/02/2014		0.2000	
Arsenic, dissolved	UG/L	MW-13A	09/22/2014		0.1700	
Arsenic, dissolved	UG/L	MW-13A	11/17/2014		0.1800	
Arsenic, dissolved	UG/L	MW-13B	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-13B	06/15/2005		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/27/2005		0.3700	
Arsenic, dissolved	UG/L	MW-13B	12/15/2005		0.3500	
Arsenic, dissolved	UG/L	MW-13B	03/29/2006		0.3300	
Arsenic, dissolved	UG/L	MW-13B	06/21/2006		0.3500	
Arsenic, dissolved	UG/L	MW-13B	09/26/2006		0.3100	
Arsenic, dissolved	UG/L	MW-13B	12/13/2006		0.3300	
Arsenic, dissolved	UG/L	MW-13B	03/27/2007		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/19/2007		0.3300	
Arsenic, dissolved	UG/L	MW-13B	09/18/2007		0.3600	
Arsenic, dissolved	UG/L	MW-13B	12/19/2007		0.3100	
Arsenic, dissolved	UG/L	MW-13B	03/25/2008		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/18/2008		0.3300	
Arsenic, dissolved	UG/L	MW-13B	09/17/2008		0.3000	
Arsenic, dissolved	UG/L	MW-13B	12/16/2008		0.3200	
Arsenic, dissolved	UG/L	MW-13B	03/24/2009		0.3300	
Arsenic, dissolved	UG/L	MW-13B	06/17/2009		0.3400	
Arsenic, dissolved	UG/L	MW-13B	09/10/2009		0.3500	
Arsenic, dissolved	UG/L	MW-13B	12/03/2009		0.3500	
Arsenic, dissolved	UG/L	MW-13B	03/25/2010		0.3200	
Arsenic, dissolved	UG/L	MW-13B	06/23/2010		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/23/2010		0.3600	
Arsenic, dissolved	UG/L	MW-13B	12/08/2010		0.2000	
Arsenic, dissolved	UG/L	MW-13B	03/30/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	06/06/2011		0.3500	
Arsenic, dissolved	UG/L	MW-13B	09/27/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	12/14/2011		0.3400	
Arsenic, dissolved	UG/L	MW-13B	03/21/2012		0.3000	
Arsenic, dissolved	UG/L	MW-13B	06/08/2012		0.3700	
Arsenic, dissolved	UG/L	MW-13B	09/26/2012		0.3100	
Arsenic, dissolved	UG/L	MW-13B	12/03/2012		0.3600	
Arsenic, dissolved	UG/L	MW-13B	03/11/2013		0.3300	
Arsenic, dissolved	UG/L	MW-13B	06/05/2013		0.3100	
Arsenic, dissolved	UG/L	MW-13B	12/03/2013		0.2800	
Arsenic, dissolved	UG/L	MW-13B	03/04/2014		0.3000	
Arsenic, dissolved	UG/L	MW-13B	06/02/2014		0.3200	
Arsenic, dissolved	UG/L	MW-13B	09/22/2014		0.2900	
Arsenic, dissolved	UG/L	MW-13B	11/17/2014		0.2900	
Arsenic, dissolved	UG/L	MW-16	03/24/2009		0.3500	
Arsenic, dissolved	UG/L	MW-16	06/16/2009		0.3800	
Arsenic, dissolved	UG/L	MW-16	09/09/2009		0.3500	
Arsenic, dissolved	UG/L	MW-16	12/03/2009		0.3300	
Arsenic, dissolved	UG/L	MW-16	03/25/2010		0.3500	
Arsenic, dissolved	UG/L	MW-16	06/24/2010		0.3400	
Arsenic, dissolved	UG/L	MW-16	09/24/2010		0.3300	
Arsenic, dissolved	UG/L	MW-16	12/09/2010		0.3200	
Arsenic, dissolved	UG/L	MW-16	03/30/2011		0.3300	
Arsenic, dissolved	UG/L	MW-16	06/07/2011		0.3400	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Arsenic, dissolved	UG/L	MW-16	09/27/2011		0.3200	
Arsenic, dissolved	UG/L	MW-16	12/13/2011		0.3200	
Arsenic, dissolved	UG/L	MW-16	03/21/2012		0.3300	
Arsenic, dissolved	UG/L	MW-16	06/08/2012		0.3500	
Arsenic, dissolved	UG/L	MW-16	09/27/2012		0.3000	
Arsenic, dissolved	UG/L	MW-16	12/04/2012		0.3600	
Arsenic, dissolved	UG/L	MW-16	03/12/2013		0.2900	
Arsenic, dissolved	UG/L	MW-16	06/04/2013		0.3200	
Arsenic, dissolved	UG/L	MW-16	09/05/2013		0.3100	
Arsenic, dissolved	UG/L	MW-16	12/23/2013		0.2700	
Arsenic, dissolved	UG/L	MW-16	03/05/2014		0.2900	
Arsenic, dissolved	UG/L	MW-16	06/02/2014		0.3100	
Arsenic, dissolved	UG/L	MW-16	09/22/2014		0.2800	
Arsenic, dissolved	UG/L	MW-16	11/18/2014		0.2900	
Arsenic, dissolved	UG/L	MW-35	03/22/2005	ND	1.0000	*
Arsenic, dissolved	UG/L	MW-35	06/14/2005		0.1400	
Arsenic, dissolved	UG/L	MW-35	09/27/2005		0.1500	
Arsenic, dissolved	UG/L	MW-35	12/15/2005		0.1400	
Arsenic, dissolved	UG/L	MW-35	03/28/2006		0.1200	
Arsenic, dissolved	UG/L	MW-35	06/21/2006		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2006		0.1200	
Arsenic, dissolved	UG/L	MW-35	12/12/2006		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/27/2007		0.1500	
Arsenic, dissolved	UG/L	MW-35	06/20/2007		0.1200	
Arsenic, dissolved	UG/L	MW-35	09/18/2007		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/20/2007		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/25/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/18/2008		0.1200	
Arsenic, dissolved	UG/L	MW-35	09/18/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/19/2008		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/24/2009		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/16/2009		0.1600	
Arsenic, dissolved	UG/L	MW-35	09/10/2009		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/03/2009		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/25/2010		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/23/2010		0.1600	
Arsenic, dissolved	UG/L	MW-35	09/23/2010		0.1400	
Arsenic, dissolved	UG/L	MW-35	12/09/2010		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/30/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	06/06/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2011		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/13/2011		0.1400	
Arsenic, dissolved	UG/L	MW-35	03/21/2012		0.1100	
Arsenic, dissolved	UG/L	MW-35	06/06/2012		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/26/2012		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/04/2012		0.1300	
Arsenic, dissolved	UG/L	MW-35	03/13/2013		0.1200	
Arsenic, dissolved	UG/L	MW-35	06/06/2013		0.1100	
Arsenic, dissolved	UG/L	MW-35	09/05/2013		0.1300	
Arsenic, dissolved	UG/L	MW-35	12/23/2013		0.1200	
Arsenic, dissolved	UG/L	MW-35	03/04/2014		0.1100	
Arsenic, dissolved	UG/L	MW-35	06/02/2014		0.1300	
Arsenic, dissolved	UG/L	MW-35	09/22/2014		0.1100	
Arsenic, dissolved	UG/L	MW-35	11/17/2014		0.1100	
Barium, dissolved	MG/L	MW-13A	03/22/2005		0.0029	
Barium, dissolved	MG/L	MW-13A	06/15/2005		0.0025	
Barium, dissolved	MG/L	MW-13A	09/27/2005		0.0025	
Barium, dissolved	MG/L	MW-13A	12/15/2005		0.0026	
Barium, dissolved	MG/L	MW-13A	03/28/2006		0.0028	
Barium, dissolved	MG/L	MW-13A	06/21/2006		0.0030	
Barium, dissolved	MG/L	MW-13A	09/26/2006		0.0028	
Barium, dissolved	MG/L	MW-13A	12/13/2006		0.0026	
Barium, dissolved	MG/L	MW-13A	03/27/2007		0.0028	
Barium, dissolved	MG/L	MW-13A	06/19/2007		0.0027	
Barium, dissolved	MG/L	MW-13A	09/19/2007		0.0035	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, dissolved	MG/L	MW-13A	12/19/2007		0.0028	
Barium, dissolved	MG/L	MW-13A	03/25/2008		0.0028	
Barium, dissolved	MG/L	MW-13A	06/18/2008		0.0027	
Barium, dissolved	MG/L	MW-13A	09/17/2008		0.0029	
Barium, dissolved	MG/L	MW-13A	12/17/2008		0.0029	
Barium, dissolved	MG/L	MW-13A	03/24/2009		0.0030	
Barium, dissolved	MG/L	MW-13A	06/17/2009		0.0029	
Barium, dissolved	MG/L	MW-13A	09/10/2009		0.0029	
Barium, dissolved	MG/L	MW-13A	12/03/2009		0.0028	
Barium, dissolved	MG/L	MW-13A	03/25/2010		0.0031	
Barium, dissolved	MG/L	MW-13A	06/23/2010		0.0029	
Barium, dissolved	MG/L	MW-13A	09/23/2010		0.0028	
Barium, dissolved	MG/L	MW-13A	12/08/2010		0.0044	
Barium, dissolved	MG/L	MW-13A	03/30/2011		0.0029	
Barium, dissolved	MG/L	MW-13A	06/06/2011		0.0035	
Barium, dissolved	MG/L	MW-13A	09/27/2011		0.0026	
Barium, dissolved	MG/L	MW-13A	12/14/2011		0.0030	
Barium, dissolved	MG/L	MW-13A	03/21/2012		0.0030	
Barium, dissolved	MG/L	MW-13A	06/08/2012		0.0028	
Barium, dissolved	MG/L	MW-13A	09/26/2012		0.0029	
Barium, dissolved	MG/L	MW-13A	12/03/2012		0.0029	
Barium, dissolved	MG/L	MW-13A	03/11/2013		0.0029	
Barium, dissolved	MG/L	MW-13A	06/05/2013		0.0034	
Barium, dissolved	MG/L	MW-13A	12/03/2013		0.0028	
Barium, dissolved	MG/L	MW-13A	03/04/2014		0.0029	
Barium, dissolved	MG/L	MW-13A	06/02/2014		0.0028	
Barium, dissolved	MG/L	MW-13A	09/22/2014		0.0031	
Barium, dissolved	MG/L	MW-13A	11/17/2014		0.0025	
Barium, dissolved	MG/L	MW-13B	03/22/2005		0.0036	
Barium, dissolved	MG/L	MW-13B	06/15/2005		0.0033	
Barium, dissolved	MG/L	MW-13B	09/27/2005		0.0034	
Barium, dissolved	MG/L	MW-13B	12/15/2005		0.0031	
Barium, dissolved	MG/L	MW-13B	03/29/2006		0.0034	
Barium, dissolved	MG/L	MW-13B	06/21/2006		0.0034	
Barium, dissolved	MG/L	MW-13B	09/26/2006		0.0033	
Barium, dissolved	MG/L	MW-13B	12/13/2006		0.0033	
Barium, dissolved	MG/L	MW-13B	03/27/2007		0.0034	
Barium, dissolved	MG/L	MW-13B	06/19/2007		0.0032	
Barium, dissolved	MG/L	MW-13B	09/18/2007		0.0037	
Barium, dissolved	MG/L	MW-13B	12/19/2007		0.0034	
Barium, dissolved	MG/L	MW-13B	03/25/2008		0.0033	
Barium, dissolved	MG/L	MW-13B	06/18/2008		0.0033	
Barium, dissolved	MG/L	MW-13B	09/17/2008		0.0034	
Barium, dissolved	MG/L	MW-13B	12/16/2008		0.0037	
Barium, dissolved	MG/L	MW-13B	03/24/2009		0.0034	
Barium, dissolved	MG/L	MW-13B	06/17/2009		0.0034	
Barium, dissolved	MG/L	MW-13B	09/10/2009		0.0035	
Barium, dissolved	MG/L	MW-13B	12/03/2009		0.0035	
Barium, dissolved	MG/L	MW-13B	03/25/2010		0.0036	
Barium, dissolved	MG/L	MW-13B	06/23/2010		0.0034	
Barium, dissolved	MG/L	MW-13B	09/23/2010		0.0034	
Barium, dissolved	MG/L	MW-13B	12/08/2010		0.0029	
Barium, dissolved	MG/L	MW-13B	03/30/2011		0.0035	
Barium, dissolved	MG/L	MW-13B	06/06/2011		0.0034	
Barium, dissolved	MG/L	MW-13B	09/27/2011		0.0029	
Barium, dissolved	MG/L	MW-13B	12/14/2011		0.0035	
Barium, dissolved	MG/L	MW-13B	03/21/2012		0.0031	
Barium, dissolved	MG/L	MW-13B	06/08/2012		0.0035	
Barium, dissolved	MG/L	MW-13B	09/26/2012		0.0036	
Barium, dissolved	MG/L	MW-13B	12/03/2012		0.0035	
Barium, dissolved	MG/L	MW-13B	03/11/2013		0.0040	
Barium, dissolved	MG/L	MW-13B	06/05/2013		0.0030	
Barium, dissolved	MG/L	MW-13B	12/03/2013		0.0035	
Barium, dissolved	MG/L	MW-13B	03/04/2014		0.0036	
Barium, dissolved	MG/L	MW-13B	06/02/2014		0.0029	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, dissolved	MG/L	MW-13B	09/22/2014		0.0033	
Barium, dissolved	MG/L	MW-13B	11/17/2014		0.0035	
Barium, dissolved	MG/L	MW-16	03/24/2009		0.0044	
Barium, dissolved	MG/L	MW-16	06/16/2009		0.0037	
Barium, dissolved	MG/L	MW-16	09/09/2009		0.0040	
Barium, dissolved	MG/L	MW-16	12/03/2009		0.0051	
Barium, dissolved	MG/L	MW-16	03/25/2010		0.0033	
Barium, dissolved	MG/L	MW-16	06/24/2010		0.0046	
Barium, dissolved	MG/L	MW-16	09/24/2010		0.0052	
Barium, dissolved	MG/L	MW-16	12/09/2010		0.0045	
Barium, dissolved	MG/L	MW-16	03/30/2011		0.0039	
Barium, dissolved	MG/L	MW-16	06/07/2011		0.0039	
Barium, dissolved	MG/L	MW-16	09/27/2011		0.0047	
Barium, dissolved	MG/L	MW-16	12/13/2011		0.0038	
Barium, dissolved	MG/L	MW-16	03/21/2012		0.0030	
Barium, dissolved	MG/L	MW-16	06/08/2012		0.0032	
Barium, dissolved	MG/L	MW-16	09/27/2012		0.0036	
Barium, dissolved	MG/L	MW-16	12/04/2012		0.0037	
Barium, dissolved	MG/L	MW-16	03/12/2013		0.0037	
Barium, dissolved	MG/L	MW-16	06/04/2013		0.0024	
Barium, dissolved	MG/L	MW-16	09/05/2013		0.0039	
Barium, dissolved	MG/L	MW-16	12/16/2013		0.0036	
Barium, dissolved	MG/L	MW-16	03/05/2014		0.0039	
Barium, dissolved	MG/L	MW-16	06/02/2014		0.0032	
Barium, dissolved	MG/L	MW-16	09/22/2014		0.0037	
Barium, dissolved	MG/L	MW-16	11/18/2014		0.0037	
Barium, dissolved	MG/L	MW-35	03/22/2005		0.0030	
Barium, dissolved	MG/L	MW-35	06/14/2005		0.0027	
Barium, dissolved	MG/L	MW-35	09/27/2005		0.0030	
Barium, dissolved	MG/L	MW-35	12/15/2005		0.0026	
Barium, dissolved	MG/L	MW-35	03/28/2006		0.0030	
Barium, dissolved	MG/L	MW-35	06/21/2006		0.0030	
Barium, dissolved	MG/L	MW-35	09/26/2006		0.0030	
Barium, dissolved	MG/L	MW-35	12/12/2006		0.0027	
Barium, dissolved	MG/L	MW-35	03/27/2007		0.0030	
Barium, dissolved	MG/L	MW-35	06/20/2007		0.0032	
Barium, dissolved	MG/L	MW-35	09/18/2007		0.0035	
Barium, dissolved	MG/L	MW-35	12/20/2007		0.0033	
Barium, dissolved	MG/L	MW-35	03/25/2008		0.0028	
Barium, dissolved	MG/L	MW-35	06/18/2008		0.0029	
Barium, dissolved	MG/L	MW-35	09/18/2008		0.0029	
Barium, dissolved	MG/L	MW-35	12/19/2008		0.0029	
Barium, dissolved	MG/L	MW-35	03/24/2009		0.0029	
Barium, dissolved	MG/L	MW-35	06/16/2009		0.0028	
Barium, dissolved	MG/L	MW-35	09/10/2009		0.0031	
Barium, dissolved	MG/L	MW-35	12/03/2009		0.0031	
Barium, dissolved	MG/L	MW-35	03/25/2010		0.0030	
Barium, dissolved	MG/L	MW-35	06/23/2010		0.0029	
Barium, dissolved	MG/L	MW-35	09/23/2010		0.0028	
Barium, dissolved	MG/L	MW-35	12/09/2010		0.0031	
Barium, dissolved	MG/L	MW-35	03/30/2011		0.0033	
Barium, dissolved	MG/L	MW-35	06/06/2011		0.0034	
Barium, dissolved	MG/L	MW-35	09/26/2011		0.0030	
Barium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Barium, dissolved	MG/L	MW-35	03/21/2012		0.0039	
Barium, dissolved	MG/L	MW-35	06/06/2012		0.0028	
Barium, dissolved	MG/L	MW-35	09/26/2012		0.0030	
Barium, dissolved	MG/L	MW-35	12/04/2012		0.0029	
Barium, dissolved	MG/L	MW-35	03/13/2013		0.0032	
Barium, dissolved	MG/L	MW-35	06/06/2013		0.0031	
Barium, dissolved	MG/L	MW-35	09/05/2013		0.0029	
Barium, dissolved	MG/L	MW-35	12/16/2013		0.0029	
Barium, dissolved	MG/L	MW-35	03/04/2014		0.0032	
Barium, dissolved	MG/L	MW-35	06/02/2014		0.0031	
Barium, dissolved	MG/L	MW-35	09/22/2014		0.0031	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Barium, dissolved	MG/L	MW-35	11/17/2014		0.0031	
Beryllium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Beryllium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/12/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/04/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/05/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	12/16/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	06/02/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	09/22/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-16	11/18/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Beryllium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Beryllium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	03/04/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Beryllium, dissolved	MG/L	MW-35	11/17/2014	ND	0.0010	
Cadmium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0002	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/12/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/04/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/05/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	12/16/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	03/05/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	06/02/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	09/22/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-16	11/18/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0002	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Cadmium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0010	
Cadmium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/13/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/06/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/05/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	12/16/2013	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	03/04/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	06/02/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	09/22/2014	ND	0.0002	
Cadmium, dissolved	MG/L	MW-35	11/17/2014	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-13B	03/22/2005		16.9000	

* - 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	06/15/2005		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/27/2005		17.1000	
Calcium, dissolved	MG/L	MW-13B	12/15/2005		16.1000	
Calcium, dissolved	MG/L	MW-13B	03/29/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/21/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/26/2006		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/13/2006		17.0000	
Calcium, dissolved	MG/L	MW-13B	03/27/2007		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/19/2007		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/18/2007		17.0000	
Calcium, dissolved	MG/L	MW-13B	12/19/2007		15.0000	
Calcium, dissolved	MG/L	MW-13B	03/25/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/18/2008		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/17/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/16/2008		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/24/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/17/2009		17.0000	
Calcium, dissolved	MG/L	MW-13B	09/10/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/03/2009		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/25/2010		17.0000	
Calcium, dissolved	MG/L	MW-13B	06/23/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/23/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/08/2010		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/30/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/06/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/27/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/14/2011		16.0000	
Calcium, dissolved	MG/L	MW-13B	03/21/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	06/08/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	09/26/2012		16.0000	
Calcium, dissolved	MG/L	MW-13B	12/03/2012		17.0000	
Calcium, dissolved	MG/L	MW-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-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-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	

* - 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-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	
Chloride	MG/L	MW-13A	03/22/2005		2.6000	
Chloride	MG/L	MW-13A	06/15/2005		1.9000	
Chloride	MG/L	MW-13A	09/27/2005		2.4000	
Chloride	MG/L	MW-13A	12/15/2005		2.1000	
Chloride	MG/L	MW-13A	03/28/2006		3.0000	
Chloride	MG/L	MW-13A	06/21/2006		2.4000	
Chloride	MG/L	MW-13A	09/26/2006		2.6000	
Chloride	MG/L	MW-13A	12/13/2006		3.0000	
Chloride	MG/L	MW-13A	03/27/2007		2.8000	
Chloride	MG/L	MW-13A	06/19/2007		2.6000	
Chloride	MG/L	MW-13A	09/19/2007		2.6000	
Chloride	MG/L	MW-13A	12/19/2007		2.6000	
Chloride	MG/L	MW-13A	03/25/2008		2.5000	
Chloride	MG/L	MW-13A	06/18/2008		2.6000	
Chloride	MG/L	MW-13A	09/17/2008		2.5000	
Chloride	MG/L	MW-13A	12/17/2008		3.1000	
Chloride	MG/L	MW-13A	03/24/2009		2.7000	
Chloride	MG/L	MW-13A	06/17/2009		2.4000	
Chloride	MG/L	MW-13A	09/10/2009		2.1000	
Chloride	MG/L	MW-13A	12/03/2009		3.4000	
Chloride	MG/L	MW-13A	03/25/2010		2.2000	
Chloride	MG/L	MW-13A	06/23/2010		2.6000	
Chloride	MG/L	MW-13A	09/23/2010		2.8000	
Chloride	MG/L	MW-13A	12/08/2010		2.9000	
Chloride	MG/L	MW-13A	03/30/2011		2.9000	
Chloride	MG/L	MW-13A	06/06/2011		3.0000	
Chloride	MG/L	MW-13A	09/27/2011		3.8000	
Chloride	MG/L	MW-13A	12/14/2011		4.4000	

* - 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	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-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-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	

* - 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-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-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	
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	
Chromium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/08/2010		0.0032	
Chromium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/22/2005		0.0035	
Chromium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/27/2005		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/29/2006		0.0035	
Chromium, dissolved	MG/L	MW-13B	06/21/2006		0.0032	
Chromium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/27/2007		0.0033	
Chromium, dissolved	MG/L	MW-13B	06/19/2007		0.0031	
Chromium, dissolved	MG/L	MW-13B	09/18/2007		0.0030	
Chromium, dissolved	MG/L	MW-13B	12/19/2007		0.0031	
Chromium, dissolved	MG/L	MW-13B	03/25/2008		0.0032	
Chromium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/24/2009		0.0030	
Chromium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/10/2009		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/03/2009		0.0030	
Chromium, dissolved	MG/L	MW-13B	03/25/2010		0.0031	
Chromium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/30/2011		0.0031	
Chromium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/27/2011		0.0032	
Chromium, dissolved	MG/L	MW-13B	12/14/2011		0.0031	
Chromium, dissolved	MG/L	MW-13B	03/21/2012		0.0033	
Chromium, dissolved	MG/L	MW-13B	06/08/2012		0.0030	
Chromium, dissolved	MG/L	MW-13B	09/26/2012		0.0031	
Chromium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	03/11/2013		0.0030	
Chromium, dissolved	MG/L	MW-13B	06/05/2013		0.0032	
Chromium, dissolved	MG/L	MW-13B	12/03/2013		0.0031	
Chromium, dissolved	MG/L	MW-13B	03/04/2014		0.0032	
Chromium, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-13B	09/22/2014		0.0035	
Chromium, dissolved	MG/L	MW-13B	11/17/2014		0.0030	
Chromium, dissolved	MG/L	MW-16	03/24/2009		0.0100	
Chromium, dissolved	MG/L	MW-16	06/16/2009		0.0082	
Chromium, dissolved	MG/L	MW-16	09/09/2009		0.0094	

* - Outlier for that well and constituent.
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Upgradient Data

Constituent	Units	Well	Date		Result	
Chromium, dissolved	MG/L	MW-16	12/03/2009		0.0094	
Chromium, dissolved	MG/L	MW-16	03/25/2010		0.0062	
Chromium, dissolved	MG/L	MW-16	06/24/2010		0.0088	
Chromium, dissolved	MG/L	MW-16	09/24/2010		0.0099	
Chromium, dissolved	MG/L	MW-16	12/09/2010		0.0088	
Chromium, dissolved	MG/L	MW-16	03/30/2011		0.0082	
Chromium, dissolved	MG/L	MW-16	06/07/2011		0.0077	
Chromium, dissolved	MG/L	MW-16	09/27/2011		0.0088	
Chromium, dissolved	MG/L	MW-16	12/13/2011		0.0073	
Chromium, dissolved	MG/L	MW-16	03/21/2012		0.0072	
Chromium, dissolved	MG/L	MW-16	06/08/2012		0.0076	
Chromium, dissolved	MG/L	MW-16	09/27/2012		0.0083	
Chromium, dissolved	MG/L	MW-16	12/04/2012		0.0067	
Chromium, dissolved	MG/L	MW-16	03/12/2013		0.0070	
Chromium, dissolved	MG/L	MW-16	06/04/2013		0.0069	
Chromium, dissolved	MG/L	MW-16	09/05/2013		0.0065	
Chromium, dissolved	MG/L	MW-16	12/16/2013		0.0070	
Chromium, dissolved	MG/L	MW-16	03/05/2014		0.0080	
Chromium, dissolved	MG/L	MW-16	06/02/2014		0.0081	
Chromium, dissolved	MG/L	MW-16	09/22/2014		0.0085	
Chromium, dissolved	MG/L	MW-16	11/18/2014		0.0074	
Chromium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/16/2009		0.0330	
Chromium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0150	
Chromium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/13/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/06/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/05/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	12/16/2013	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	03/04/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	06/02/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	09/22/2014	ND	0.0030	
Chromium, dissolved	MG/L	MW-35	11/17/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cobalt, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

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Upgradient Data

Constituent	Units	Well	Date		Result	
Cobalt, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/16/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/09/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/24/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/24/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/09/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/07/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/27/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/13/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/08/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/27/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/04/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/12/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/04/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/05/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	12/16/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	03/05/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	06/02/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	09/22/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-16	11/18/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/22/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/14/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/27/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/15/2005	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/28/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/21/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/12/2006	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/27/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/20/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/18/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/20/2007	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/25/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/18/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/19/2008	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/24/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/16/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/10/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/03/2009	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/25/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/23/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/09/2010	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/30/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/06/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/13/2011	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/21/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/06/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/26/2012	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/04/2012	ND	0.0030	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Cobalt, dissolved	MG/L	MW-35	03/13/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/06/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/05/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	12/16/2013	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	03/04/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	06/02/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	09/22/2014	ND	0.0030	
Cobalt, dissolved	MG/L	MW-35	11/17/2014	ND	0.0030	
Copper, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/21/2006		0.0094	
Copper, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	12/03/2013		0.0020	
Copper, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/18/2007		0.0040	
Copper, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Copper, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	12/03/2013		0.0044	
Copper, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/16/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/09/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/03/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/24/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/24/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/09/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/07/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/27/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/13/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/08/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/27/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/04/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/12/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/04/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/05/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-16	12/16/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-16	03/05/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-16	06/02/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-16	09/22/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-16	11/18/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/22/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/14/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/27/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/15/2005	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/28/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/21/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/12/2006	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/27/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/20/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/18/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/20/2007	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/25/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/18/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/19/2008	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/24/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/16/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/10/2009	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/03/2009	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Copper, dissolved	MG/L	MW-35	03/25/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/23/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/09/2010	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/30/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/06/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2011	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/13/2011	ND	0.0100	
Copper, dissolved	MG/L	MW-35	03/21/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/06/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/26/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/04/2012	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/13/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/06/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/05/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-35	12/16/2013	ND	0.0020	
Copper, dissolved	MG/L	MW-35	03/04/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-35	06/02/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-35	09/22/2014	ND	0.0020	
Copper, dissolved	MG/L	MW-35	11/17/2014	ND	0.0020	
Iron, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/10/2009		0.0630	
Iron, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Iron, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/10/2009		0.0970	
Iron, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/16/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/09/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/24/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/24/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/09/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/07/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/27/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/13/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/08/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/27/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/04/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/12/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/04/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/05/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-16	12/16/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-16	03/05/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-16	06/02/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-16	09/22/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-16	11/18/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/22/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/14/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/27/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/15/2005	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/28/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/21/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/26/2006	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/12/2006	ND	0.0600	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Iron, dissolved	MG/L	MW-35	03/27/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/20/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/18/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/20/2007	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/25/2008		0.0740	
Iron, dissolved	MG/L	MW-35	06/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/18/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/19/2008	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/24/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/16/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/10/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/03/2009	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/25/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/23/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/09/2010	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/30/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/06/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/26/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/13/2011	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/21/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/06/2012		0.0700	
Iron, dissolved	MG/L	MW-35	09/26/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/04/2012	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/13/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/06/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/05/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-35	12/16/2013	ND	0.0600	
Iron, dissolved	MG/L	MW-35	03/04/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-35	06/02/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-35	09/22/2014	ND	0.0600	
Iron, dissolved	MG/L	MW-35	11/17/2014	ND	0.0600	
Lead, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-16	03/12/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/04/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/05/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-16	12/16/2013	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Lead, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-16	06/02/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-16	09/22/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-16	11/18/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Lead, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Lead, dissolved	MG/L	MW-35	03/04/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Lead, dissolved	MG/L	MW-35	11/17/2014	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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Magnesium, dissolved	MG/L	MW-13A	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-13B	03/22/2005		8.6000	
Magnesium, dissolved	MG/L	MW-13B	06/15/2005		8.0000	
Magnesium, dissolved	MG/L	MW-13B	09/27/2005		8.7000	
Magnesium, dissolved	MG/L	MW-13B	12/15/2005		8.0000	
Magnesium, dissolved	MG/L	MW-13B	03/29/2006		8.1000	
Magnesium, dissolved	MG/L	MW-13B	06/21/2006		8.3000	
Magnesium, dissolved	MG/L	MW-13B	09/26/2006		8.5000	
Magnesium, dissolved	MG/L	MW-13B	12/13/2006		8.7000	
Magnesium, dissolved	MG/L	MW-13B	03/27/2007		8.4000	
Magnesium, dissolved	MG/L	MW-13B	06/19/2007		7.9000	
Magnesium, dissolved	MG/L	MW-13B	09/18/2007		8.7000	
Magnesium, dissolved	MG/L	MW-13B	12/19/2007		7.6000	
Magnesium, dissolved	MG/L	MW-13B	03/25/2008		8.0000	
Magnesium, dissolved	MG/L	MW-13B	06/18/2008		8.2000	
Magnesium, dissolved	MG/L	MW-13B	09/17/2008		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/16/2008		8.3000	
Magnesium, dissolved	MG/L	MW-13B	03/24/2009		8.5000	
Magnesium, dissolved	MG/L	MW-13B	06/17/2009		8.5000	
Magnesium, dissolved	MG/L	MW-13B	09/10/2009		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/03/2009		8.0000	
Magnesium, dissolved	MG/L	MW-13B	03/25/2010		8.1000	
Magnesium, dissolved	MG/L	MW-13B	06/23/2010		8.7000	
Magnesium, dissolved	MG/L	MW-13B	09/23/2010		8.3000	
Magnesium, dissolved	MG/L	MW-13B	12/08/2010		9.3000	
Magnesium, dissolved	MG/L	MW-13B	03/30/2011		8.2000	
Magnesium, dissolved	MG/L	MW-13B	06/06/2011		9.0000	
Magnesium, dissolved	MG/L	MW-13B	09/27/2011		8.4000	
Magnesium, dissolved	MG/L	MW-13B	12/14/2011		8.1000	
Magnesium, dissolved	MG/L	MW-13B	03/21/2012		8.5000	
Magnesium, dissolved	MG/L	MW-13B	06/08/2012		8.1000	
Magnesium, dissolved	MG/L	MW-13B	09/26/2012		8.6000	
Magnesium, dissolved	MG/L	MW-13B	12/03/2012		8.2000	
Magnesium, dissolved	MG/L	MW-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-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	

* - 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-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-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	
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	
Manganese, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Manganese, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Manganese, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/25/2010		0.0027	
Manganese, dissolved	MG/L	MW-16	06/24/2010		0.0067	
Manganese, dissolved	MG/L	MW-16	09/24/2010		0.0027	
Manganese, dissolved	MG/L	MW-16	12/09/2010		0.0021	
Manganese, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/07/2011		0.0028	
Manganese, dissolved	MG/L	MW-16	09/27/2011		0.0029	
Manganese, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	03/12/2013		0.0019	
Manganese, dissolved	MG/L	MW-16	06/04/2013		0.0057	
Manganese, dissolved	MG/L	MW-16	09/05/2013		0.0140	
Manganese, dissolved	MG/L	MW-16	12/16/2013		0.0120	
Manganese, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-16	06/02/2014		0.0020	
Manganese, dissolved	MG/L	MW-16	09/22/2014		0.0099	
Manganese, dissolved	MG/L	MW-16	11/18/2014		0.0120	
Manganese, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2011		0.0010	
Manganese, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Manganese, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	03/04/2014	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, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Manganese, dissolved	MG/L	MW-35	11/17/2014	ND	0.0010	
Nickel, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0040	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/16/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/09/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/24/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/24/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/09/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/30/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/07/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/27/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/13/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/08/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/27/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/04/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/12/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/04/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/05/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	12/16/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	03/05/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	06/02/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	09/22/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-16	11/18/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/22/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/14/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/27/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/15/2005	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/28/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/21/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/12/2006	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/27/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/20/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/18/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/20/2007	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/25/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/18/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/19/2008	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/24/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/16/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/10/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/03/2009	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/25/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/23/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/09/2010	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/30/2011	ND	0.0040	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Nickel, dissolved	MG/L	MW-35	06/06/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2011	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/13/2011	ND	0.0200	
Nickel, dissolved	MG/L	MW-35	03/21/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/06/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/26/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/04/2012	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/13/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/06/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/05/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	12/16/2013	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	03/04/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	06/02/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	09/22/2014	ND	0.0040	
Nickel, dissolved	MG/L	MW-35	11/17/2014	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	
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-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	

* - 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-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-16	03/24/2009		0.2800	
Nitrate (as n)	MG/L	MW-16	06/16/2009		0.3300	
Nitrate (as n)	MG/L	MW-16	09/09/2009		0.3100	
Nitrate (as n)	MG/L	MW-16	12/03/2009		0.4000	
Nitrate (as n)	MG/L	MW-16	03/25/2010		0.2900	
Nitrate (as n)	MG/L	MW-16	06/24/2010		0.1600	
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-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	

* - 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	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	
Nitrate (as n)	MG/L	MW-35	09/22/2014		0.4200	
Nitrate (as n)	MG/L	MW-35	11/17/2014		0.4200	
pH	pH Units	MW-13A	03/22/2005		7.0100	
pH	pH Units	MW-13A	06/15/2005		7.2100	
pH	pH Units	MW-13A	09/27/2005		7.1000	
pH	pH Units	MW-13A	12/15/2005		6.3400	
pH	pH Units	MW-13A	03/28/2006		6.9000	
pH	pH Units	MW-13A	06/21/2006		7.2500	
pH	pH Units	MW-13A	09/26/2006		7.2500	
pH	pH Units	MW-13A	12/13/2006		6.8700	
pH	pH Units	MW-13A	03/27/2007		7.3200	
pH	pH Units	MW-13A	09/19/2007		6.6800	
pH	pH Units	MW-13A	12/19/2007		7.2900	
pH	pH Units	MW-13A	03/25/2008		7.1200	
pH	pH Units	MW-13A	06/18/2008		7.1900	
pH	pH Units	MW-13A	09/17/2008		7.0000	
pH	pH Units	MW-13A	12/17/2008		6.5100	
pH	pH Units	MW-13A	03/24/2009		6.8500	
pH	pH Units	MW-13A	06/17/2009		7.0700	
pH	pH Units	MW-13A	12/03/2009		7.0300	
pH	pH Units	MW-13A	03/25/2010		6.9600	
pH	pH Units	MW-13A	06/23/2010		6.9900	
pH	pH Units	MW-13A	09/23/2010		6.7800	
pH	pH Units	MW-13A	12/08/2010		7.4800	
pH	pH Units	MW-13A	03/30/2011		6.9500	
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-13B	03/22/2005		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	06/15/2005		7.8100	
pH	pH Units	MW-13B	09/27/2005		7.7300	
pH	pH Units	MW-13B	12/15/2005		6.9300	
pH	pH Units	MW-13B	03/29/2006		7.4500	
pH	pH Units	MW-13B	06/21/2006		7.7600	
pH	pH Units	MW-13B	09/26/2006		7.7800	
pH	pH Units	MW-13B	12/13/2006		7.3200	
pH	pH Units	MW-13B	03/27/2007		7.7600	
pH	pH Units	MW-13B	09/18/2007		7.4800	
pH	pH Units	MW-13B	12/19/2007		7.8500	
pH	pH Units	MW-13B	03/25/2008		7.7800	
pH	pH Units	MW-13B	06/18/2008		7.7400	
pH	pH Units	MW-13B	09/17/2008		7.5700	
pH	pH Units	MW-13B	12/16/2008		7.2300	
pH	pH Units	MW-13B	03/24/2009		7.3700	
pH	pH Units	MW-13B	06/17/2009		7.5600	
pH	pH Units	MW-13B	12/03/2009		6.9300	
pH	pH Units	MW-13B	03/25/2010		7.4900	
pH	pH Units	MW-13B	06/23/2010		7.2700	
pH	pH Units	MW-13B	09/23/2010		7.1100	
pH	pH Units	MW-13B	12/08/2010		7.0500	
pH	pH Units	MW-13B	03/30/2011		7.5100	
pH	pH Units	MW-13B	06/06/2011		7.5800	
pH	pH Units	MW-13B	09/27/2011		7.0800	
pH	pH Units	MW-13B	12/14/2011		7.5300	
pH	pH Units	MW-13B	03/21/2012		7.0900	
pH	pH Units	MW-13B	06/08/2012		7.1500	
pH	pH Units	MW-13B	09/26/2012		7.3200	
pH	pH Units	MW-13B	12/03/2012		7.3200	
pH	pH Units	MW-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-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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
pH	pH Units	MW-35	09/26/2006		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	
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	
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	

* - 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	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-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-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	
Potassium, dissolved	MG/L	MW-16	12/16/2013	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	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-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	
Selenium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/03/2009		0.0010	
Selenium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Selenium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	12/03/2013		0.0030	
Selenium, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	12/03/2013		0.0033	
Selenium, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/03/2009		0.0011	
Selenium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Selenium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/12/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/04/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/05/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	12/16/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	06/02/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	09/22/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-16	11/18/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Selenium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	03/04/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Selenium, dissolved	MG/L	MW-35	11/17/2014	ND	0.0010	
Silver, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Silver, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Silver, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/16/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/09/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/24/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/24/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/09/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/07/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/27/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/13/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/08/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/27/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/04/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/12/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/04/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/05/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-16	12/16/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-16	03/05/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-16	06/02/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-16	09/22/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-16	11/18/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/22/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/14/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/27/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/15/2005	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/28/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/21/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/12/2006	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/27/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/20/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/18/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/20/2007	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/25/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/18/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/19/2008	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/24/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/16/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/10/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/03/2009	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/25/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/23/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/09/2010	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/30/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/06/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2011	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/13/2011	ND	0.0100	
Silver, dissolved	MG/L	MW-35	03/21/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/06/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/26/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/04/2012	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/13/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-35	06/06/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/05/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-35	12/16/2013	ND	0.0020	
Silver, dissolved	MG/L	MW-35	03/04/2014	ND	0.0020	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Silver, dissolved	MG/L	MW-35	06/02/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-35	09/22/2014	ND	0.0020	
Silver, dissolved	MG/L	MW-35	11/17/2014	ND	0.0020	
Sodium, dissolved	MG/L	MW-13A	03/22/2005		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/15/2005		4.4000	
Sodium, dissolved	MG/L	MW-13A	09/27/2005		4.5000	
Sodium, dissolved	MG/L	MW-13A	12/15/2005		4.8000	
Sodium, dissolved	MG/L	MW-13A	03/28/2006		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/21/2006		5.2000	
Sodium, dissolved	MG/L	MW-13A	09/26/2006		5.5000	
Sodium, dissolved	MG/L	MW-13A	12/13/2006		4.8000	
Sodium, dissolved	MG/L	MW-13A	03/27/2007		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/19/2007		5.5000	
Sodium, dissolved	MG/L	MW-13A	09/19/2007		5.4000	
Sodium, dissolved	MG/L	MW-13A	12/19/2007		4.9000	
Sodium, dissolved	MG/L	MW-13A	03/25/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	06/18/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	09/17/2008		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/17/2008		5.5000	
Sodium, dissolved	MG/L	MW-13A	03/24/2009		5.3000	
Sodium, dissolved	MG/L	MW-13A	06/17/2009		5.4000	
Sodium, dissolved	MG/L	MW-13A	09/10/2009		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/03/2009		5.6000	
Sodium, dissolved	MG/L	MW-13A	03/25/2010		6.1000	
Sodium, dissolved	MG/L	MW-13A	06/23/2010		5.7000	
Sodium, dissolved	MG/L	MW-13A	09/23/2010		5.0000	
Sodium, dissolved	MG/L	MW-13A	12/08/2010		5.2000	
Sodium, dissolved	MG/L	MW-13A	03/30/2011		5.4000	
Sodium, dissolved	MG/L	MW-13A	06/06/2011		5.4000	
Sodium, dissolved	MG/L	MW-13A	09/27/2011		5.6000	
Sodium, dissolved	MG/L	MW-13A	12/14/2011		5.5000	
Sodium, dissolved	MG/L	MW-13A	03/21/2012		5.3000	
Sodium, dissolved	MG/L	MW-13A	06/08/2012		5.2000	
Sodium, dissolved	MG/L	MW-13A	09/26/2012		5.2000	
Sodium, dissolved	MG/L	MW-13A	12/03/2012		5.5000	
Sodium, dissolved	MG/L	MW-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-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-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-35	03/22/2005		5.1000	
Sodium, dissolved	MG/L	MW-35	06/14/2005		4.5000	
Sodium, dissolved	MG/L	MW-35	09/27/2005		5.1000	
Sodium, dissolved	MG/L	MW-35	12/15/2005		4.6000	
Sodium, dissolved	MG/L	MW-35	03/28/2006		5.0000	
Sodium, dissolved	MG/L	MW-35	06/21/2006		4.9000	
Sodium, dissolved	MG/L	MW-35	09/26/2006		5.1000	
Sodium, dissolved	MG/L	MW-35	12/12/2006		4.7000	
Sodium, dissolved	MG/L	MW-35	03/27/2007		5.1000	
Sodium, dissolved	MG/L	MW-35	06/20/2007		5.2000	
Sodium, dissolved	MG/L	MW-35	09/18/2007		5.2000	
Sodium, dissolved	MG/L	MW-35	12/20/2007		4.8000	
Sodium, dissolved	MG/L	MW-35	03/25/2008		5.1000	
Sodium, dissolved	MG/L	MW-35	06/18/2008		4.9000	
Sodium, dissolved	MG/L	MW-35	09/18/2008		4.8000	
Sodium, dissolved	MG/L	MW-35	12/19/2008		4.7000	
Sodium, dissolved	MG/L	MW-35	03/24/2009		5.0000	
Sodium, dissolved	MG/L	MW-35	06/16/2009		5.1000	
Sodium, dissolved	MG/L	MW-35	09/10/2009		4.9000	
Sodium, dissolved	MG/L	MW-35	12/03/2009		5.3000	
Sodium, dissolved	MG/L	MW-35	03/25/2010		5.0000	
Sodium, dissolved	MG/L	MW-35	06/23/2010		5.1000	
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	

* - 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	06/06/2011		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	
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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Specific conductivity	mS/cm	MW-13B	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-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	
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-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	

* - 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-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	
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	
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-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	

* - 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	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	
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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Sulfate	MG/L	MW-35	03/27/2007		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	
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	
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	

* - 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-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-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	
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-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-35	03/22/2005		9.8000	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Temperature	deg C	MW-35	06/14/2005		10.2800	
Temperature	deg C	MW-35	09/27/2005		10.4900	
Temperature	deg C	MW-35	12/15/2005		8.8600	
Temperature	deg C	MW-35	03/28/2006		9.5300	
Temperature	deg C	MW-35	06/21/2006		10.3100	
Temperature	deg C	MW-35	09/26/2006		10.6200	
Temperature	deg C	MW-35	12/12/2006		9.2600	
Temperature	deg C	MW-35	03/27/2007		9.4000	
Temperature	deg C	MW-35	09/18/2007		10.2400	
Temperature	deg C	MW-35	12/20/2007		8.6900	
Temperature	deg C	MW-35	03/25/2008		8.7500	
Temperature	deg C	MW-35	06/18/2008		9.7300	
Temperature	deg C	MW-35	09/18/2008		9.9800	
Temperature	deg C	MW-35	12/19/2008		8.5000	
Temperature	deg C	MW-35	03/24/2009		9.3200	
Temperature	deg C	MW-35	06/16/2009		11.7600	
Temperature	deg C	MW-35	12/03/2009		9.5700	
Temperature	deg C	MW-35	03/25/2010		9.8200	
Temperature	deg C	MW-35	06/23/2010		10.0700	
Temperature	deg C	MW-35	09/23/2010		10.0900	
Temperature	deg C	MW-35	12/09/2010		9.8500	
Temperature	deg C	MW-35	03/30/2011		9.7200	
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	
Thallium, dissolved	MG/L	MW-13A	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/28/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/13/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Thallium, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/29/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/13/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/18/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/16/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/09/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/24/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/24/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/09/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/07/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/27/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/13/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/08/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/27/2012	ND	0.0010	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Thallium, dissolved	MG/L	MW-16	12/04/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/12/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/04/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/05/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	12/16/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	03/05/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	06/02/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	09/22/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-16	11/18/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/22/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/14/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/27/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/15/2005	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/28/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/21/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/12/2006	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/27/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/20/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/18/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/20/2007	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/25/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/18/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/19/2008	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/24/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/16/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/10/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/03/2009	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/25/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/23/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/09/2010	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/30/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/06/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2011	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Thallium, dissolved	MG/L	MW-35	03/21/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/06/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/26/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/04/2012	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/13/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/06/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/05/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	12/16/2013	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	03/04/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	06/02/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	09/22/2014	ND	0.0010	
Thallium, dissolved	MG/L	MW-35	11/17/2014	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	

* - 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-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-13B	03/22/2005		108.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/15/2005		114.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/27/2005		111.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/15/2005		130.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/29/2006		89.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/21/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/26/2006		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/13/2006		98.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/27/2007		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/19/2007		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/18/2007		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/19/2007		91.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/25/2008		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/18/2008		120.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/17/2008		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/16/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/24/2009		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/17/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/10/2009		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/03/2009		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/25/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/23/2010		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/23/2010		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/08/2010		94.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/30/2011		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/06/2011		99.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/27/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/14/2011		91.0000	
Total dissolved solids (tds)	MG/L	MW-13B	03/21/2012		100.0000	
Total dissolved solids (tds)	MG/L	MW-13B	06/08/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	09/26/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-13B	12/03/2012		93.0000	
Total dissolved solids (tds)	MG/L	MW-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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Total dissolved solids (tds)	MG/L	MW-16	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-35	03/22/2005		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/14/2005		88.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/27/2005		123.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/15/2005		87.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/28/2006		91.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/21/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2006		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/12/2006		90.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/27/2007		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/20/2007		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/18/2007		90.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/20/2007		120.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/25/2008		76.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/18/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/18/2008		92.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/19/2008		93.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/24/2009		84.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/16/2009		95.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/10/2009		83.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/03/2009		85.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/25/2010		96.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/23/2010		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/23/2010		86.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/09/2010		97.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/30/2011		91.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/06/2011		96.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2011		100.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/13/2011		95.0000	
Total dissolved solids (tds)	MG/L	MW-35	03/21/2012		85.0000	
Total dissolved solids (tds)	MG/L	MW-35	06/06/2012		120.0000	
Total dissolved solids (tds)	MG/L	MW-35	09/26/2012		110.0000	
Total dissolved solids (tds)	MG/L	MW-35	12/04/2012		100.0000	
Total 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 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	

* - 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	03/28/2006	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	
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-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	

* - 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-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-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	
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-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	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Total organic carbon (toc)	MG/L	MW-35	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	
Vanadium, dissolved	MG/L	MW-13A	03/22/2005		0.0042	
Vanadium, dissolved	MG/L	MW-13A	06/15/2005		0.0036	
Vanadium, dissolved	MG/L	MW-13A	09/27/2005		0.0036	
Vanadium, dissolved	MG/L	MW-13A	12/15/2005		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/28/2006		0.0041	
Vanadium, dissolved	MG/L	MW-13A	06/21/2006		0.0043	
Vanadium, dissolved	MG/L	MW-13A	09/26/2006		0.0041	
Vanadium, dissolved	MG/L	MW-13A	12/13/2006		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/27/2007		0.0041	
Vanadium, dissolved	MG/L	MW-13A	06/19/2007		0.0041	
Vanadium, dissolved	MG/L	MW-13A	09/19/2007		0.0039	
Vanadium, dissolved	MG/L	MW-13A	12/19/2007		0.0043	
Vanadium, dissolved	MG/L	MW-13A	03/25/2008		0.0040	
Vanadium, dissolved	MG/L	MW-13A	06/18/2008		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/17/2008		0.0040	
Vanadium, dissolved	MG/L	MW-13A	12/17/2008		0.0038	
Vanadium, dissolved	MG/L	MW-13A	03/24/2009		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/17/2009		0.0039	
Vanadium, dissolved	MG/L	MW-13A	09/10/2009		0.0041	
Vanadium, dissolved	MG/L	MW-13A	12/03/2009		0.0041	
Vanadium, dissolved	MG/L	MW-13A	03/25/2010		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/23/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/23/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13A	12/08/2010		0.0058	
Vanadium, dissolved	MG/L	MW-13A	03/30/2011		0.0039	
Vanadium, dissolved	MG/L	MW-13A	06/06/2011		0.0038	
Vanadium, dissolved	MG/L	MW-13A	09/27/2011		0.0037	
Vanadium, dissolved	MG/L	MW-13A	12/14/2011		0.0041	
Vanadium, dissolved	MG/L	MW-13A	03/21/2012		0.0037	
Vanadium, dissolved	MG/L	MW-13A	06/08/2012		0.0039	
Vanadium, dissolved	MG/L	MW-13A	09/26/2012		0.0039	
Vanadium, dissolved	MG/L	MW-13A	12/03/2012		0.0037	
Vanadium, dissolved	MG/L	MW-13A	03/11/2013		0.0043	
Vanadium, dissolved	MG/L	MW-13A	06/05/2013		0.0035	
Vanadium, dissolved	MG/L	MW-13A	12/03/2013		0.0041	
Vanadium, dissolved	MG/L	MW-13A	03/04/2014		0.0042	
Vanadium, dissolved	MG/L	MW-13A	06/02/2014		0.0039	
Vanadium, dissolved	MG/L	MW-13A	09/22/2014		0.0041	
Vanadium, dissolved	MG/L	MW-13A	11/17/2014		0.0040	
Vanadium, dissolved	MG/L	MW-13B	03/22/2005		0.0066	
Vanadium, dissolved	MG/L	MW-13B	06/15/2005		0.0057	
Vanadium, dissolved	MG/L	MW-13B	09/27/2005		0.0058	
Vanadium, dissolved	MG/L	MW-13B	12/15/2005		0.0057	
Vanadium, dissolved	MG/L	MW-13B	03/29/2006		0.0061	
Vanadium, dissolved	MG/L	MW-13B	06/21/2006		0.0059	
Vanadium, dissolved	MG/L	MW-13B	09/26/2006		0.0058	
Vanadium, dissolved	MG/L	MW-13B	12/13/2006		0.0056	
Vanadium, dissolved	MG/L	MW-13B	03/27/2007		0.0059	
Vanadium, dissolved	MG/L	MW-13B	06/19/2007		0.0060	
Vanadium, dissolved	MG/L	MW-13B	09/18/2007		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/19/2007		0.0060	
Vanadium, dissolved	MG/L	MW-13B	03/25/2008		0.0060	
Vanadium, dissolved	MG/L	MW-13B	06/18/2008		0.0054	
Vanadium, dissolved	MG/L	MW-13B	09/17/2008		0.0056	
Vanadium, dissolved	MG/L	MW-13B	12/16/2008		0.0058	
Vanadium, dissolved	MG/L	MW-13B	03/24/2009		0.0056	
Vanadium, dissolved	MG/L	MW-13B	06/17/2009		0.0059	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Vanadium, dissolved	MG/L	MW-13B	09/10/2009		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/03/2009		0.0062	
Vanadium, dissolved	MG/L	MW-13B	03/25/2010		0.0056	
Vanadium, dissolved	MG/L	MW-13B	06/23/2010		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/23/2010		0.0055	
Vanadium, dissolved	MG/L	MW-13B	12/08/2010		0.0038	
Vanadium, dissolved	MG/L	MW-13B	03/30/2011		0.0057	
Vanadium, dissolved	MG/L	MW-13B	06/06/2011		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/27/2011		0.0057	
Vanadium, dissolved	MG/L	MW-13B	12/14/2011		0.0066	
Vanadium, dissolved	MG/L	MW-13B	03/21/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	06/08/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	09/26/2012		0.0055	
Vanadium, dissolved	MG/L	MW-13B	12/03/2012		0.0052	
Vanadium, dissolved	MG/L	MW-13B	03/11/2013		0.0053	
Vanadium, dissolved	MG/L	MW-13B	06/05/2013		0.0055	
Vanadium, dissolved	MG/L	MW-13B	12/03/2013		0.0057	
Vanadium, dissolved	MG/L	MW-13B	03/04/2014		0.0058	
Vanadium, dissolved	MG/L	MW-13B	06/02/2014		0.0053	
Vanadium, dissolved	MG/L	MW-13B	09/22/2014		0.0062	
Vanadium, dissolved	MG/L	MW-13B	11/17/2014		0.0054	
Vanadium, dissolved	MG/L	MW-16	03/24/2009		0.0035	
Vanadium, dissolved	MG/L	MW-16	06/16/2009		0.0036	
Vanadium, dissolved	MG/L	MW-16	09/09/2009		0.0036	
Vanadium, dissolved	MG/L	MW-16	12/03/2009		0.0034	
Vanadium, dissolved	MG/L	MW-16	03/25/2010		0.0036	
Vanadium, dissolved	MG/L	MW-16	06/24/2010		0.0038	
Vanadium, dissolved	MG/L	MW-16	09/24/2010		0.0041	
Vanadium, dissolved	MG/L	MW-16	12/09/2010		0.0037	
Vanadium, dissolved	MG/L	MW-16	03/30/2011		0.0039	
Vanadium, dissolved	MG/L	MW-16	06/07/2011		0.0039	
Vanadium, dissolved	MG/L	MW-16	09/27/2011		0.0043	
Vanadium, dissolved	MG/L	MW-16	12/13/2011		0.0035	
Vanadium, dissolved	MG/L	MW-16	03/21/2012		0.0042	
Vanadium, dissolved	MG/L	MW-16	06/08/2012		0.0033	
Vanadium, dissolved	MG/L	MW-16	09/27/2012		0.0043	
Vanadium, dissolved	MG/L	MW-16	12/04/2012		0.0034	
Vanadium, dissolved	MG/L	MW-16	03/12/2013		0.0033	
Vanadium, dissolved	MG/L	MW-16	06/04/2013		0.0038	
Vanadium, dissolved	MG/L	MW-16	09/05/2013		0.0037	
Vanadium, dissolved	MG/L	MW-16	12/16/2013		0.0034	
Vanadium, dissolved	MG/L	MW-16	03/05/2014		0.0038	
Vanadium, dissolved	MG/L	MW-16	06/02/2014		0.0042	
Vanadium, dissolved	MG/L	MW-16	09/22/2014		0.0037	
Vanadium, dissolved	MG/L	MW-16	11/18/2014		0.0035	
Vanadium, dissolved	MG/L	MW-35	03/22/2005		0.0047	
Vanadium, dissolved	MG/L	MW-35	06/14/2005		0.0039	
Vanadium, dissolved	MG/L	MW-35	09/27/2005		0.0044	
Vanadium, dissolved	MG/L	MW-35	12/15/2005		0.0041	
Vanadium, dissolved	MG/L	MW-35	03/28/2006		0.0048	
Vanadium, dissolved	MG/L	MW-35	06/21/2006		0.0046	
Vanadium, dissolved	MG/L	MW-35	09/26/2006		0.0046	
Vanadium, dissolved	MG/L	MW-35	12/12/2006		0.0044	
Vanadium, dissolved	MG/L	MW-35	03/27/2007		0.0047	
Vanadium, dissolved	MG/L	MW-35	06/20/2007		0.0046	
Vanadium, dissolved	MG/L	MW-35	09/18/2007		0.0050	
Vanadium, dissolved	MG/L	MW-35	12/20/2007		0.0045	
Vanadium, dissolved	MG/L	MW-35	03/25/2008		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/18/2008		0.0047	
Vanadium, dissolved	MG/L	MW-35	09/18/2008		0.0045	
Vanadium, dissolved	MG/L	MW-35	12/19/2008		0.0042	
Vanadium, dissolved	MG/L	MW-35	03/24/2009		0.0043	
Vanadium, dissolved	MG/L	MW-35	06/16/2009		0.0041	
Vanadium, dissolved	MG/L	MW-35	09/10/2009		0.0047	
Vanadium, dissolved	MG/L	MW-35	12/03/2009		0.0048	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Vanadium, dissolved	MG/L	MW-35	03/25/2010		0.0043	
Vanadium, dissolved	MG/L	MW-35	06/23/2010		0.0044	
Vanadium, dissolved	MG/L	MW-35	09/23/2010		0.0043	
Vanadium, dissolved	MG/L	MW-35	12/09/2010		0.0045	
Vanadium, dissolved	MG/L	MW-35	03/30/2011		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/06/2011		0.0044	
Vanadium, dissolved	MG/L	MW-35	09/26/2011		0.0045	
Vanadium, dissolved	MG/L	MW-35	12/13/2011	ND	0.0020	
Vanadium, dissolved	MG/L	MW-35	03/21/2012		0.0046	
Vanadium, dissolved	MG/L	MW-35	06/06/2012		0.0042	
Vanadium, dissolved	MG/L	MW-35	09/26/2012		0.0043	
Vanadium, dissolved	MG/L	MW-35	12/04/2012		0.0041	
Vanadium, dissolved	MG/L	MW-35	03/13/2013		0.0041	
Vanadium, dissolved	MG/L	MW-35	06/06/2013		0.0044	
Vanadium, dissolved	MG/L	MW-35	09/05/2013		0.0042	
Vanadium, dissolved	MG/L	MW-35	12/16/2013		0.0044	
Vanadium, dissolved	MG/L	MW-35	03/04/2014		0.0045	
Vanadium, dissolved	MG/L	MW-35	06/02/2014		0.0048	
Vanadium, dissolved	MG/L	MW-35	09/22/2014		0.0049	
Vanadium, dissolved	MG/L	MW-35	11/17/2014		0.0036	
Zinc, dissolved	MG/L	MW-13A	12/19/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/17/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/08/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/14/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/03/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/11/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/05/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	12/03/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	03/04/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	06/02/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	09/22/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13A	11/17/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/18/2007		0.0096	
Zinc, dissolved	MG/L	MW-13B	12/19/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/17/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/16/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/17/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/08/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/14/2011	ND	0.0050	

* - Outlier for that well and constituent.
ND = Not detected, result = detection limit.

Table 2-3

Upgradient Data

Constituent	Units	Well	Date		Result	
Zinc, dissolved	MG/L	MW-13B	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/03/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/11/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/05/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	12/03/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	03/04/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	06/02/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	09/22/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-13B	11/17/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/16/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/09/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/24/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/24/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/09/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/07/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/27/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/13/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/08/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/27/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/04/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/12/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/04/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/05/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	12/16/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	03/05/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	06/02/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	09/22/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-16	11/18/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/20/2007	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/25/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/18/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/19/2008	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/24/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/16/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/10/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/03/2009	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/25/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/23/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/09/2010	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/30/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/06/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/26/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/13/2011	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/21/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/06/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/26/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/04/2012	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/13/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/06/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/05/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	12/16/2013	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	03/04/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	06/02/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	09/22/2014	ND	0.0050	
Zinc, dissolved	MG/L	MW-35	11/17/2014	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)	138	1.000	3.045	4.290	2.326	nonpar
Alkalinity, total (as caco3)	142	1.000	3.124	4.252	2.326	nonpar
Ammonia (as n)	73	0.525	7.777	7.380	2.326	nonpar
Antimony, dissolved	0	0.000				nonpar
Arsenic, dissolved	139	1.000	5.113	5.199	2.326	nonpar
Barium, dissolved	141	0.993	4.845	4.842	2.326	nonpar
Beryllium, dissolved	0	0.000				nonpar
Cadmium, dissolved	0	0.000				nonpar
Calcium, dissolved	142	1.000	7.602	7.370	2.326	nonpar
Chloride	141	0.993	2.921	2.510	2.326	nonpar
Chromium, dissolved	51	0.359	1.962	1.958	2.326	nonpar
Cobalt, dissolved	0	0.000				nonpar
Copper, dissolved	4	0.028				nonpar
Iron, dissolved	4	0.028				nonpar
Lead, dissolved	0	0.000				nonpar
Magnesium, dissolved	142	1.000	1.286	0.878	2.326	normal
Manganese, dissolved	14	0.099	2.326	2.323	2.326	nonpar
Nickel, dissolved	0	0.000				nonpar
Nitrate (as n)	138	1.000	12.904	11.556	2.326	nonpar
pH	135	1.000	1.669	2.040	2.326	normal
Potassium, dissolved	13	0.092	0.153	0.091	2.326	nonpar
Selenium, dissolved	4	0.028				nonpar
Silver, dissolved	0	0.000				nonpar
Sodium, dissolved	142	1.000	3.411	3.186	2.326	nonpar
Specific conductivity	135	1.000	6.922	7.043	2.326	nonpar
Sulfate	141	0.993	5.546	5.007	2.326	nonpar
Temperature	135	1.000	6.788	5.344	2.326	nonpar
Thallium, dissolved	0	0.000				nonpar
Total dissolved solids (tds)	142	1.000	5.610	4.475	2.326	nonpar
Total organic carbon (toc)	7	0.049	0.146	1.287	2.326	nonpar
Vanadium, dissolved	141	0.993	5.481	5.482	2.326	nonpar
Zinc, dissolved	1	0.009				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 (2015) PREDICTION LIMITS TO PREVIOUS YEAR (2014) PREDICTION LIMITS
Olympic View Sanitary Landfill

Constituent	2014 Pred. Limit	Distributional Assumption	2015 Pred. Limit	Distributional Assumption
Alkalinity, bicarbonate (as caco3)	96	nonparametric	96	nonparametric
Alkalinity, total (as caco3)	96	nonparametric	96	nonparametric
Ammonia (as n)	0.34	nonparametric	0.34	nonparametric
Antimony, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Arsenic, dissolved	0.38	nonparametric	0.38	nonparametric
Barium, dissolved	0.0052	nonparametric	0.0052	nonparametric
Beryllium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Cadmium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Calcium, dissolved	17.1	nonparametric	17.1	nonparametric
Chloride	4.00	normal	4.40	nonparametric
Chromium, dissolved	0.033	nonparametric	0.033	nonparametric
Cobalt, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Copper, dissolved	0.0094	nonparametric	0.0094	nonparametric
Iron, dissolved	0.097	nonparametric	0.097	nonparametric
Lead, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Magnesium, dissolved	10.86	normal	10.93	normal
Manganese, dissolved	0.014	nonparametric	0.014	nonparametric
Nickel, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Nitrate (as n)	1.80	nonparametric	1.80	nonparametric
pH	5.89 - 8.24	normal	5.90 - 8.23	normal
Potassium, dissolved	1.00	nonparametric	1.20	nonparametric
Selenium, dissolved	0.0033	nonparametric	0.0033	nonparametric
Silver, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Sodium, dissolved	6.20	nonparametric	6.20	nonparametric
Specific conductivity	0.18	nonparametric	0.18	nonparametric
Sulfate	9.90	nonparametric	9.90	nonparametric
Temperature	11.96	nonparametric	14.32	nonparametric
Thallium, dissolved	Current RL*	nonparametric	Current RL*	nonparametric
Total dissolved solids (tds)	175	nonparametric	175	nonparametric
Total organic carbon (toc)	6.0	nonparametric	6.0	nonparametric
Vanadium, dissolved	0.0066	nonparametric	0.0066	nonparametric
Zinc, dissolved	0.0096	nonparametric	0.0096	nonparametric

* in cases where all background data are non-detected values, a nonparametric prediction limit is set at the current constituent-specific laboratory reporting limit (RL)

3. Annual UCL Calculations using Preliminary Groundwater Cleanup Goals

- 2014 Annual Preliminary Groundwater Cleanup Goals Statistical Evaluation Summary (Table 3-1)

TABLE 3-1: 2014 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, 2012 through December 31, 2014

Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9+, MW-29A, MW-32, MW-33A, MW-33C, MW-36A

Monitoring Well	Monitoring Well Type	Corrective Action Monitoring Parameter	N[1]	% Detect	Max[2]	95% UCL of Mean[3]	Units[4]	Note	Groundwater Cleanup Level[5]	Units[4]	Does 95% UCL Exceed Cleanup Level?	Significant Trend?[6]
MW-15R	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-15R	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-15R	Compliance	Arsenic, dissolved	12	100%	0.26	0.23	ug/L	LN	0.462	ug/L	No	No
MW-15R	Compliance	Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
MW-15R	Compliance	Manganese, dissolved	12	92%	0.007	0.003	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	25%	0.036	0.036	ug/L	A	0.20	ug/L	No	No
MW-15R	Compliance	Ammonia as N	12[7]	25%	0.058	0.058	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%	0.57	0.48	ug/L	LN	0.462	ug/L	Yes	No
MW-34A	Compliance	Iron, dissolved	12	0%	0.06 (ND)	0.06	mg/L	B	0.30	mg/L	No	No
MW-34A	Compliance	Manganese, dissolved	12	0%	0.0010	0.0010	mg/L	B	0.05	mg/L	No	No
MW-34A	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-34A	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-34A	Compliance	Trichloroethene	12	0%	0.46 (ND)	0.46	ug/L	B	1.0	ug/L	No	No
MW-34A	Compliance	Vinyl Chloride	12	17%	0.03	0.03	ug/L	A	0.20	ug/L	No	No
MW-34A	Compliance	Ammonia as N	12	25%	0.15	0.15	mg/L	A	0.19	mg/L	No	No
MW-34C	Compliance	1,1-Dichloroethane	12	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-34C	Compliance	1,4-Dichlorobenzene	12	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-34C	Compliance	Arsenic, dissolved	12	100%	4.2	1.89	ug/L	Z	0.462	ug/L	Yes	Yes (▼)
MW-34C	Compliance	Iron, dissolved	12[9]	100%	0.88	0.77	mg/L	N	0.30	mg/L	Yes	Yes (▼)
MW-34C	Compliance	Manganese, dissolved	12	100%	1.3	0.83	mg/L	Z	0.05	mg/L	Yes	No

TABLE 3-1: 2014 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, 2012 through December 31, 2014

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	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
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	0.15	ug/L	LN	0.20	ug/L	No	Yes (▼)
MW-34C	Compliance	Ammonia as N	12	25%	0.18	0.18	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%	2.23	1.69	ug/L	Z	0.462	ug/L	Yes	No
MW-39	Compliance	Iron, dissolved	12	92%	41.0	33.4	mg/L	Z	0.30	mg/L	Yes	No
MW-39	Compliance	Manganese, dissolved	12	100%	0.53	0.45	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%	0.43	0.34	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	27	mg/L	LN	0.30	mg/L	Yes	No
MW-42	Compliance	Manganese, dissolved	12	100%	5.3	5.0	mg/L	LN	0.05	mg/L	Yes	No
MW-42	Compliance	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-42	Compliance	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No
MW-42	Compliance	Trichloroethene	12	17%	0.51	0.51	ug/L	A	1.0	ug/L	No	No
MW-42	Compliance	Vinyl Chloride	12	92%	0.16	0.14	ug/L	LN	0.20	ug/L	No	No
MW-42	Compliance	Ammonia as N	12[10]	92%	8.4	6.4	mg/L	Z	0.19	mg/L	Yes	No

TABLE 3-1: 2014 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, 2012 through December 31, 2014

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	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
MW-43	Compliance	Arsenic, dissolved	12	33%	0.05	0.05	ug/L	A	0.462	ug/L	No	No
MW-43	Compliance	Iron, dissolved	12	83%	0.87	0.48	mg/L	N	0.30	mg/L	Yes	No
MW-43	Compliance	Manganese, dissolved	12	100%	0.26	0.20	mg/L	Z	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	75%	0.15	0.16	mg/L	LN	0.19	mg/L	No	No
MW-29A	Downgradient	1,1-Dichloroethane	6	0%	0.38 (ND)	0.38	ug/L	B	50	ug/L	No	No
MW-29A	Downgradient	1,4-Dichlorobenzene	6	0%	0.84 (ND)	0.84	ug/L	B	2.0	ug/L	No	No
MW-29A	Downgradient	Arsenic, dissolved	6	100%	1.73	1.61	ug/L	Z	0.462	ug/L	Yes	No
MW-29A	Downgradient	Iron, dissolved	6	100%	4.3	4.10	mg/L	LN	0.30	mg/L	Yes	No
MW-29A	Downgradient	Manganese, dissolved	6	100%	1.4	1.35	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%	0.14	0.11	mg/L	Z	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%	11.4	9.5	ug/L	Z	0.462	ug/L	Yes	Yes (▼)
MW-32	Downgradient	Iron, dissolved	12	100%	0.87	0.70	mg/L	LN	0.30	mg/L	Yes	Yes (▼)
MW-32	Downgradient	Manganese, dissolved	12	100%	2.7	2.31	mg/L	LN	0.05	mg/L	Yes	No
MW-32	Downgradient	cis-1,2-dichloroethene	12	0%	0.81 (ND)	0.81	ug/L	B	35	ug/L	No	No
MW-32	Downgradient	Ethyl ether	12	0%	0.72 (ND)	0.72	ug/L	B	50	ug/L	No	No

TABLE 3-1: 2014 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, 2012 through December 31, 2014

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	Trichloroethene	12	92%	0.70	0.57	ug/L	Z	1.0	ug/L	No	No
MW-32	Downgradient	Vinyl Chloride	12	100%	0.63	0.49	ug/L	LN	0.20	ug/L	Yes	No
MW-32	Downgradient	Ammonia as N	12	33%	0.17	0.17	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%	0.37	0.25	ug/L	Z	0.462	ug/L	No	No
MW-33A	Downgradient	Iron, dissolved	6	83%	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	83%	0.28	0.28	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%	2.66	2.38	ug/L	LN	0.462	ug/L	Yes	Yes (▼)
MW-33C	Downgradient	Iron, dissolved	12	17%	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	25%	0.15	0.15	mg/L	A	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%	0.81	0.73	ug/L	LN	0.462	ug/L	Yes	Yes (▼)

TABLE 3-1: 2014 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, 2012 through December 31, 2014

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	Iron, dissolved	12	17%	0.13	0.13	mg/L	A	0.3	mg/L	No	No
MW-36A	Downgradient	Manganese, dissolved	12	58%	0.0063	0.003	mg/L	LN	0.05	mg/L	No	No
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[8]	25%	0.072	0.072	mg/L	A	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 2014; arrows indicated increasing (▲) or decreasing (▼) trends.

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

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

[9] For MW-34C, gross outliers of 25 mg/L from 3-4-14 and 59 mg/L from 9-23-14 were removed prior to UCL calculation

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

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

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

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

A*** = MTCAStat suggests use of the Z-score method but then cites inability to calculate due to presence of censored value; 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 3-1: 2014 Annual Groundwater Cleanup Level Statistical Evaluation Summary

Olympic View Sanitary Landfill

Statistical Methodology: calculation of 95% UCL of mean per MTCAStat

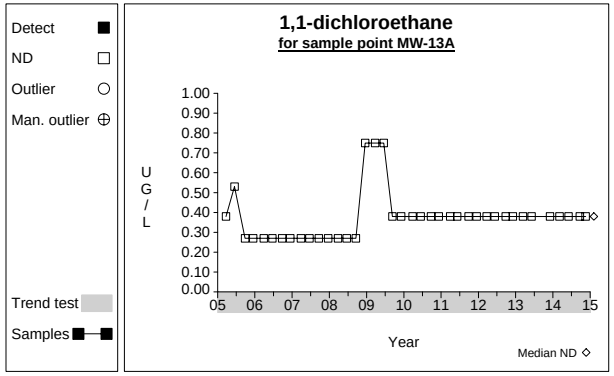
Data Input (general): 3-year "moving window", updated annually

Data Input (specific): January 1, 2012 through December 31, 2014

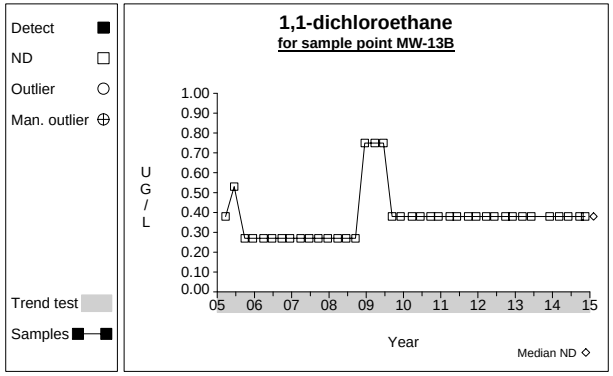
Wells Evaluated: (1) Compliance -- MW-15R, MW-34A, MW-34C, MW-39, MW-42, MW-43; (2) Downgradient -- MW-9+, MW-29A, MW-32, MW-33A, MW-33C, MW-36A

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]
LN = The 95% UCL of the mean is calculated using Land's formula since lognormal distribution is indicated.												
N = The 95% UCL of the mean is calculated using a normal-based t-statistic since a normal distribution is indicated.												
Z = the 95% UCL of the mean is calculated using the Z-score method in MTCAStat since neither normal nor lognormal distribution can be determined.												

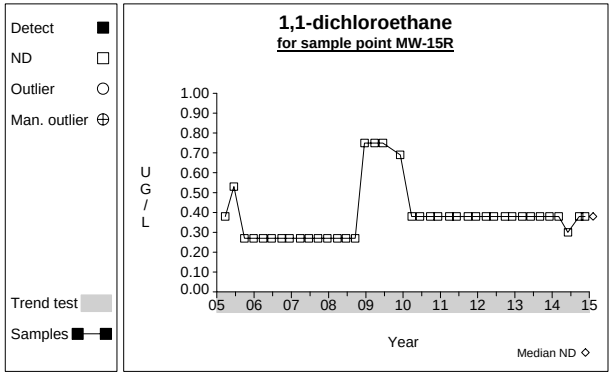
Time Series



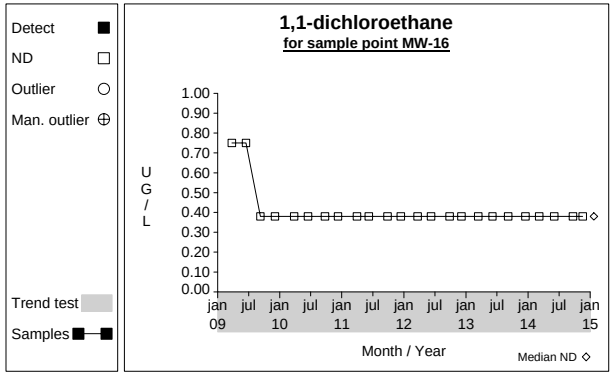
Graph 1



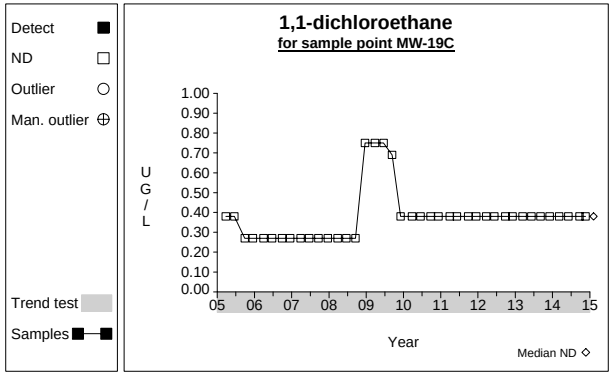
Graph 2



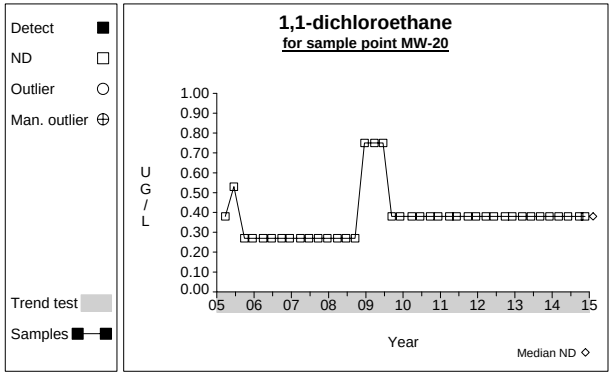
Graph 3



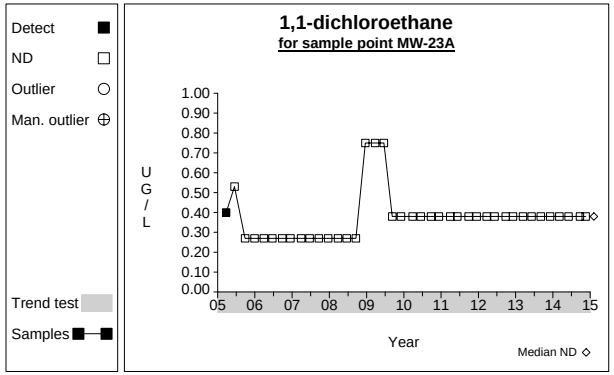
Graph 4



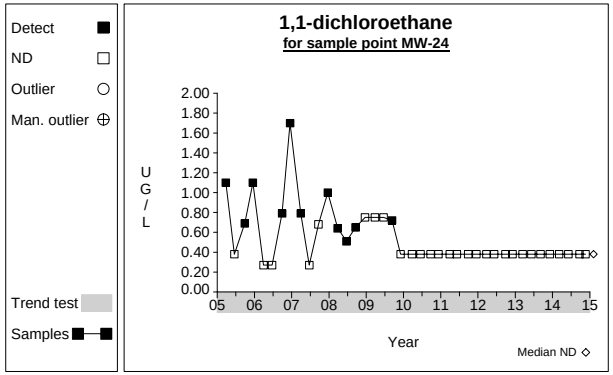
Graph 5



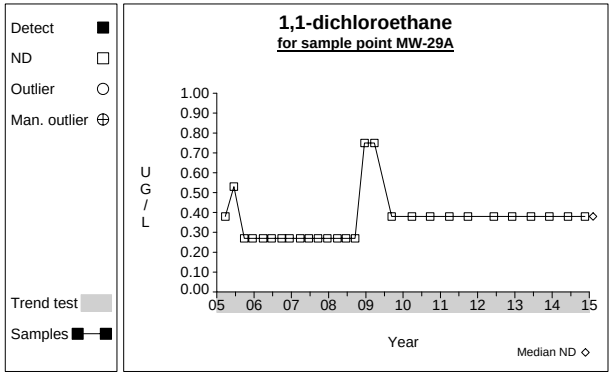
Graph 6



Graph 7

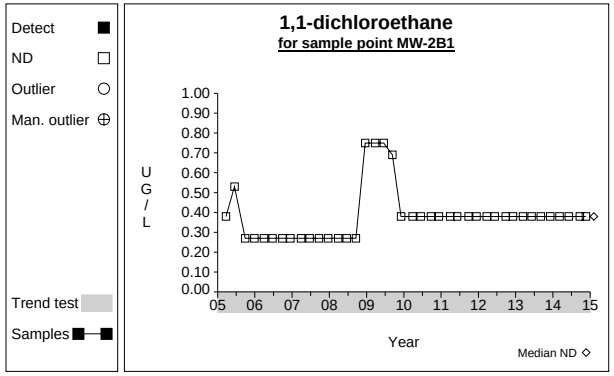


Graph 8

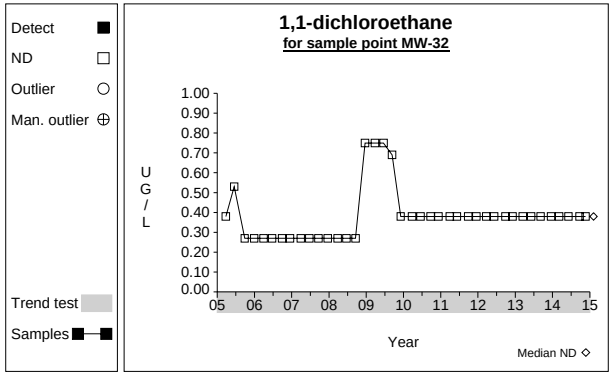


Graph 9

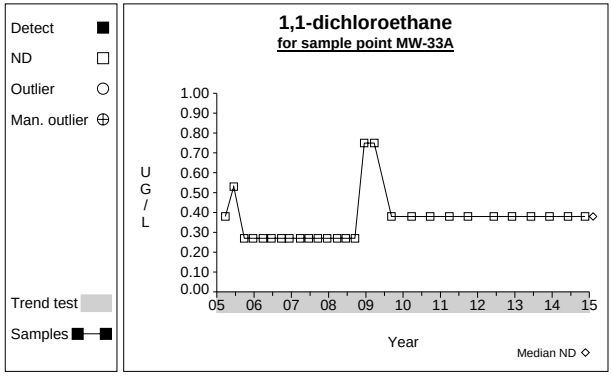
Time Series



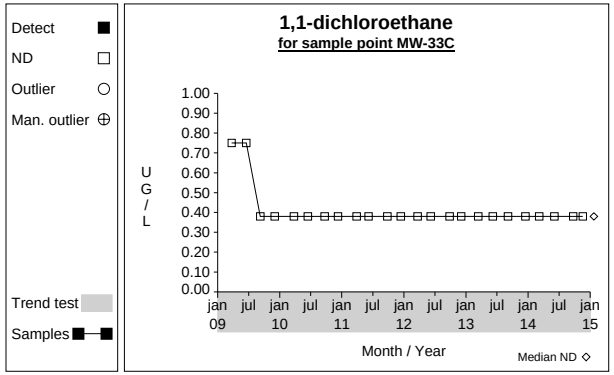
Graph 10



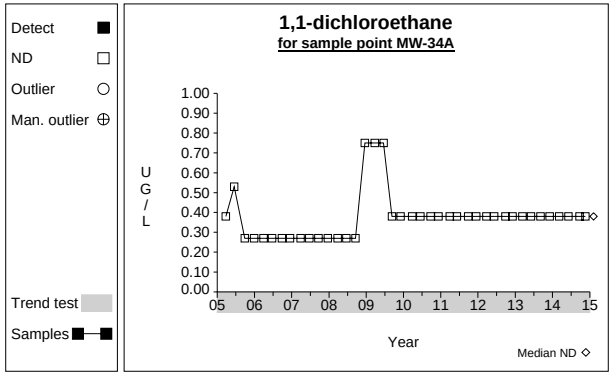
Graph 11



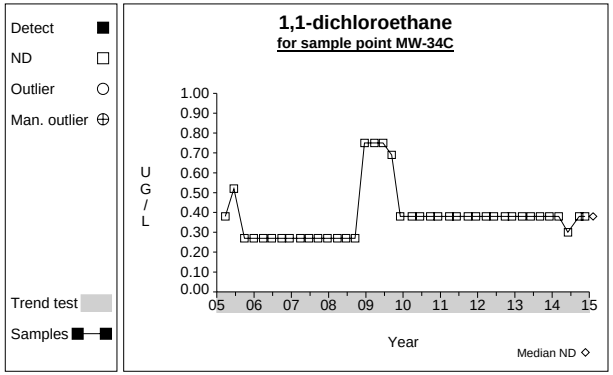
Graph 12



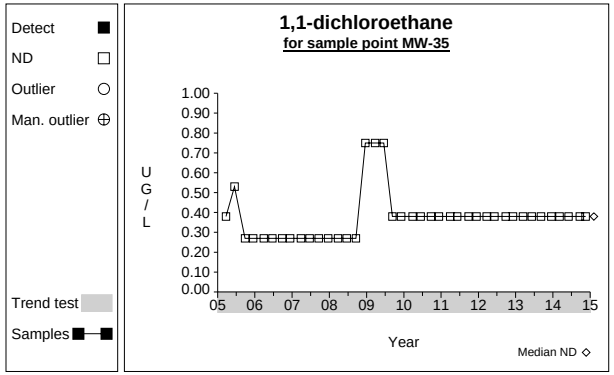
Graph 13



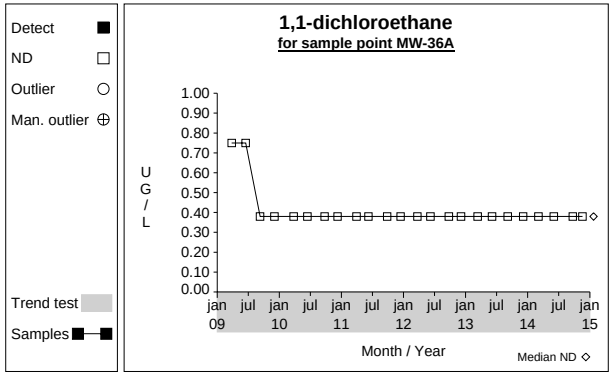
Graph 14



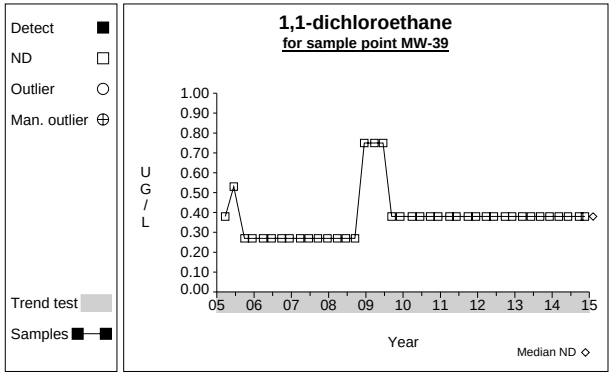
Graph 15



Graph 16

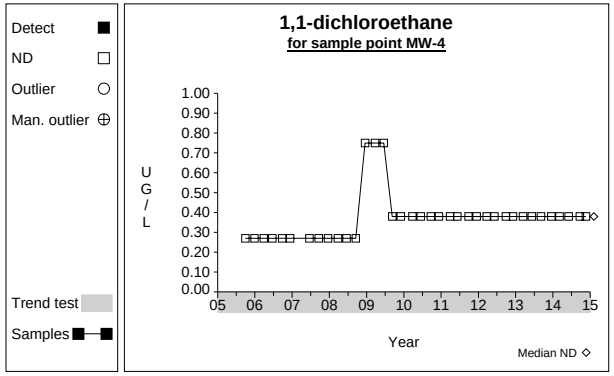


Graph 17

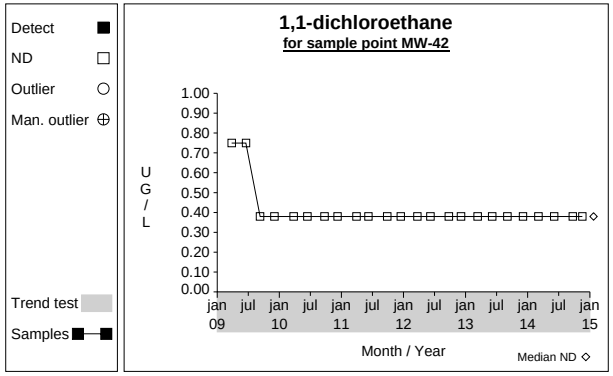


Graph 18

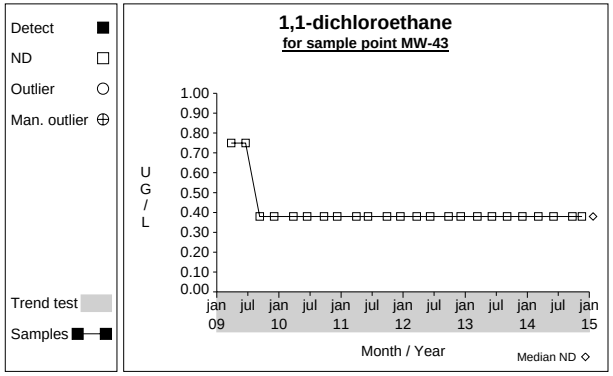
Time Series



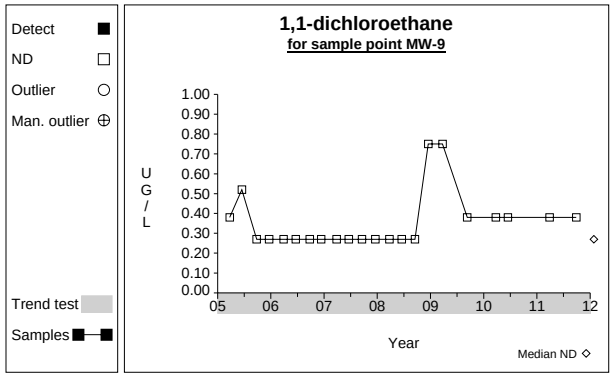
Graph 19



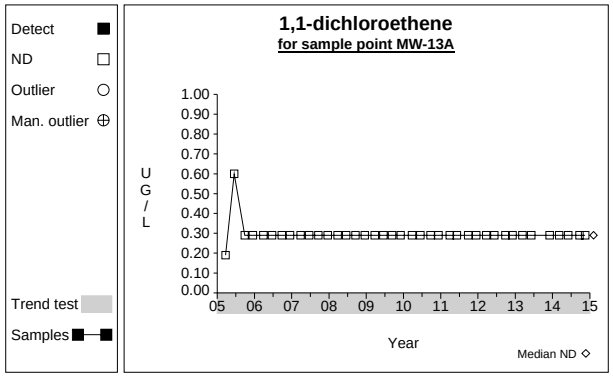
Graph 20



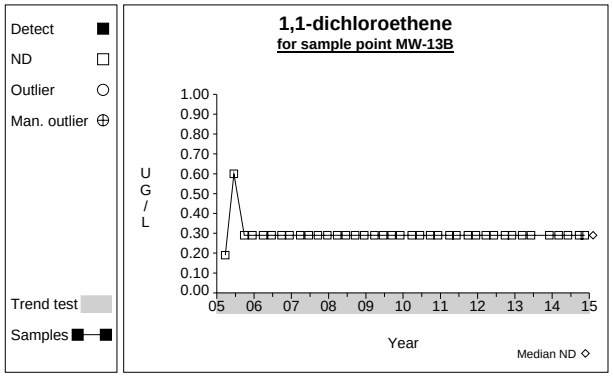
Graph 21



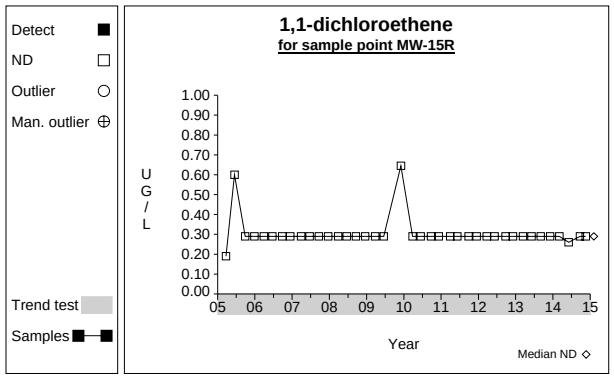
Graph 22



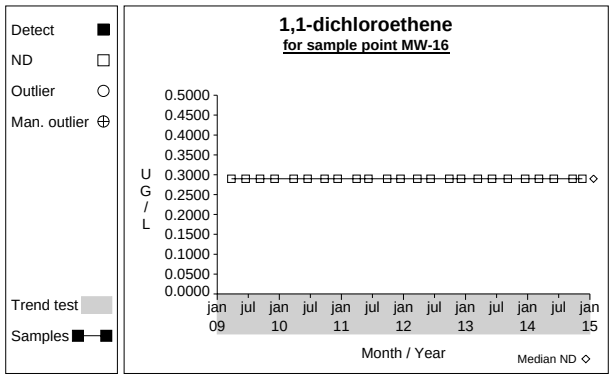
Graph 23



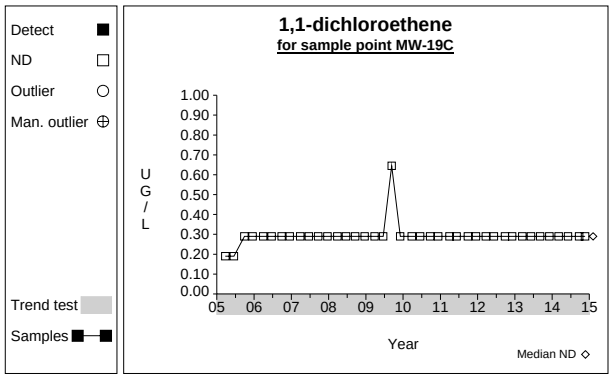
Graph 24



Graph 25

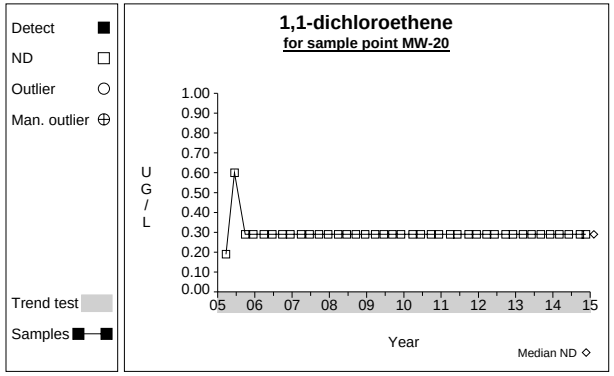


Graph 26

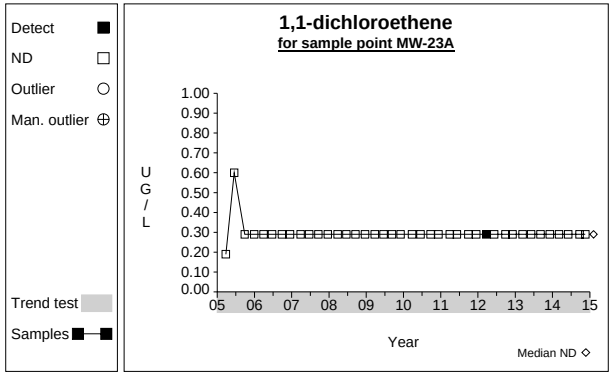


Graph 27

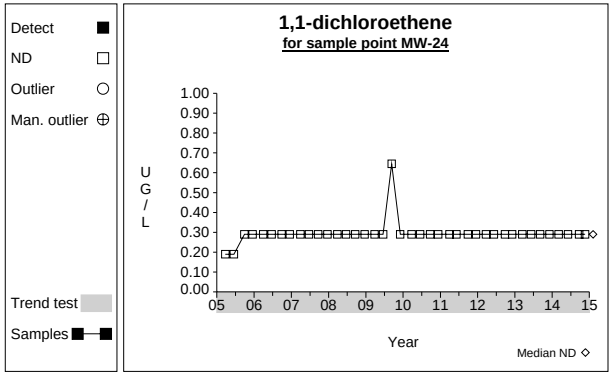
Time Series



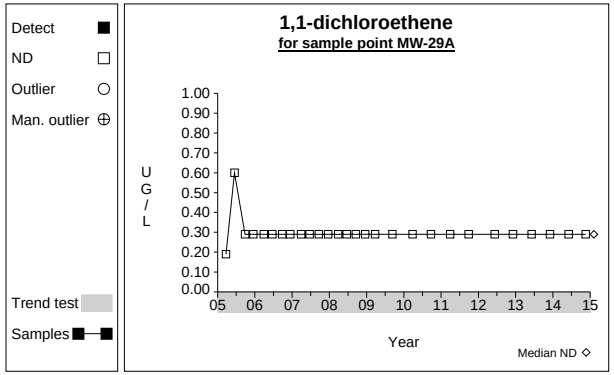
Graph 28



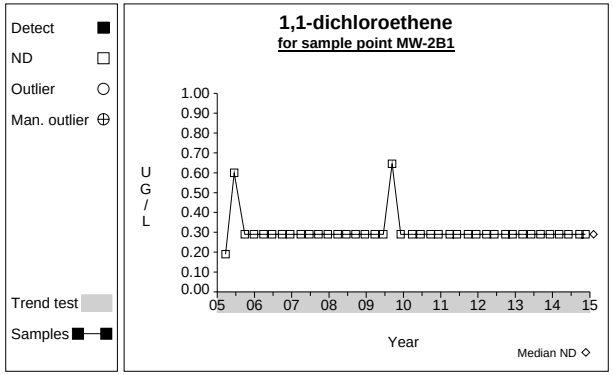
Graph 29



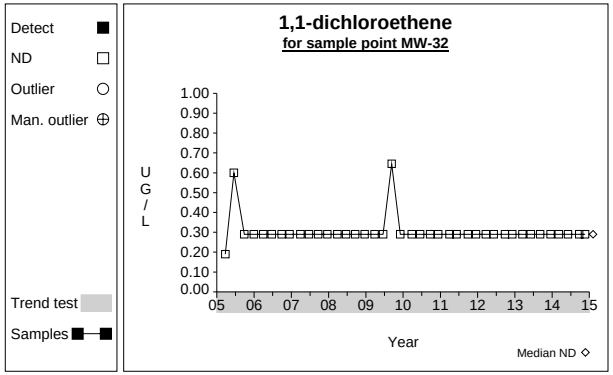
Graph 30



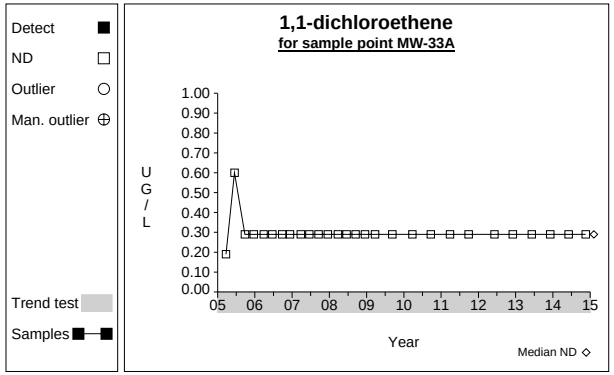
Graph 31



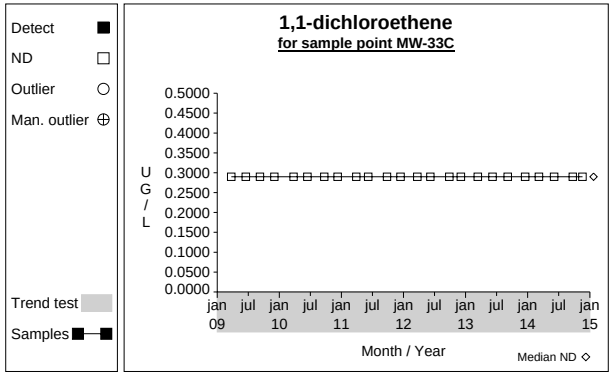
Graph 32



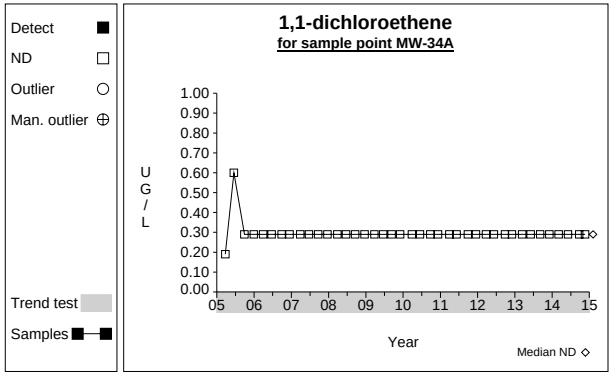
Graph 33



Graph 34

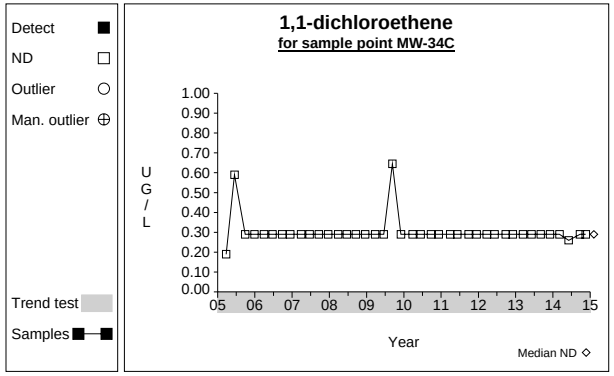


Graph 35

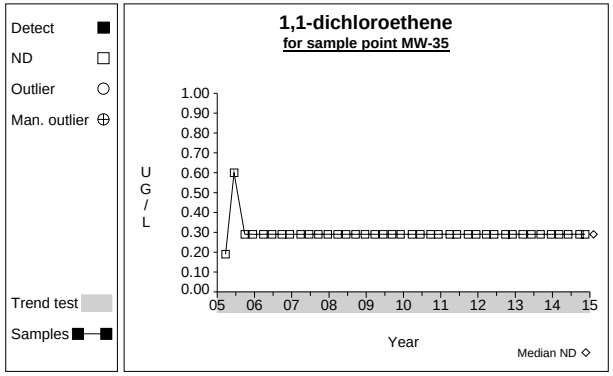


Graph 36

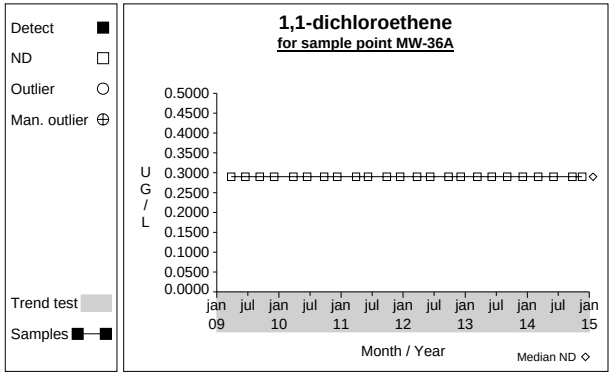
Time Series



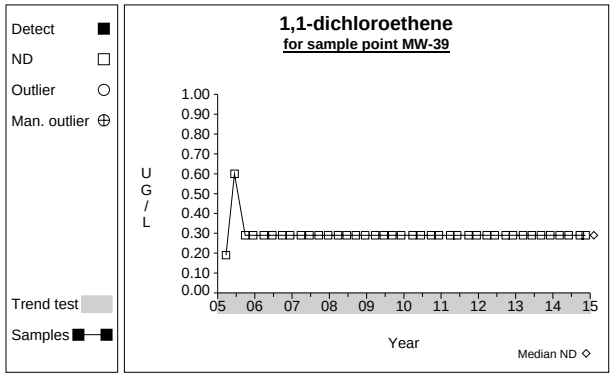
Graph 37



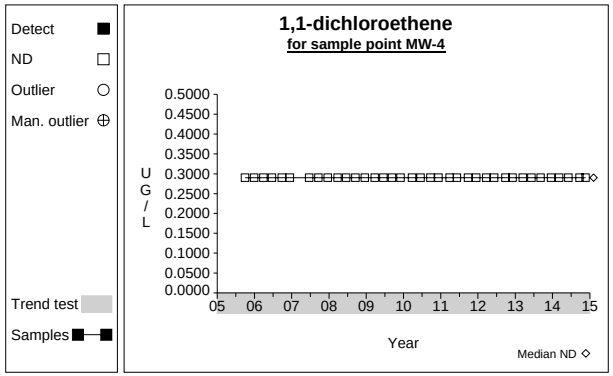
Graph 38



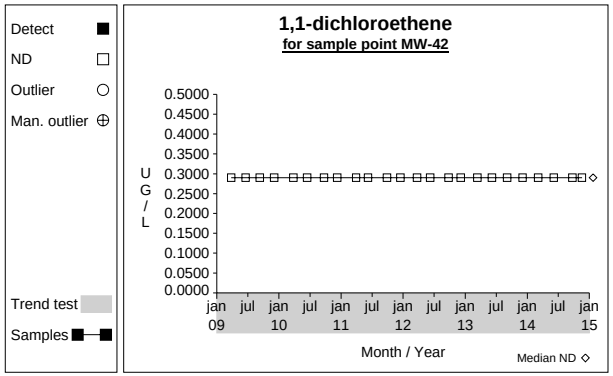
Graph 39



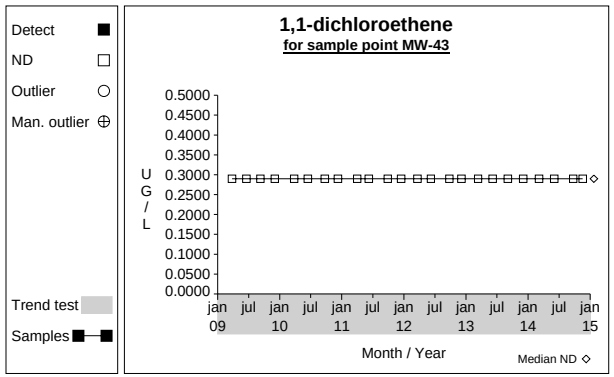
Graph 40



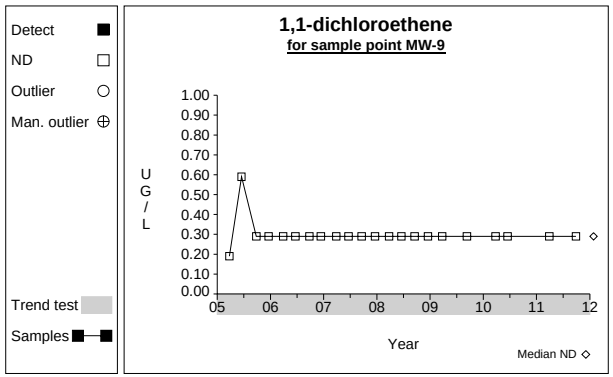
Graph 41



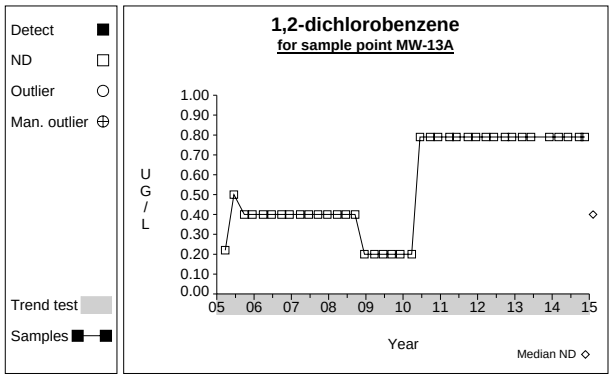
Graph 42



Graph 43

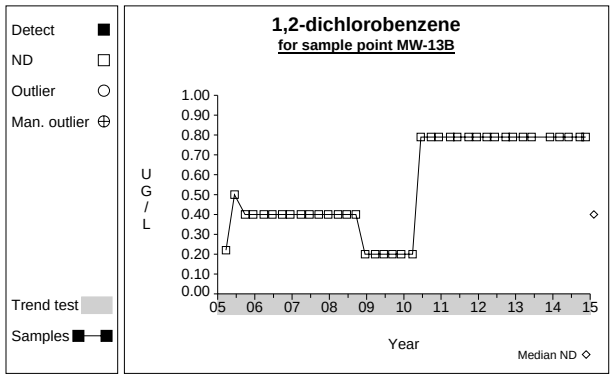


Graph 44

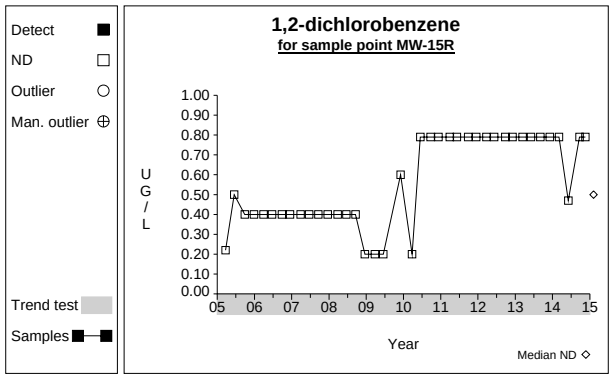


Graph 45

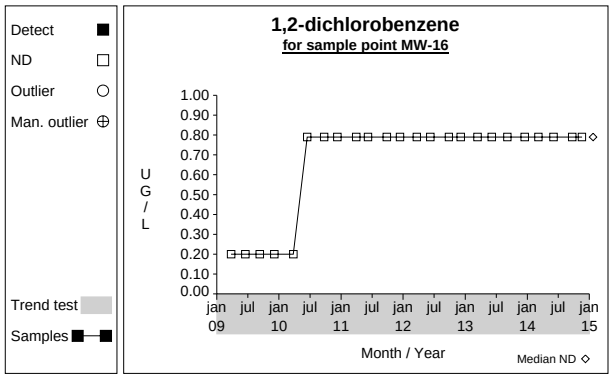
Time Series



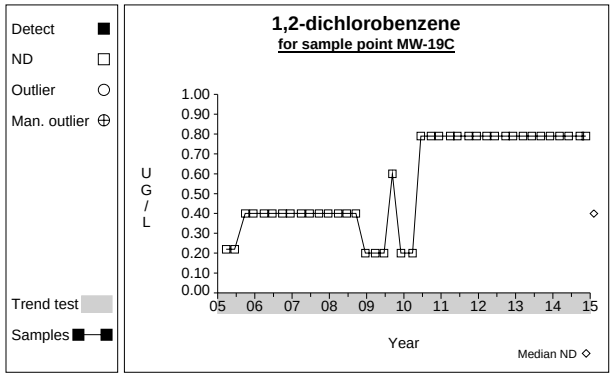
Graph 46



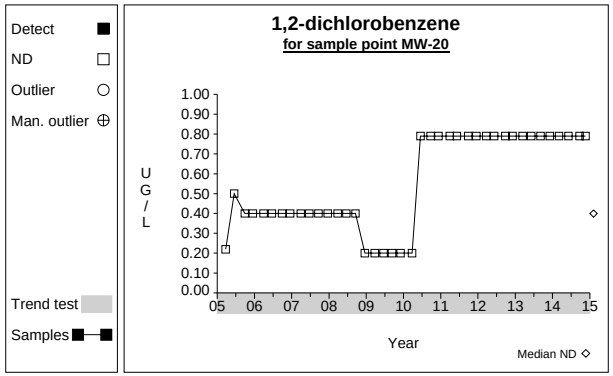
Graph 47



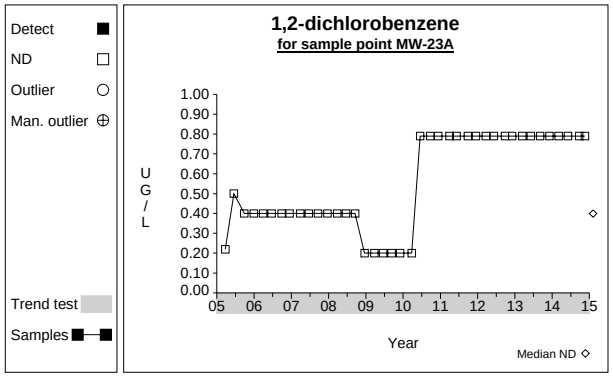
Graph 48



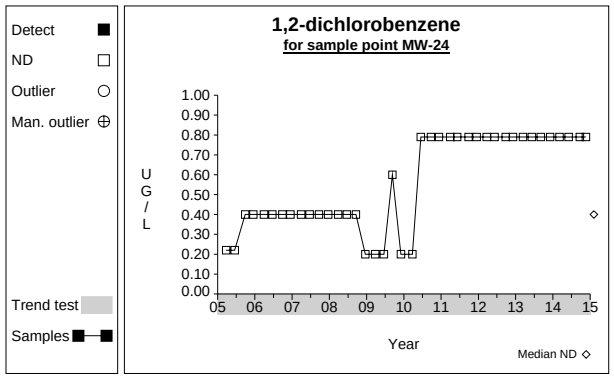
Graph 49



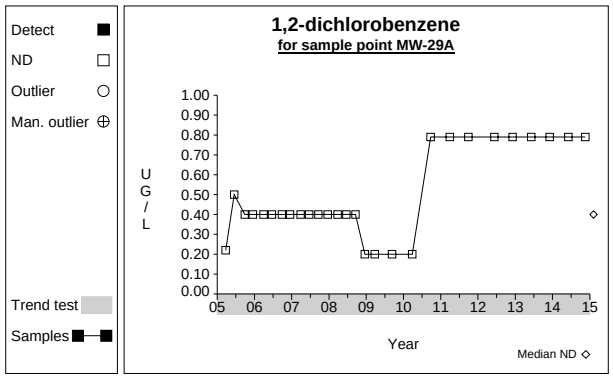
Graph 50



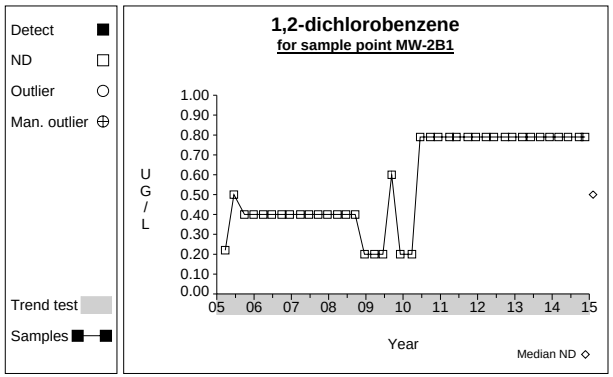
Graph 51



Graph 52

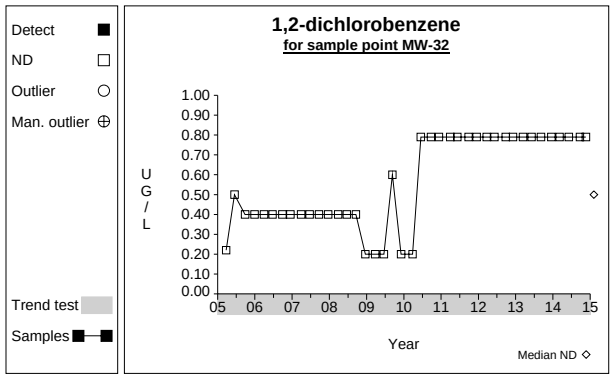


Graph 53

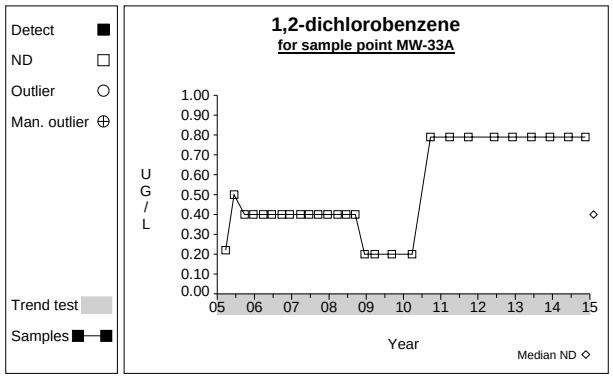


Graph 54

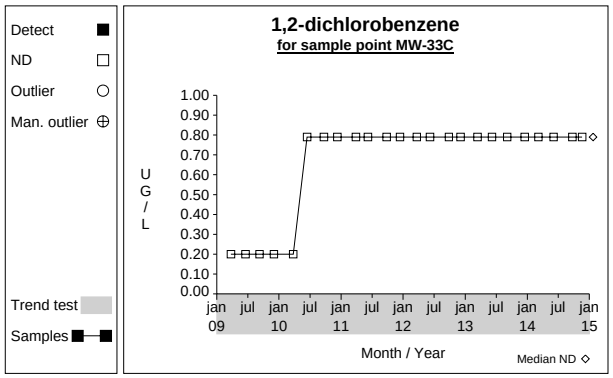
Time Series



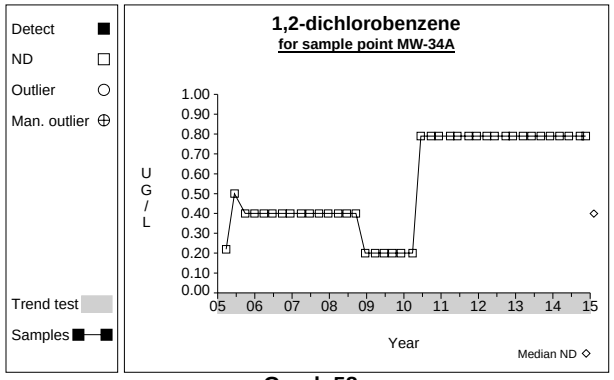
Graph 55



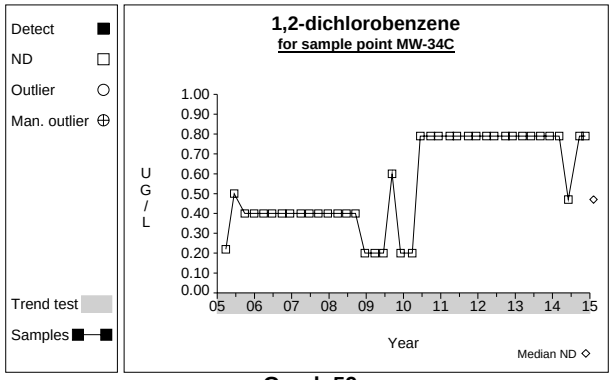
Graph 56



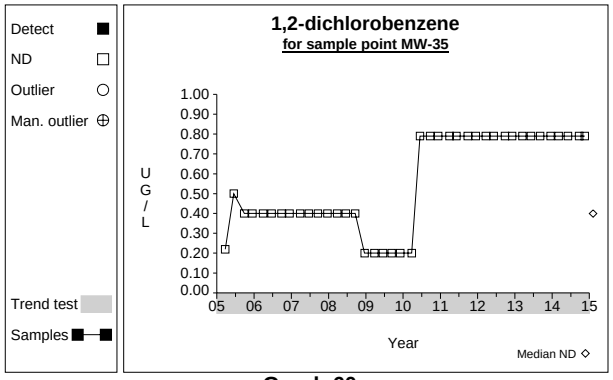
Graph 57



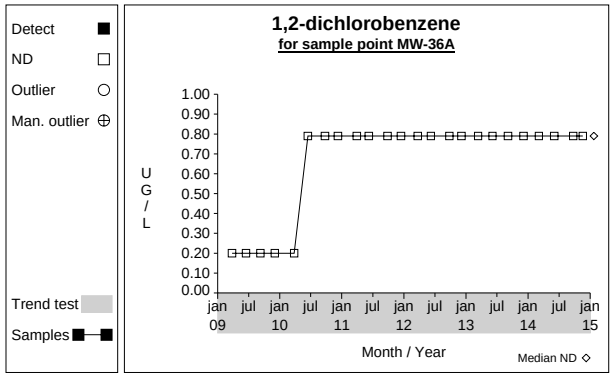
Graph 58



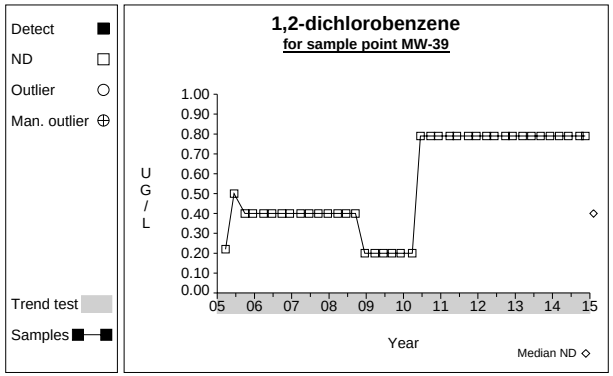
Graph 59



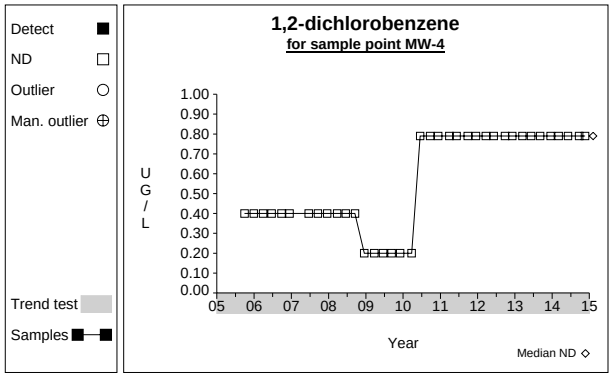
Graph 60



Graph 61

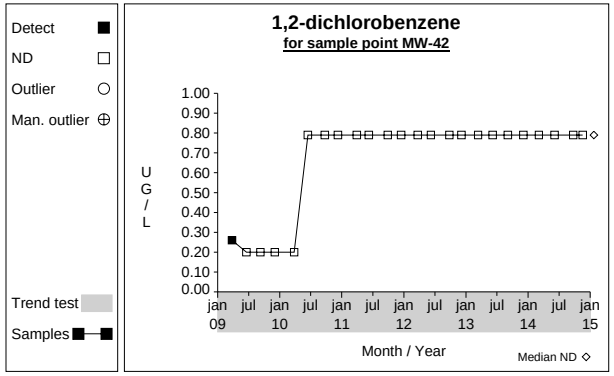


Graph 62

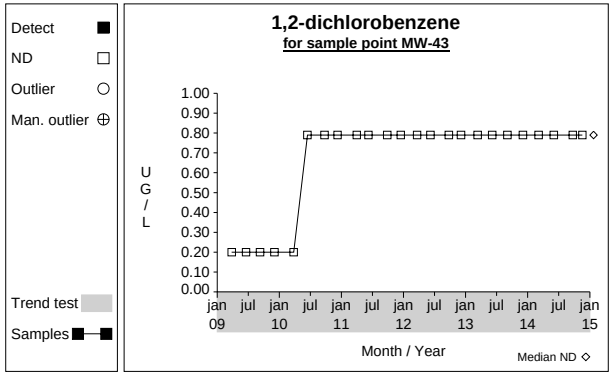


Graph 63

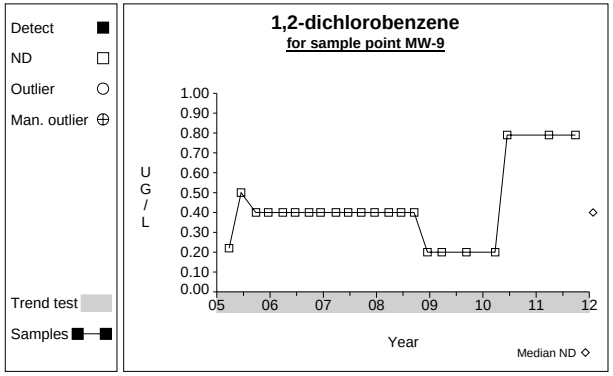
Time Series



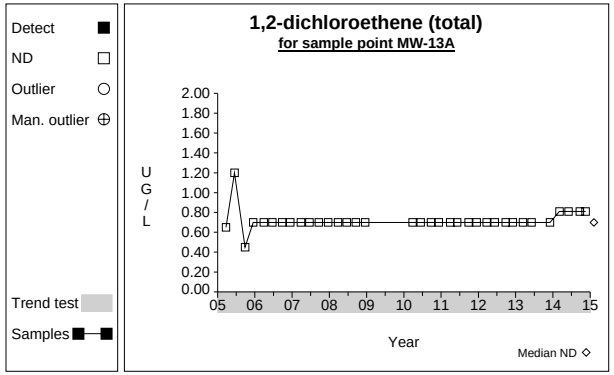
Graph 64



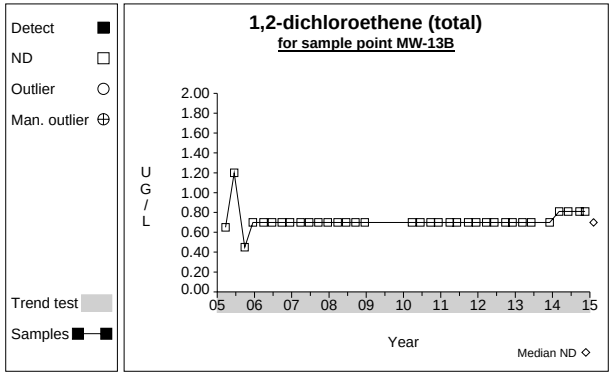
Graph 65



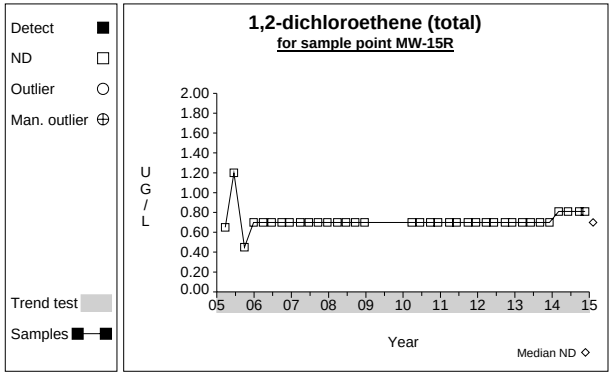
Graph 66



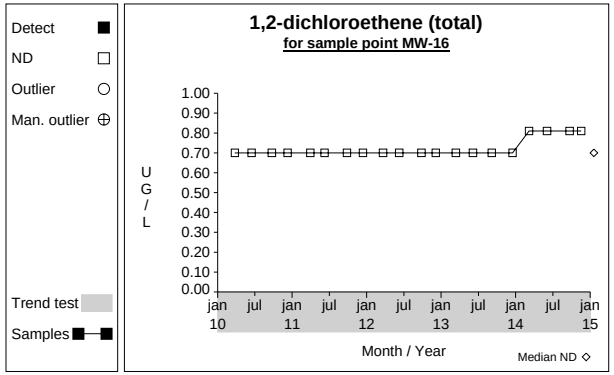
Graph 67



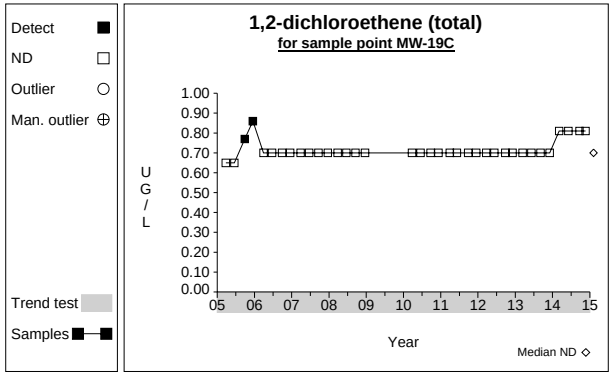
Graph 68



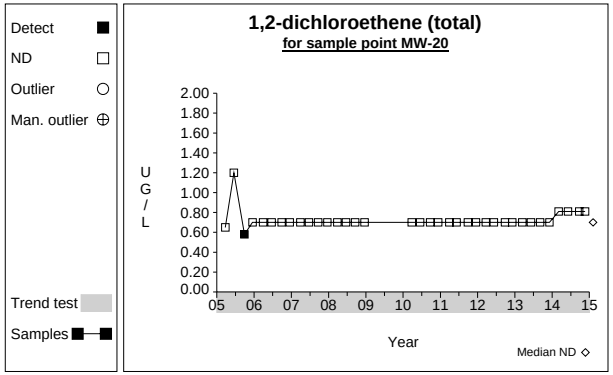
Graph 69



Graph 70

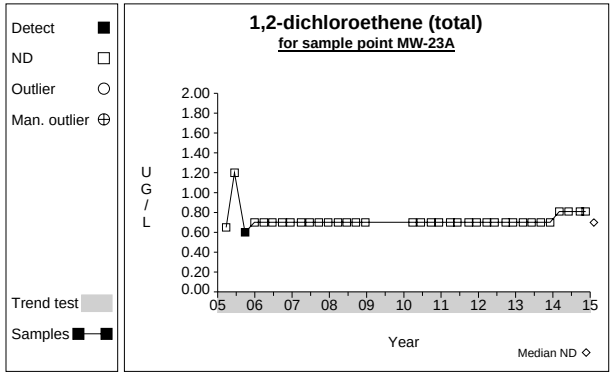


Graph 71

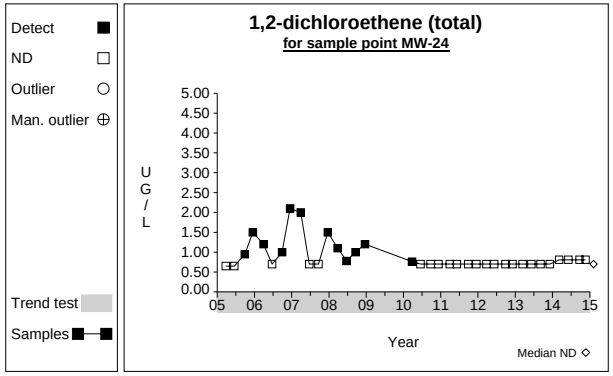


Graph 72

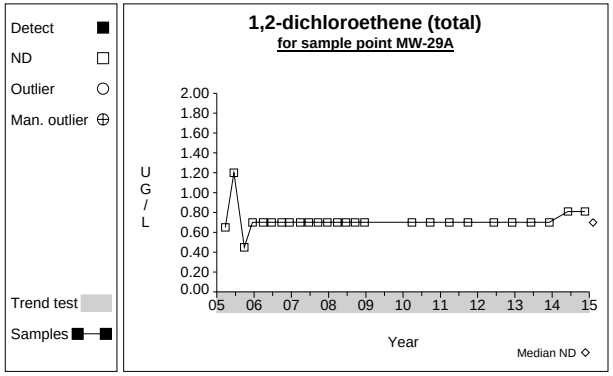
Time Series



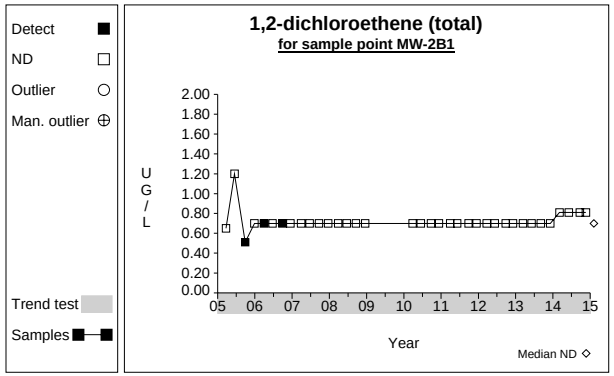
Graph 73



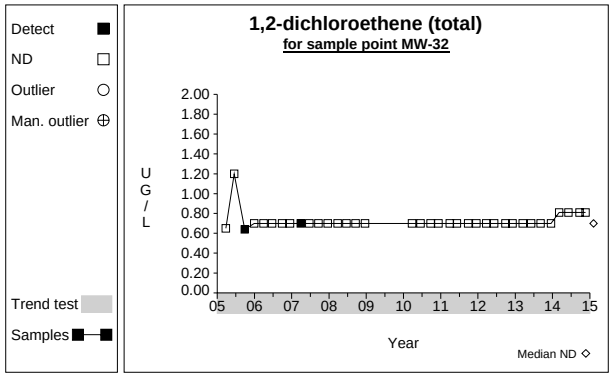
Graph 74



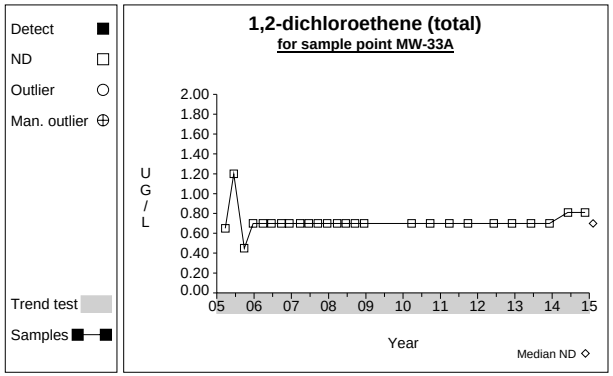
Graph 75



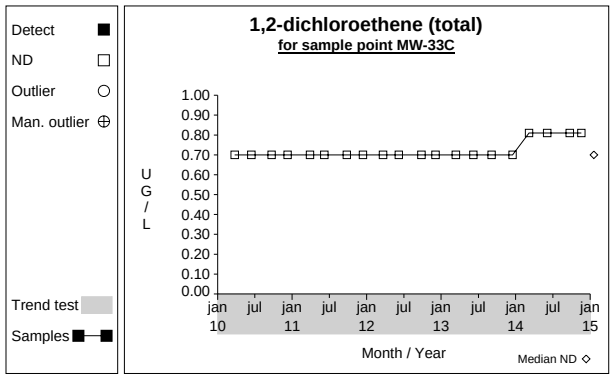
Graph 76



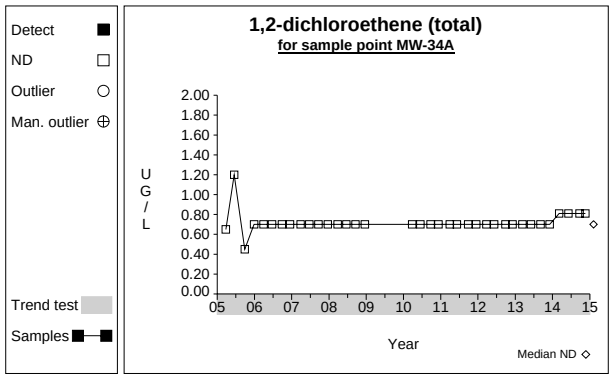
Graph 77



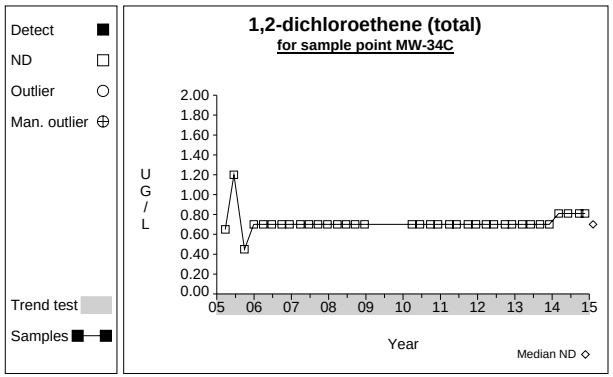
Graph 78



Graph 79

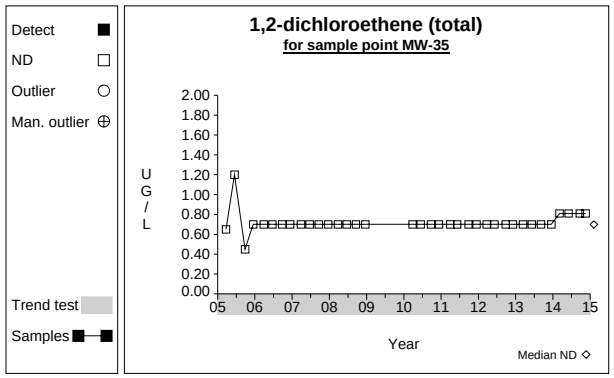


Graph 80

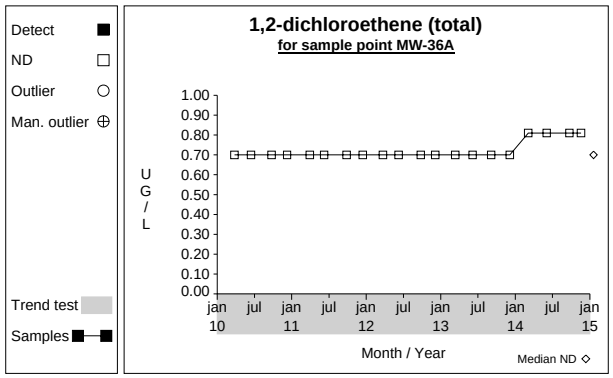


Graph 81

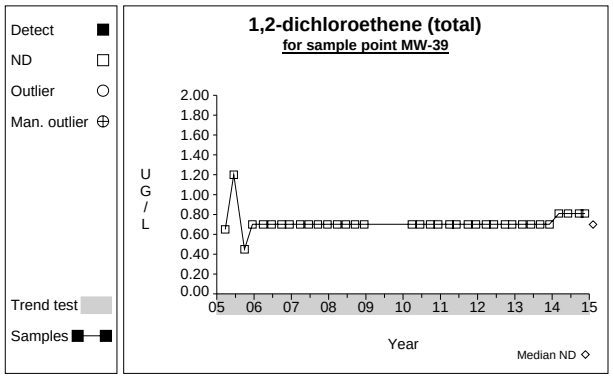
Time Series



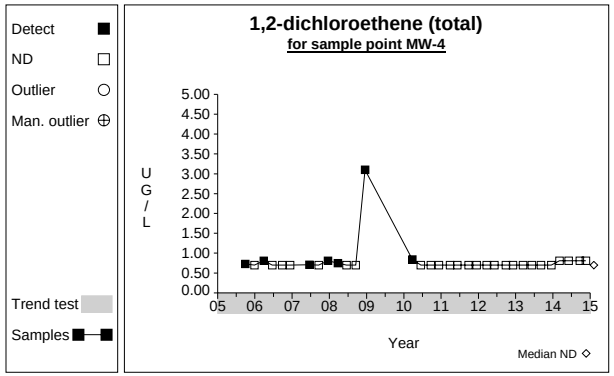
Graph 82



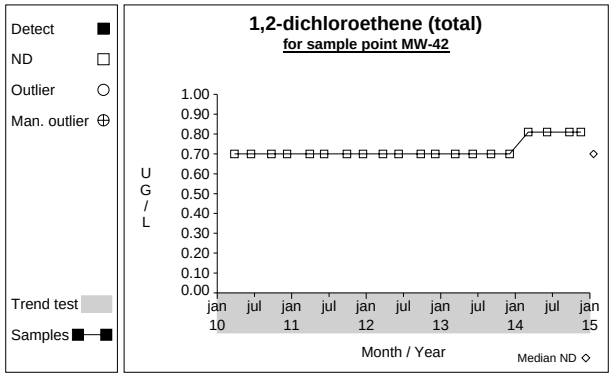
Graph 83



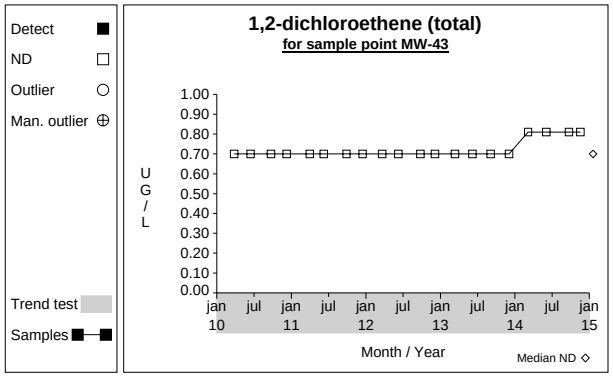
Graph 84



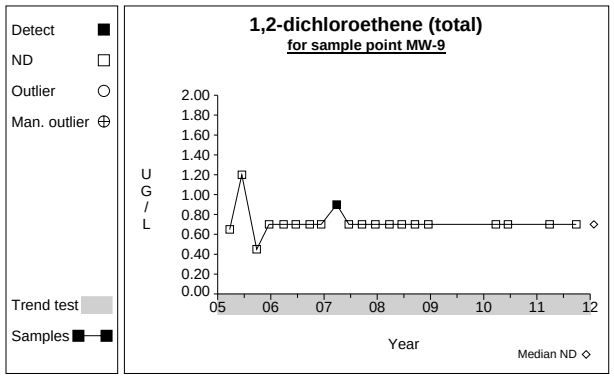
Graph 85



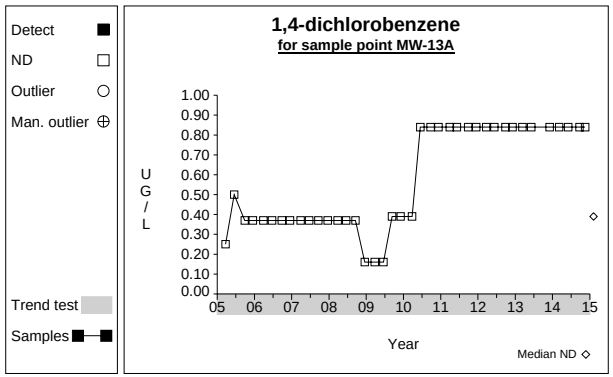
Graph 86



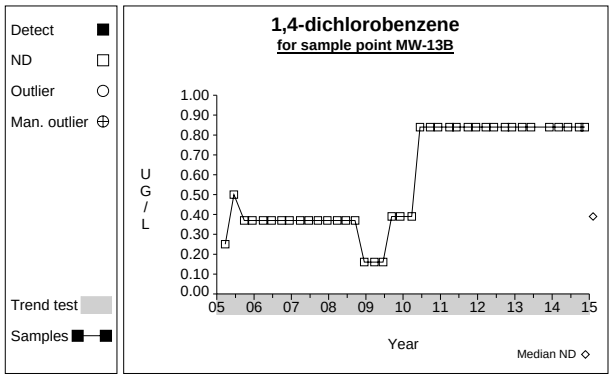
Graph 87



Graph 88

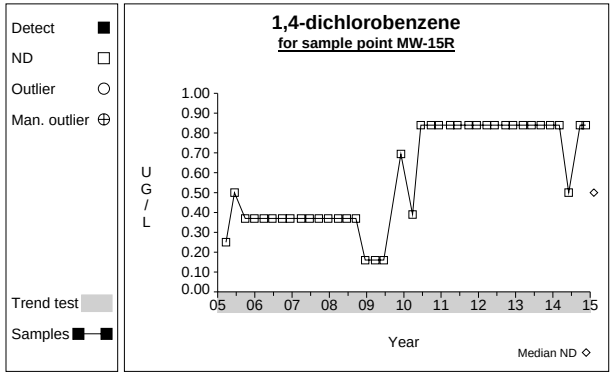


Graph 89

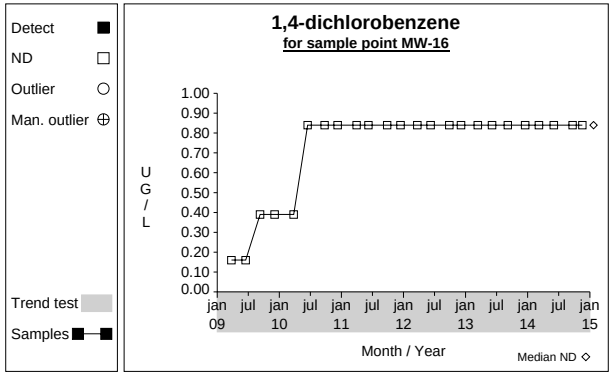


Graph 90

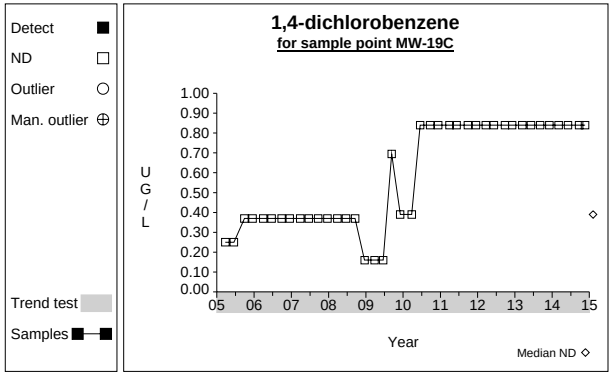
Time Series



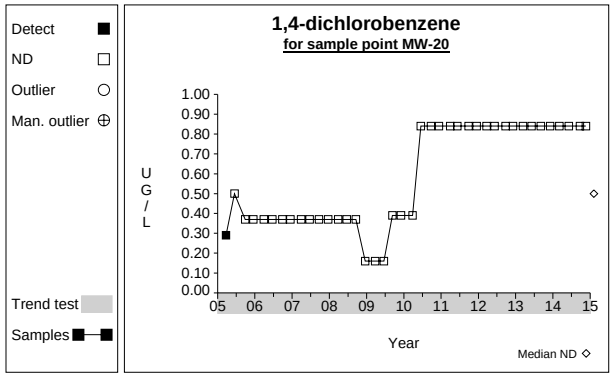
Graph 91



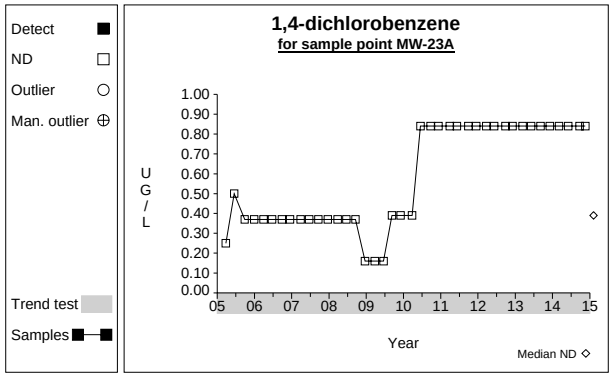
Graph 92



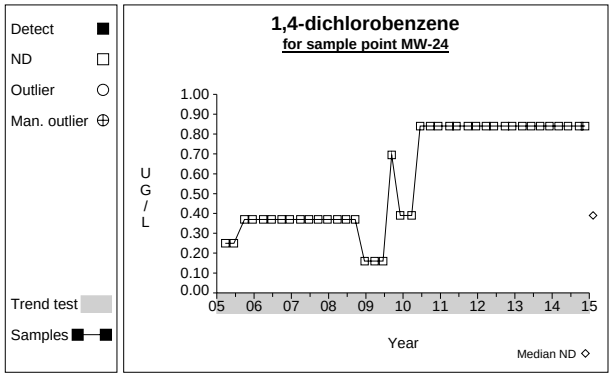
Graph 93



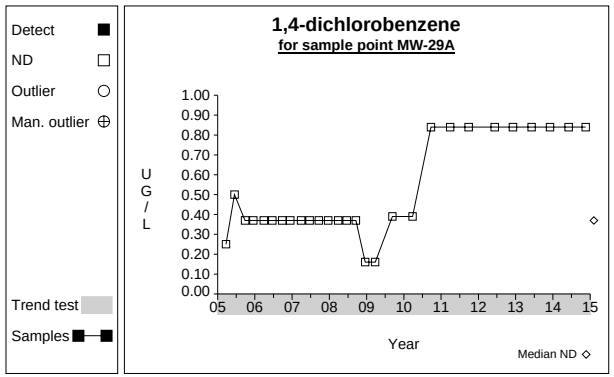
Graph 94



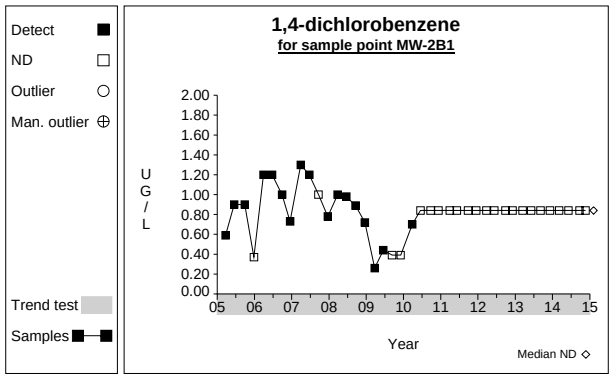
Graph 95



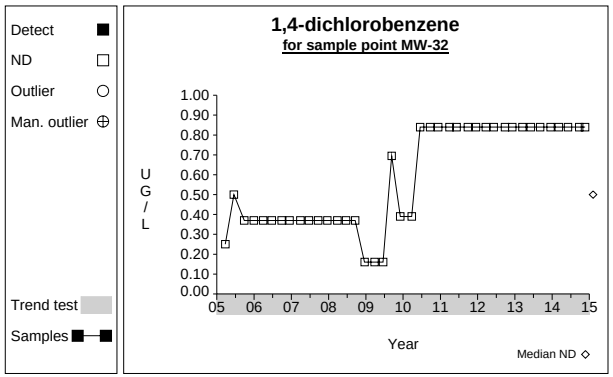
Graph 96



Graph 97

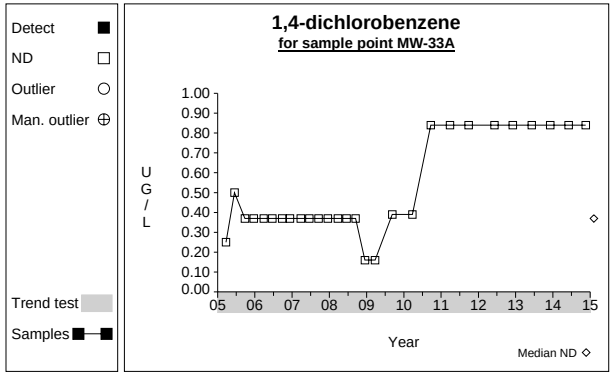


Graph 98

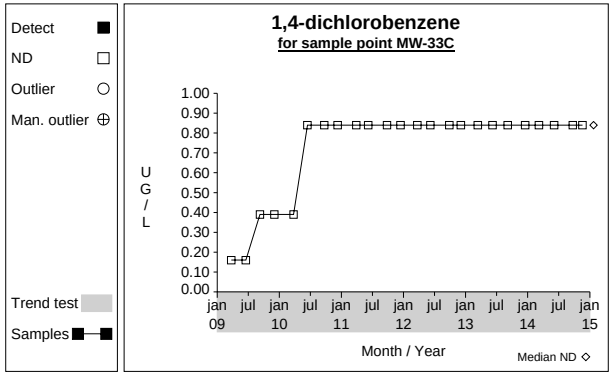


Graph 99

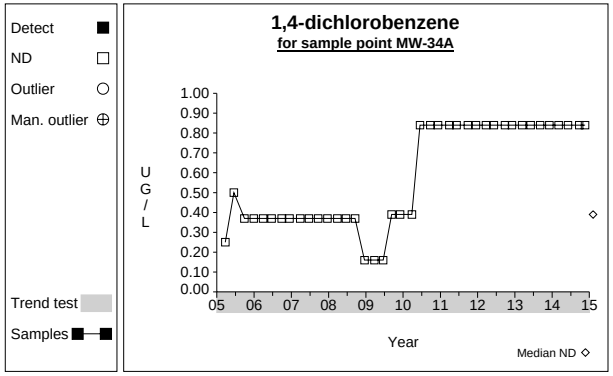
Time Series



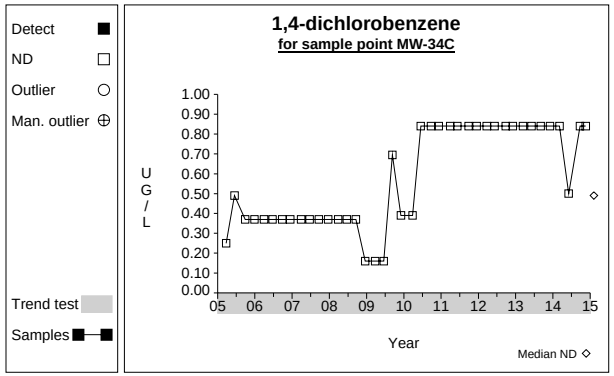
Graph 100



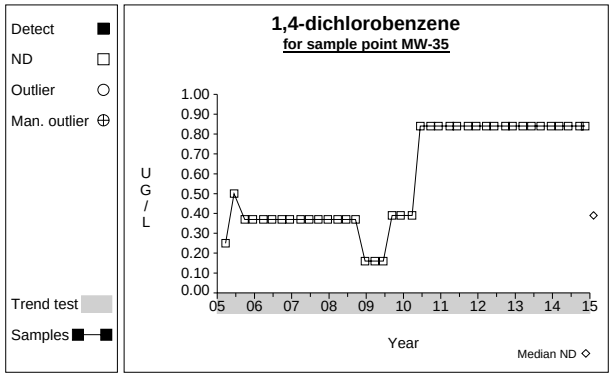
Graph 101



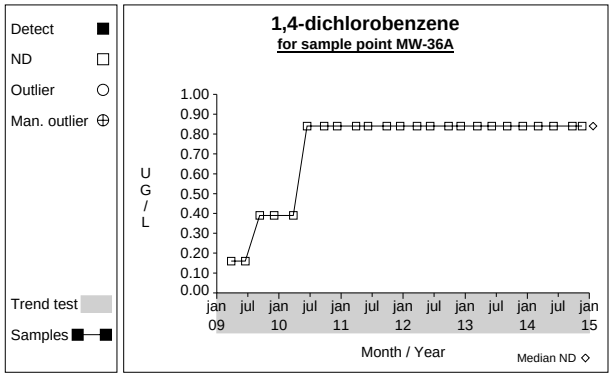
Graph 102



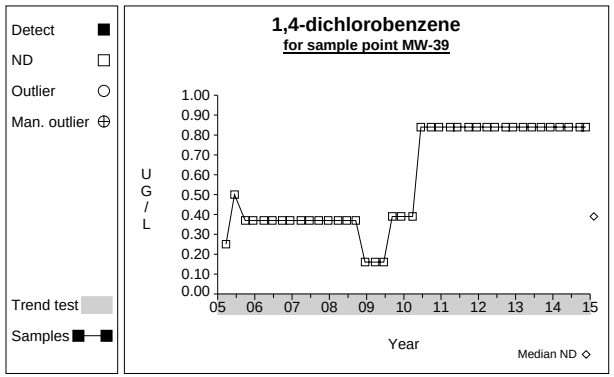
Graph 103



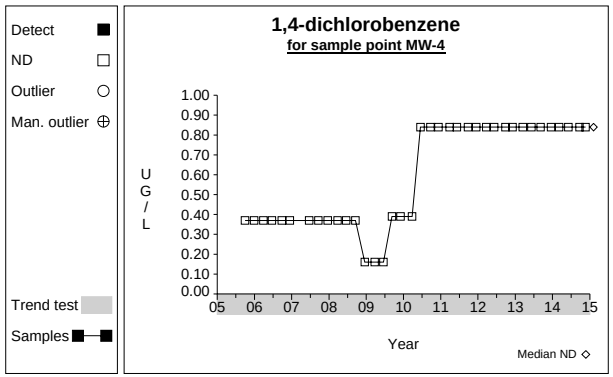
Graph 104



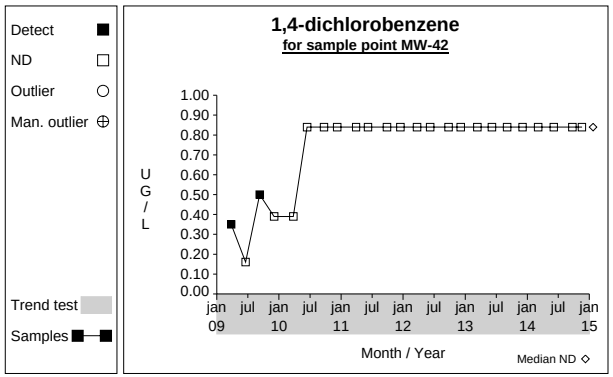
Graph 105



Graph 106

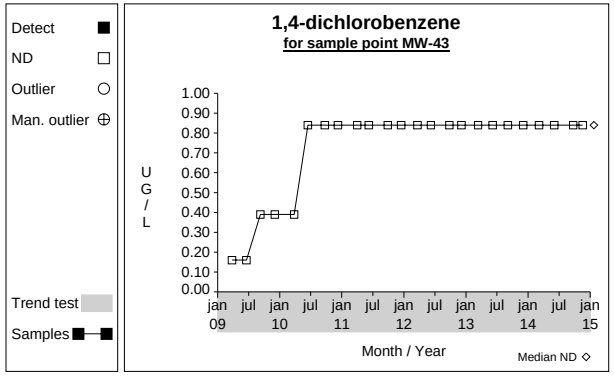


Graph 107

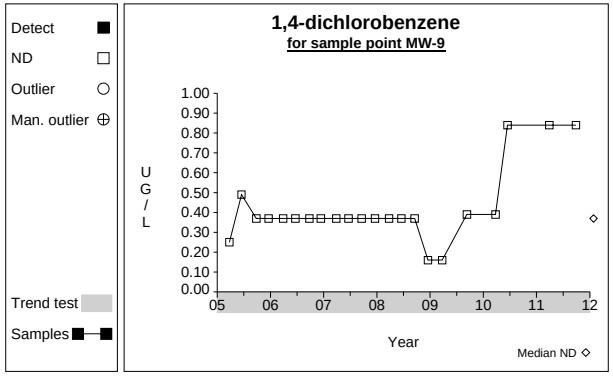


Graph 108

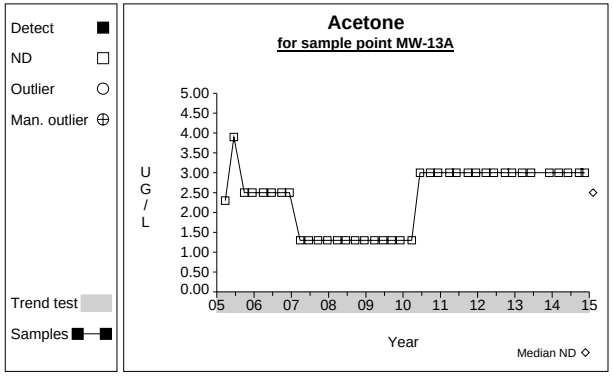
Time Series



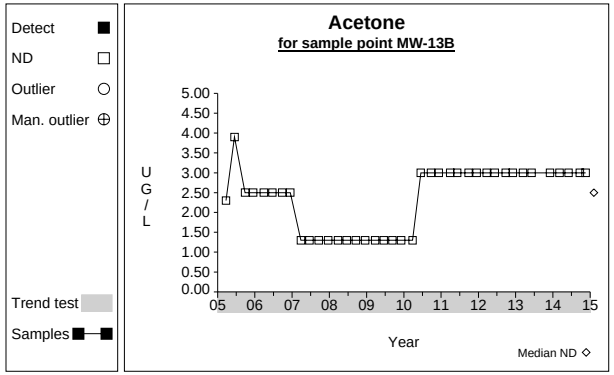
Graph 109



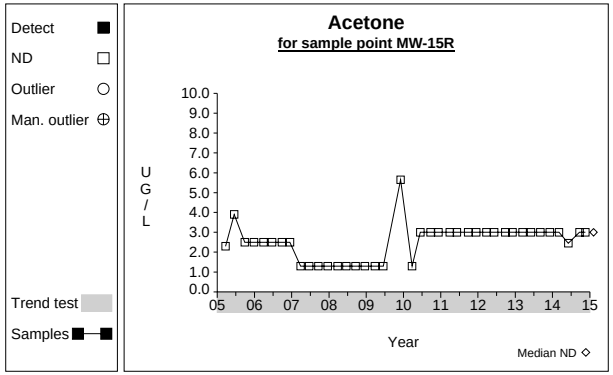
Graph 110



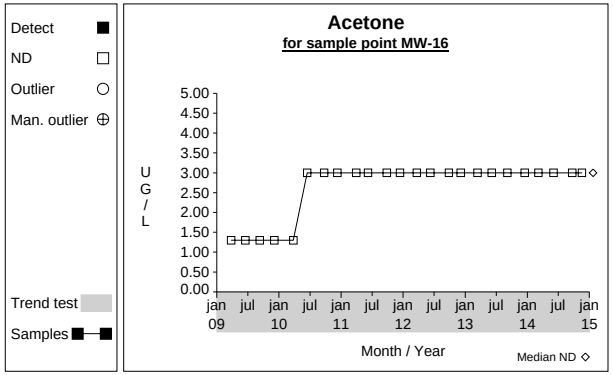
Graph 111



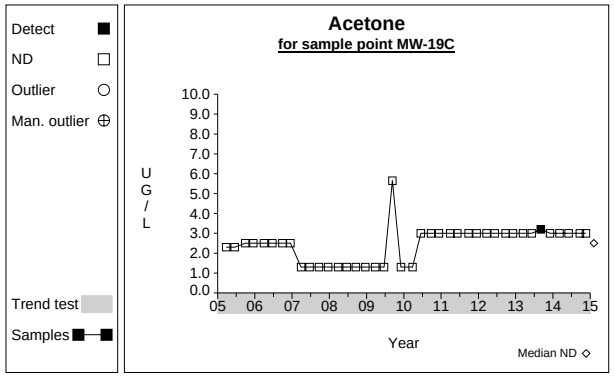
Graph 112



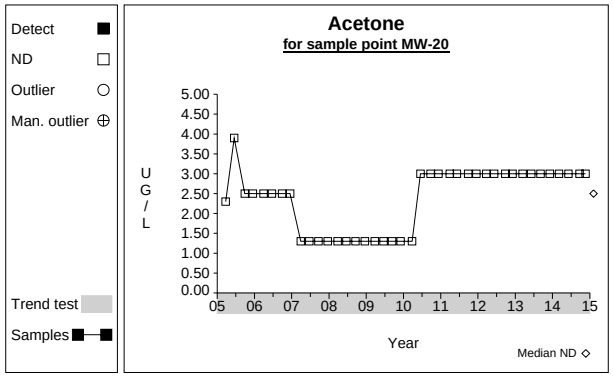
Graph 113



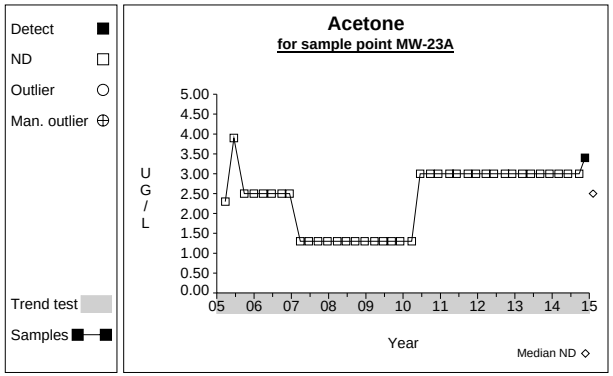
Graph 114



Graph 115

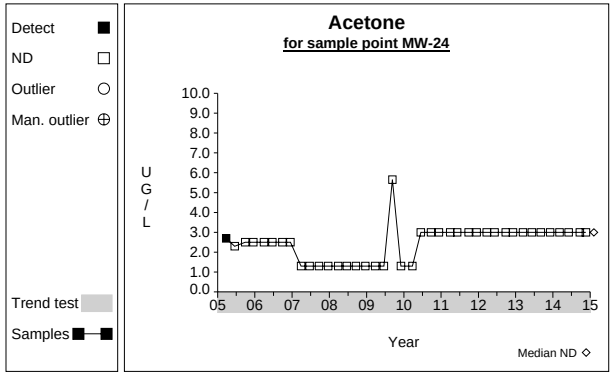


Graph 116

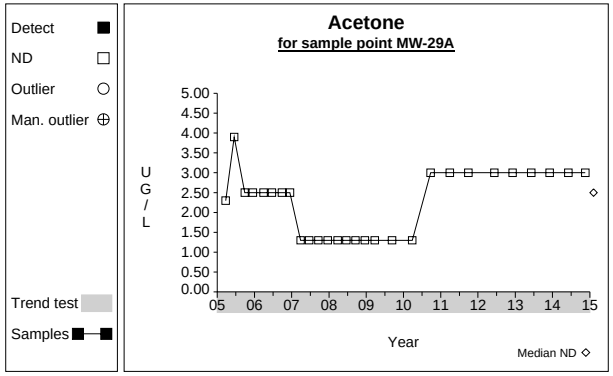


Graph 117

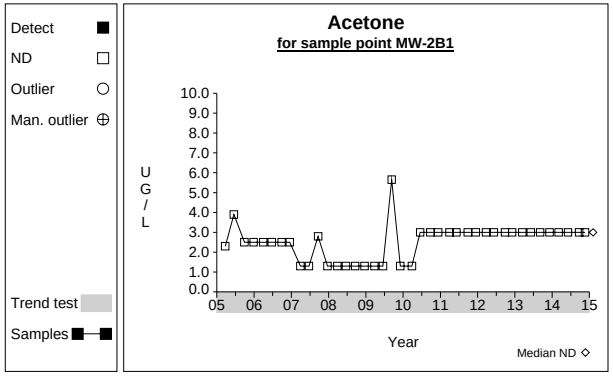
Time Series



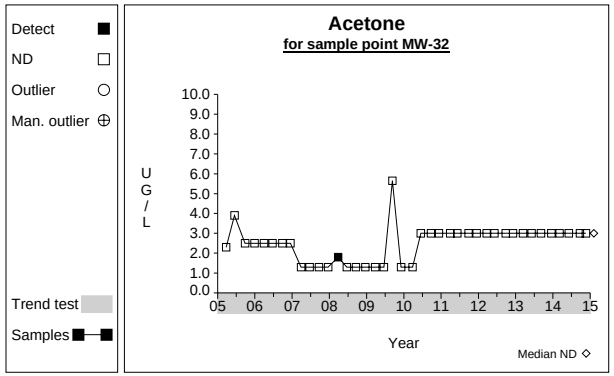
Graph 118



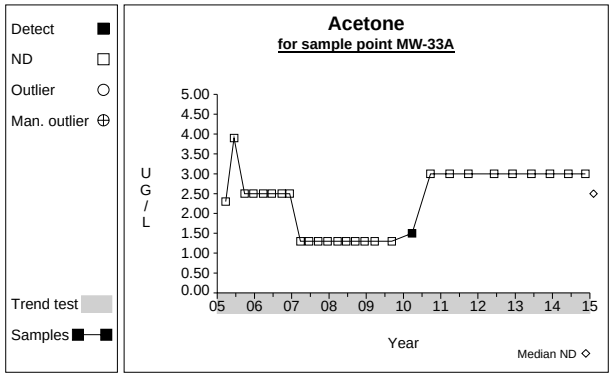
Graph 119



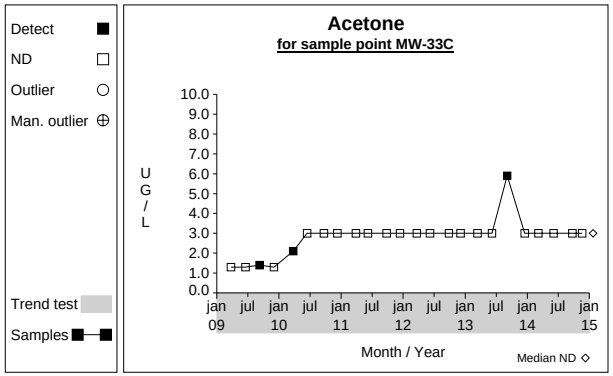
Graph 120



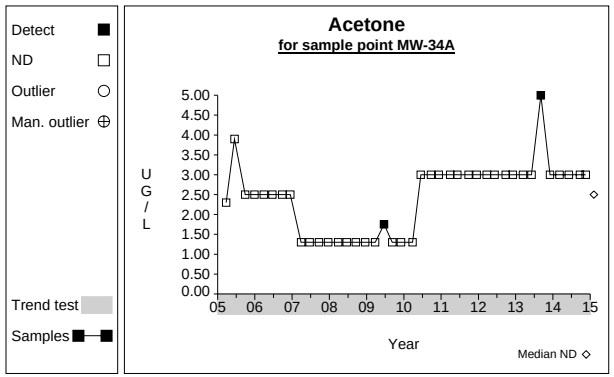
Graph 121



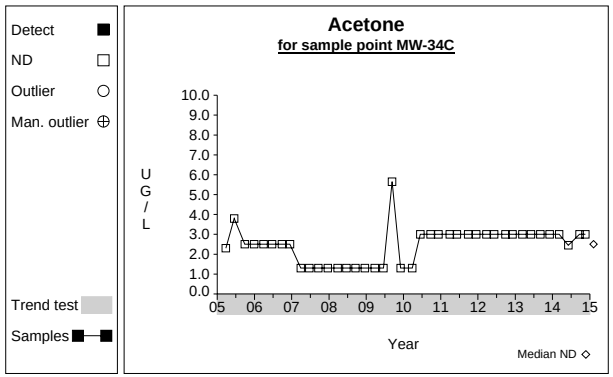
Graph 122



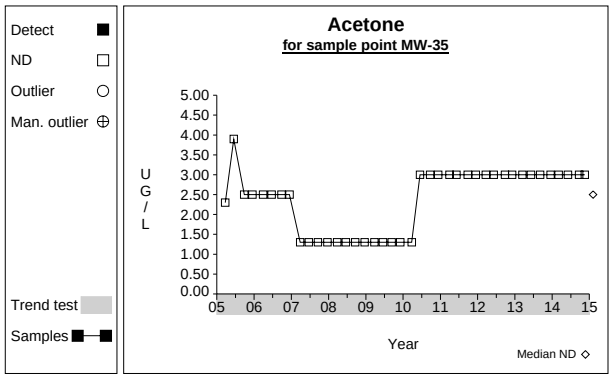
Graph 123



Graph 124

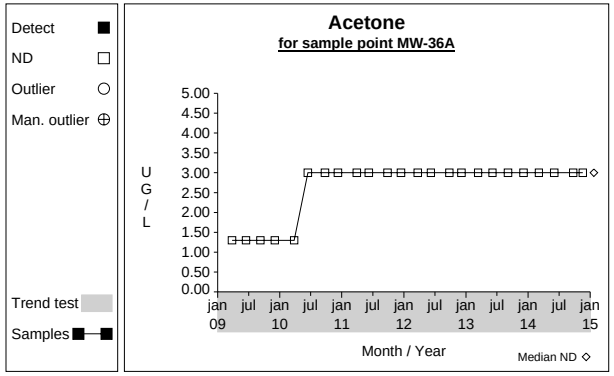


Graph 125

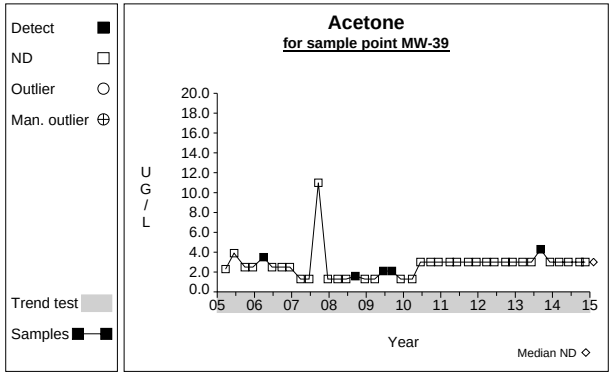


Graph 126

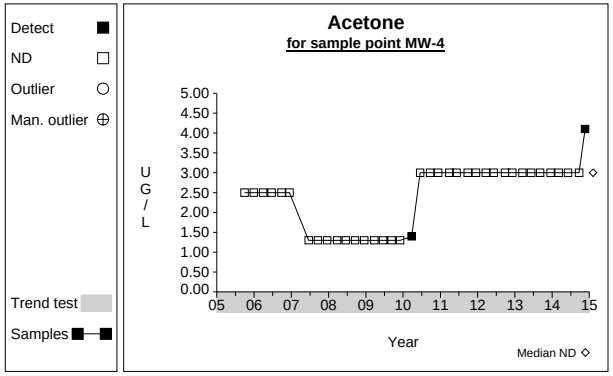
Time Series



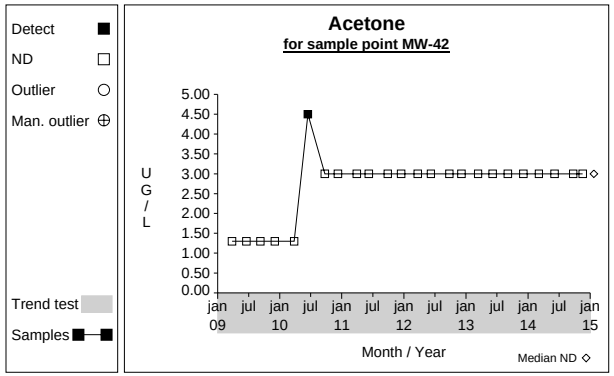
Graph 127



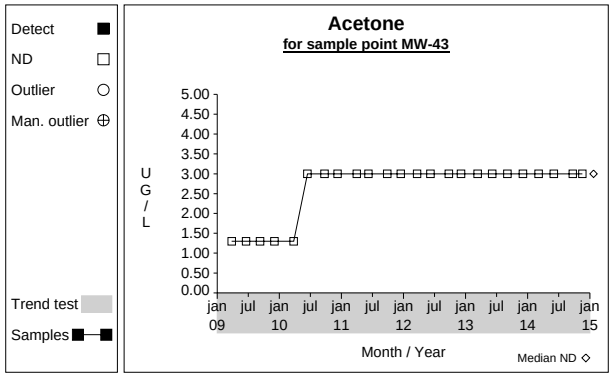
Graph 128



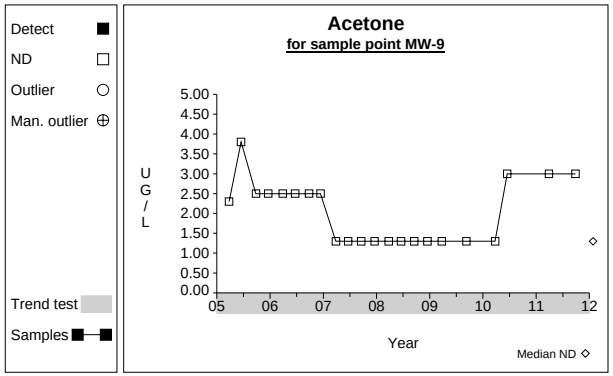
Graph 129



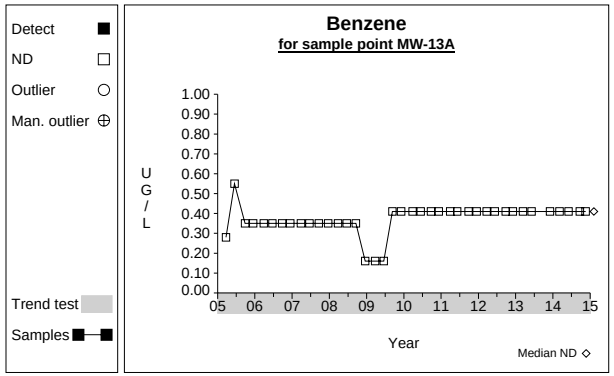
Graph 130



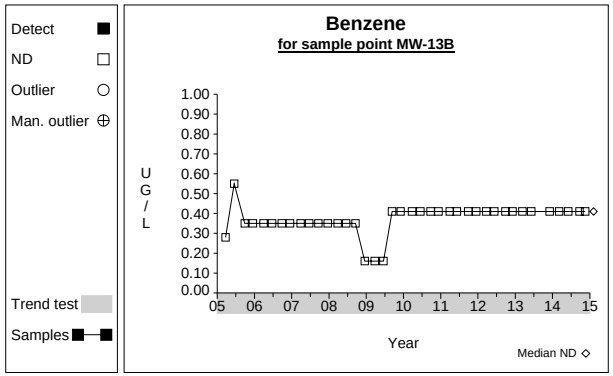
Graph 131



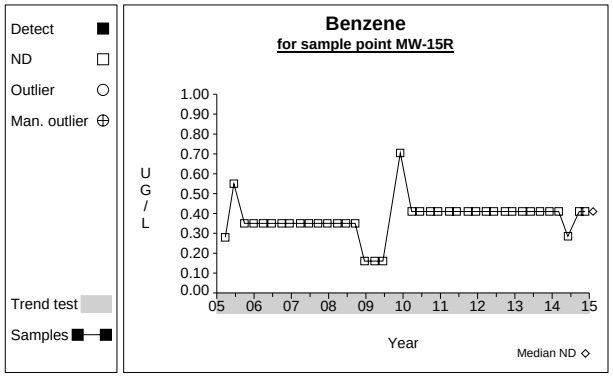
Graph 132



Graph 133

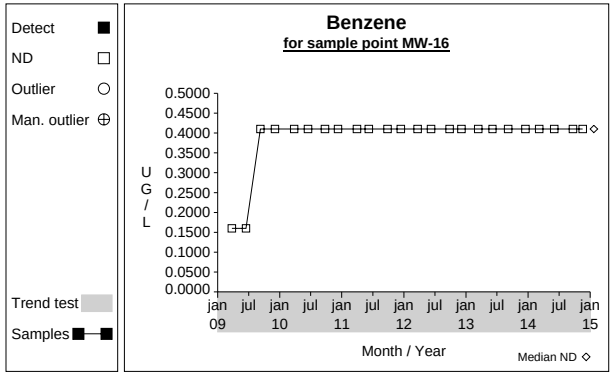


Graph 134

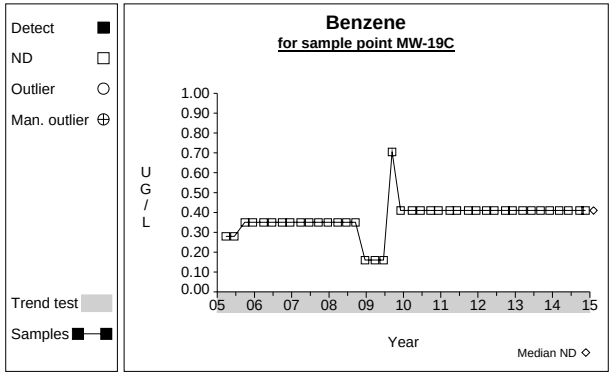


Graph 135

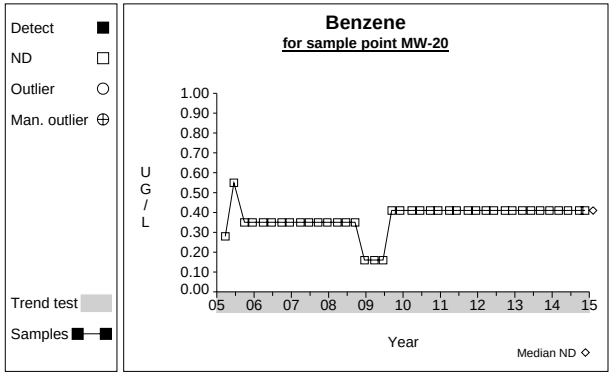
Time Series



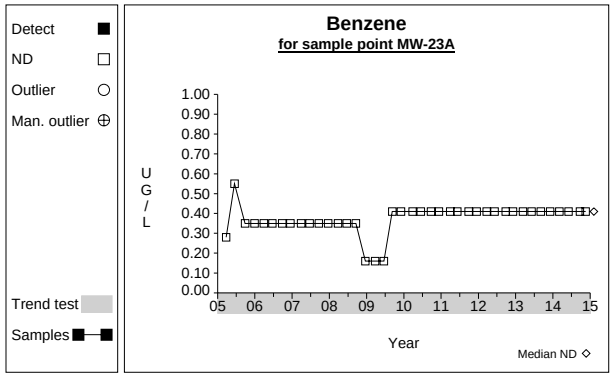
Graph 136



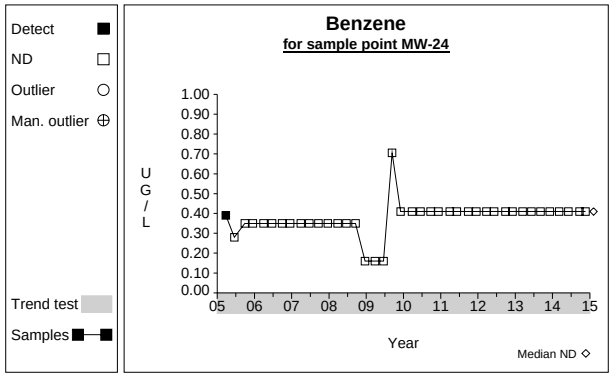
Graph 137



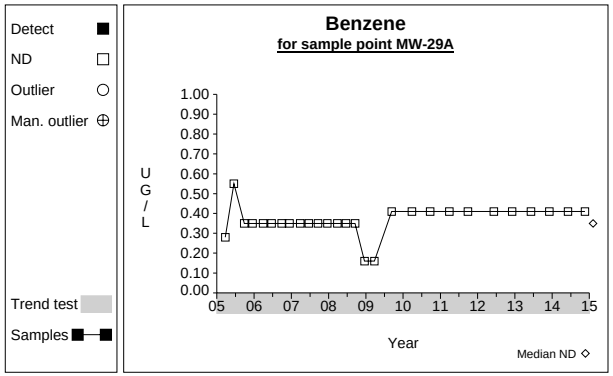
Graph 138



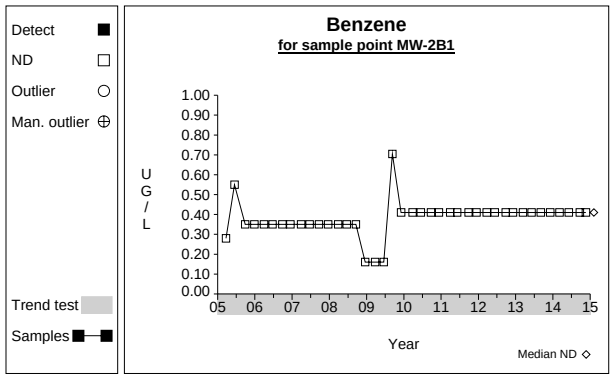
Graph 139



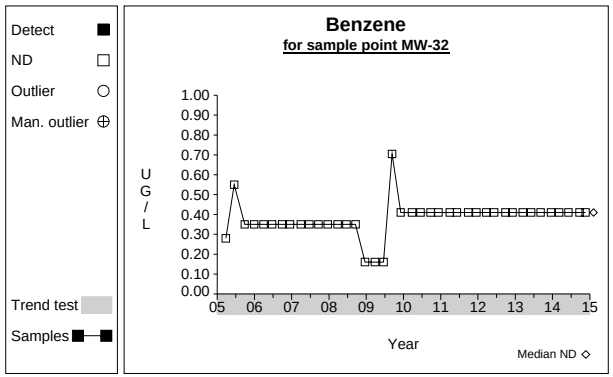
Graph 140



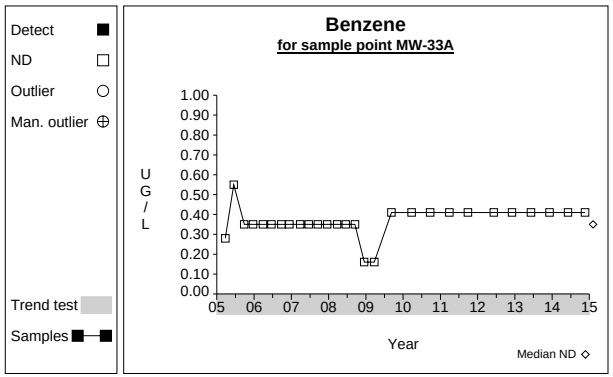
Graph 141



Graph 142

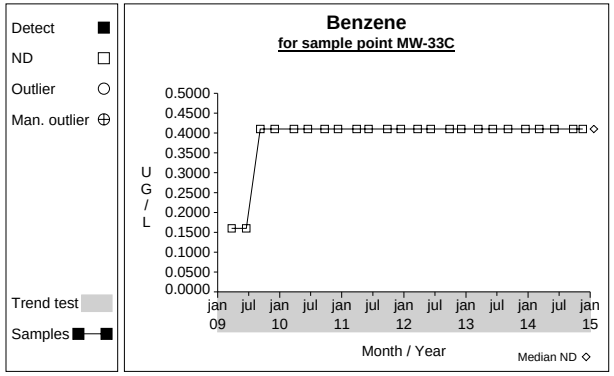


Graph 143

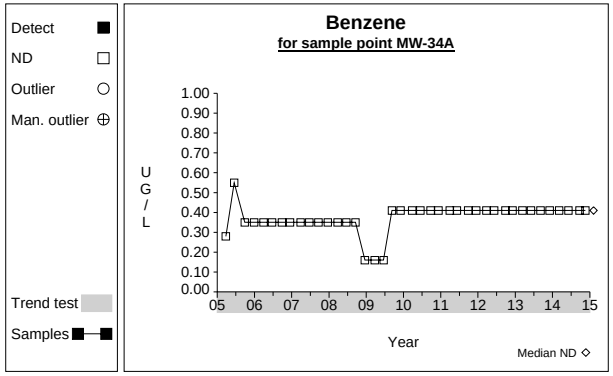


Graph 144

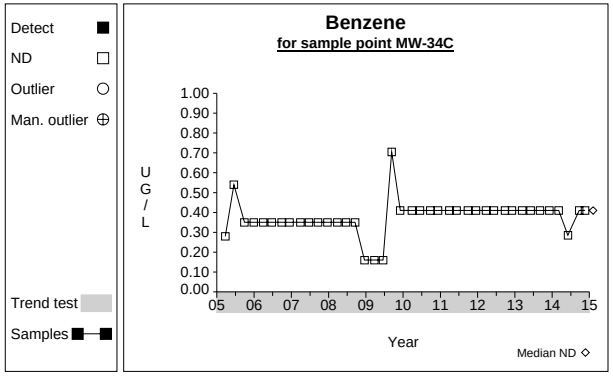
Time Series



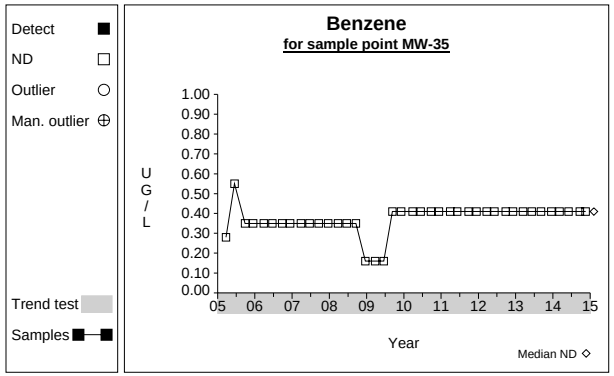
Graph 145



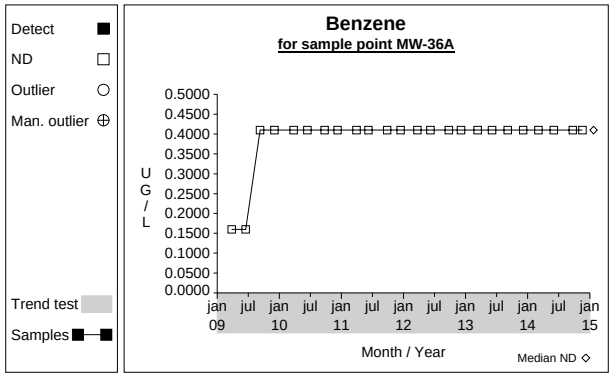
Graph 146



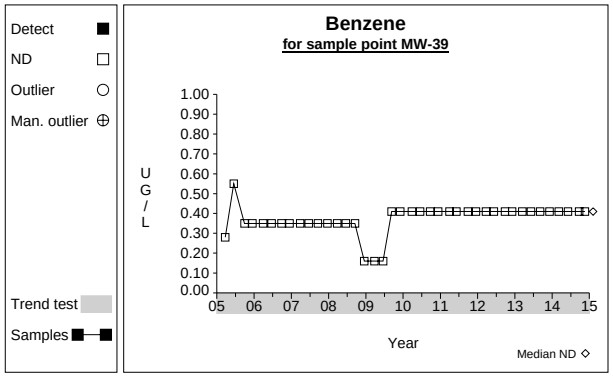
Graph 147



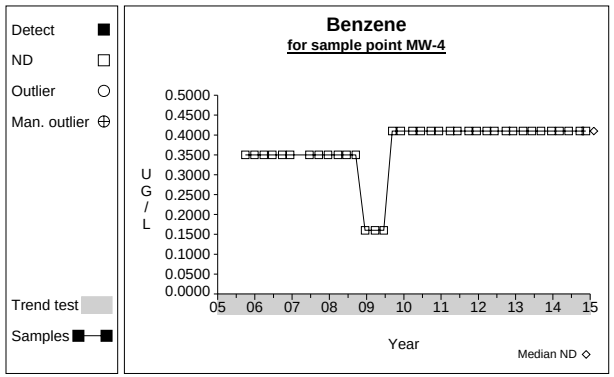
Graph 148



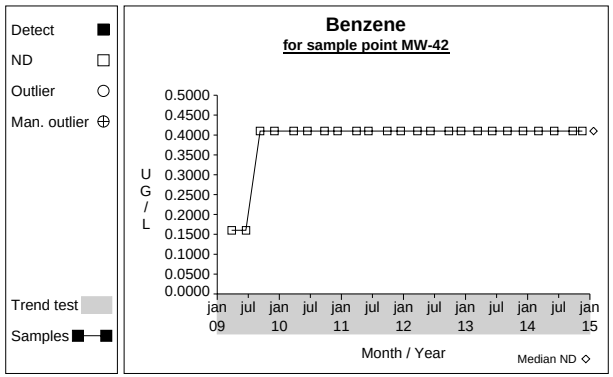
Graph 149



Graph 150



Graph 151



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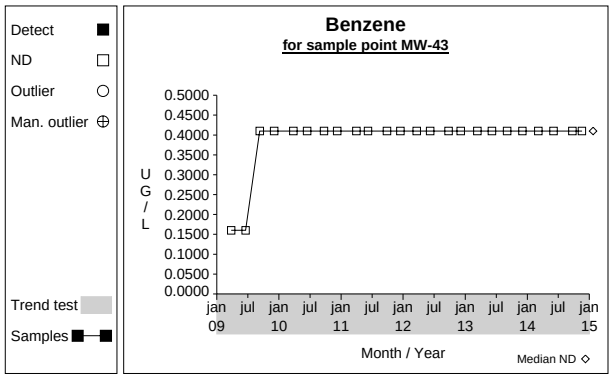
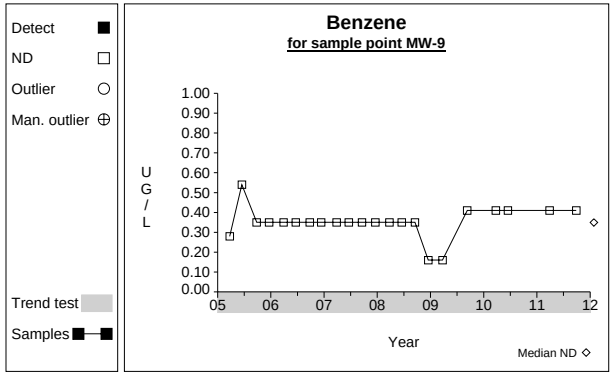
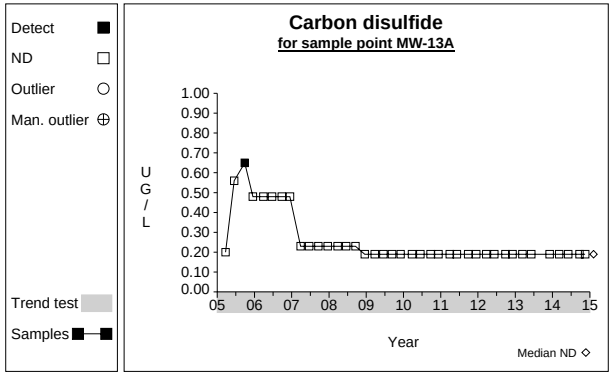


Graph 153

Time Series



Graph 154



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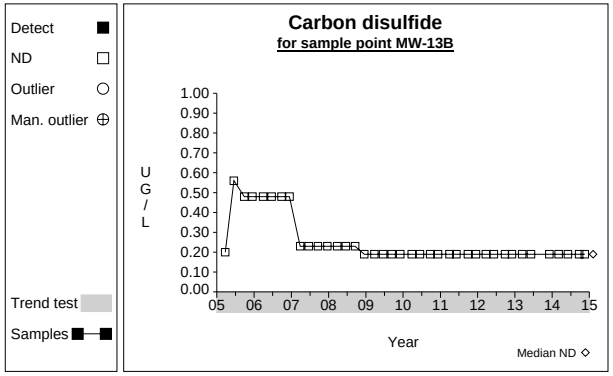

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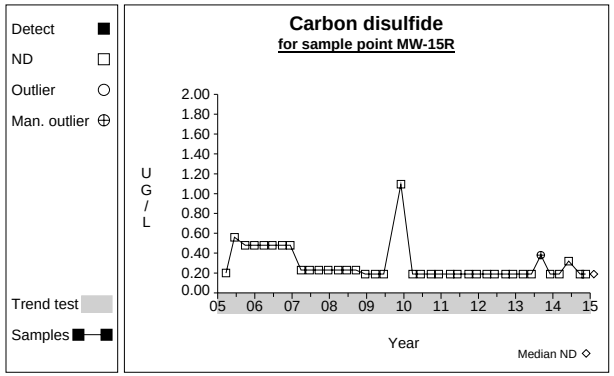
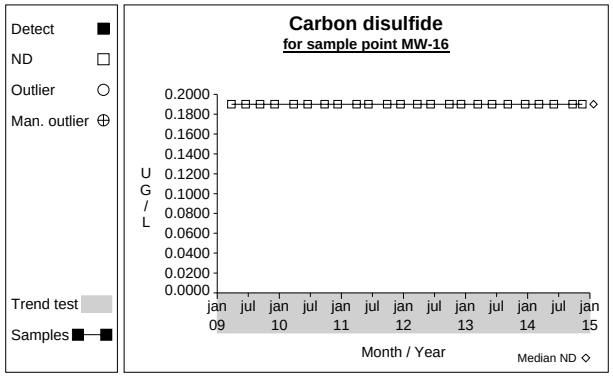
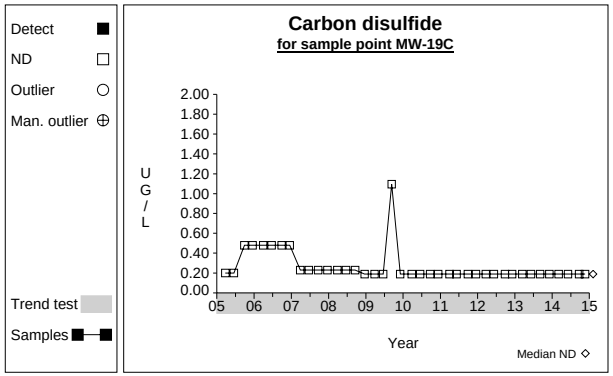


Graph 157



Graph 158



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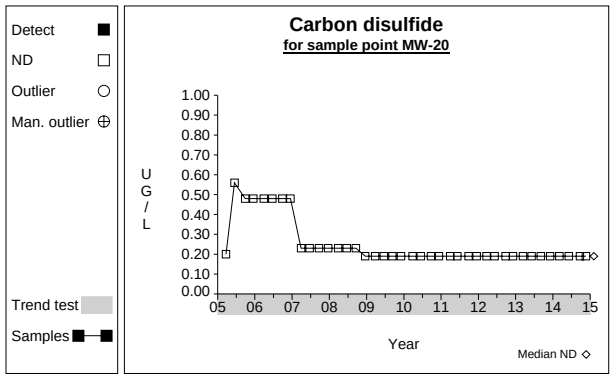
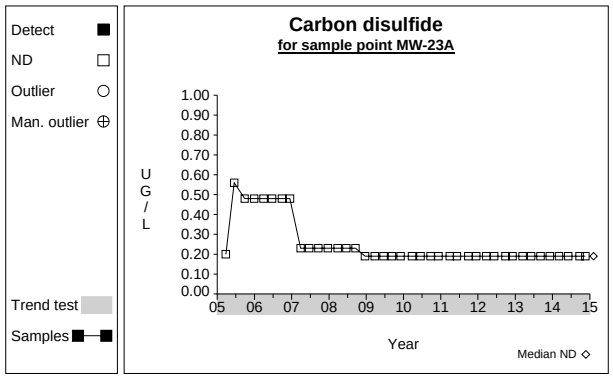
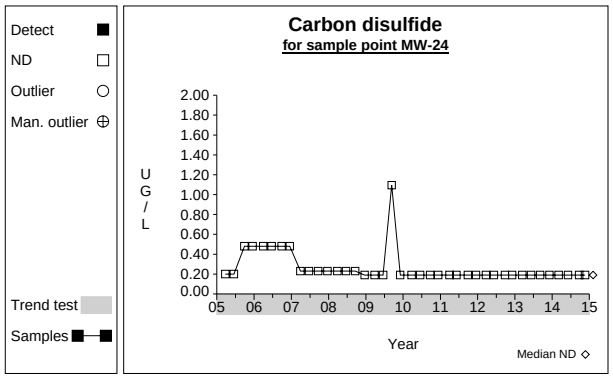


Graph 160

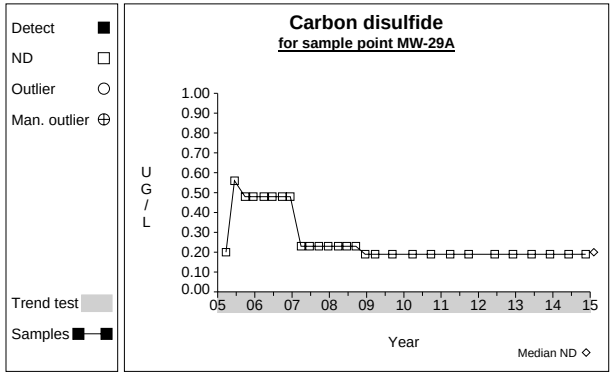


Graph 161



Graph 162

Time Series



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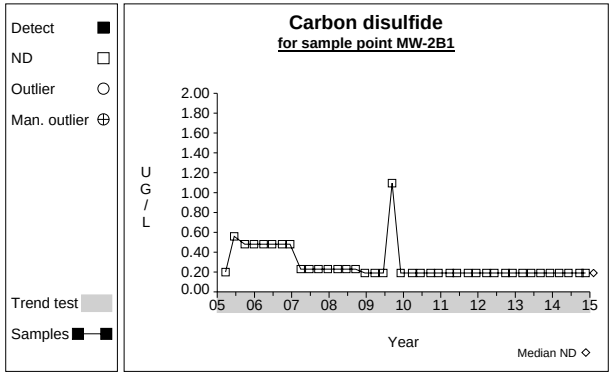

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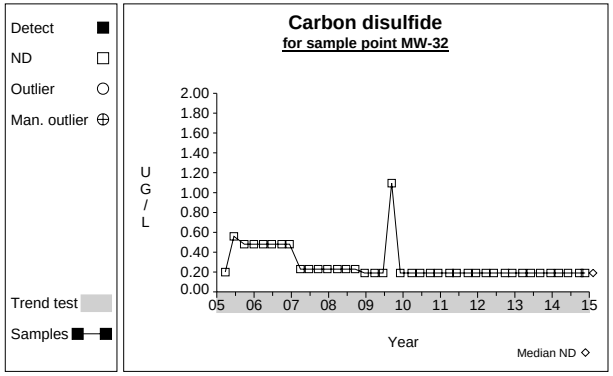
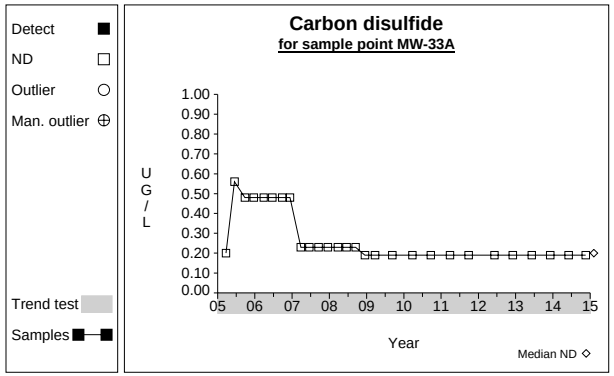


Graph 165



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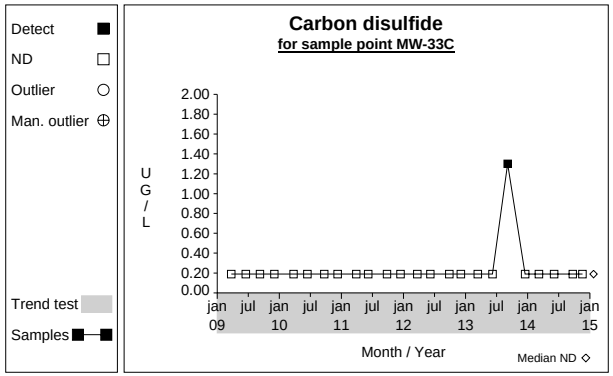

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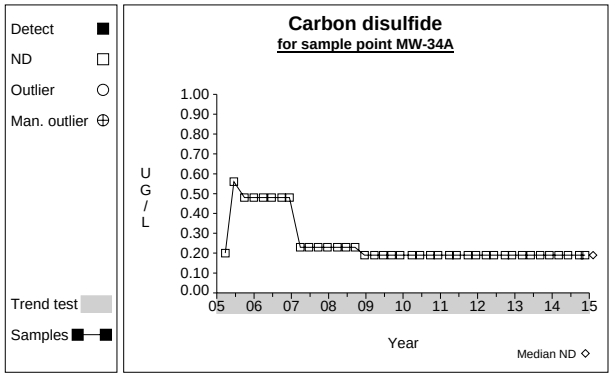

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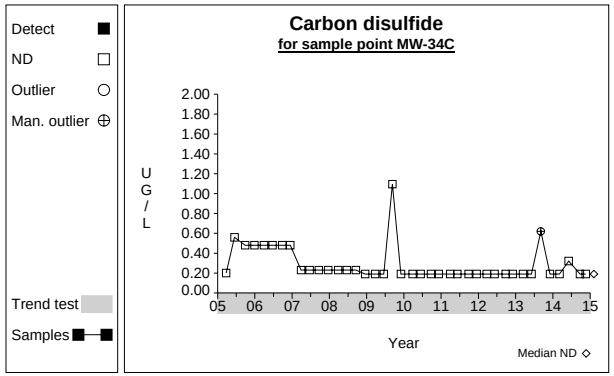
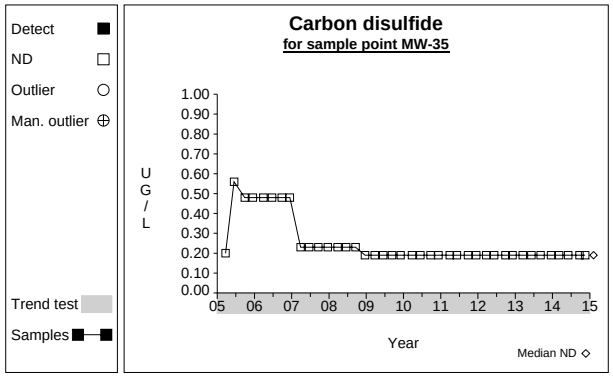


Graph 169



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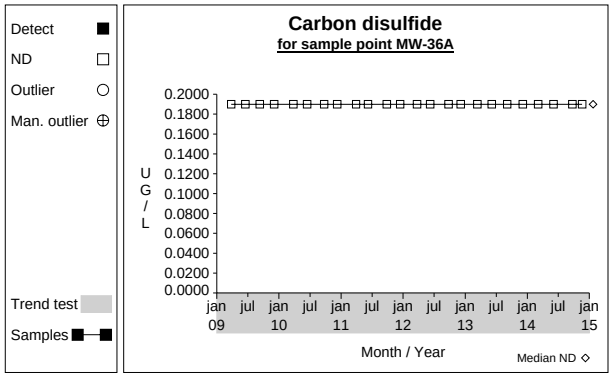
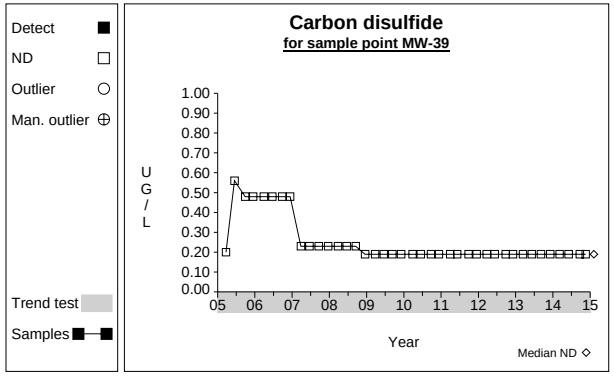


Graph 171

Time Series



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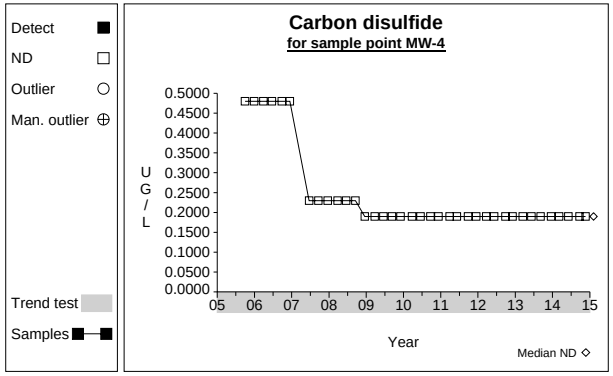

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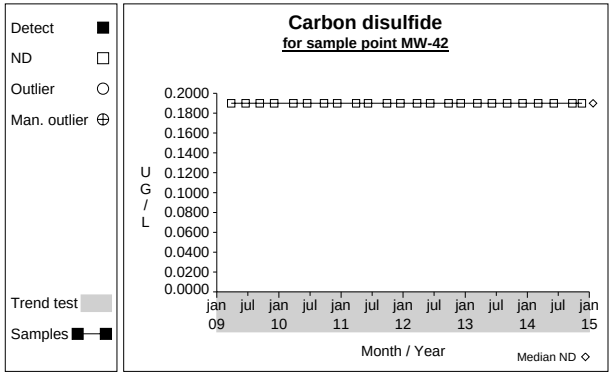

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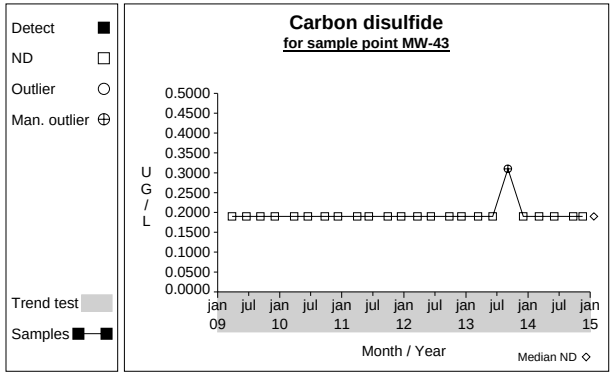
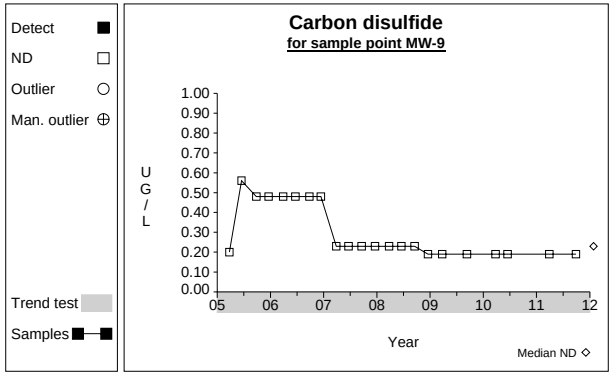


Graph 175



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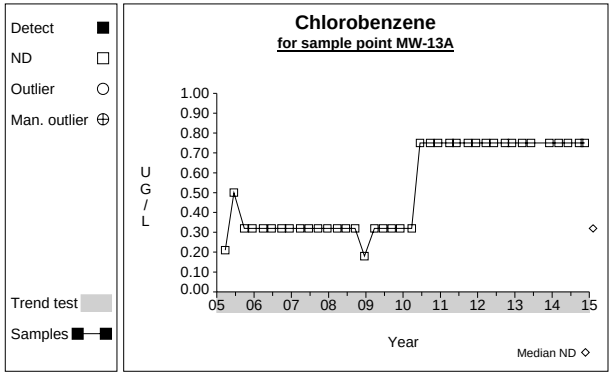
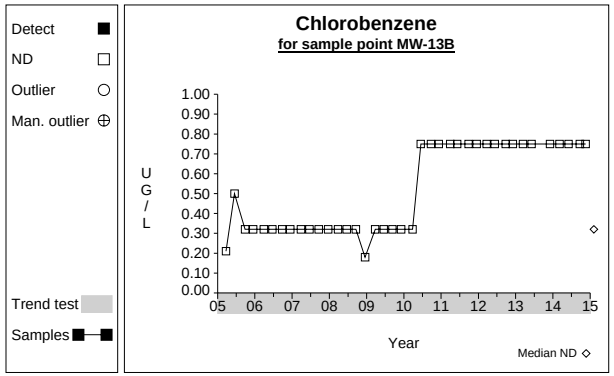
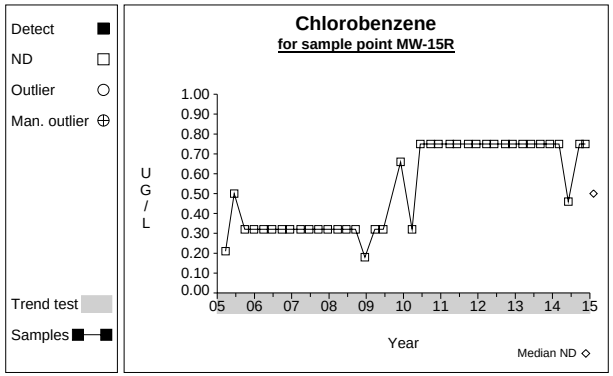


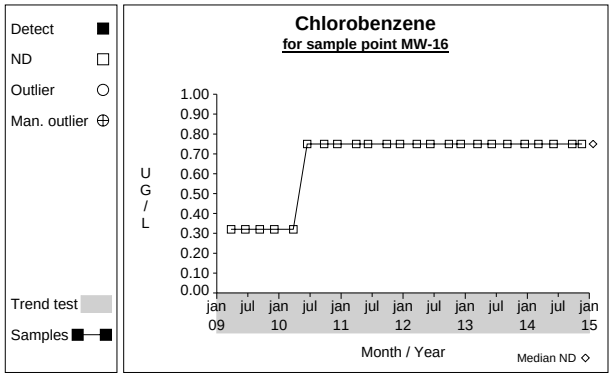
Graph 177



Graph 178

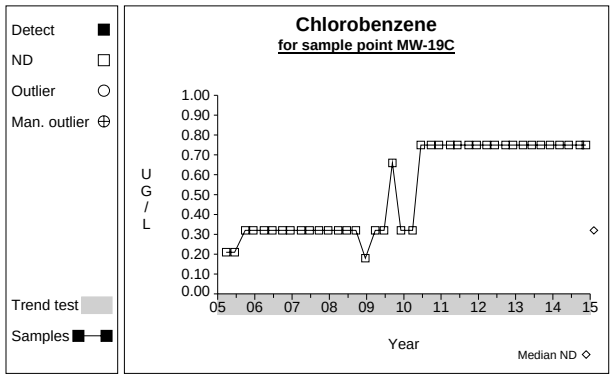


Graph 179

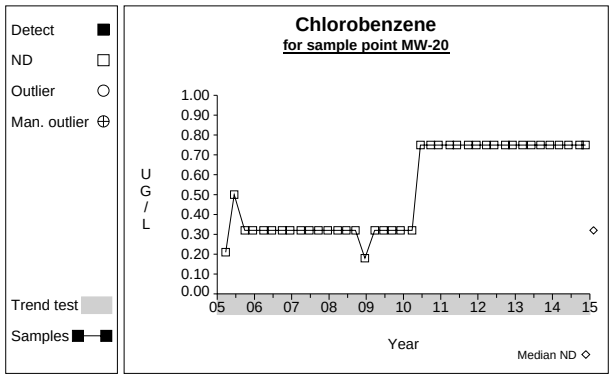


Graph 180

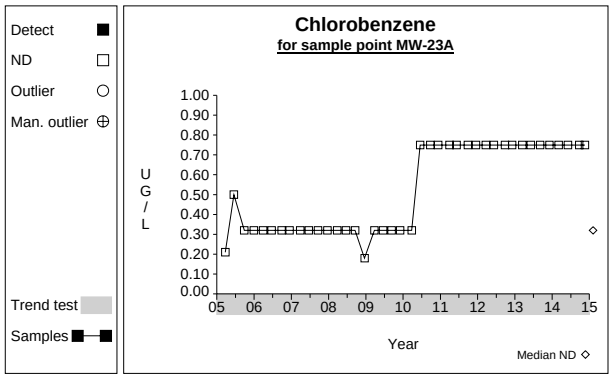
Time Series



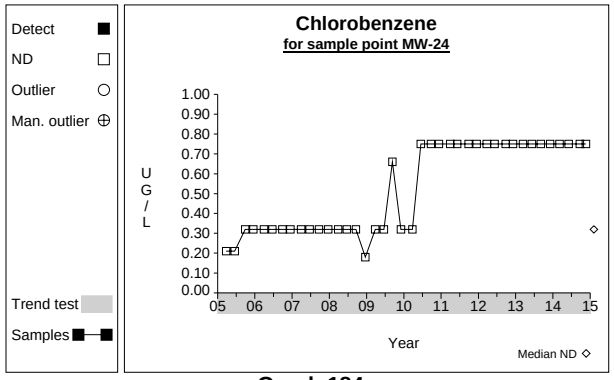
Graph 181



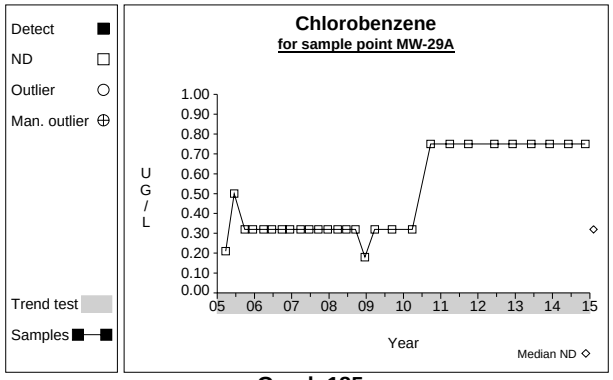
Graph 182



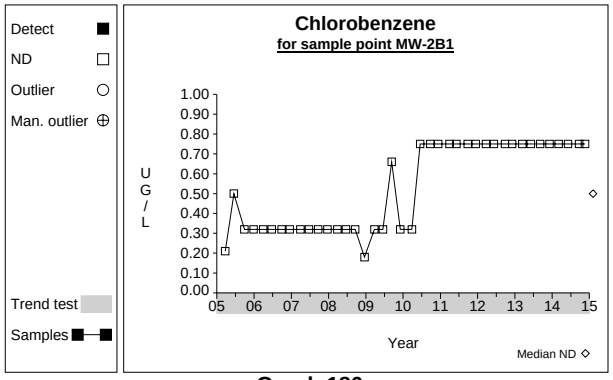
Graph 183



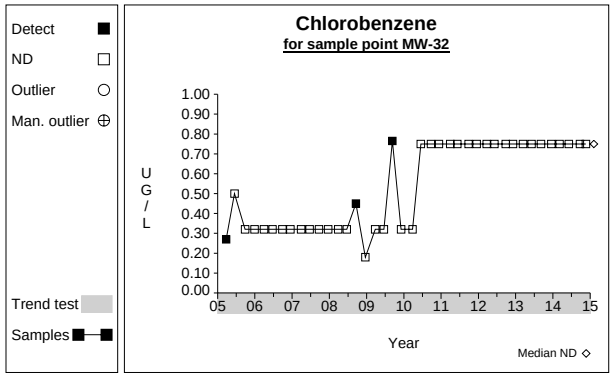
Graph 184



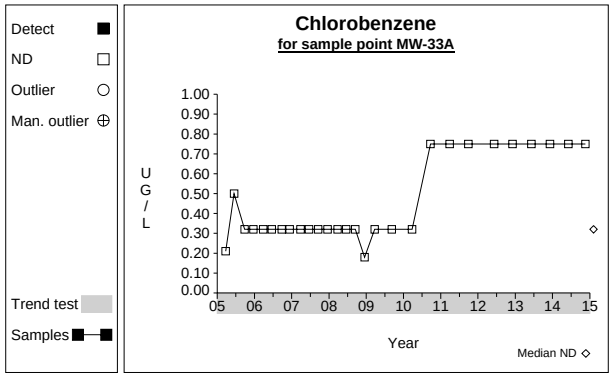
Graph 185



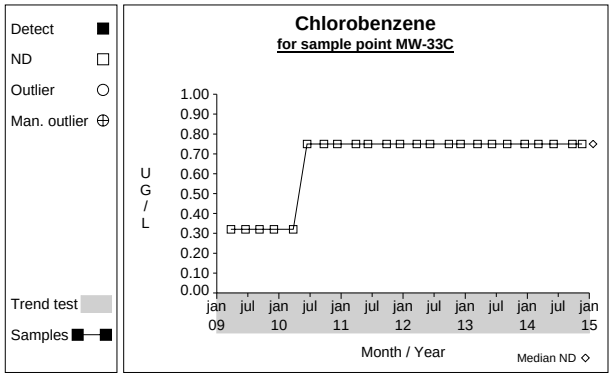
Graph 186



Graph 187

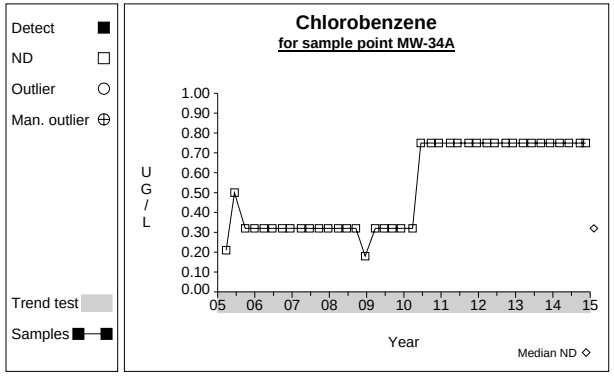


Graph 188

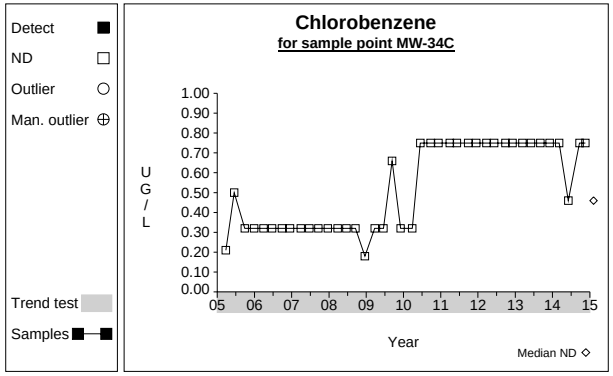


Graph 189

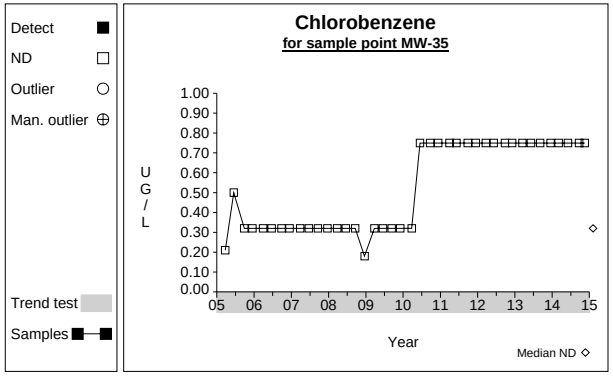
Time Series



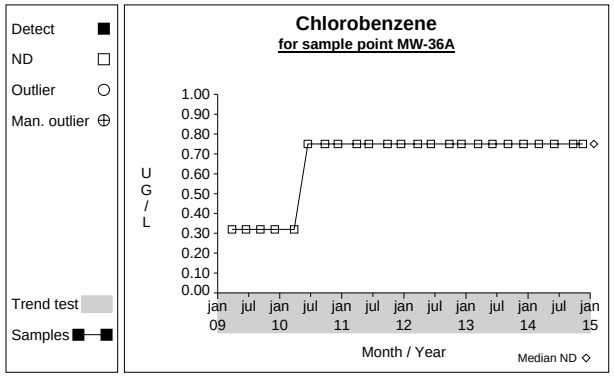
Graph 190



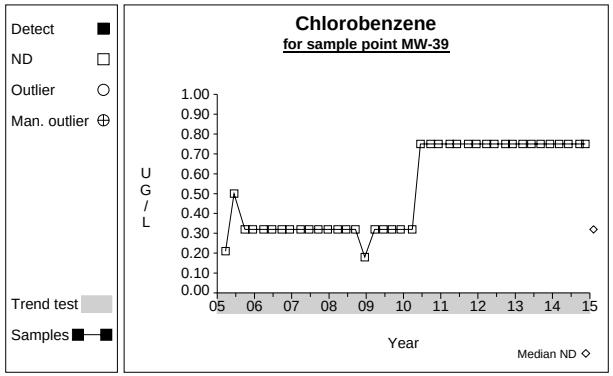
Graph 191



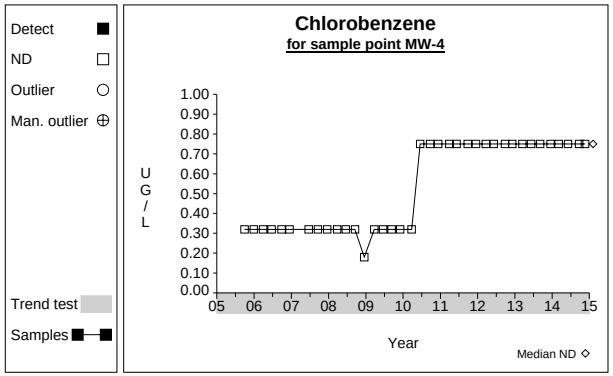
Graph 192



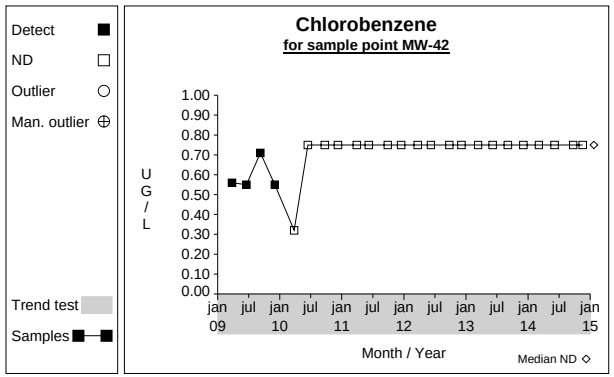
Graph 193



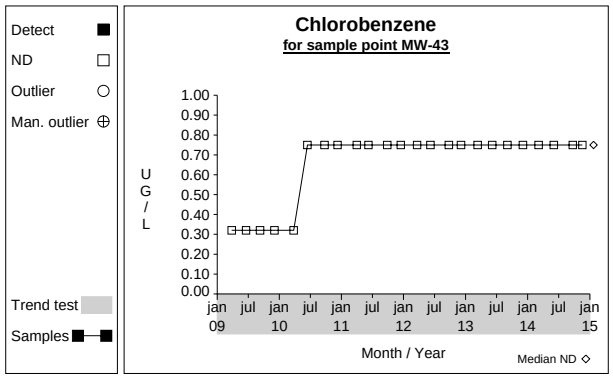
Graph 194



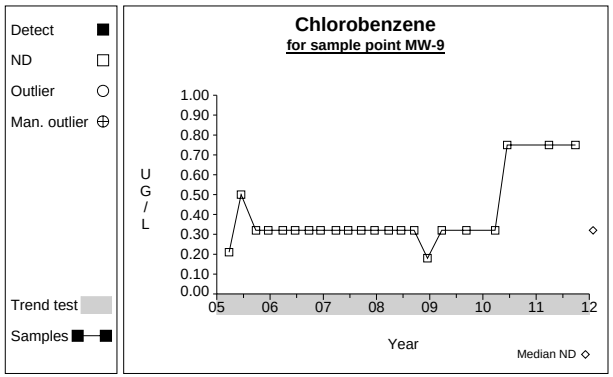
Graph 195



Graph 196

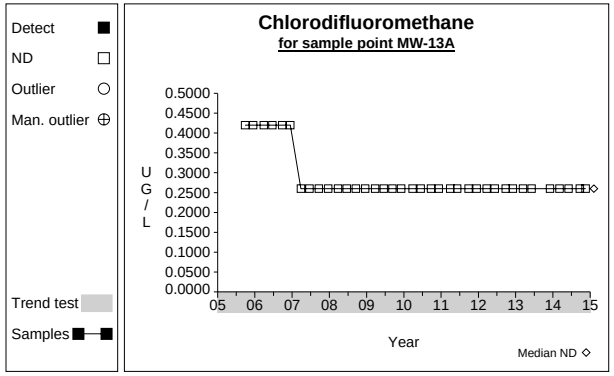


Graph 197

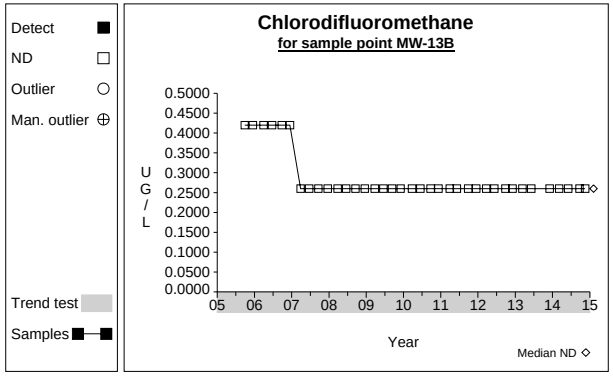


Graph 198

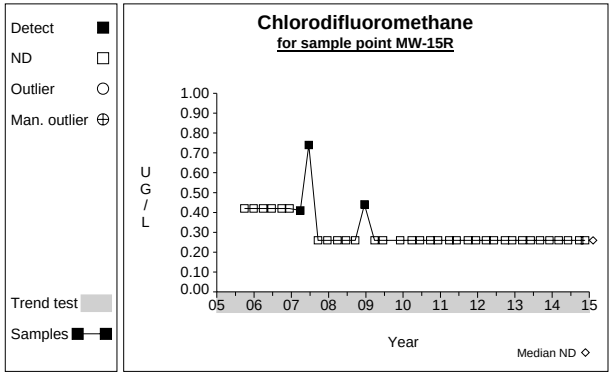
Time Series



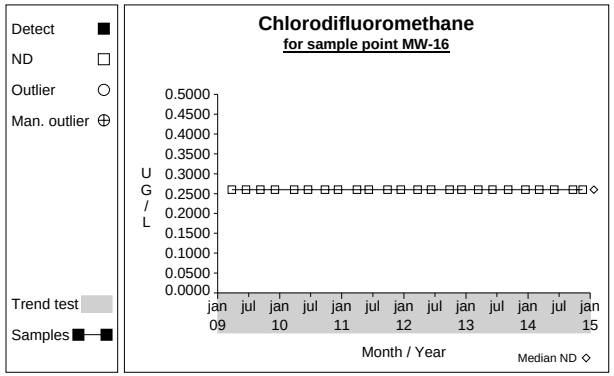
Graph 199



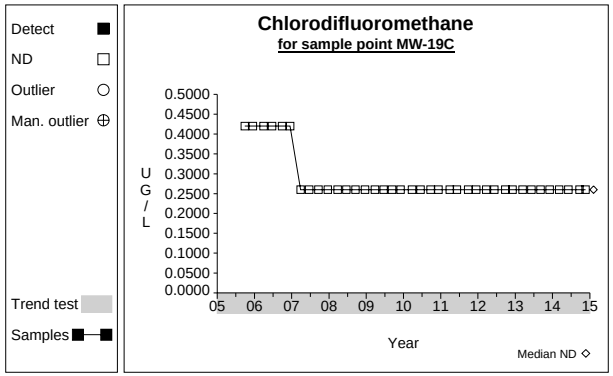
Graph 200



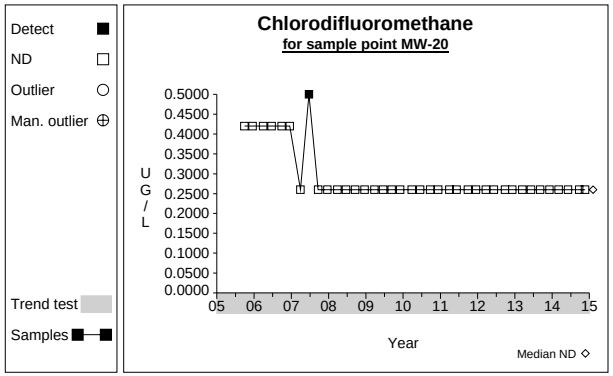
Graph 201



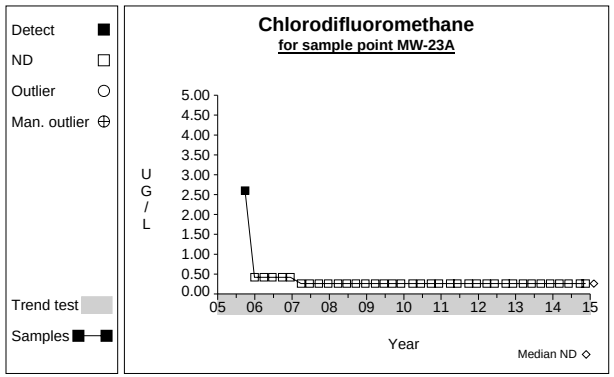
Graph 202



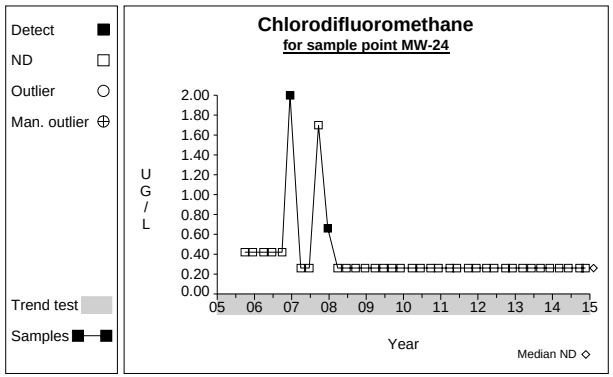
Graph 203



Graph 204



Graph 205



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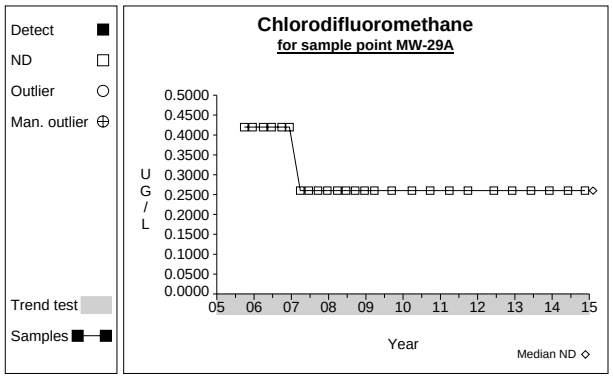
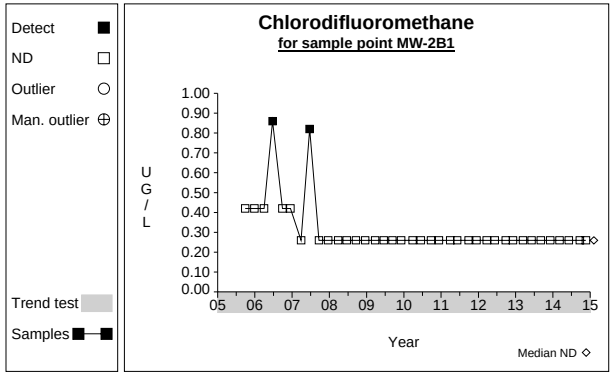
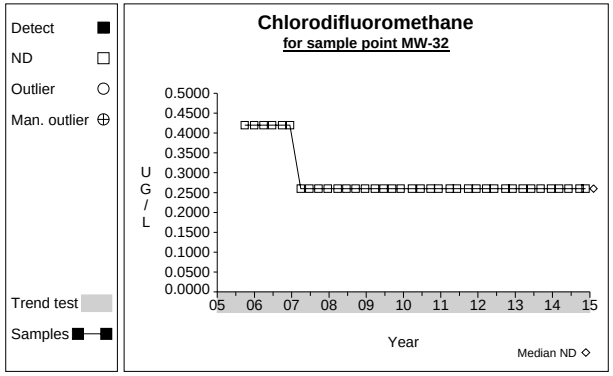


Graph 207

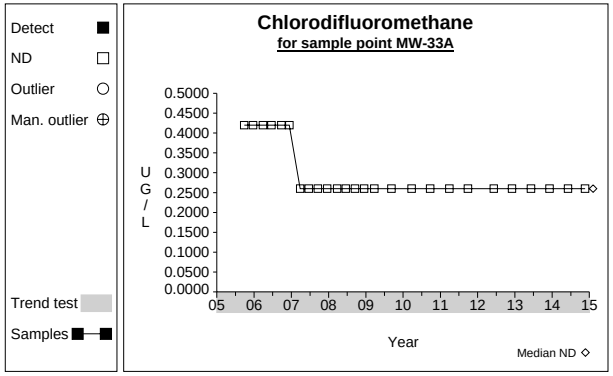
Time Series



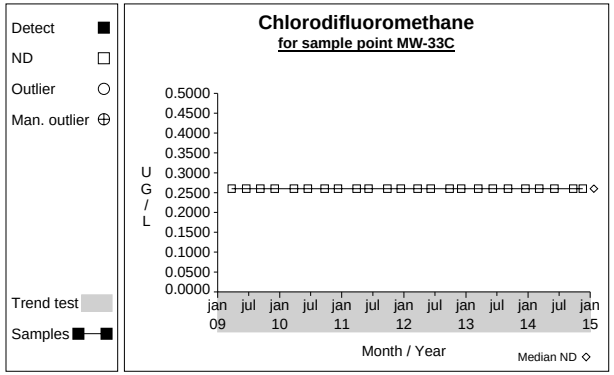
Graph 208



Graph 209



Graph 210



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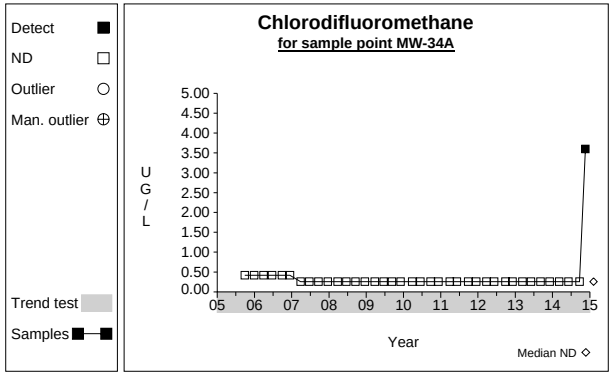
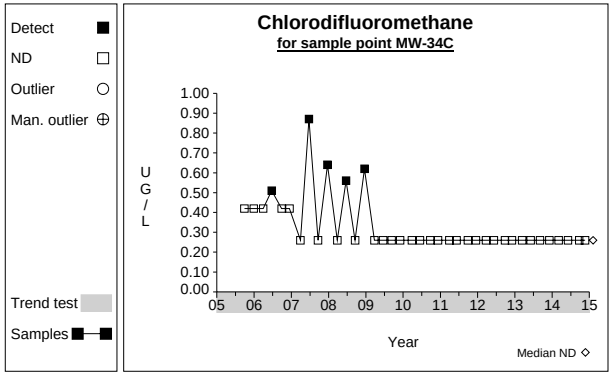


Graph 212



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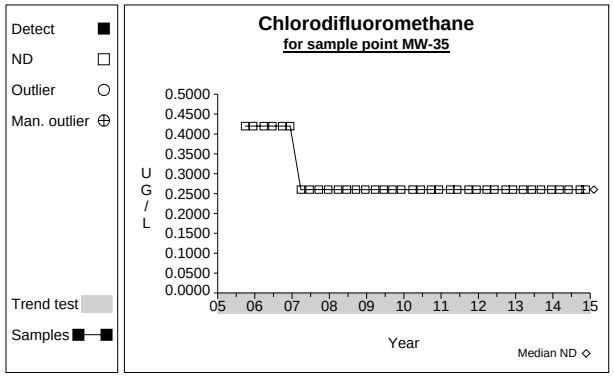

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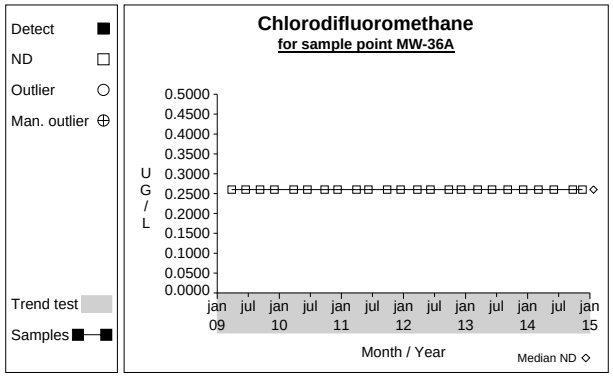

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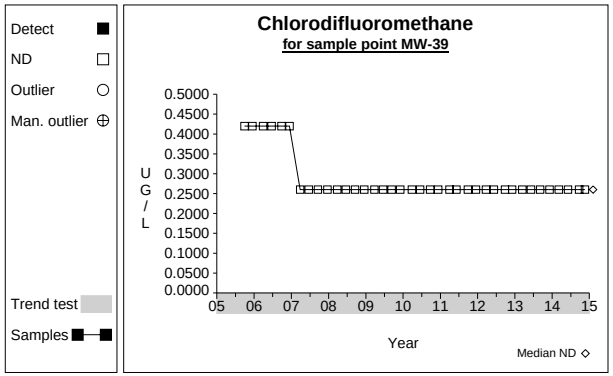
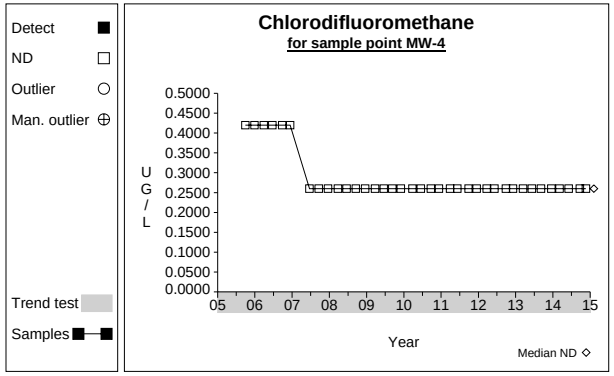


Graph 216

Time Series



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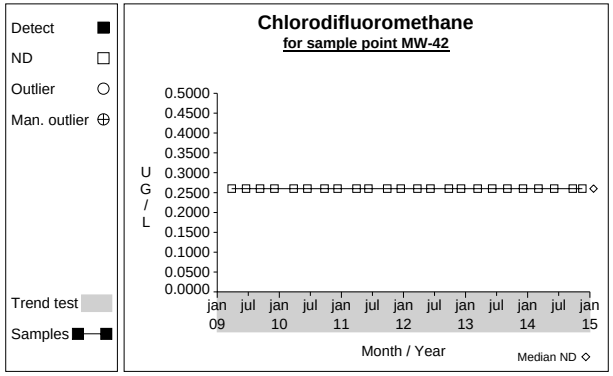

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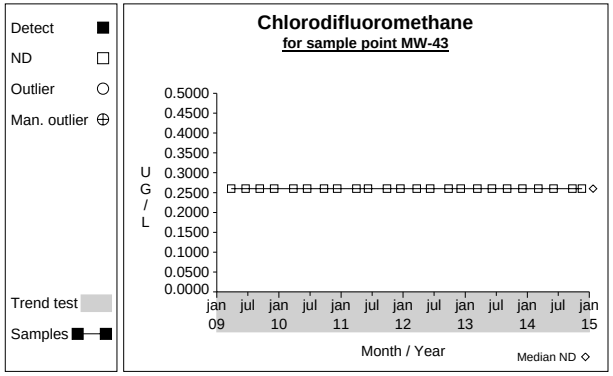
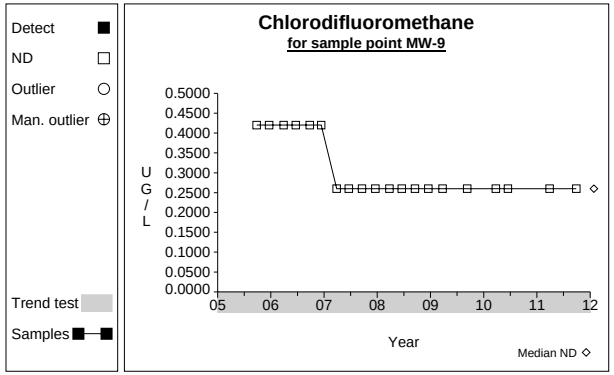
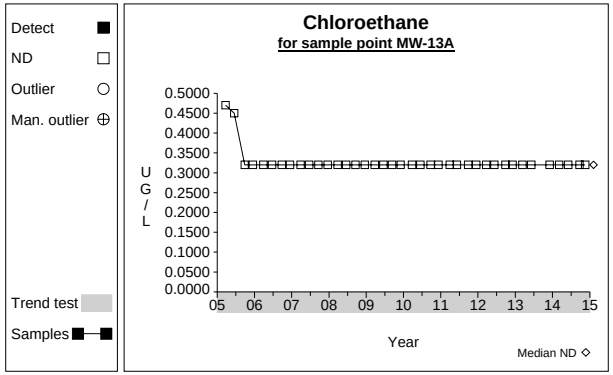


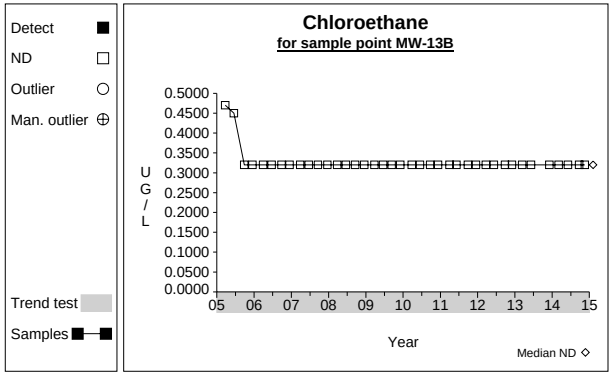
Graph 219



Graph 220



Graph 221



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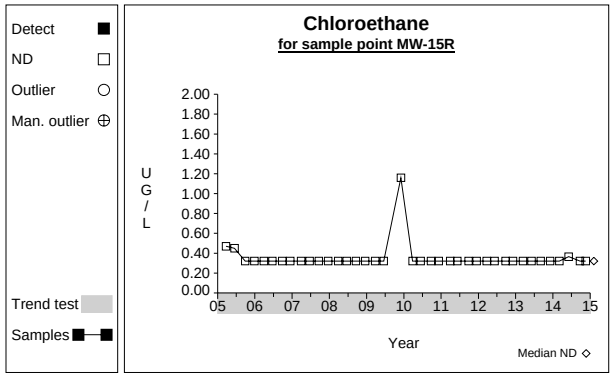

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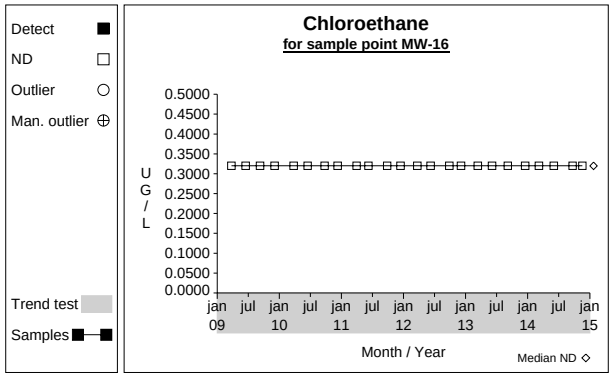
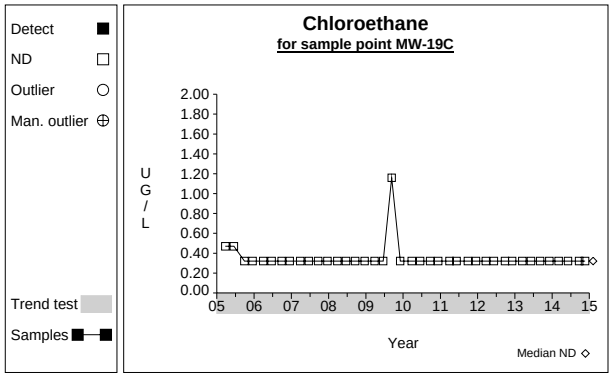
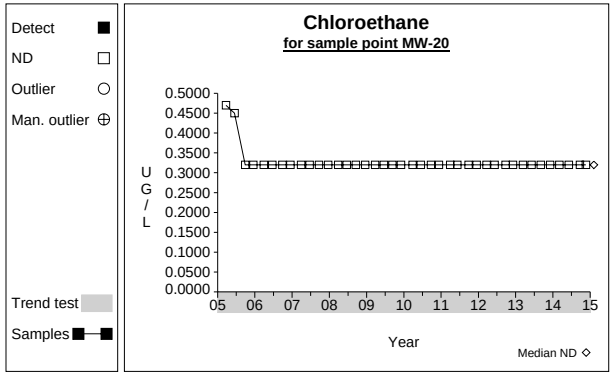


Graph 224

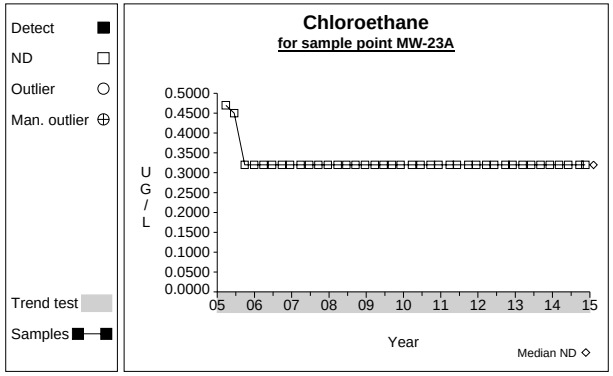


Graph 225

Time Series



Graph 226



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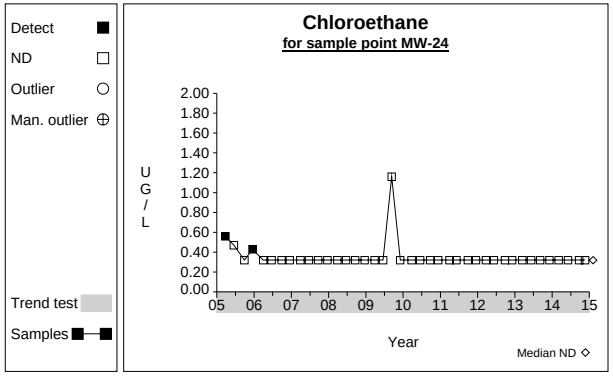

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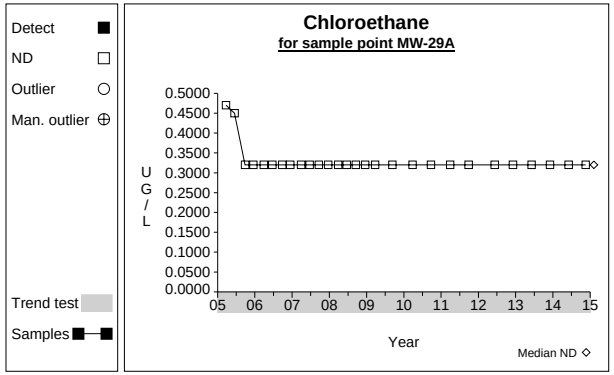

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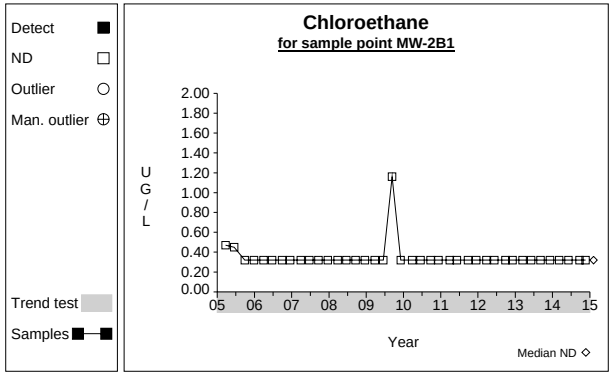

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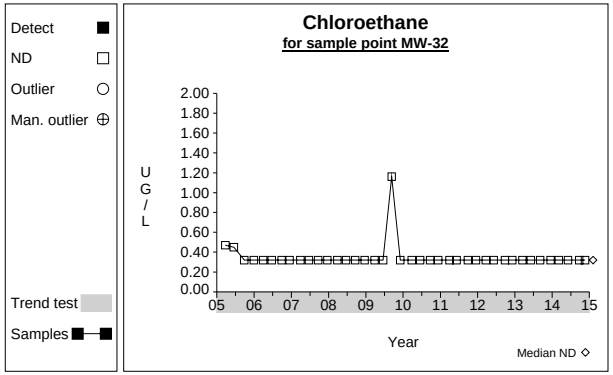

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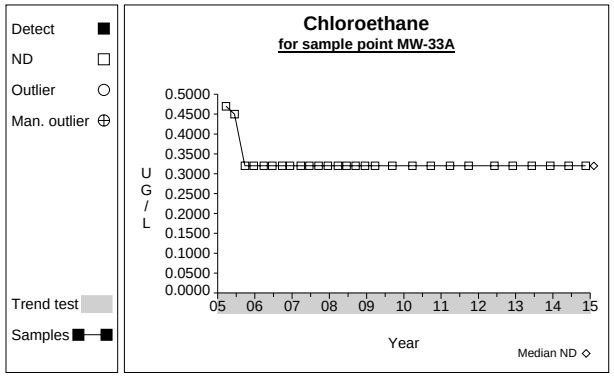

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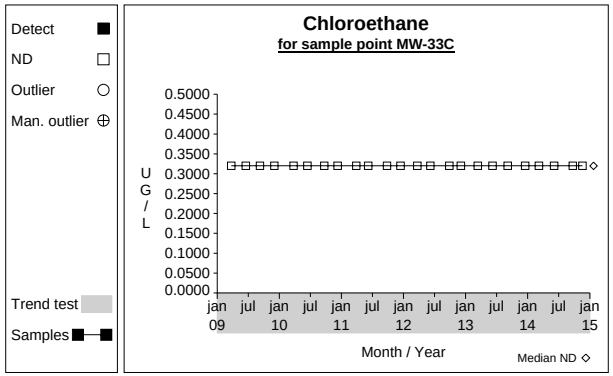

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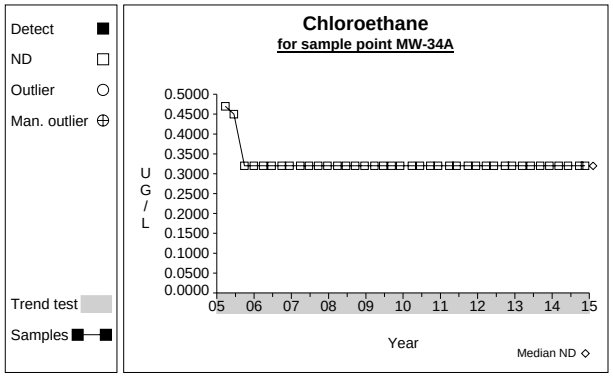
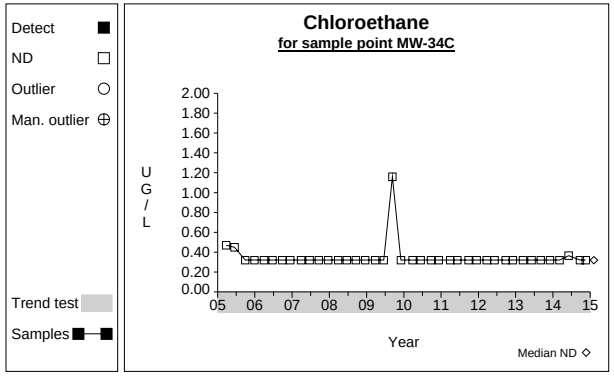
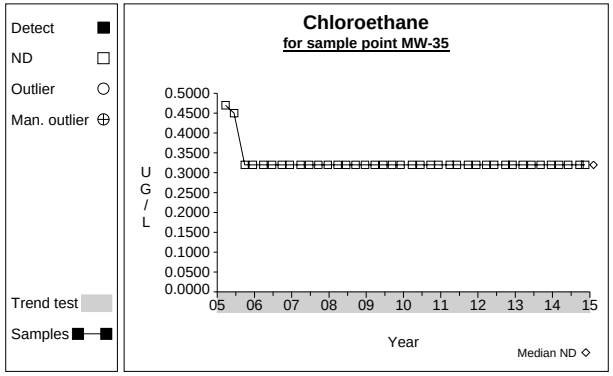


Graph 234

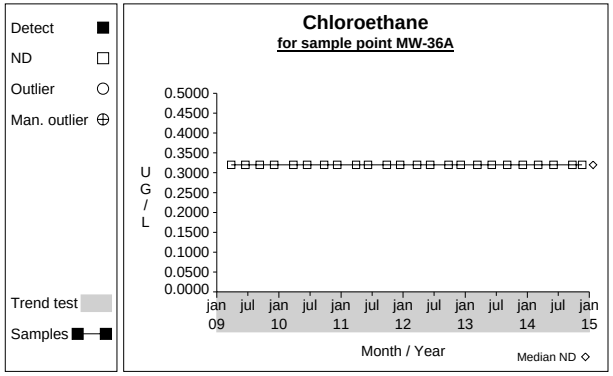
Time Series



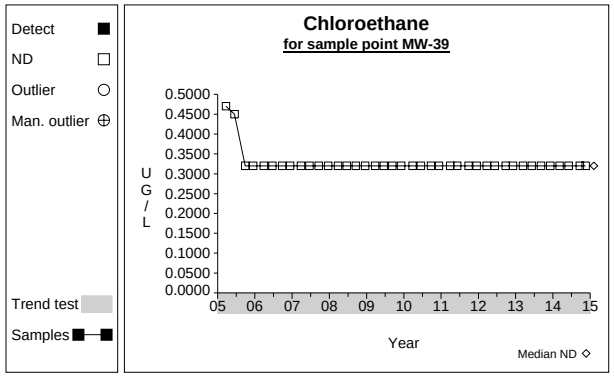
Graph 235



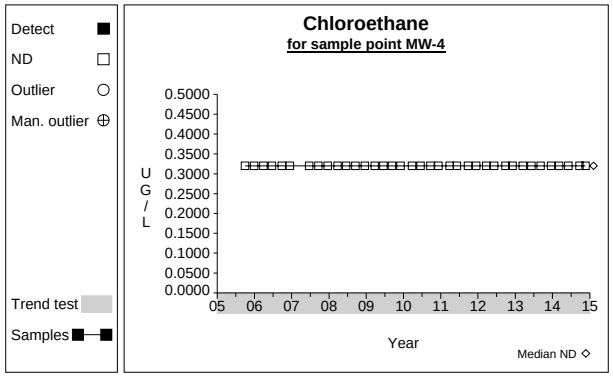
Graph 236



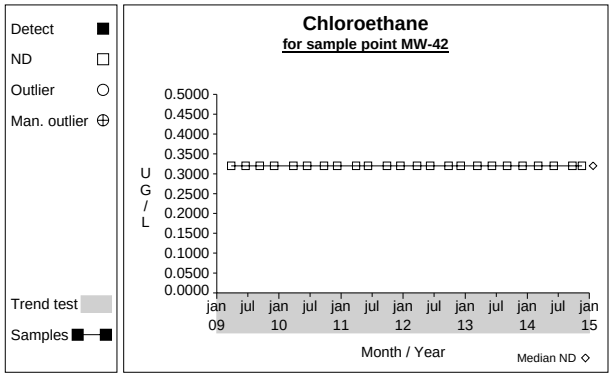
Graph 237



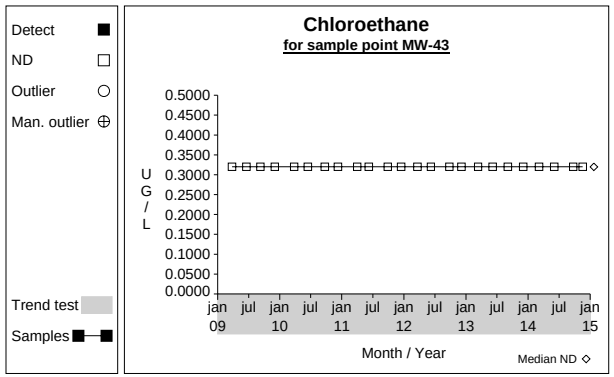
Graph 238



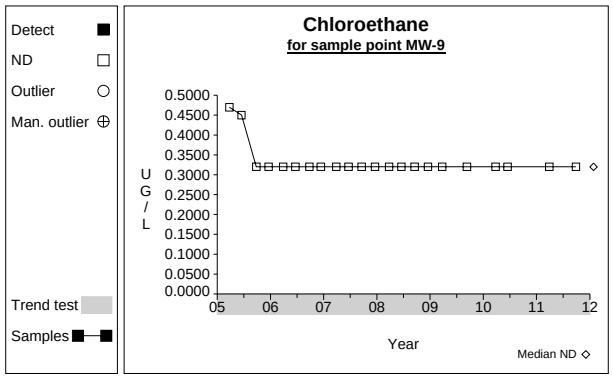
Graph 239



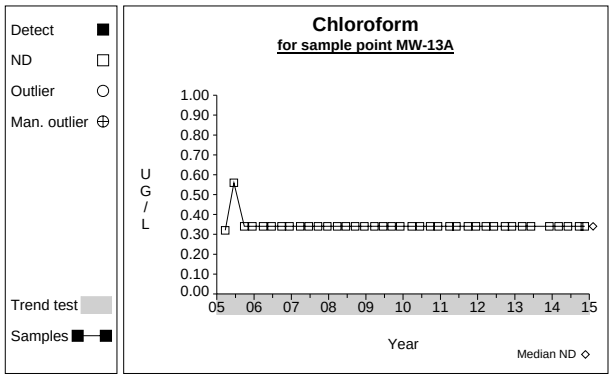
Graph 240



Graph 241

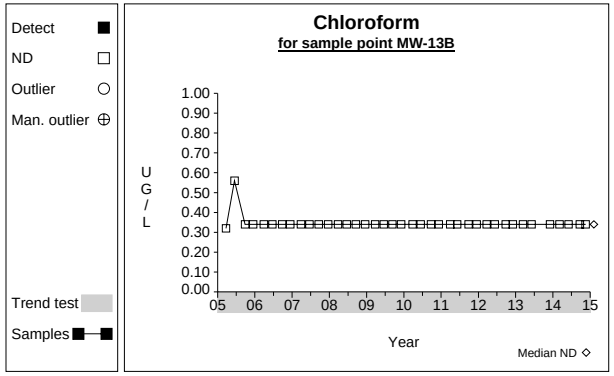


Graph 242

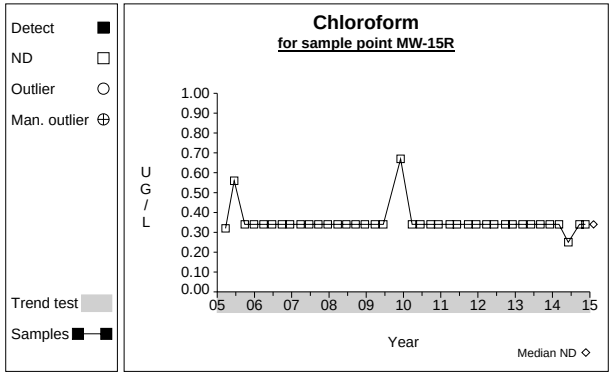


Graph 243

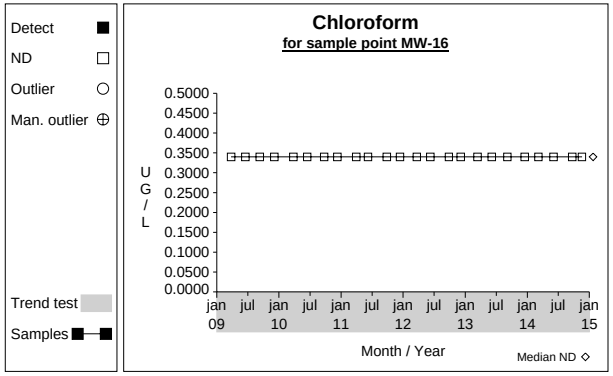
Time Series



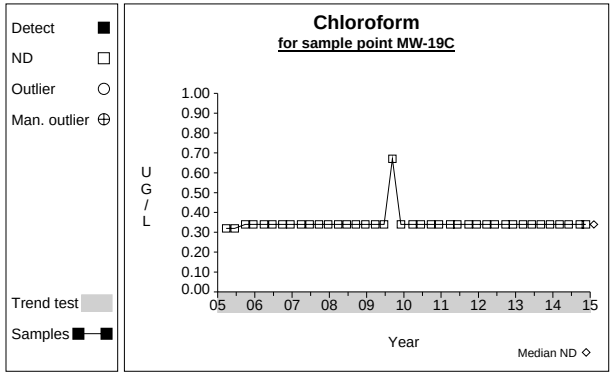
Graph 244



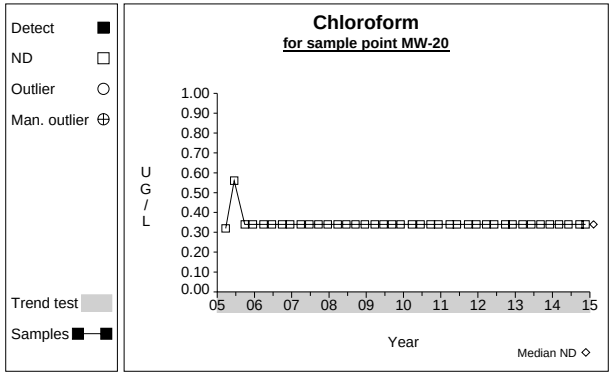
Graph 245



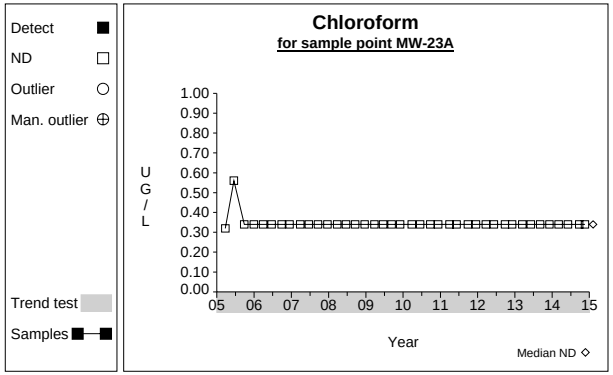
Graph 246



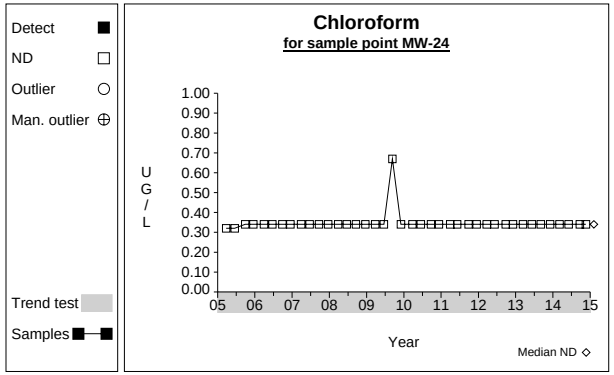
Graph 247



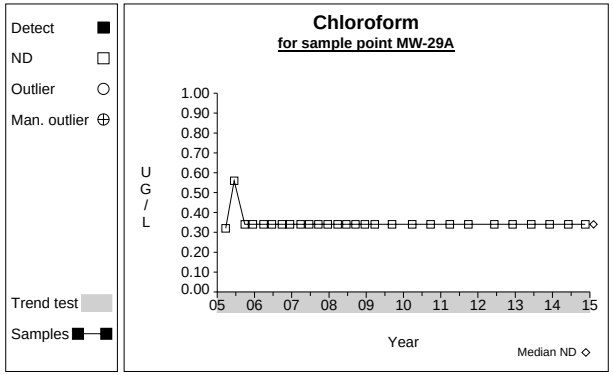
Graph 248



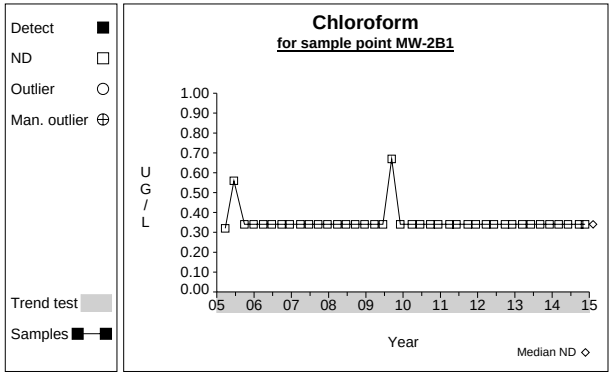
Graph 249



Graph 250

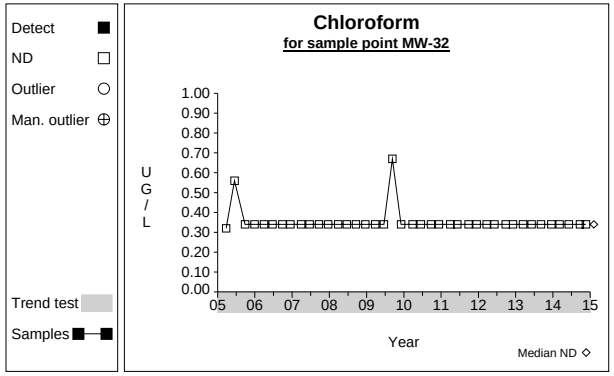


Graph 251

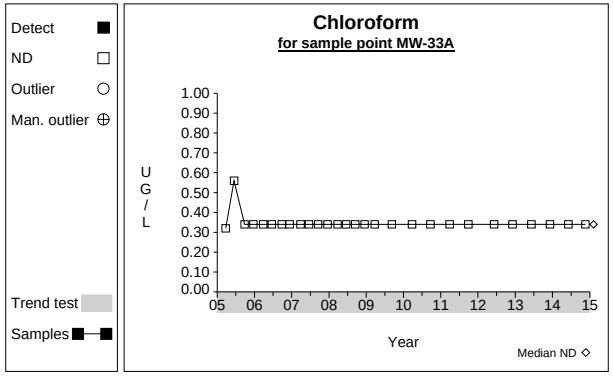


Graph 252

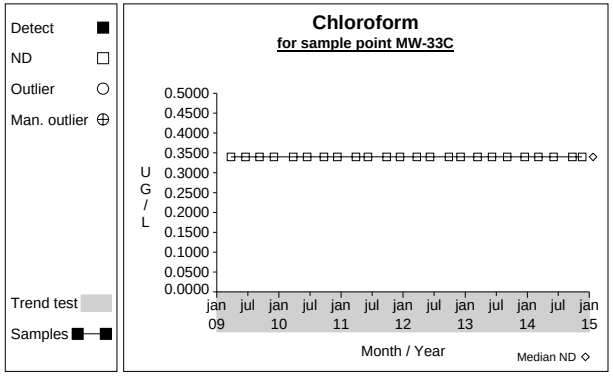
Time Series



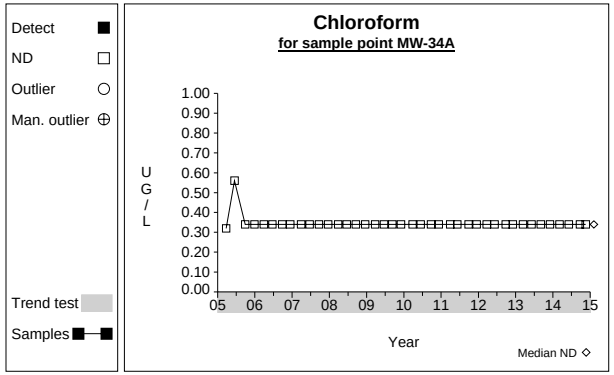
Graph 253



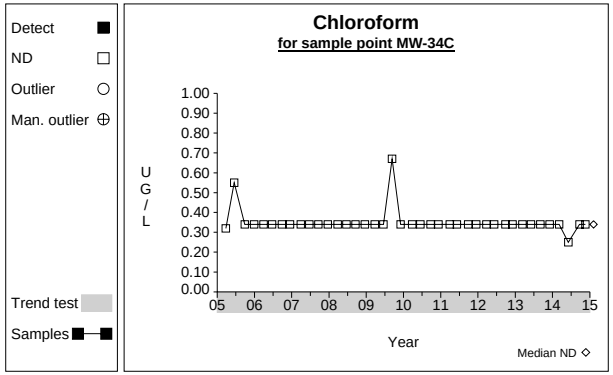
Graph 254



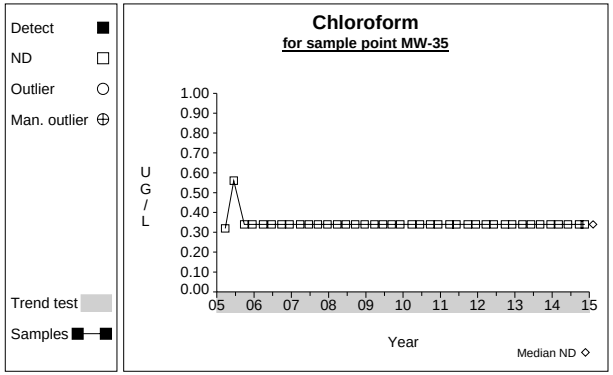
Graph 255



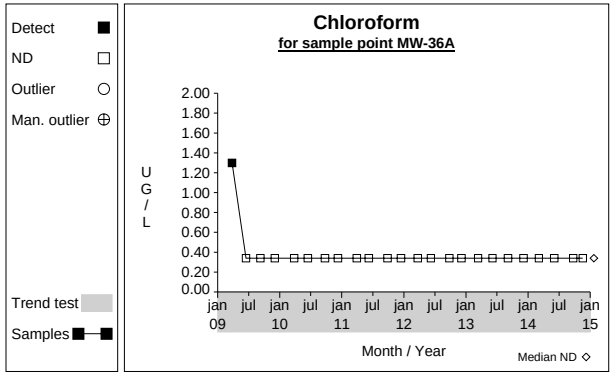
Graph 256



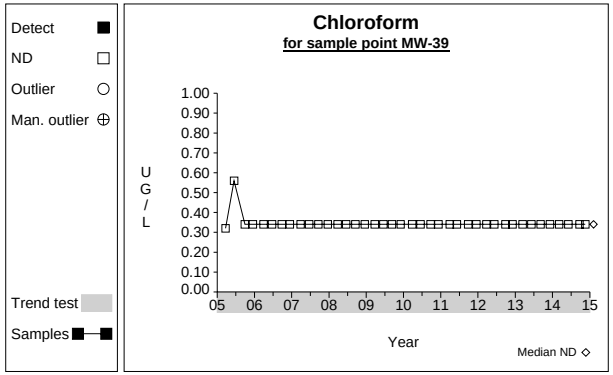
Graph 257



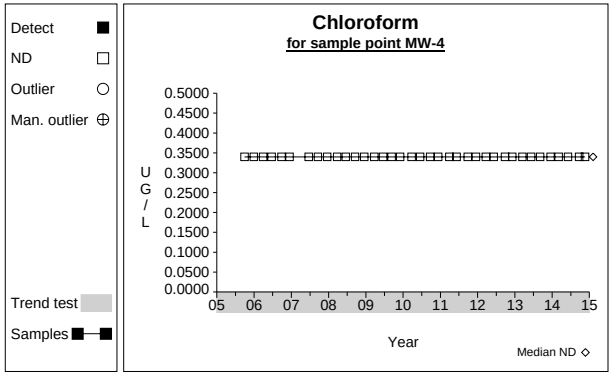
Graph 258



Graph 259

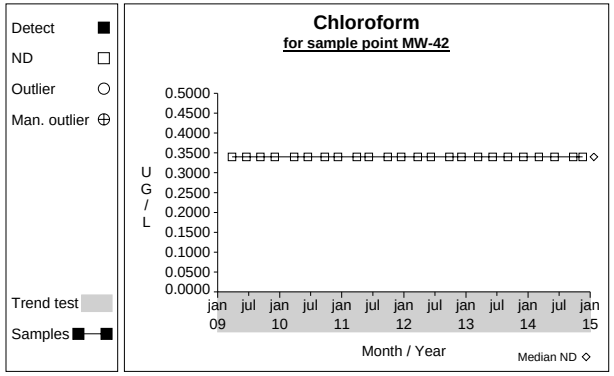


Graph 260

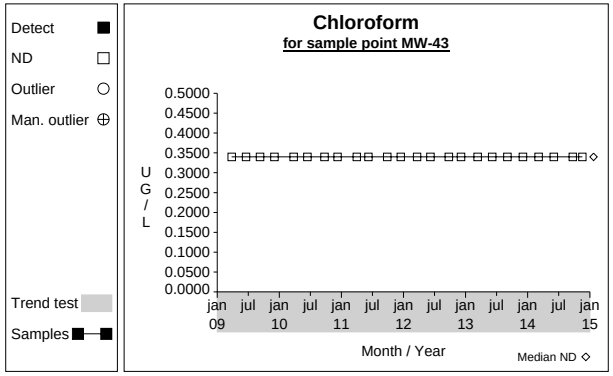


Graph 261

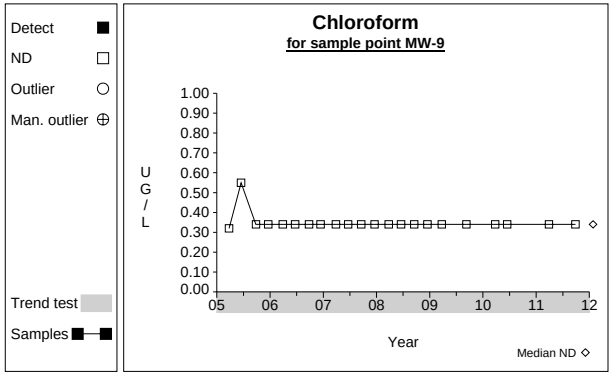
Time Series



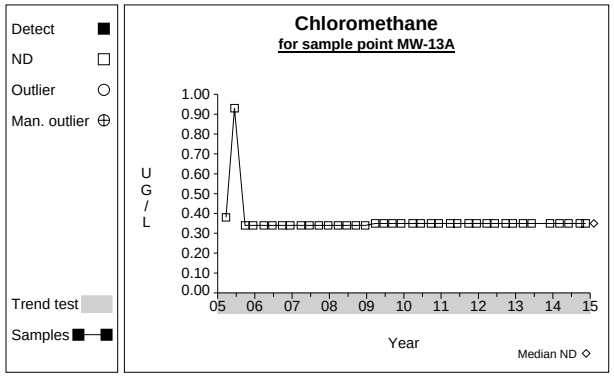
Graph 262



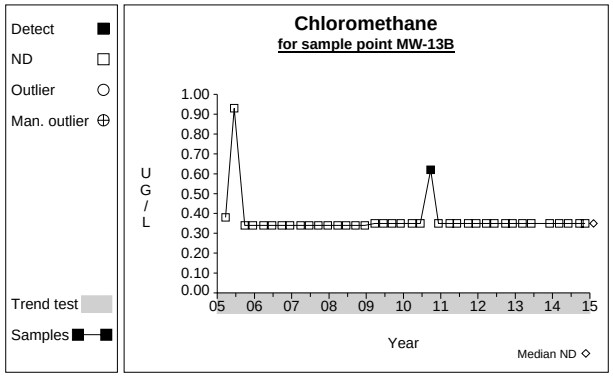
Graph 263



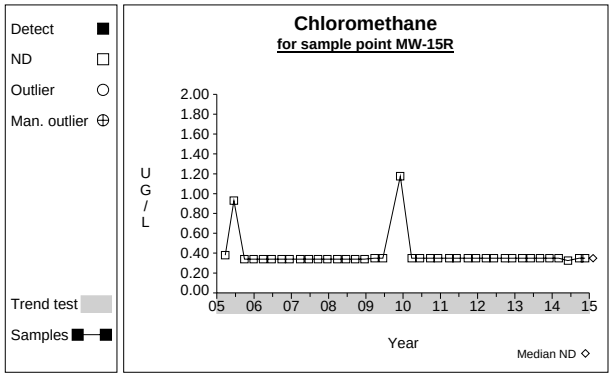
Graph 264



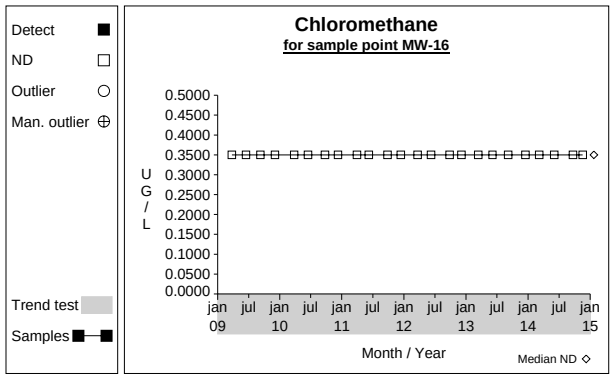
Graph 265



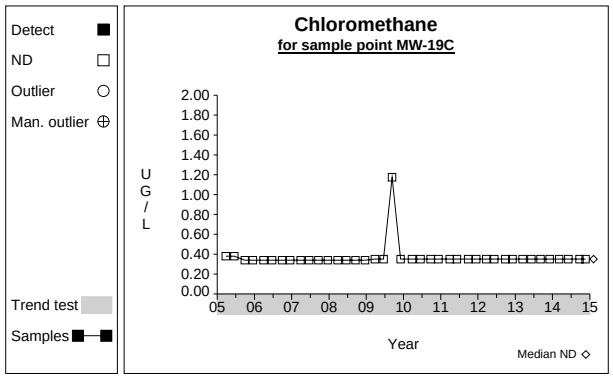
Graph 266



Graph 267



Graph 268



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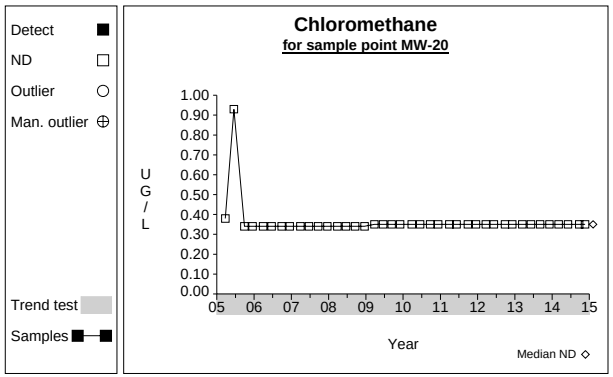
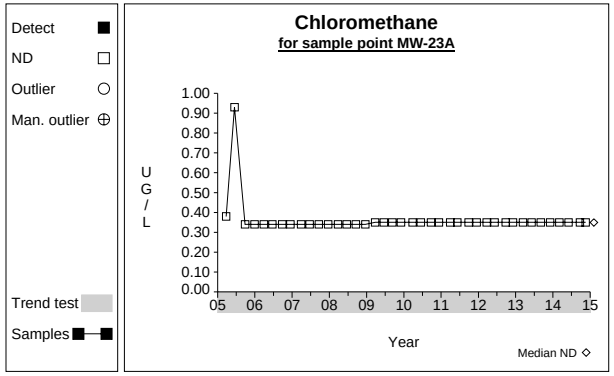
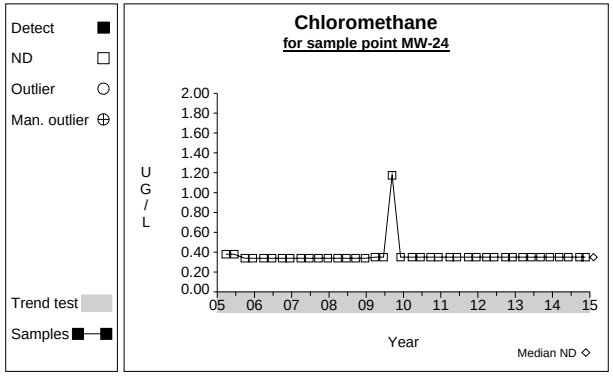


Graph 270

Time Series



Graph 271



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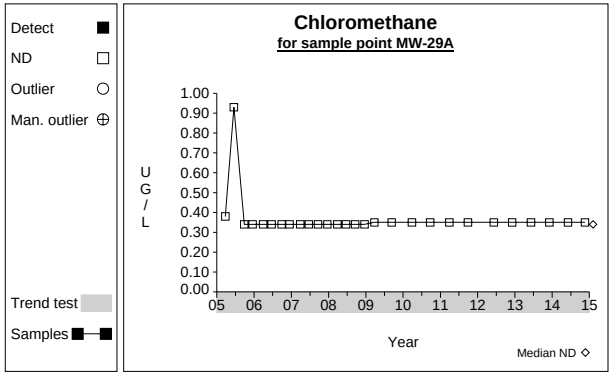

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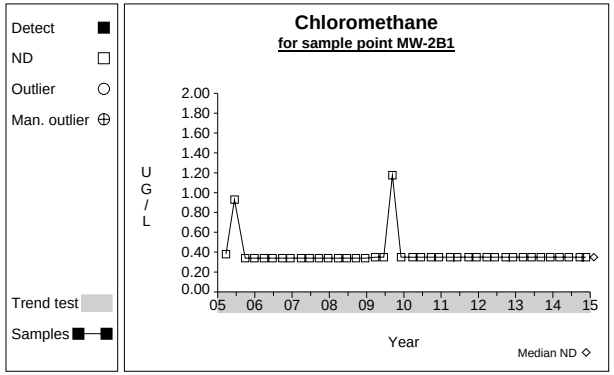
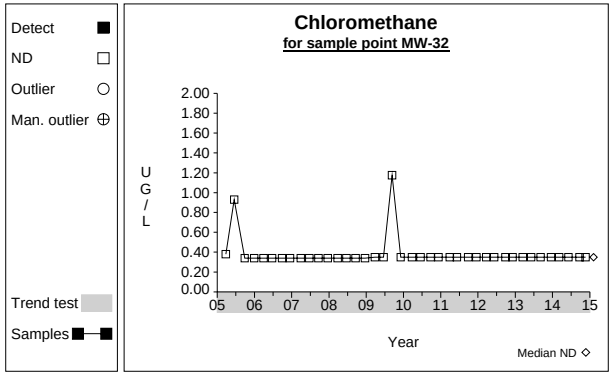
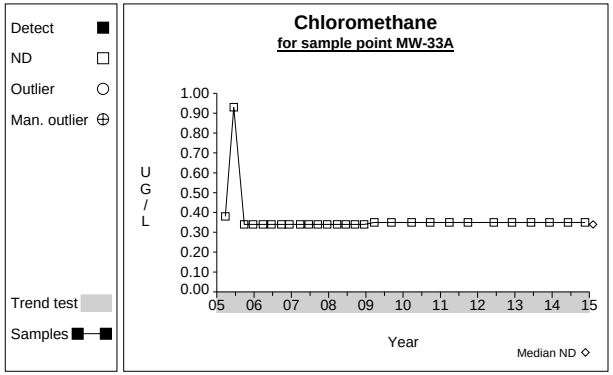


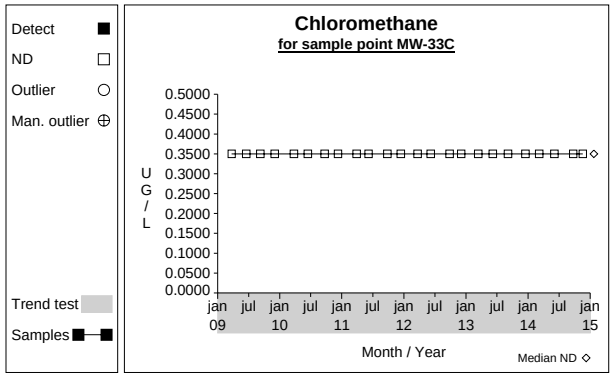
Graph 274



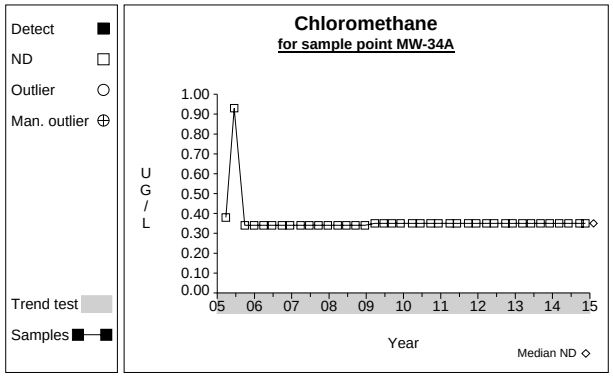
Graph 275



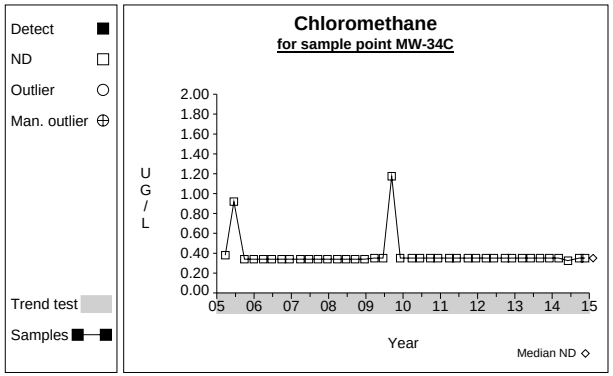
Graph 276



Graph 277

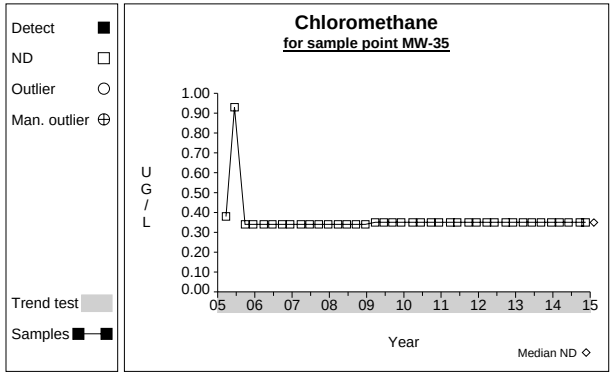


Graph 278

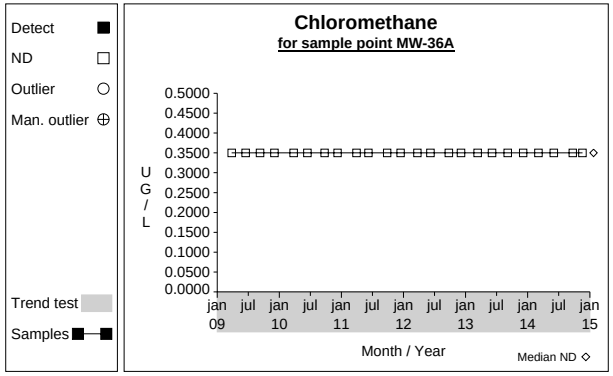


Graph 279

Time Series



Graph 280



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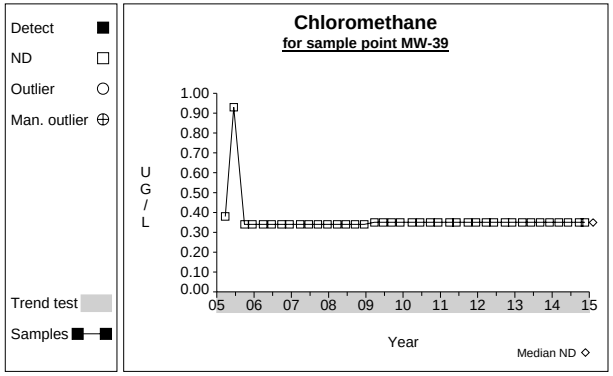

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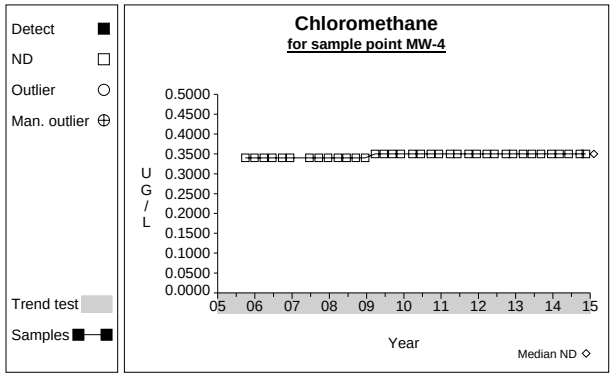
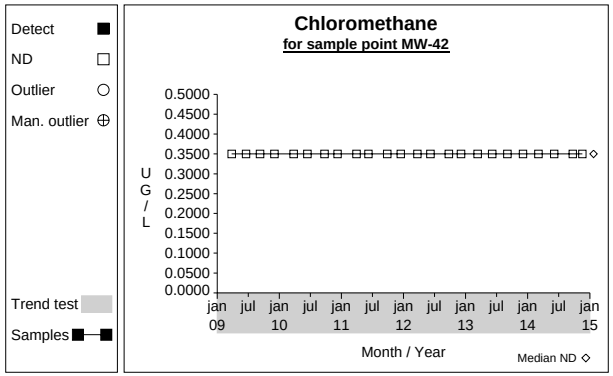


Graph 283



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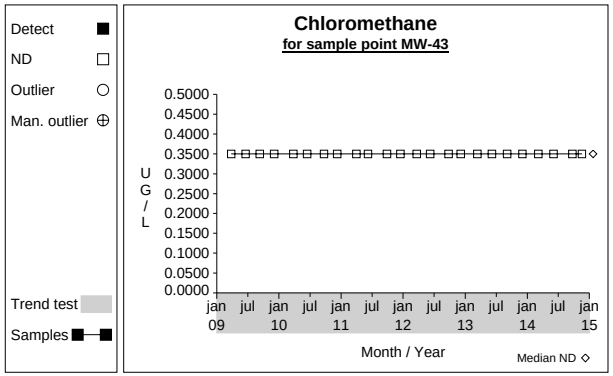

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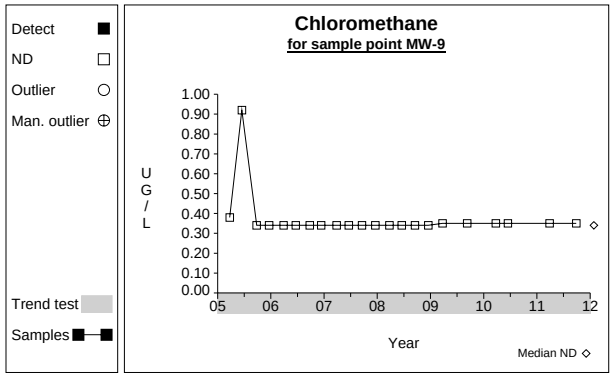

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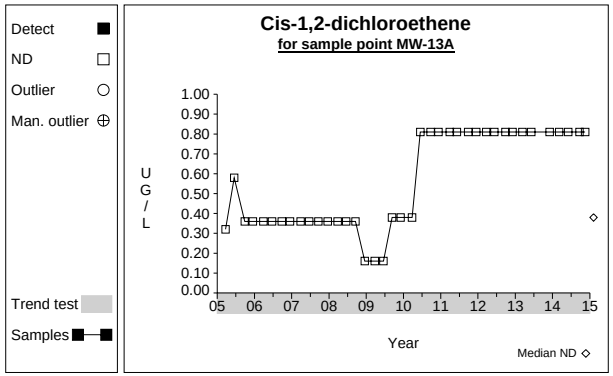

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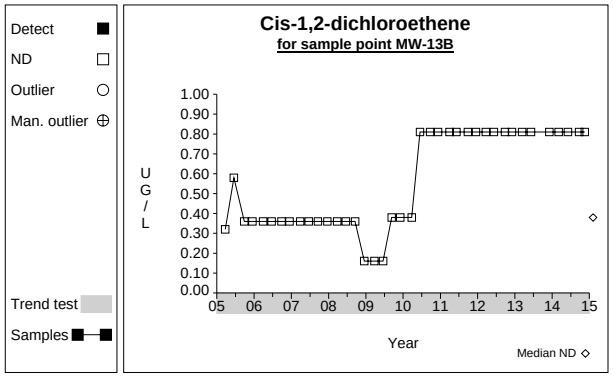
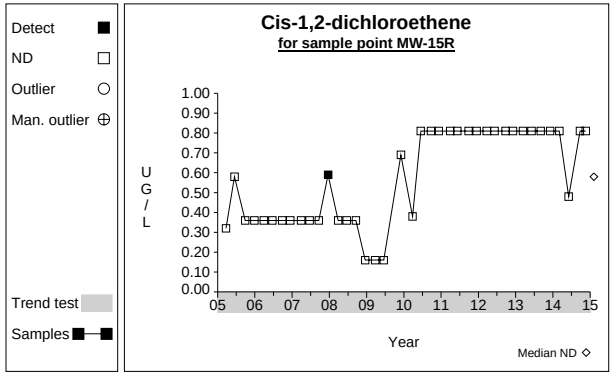
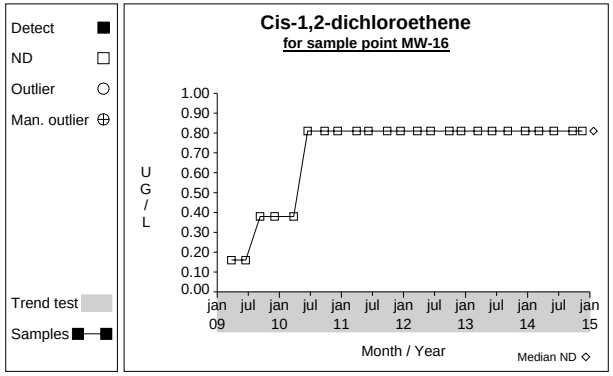


Graph 288

Time Series



Graph 289



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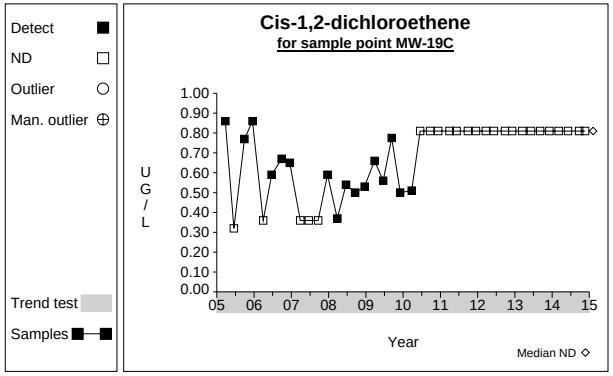

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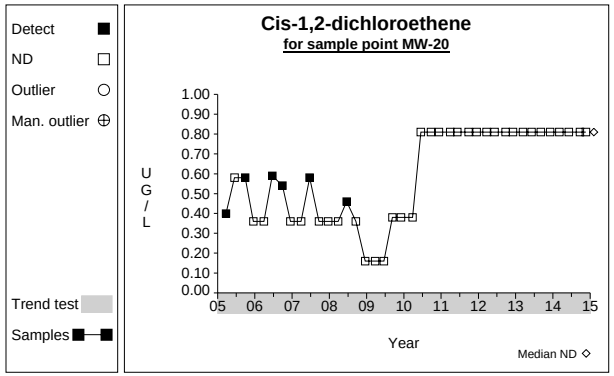
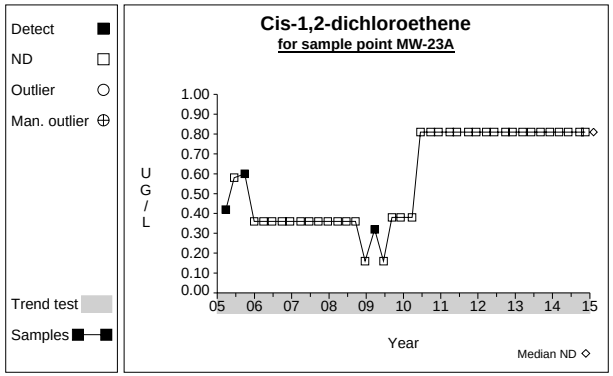


Graph 292



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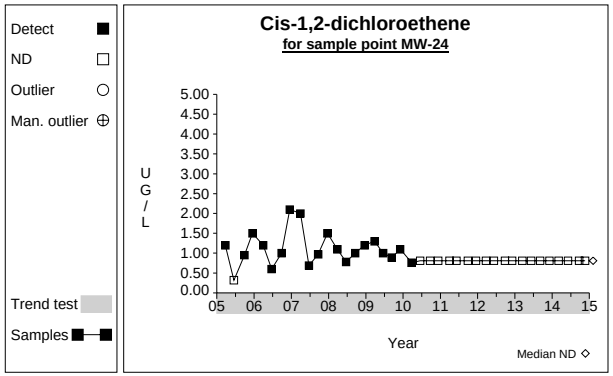

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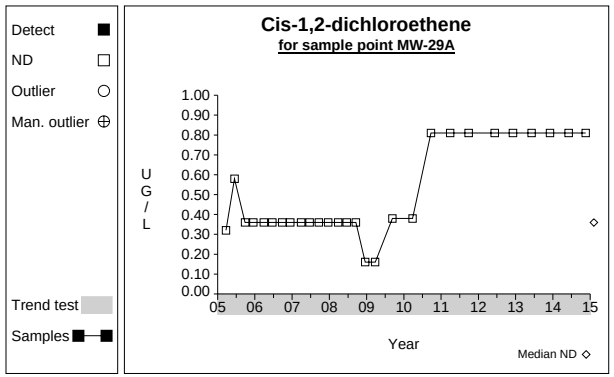
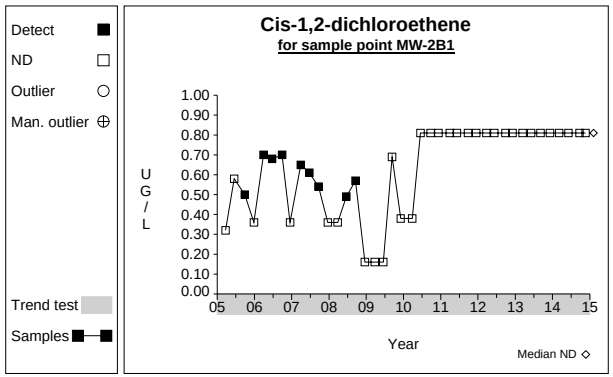


Graph 295



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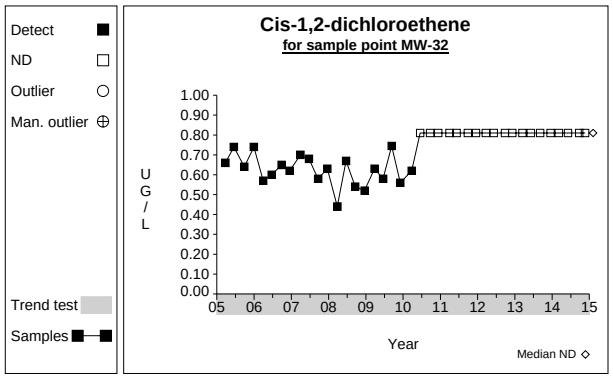
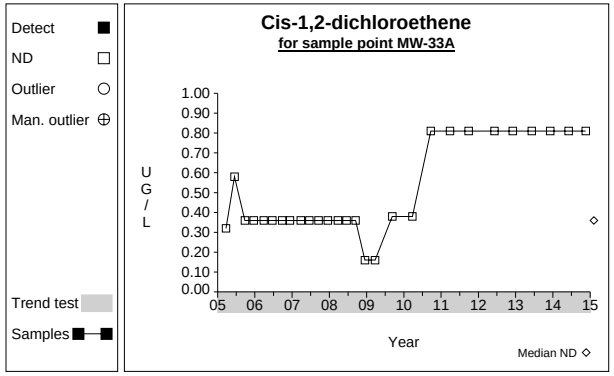
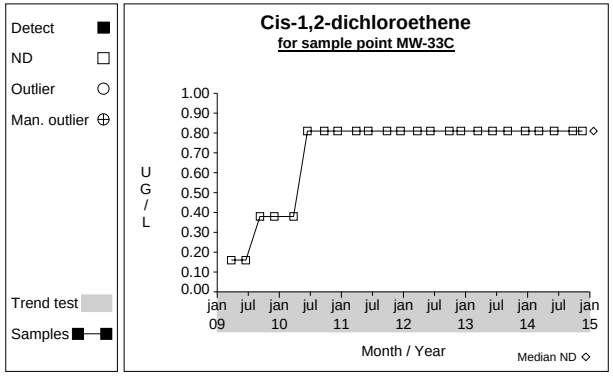


Graph 297

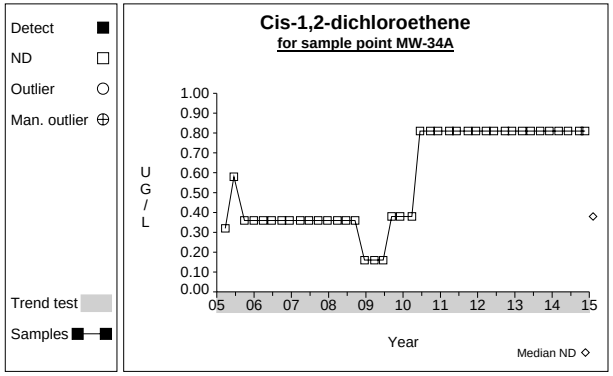
Time Series



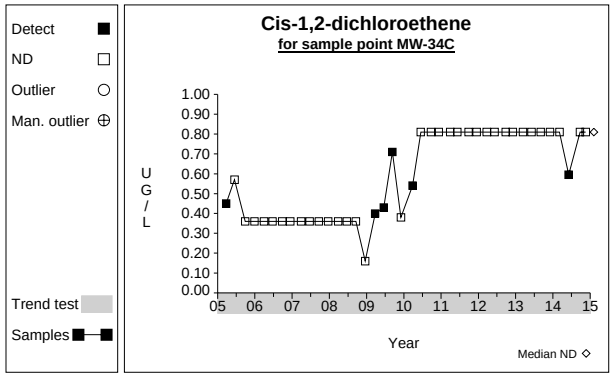
Graph 298



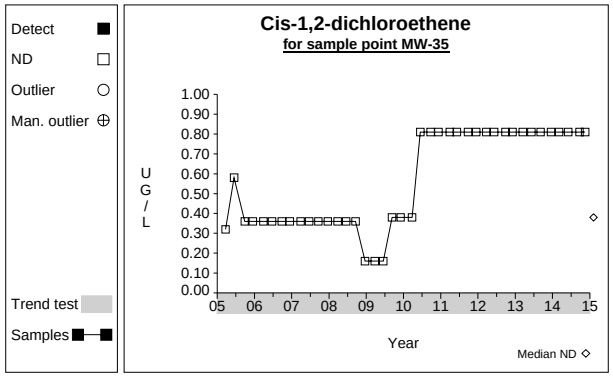
Graph 299



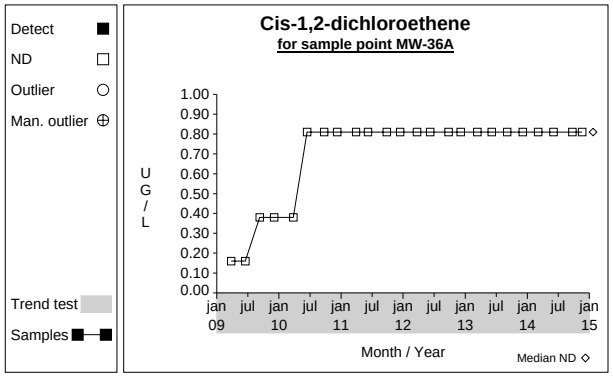
Graph 300



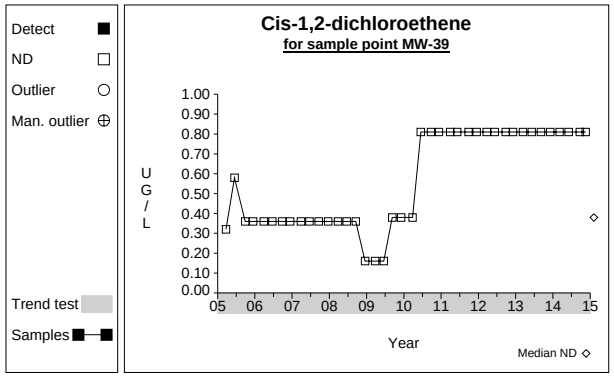
Graph 301



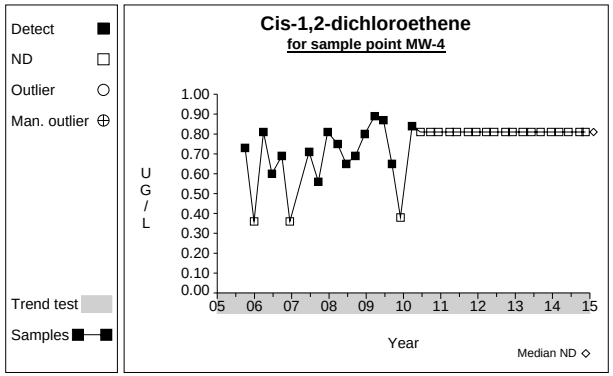
Graph 302



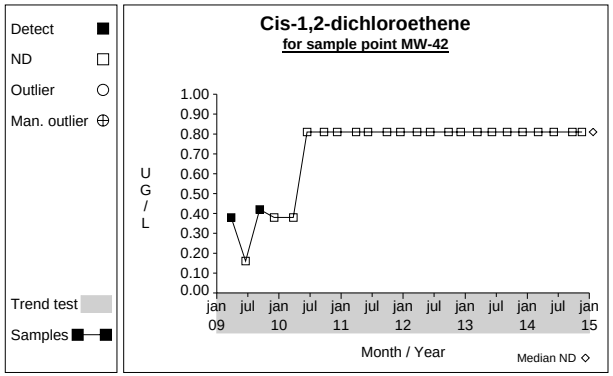
Graph 303



Graph 304

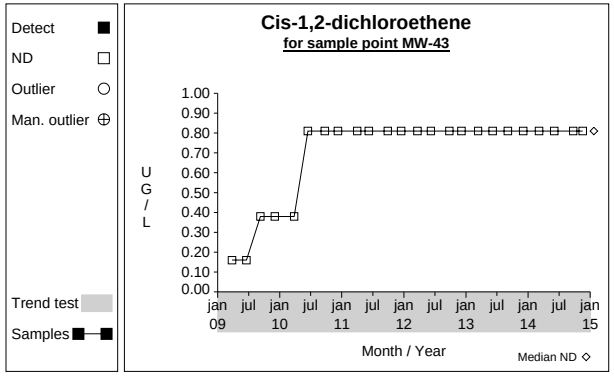


Graph 305

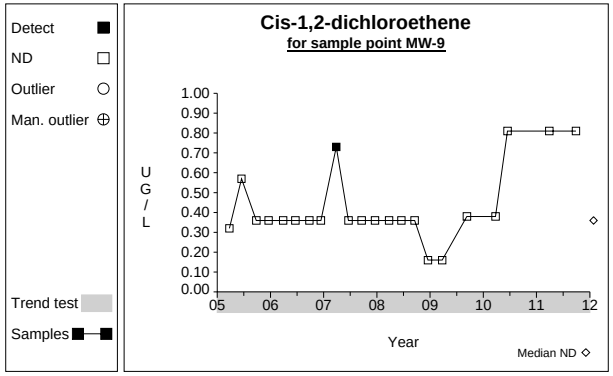


Graph 306

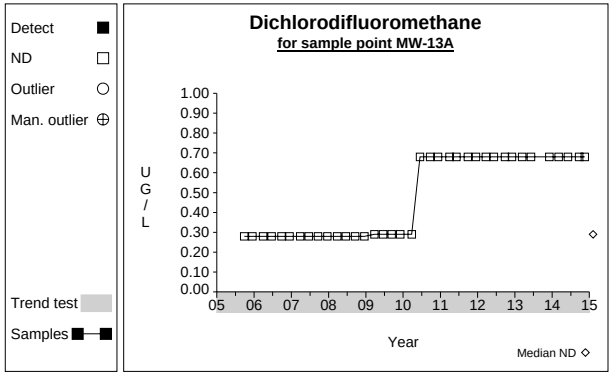
Time Series



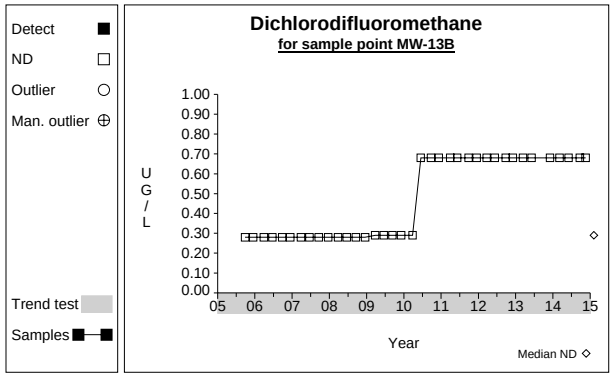
Graph 307



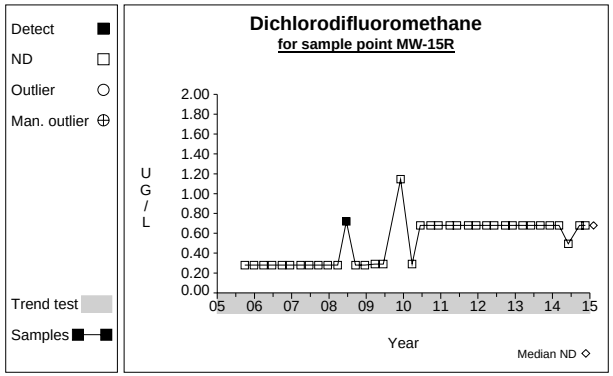
Graph 308



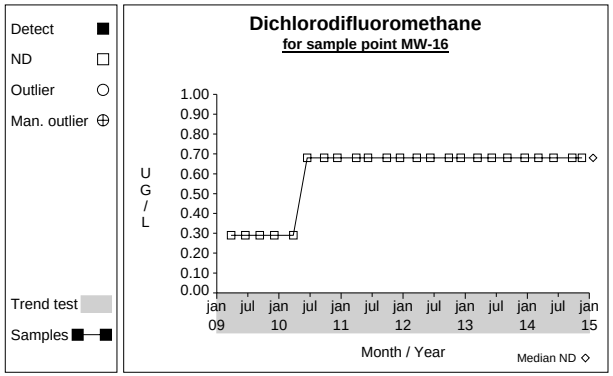
Graph 309



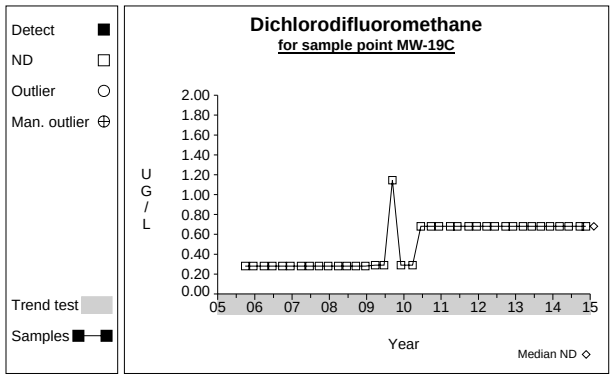
Graph 310



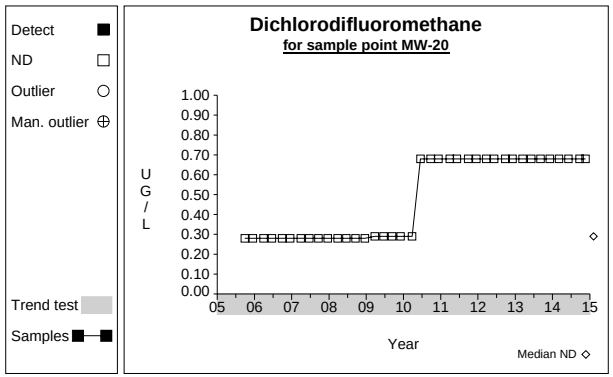
Graph 311



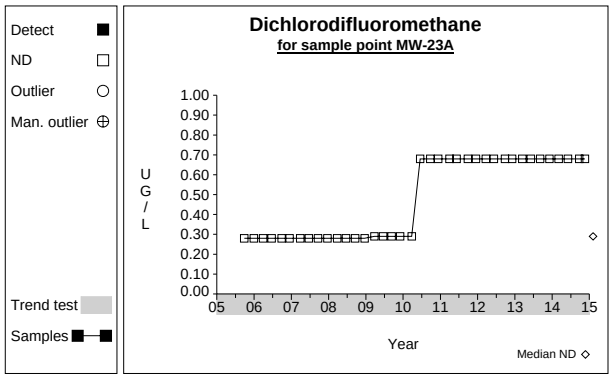
Graph 312



Graph 313

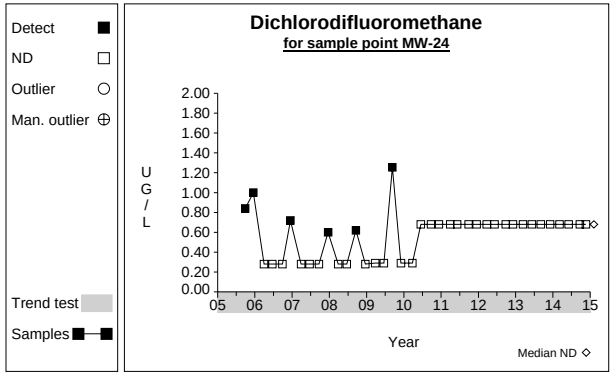


Graph 314

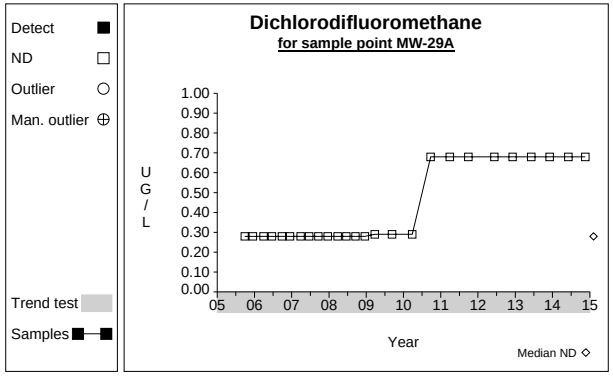


Graph 315

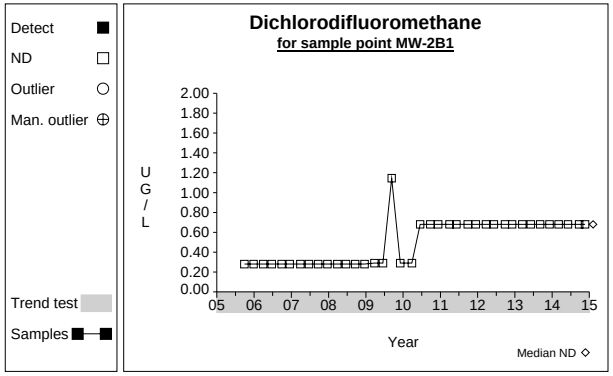
Time Series



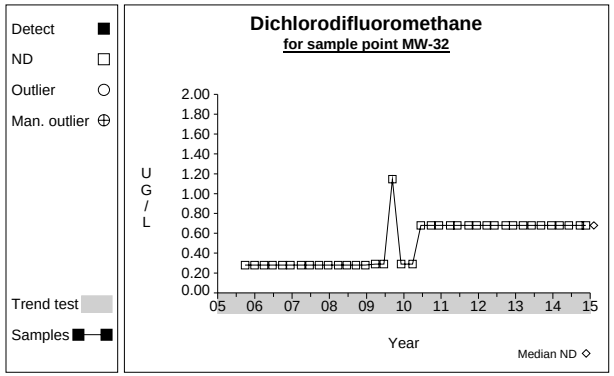
Graph 316



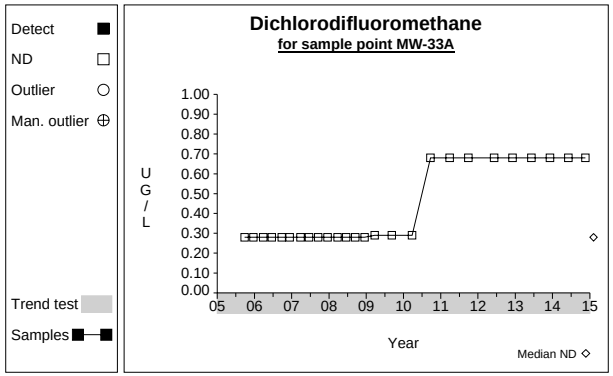
Graph 317



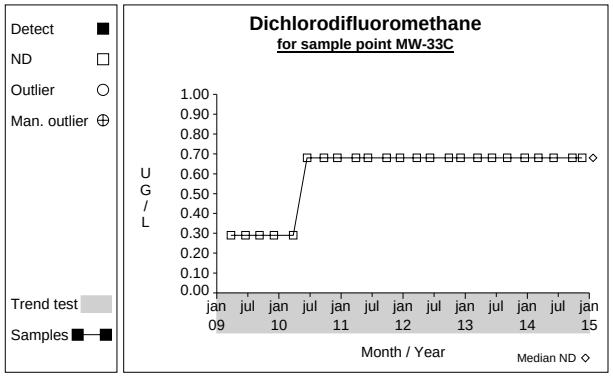
Graph 318



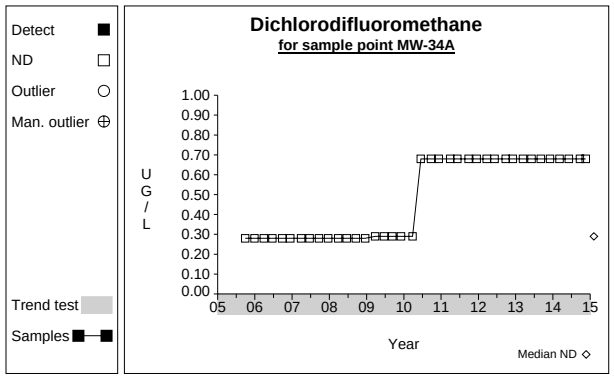
Graph 319



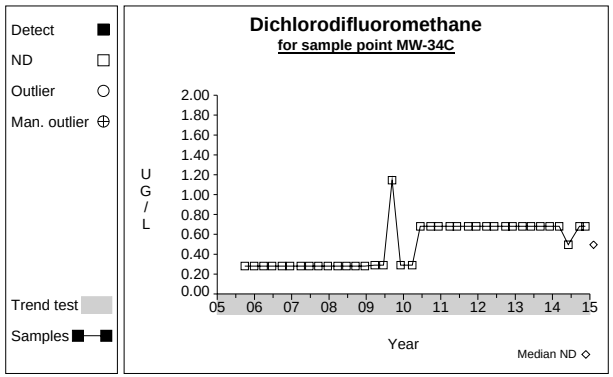
Graph 320



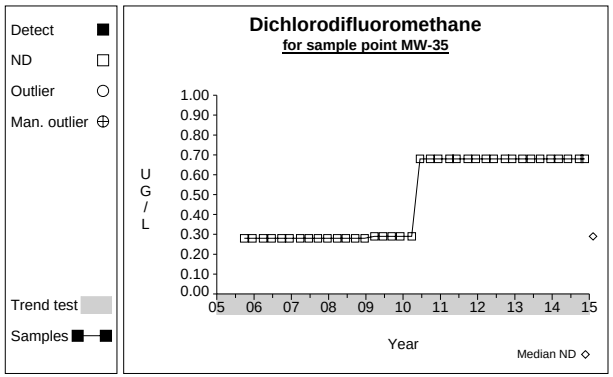
Graph 321



Graph 322

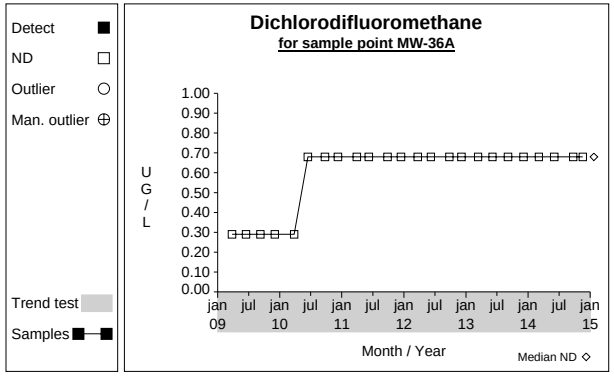


Graph 323

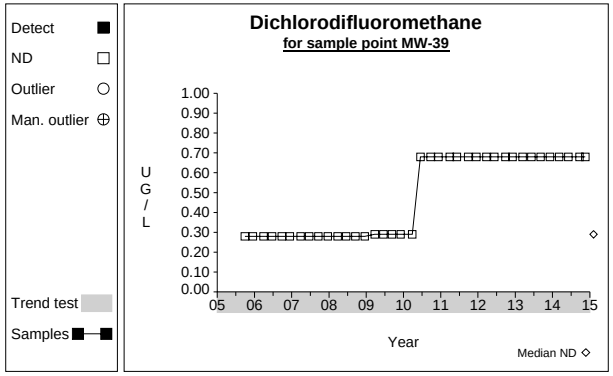


Graph 324

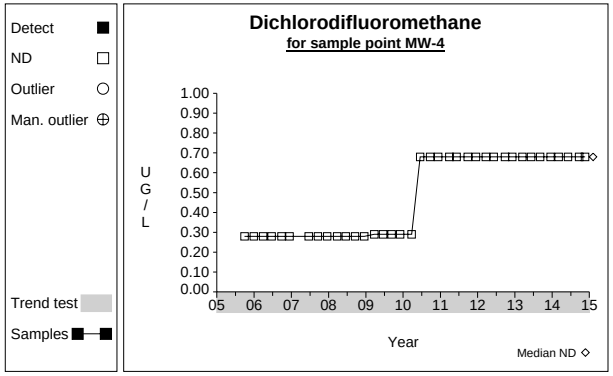
Time Series



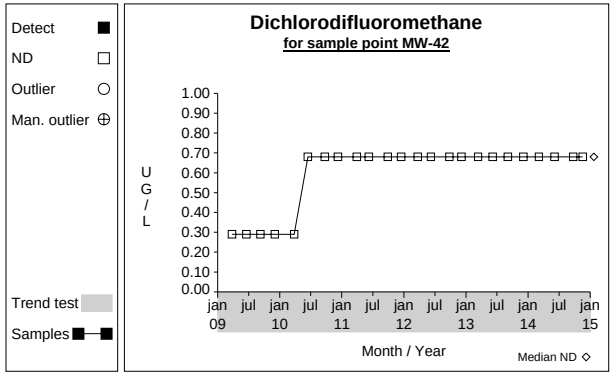
Graph 325



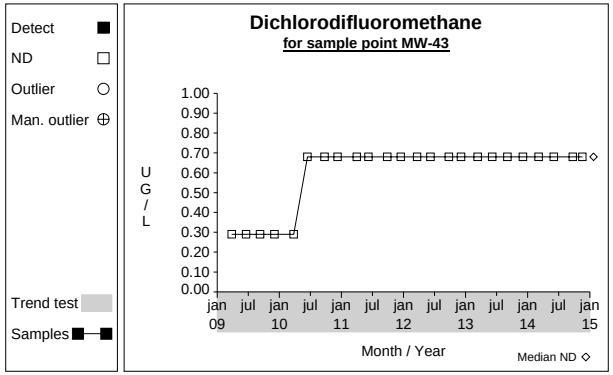
Graph 326



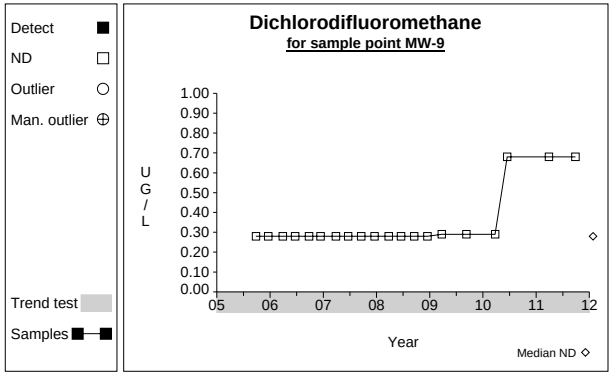
Graph 327



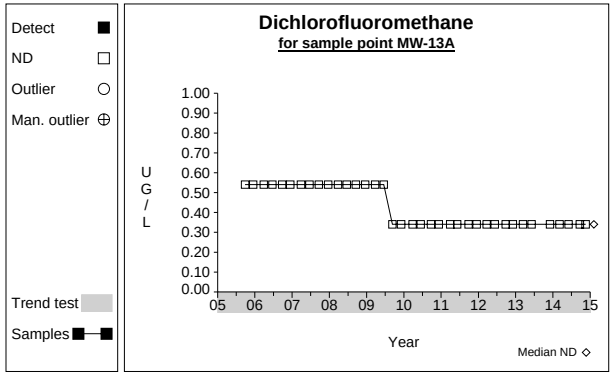
Graph 328



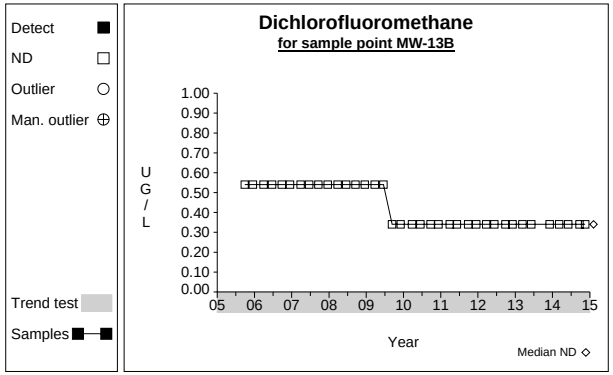
Graph 329



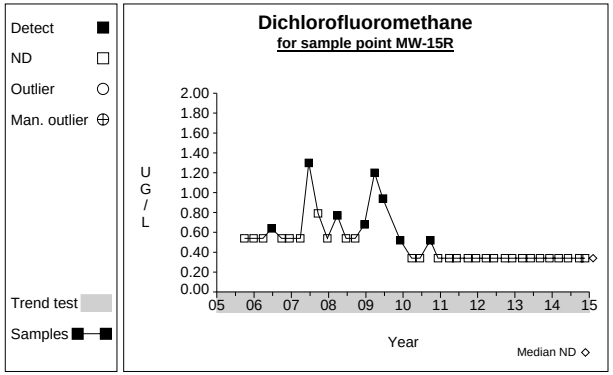
Graph 330



Graph 331

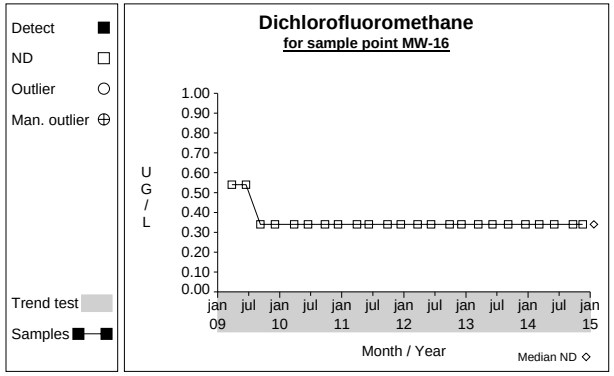


Graph 332

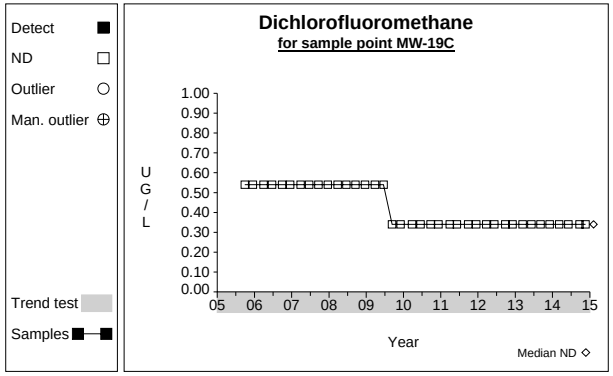


Graph 333

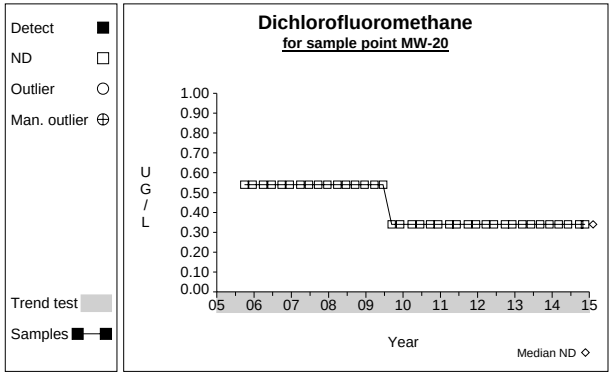
Time Series



Graph 334



Graph 335



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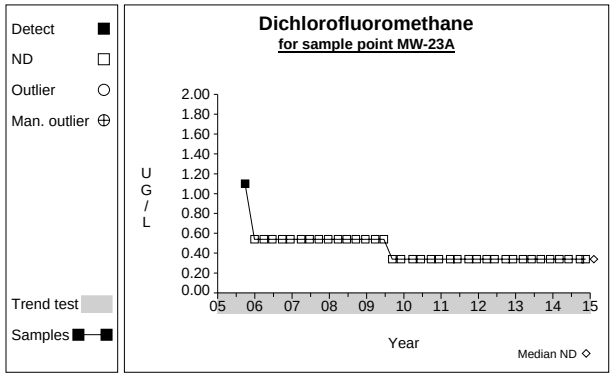
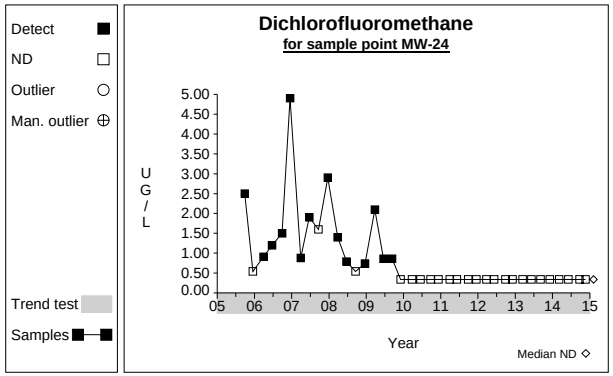
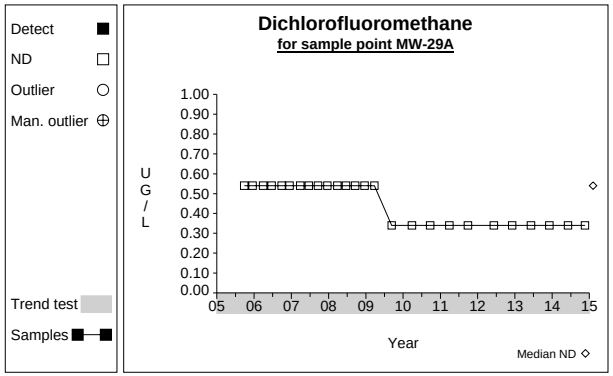


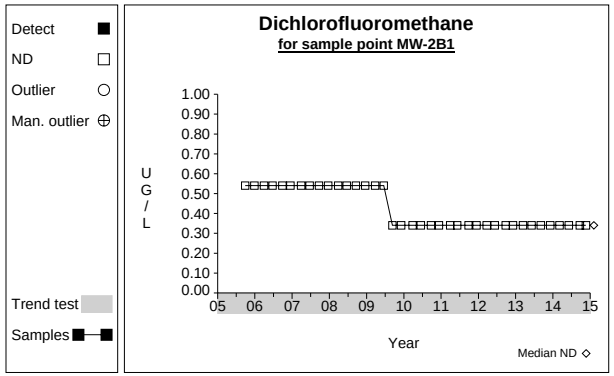
Graph 337



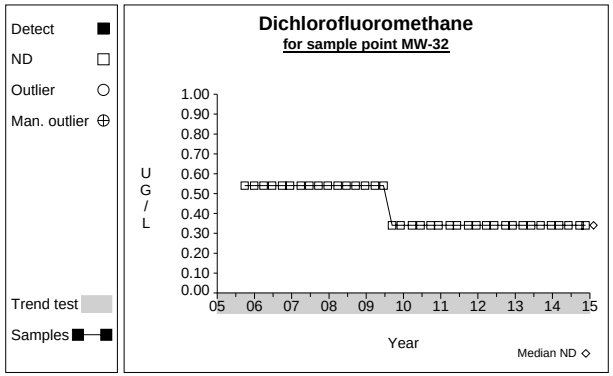
Graph 338



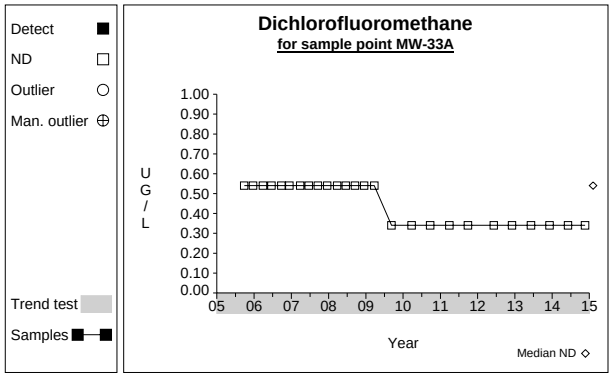
Graph 339



Graph 340

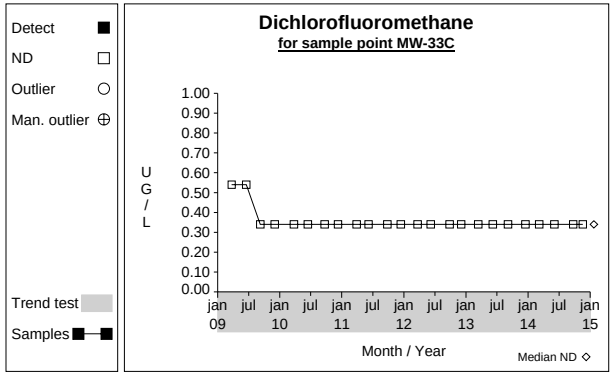


Graph 341

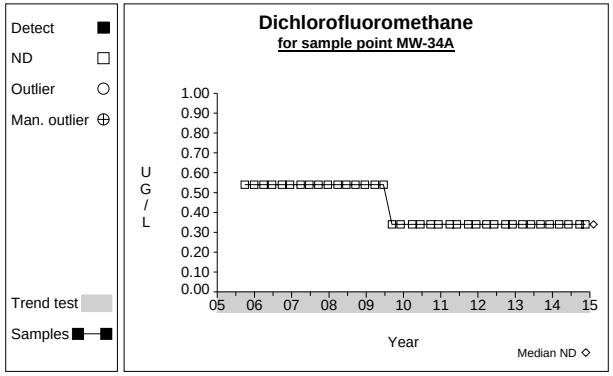


Graph 342

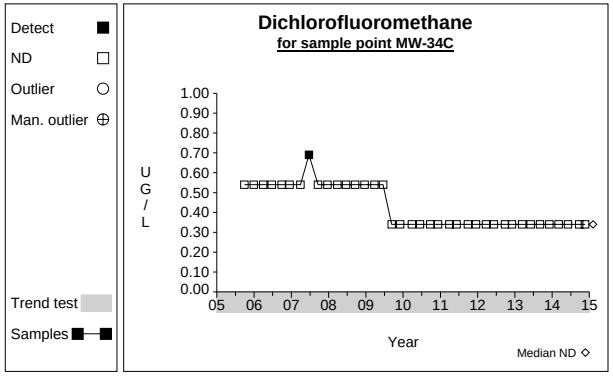
Time Series



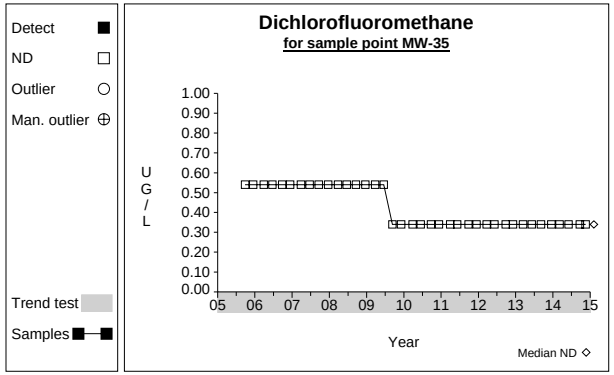
Graph 343



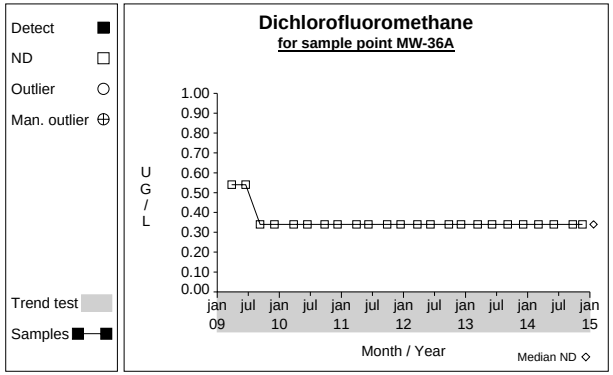
Graph 344



Graph 345



Graph 346



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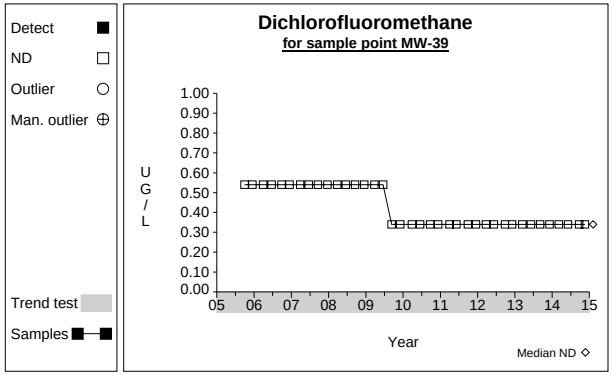

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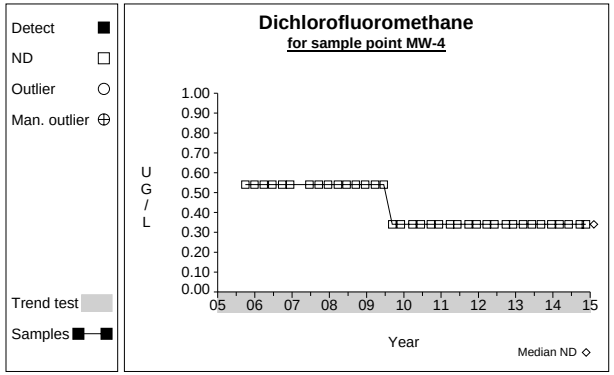

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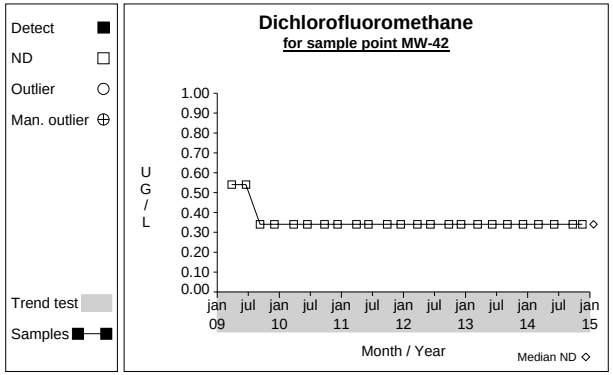
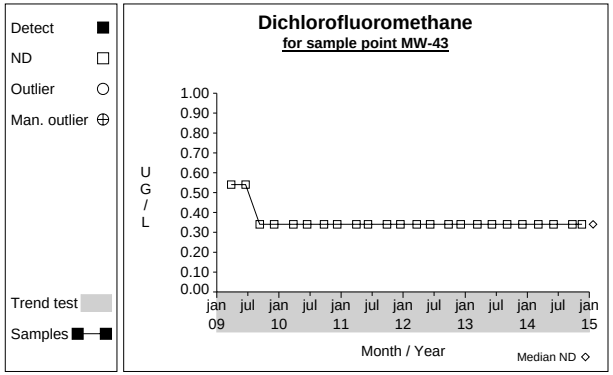
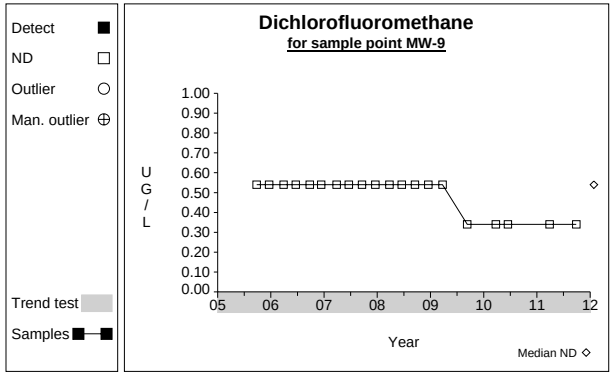


Graph 350

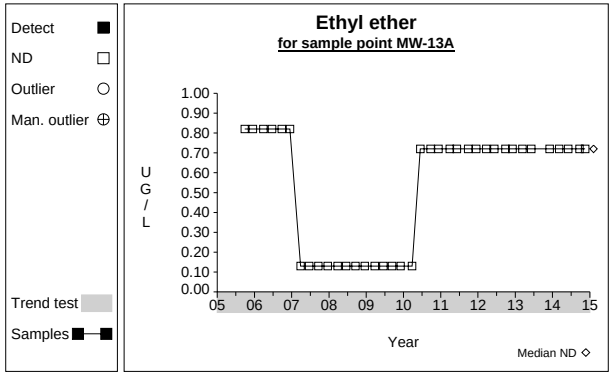


Graph 351

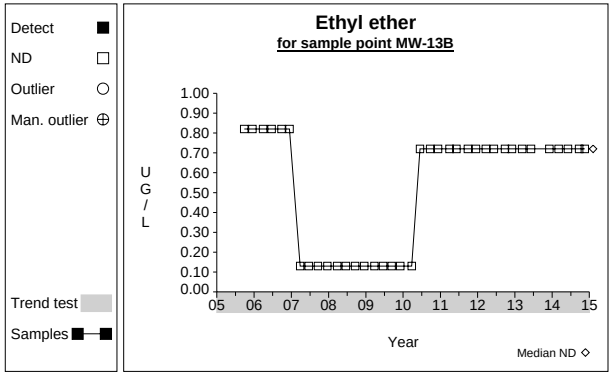
Time Series



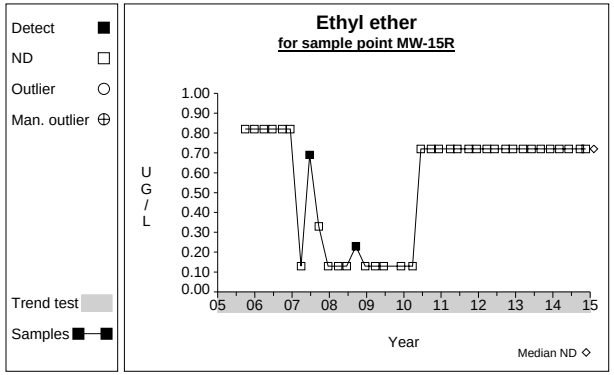
Graph 352



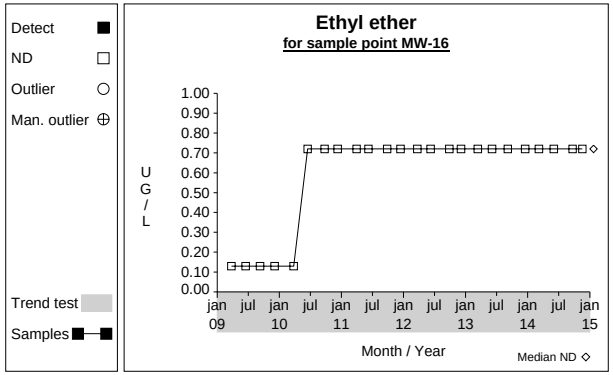
Graph 353



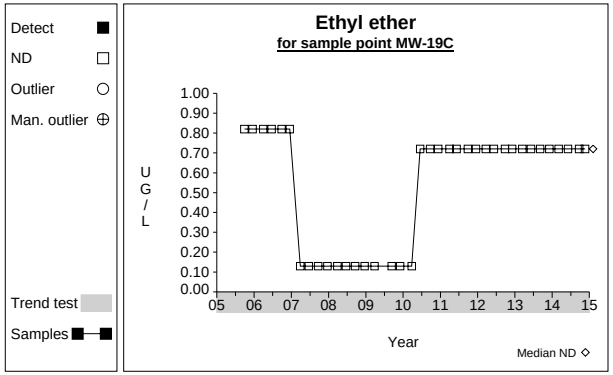
Graph 354



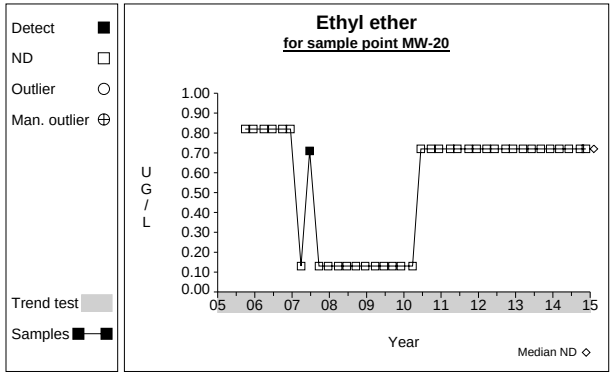
Graph 355



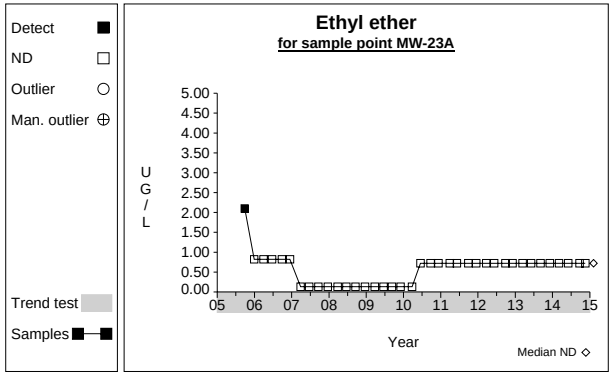
Graph 356



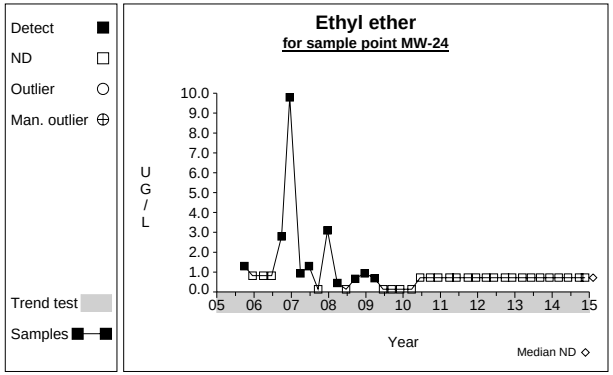
Graph 357



Graph 358

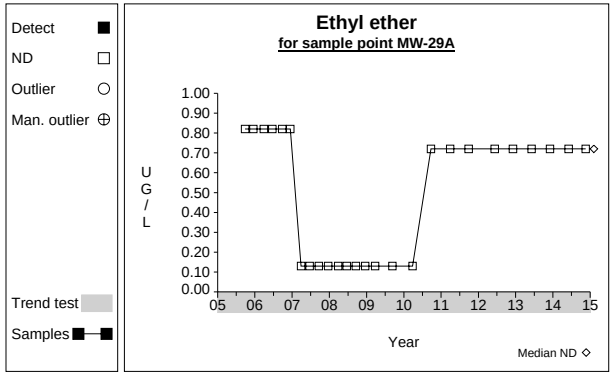


Graph 359

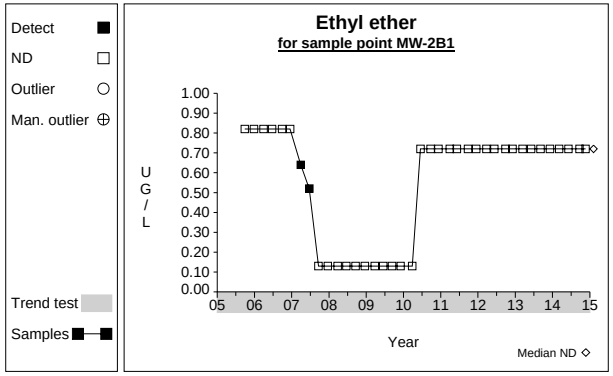


Graph 360

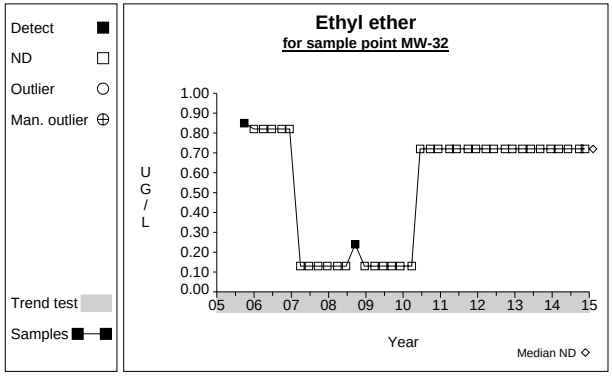
Time Series



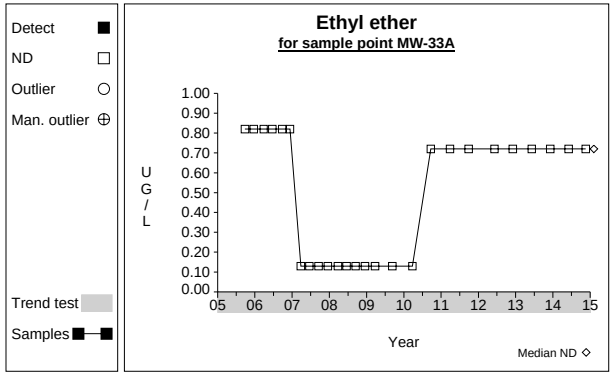
Graph 361



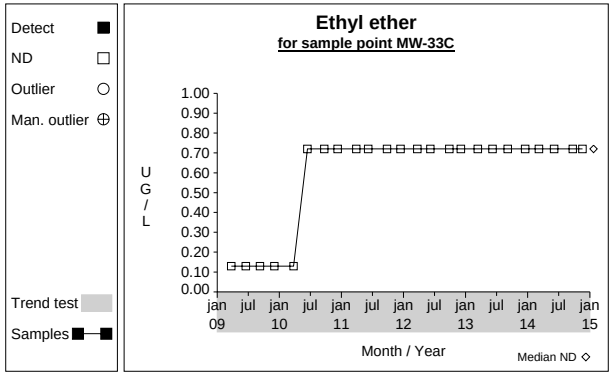
Graph 362



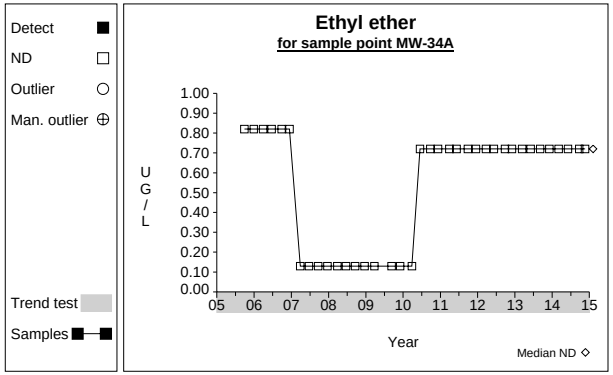
Graph 363



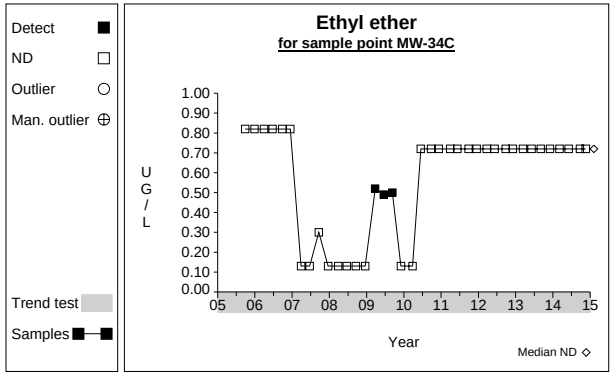
Graph 364



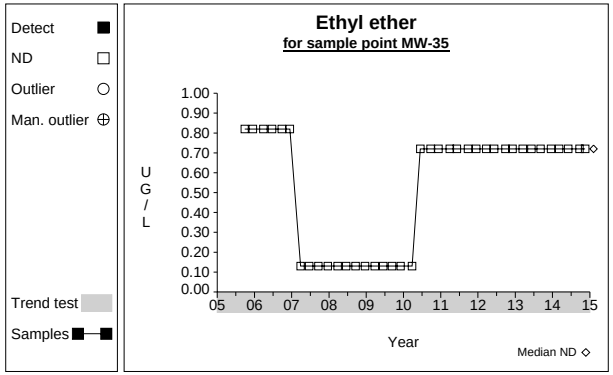
Graph 365



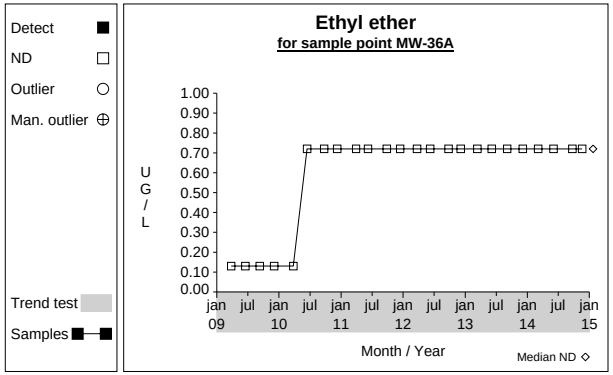
Graph 366



Graph 367

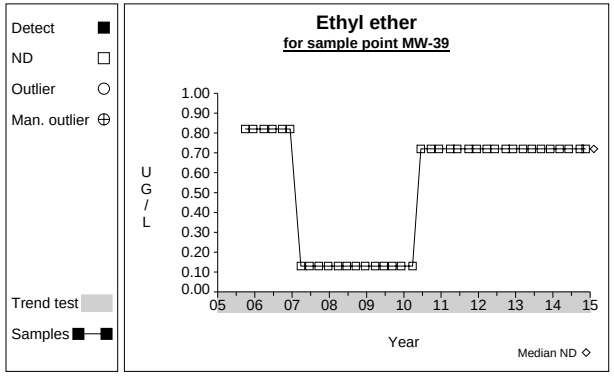


Graph 368

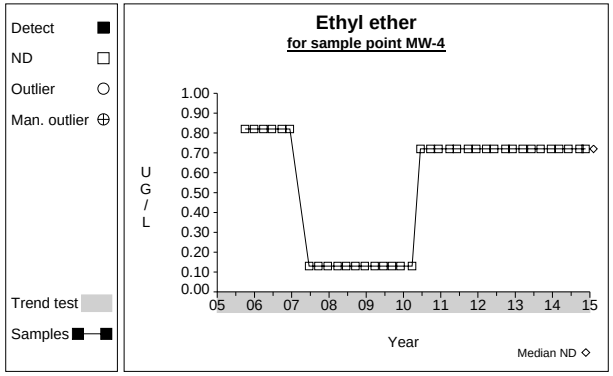


Graph 369

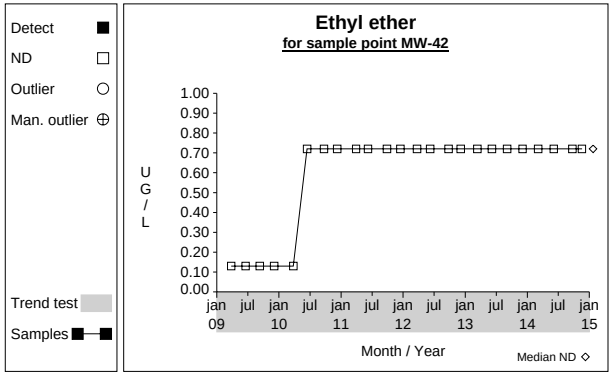
Time Series



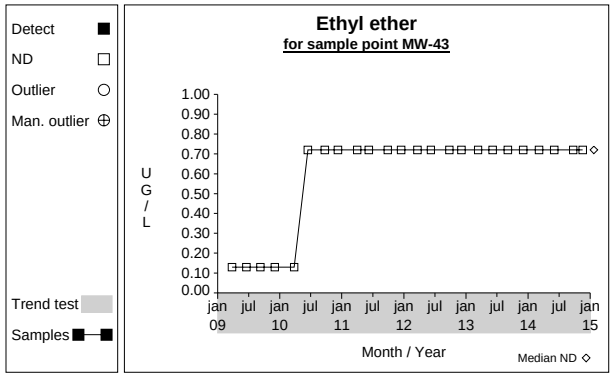
Graph 370



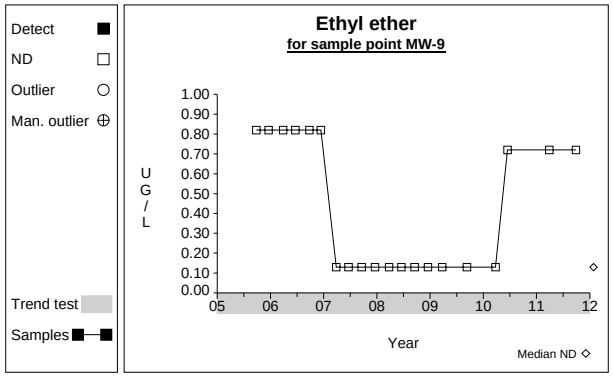
Graph 371



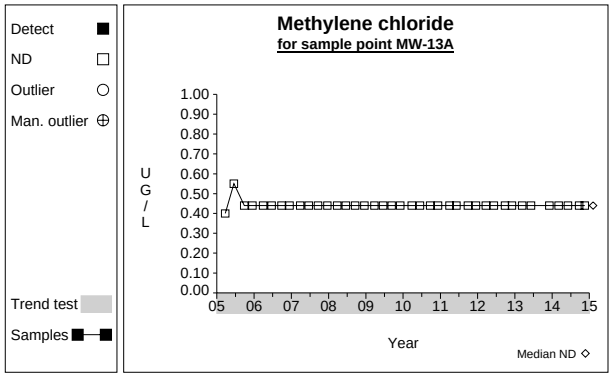
Graph 372



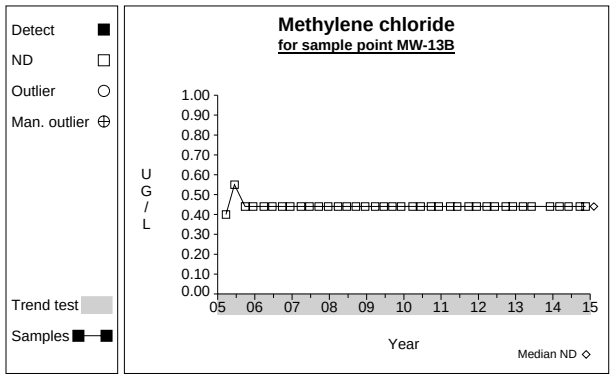
Graph 373



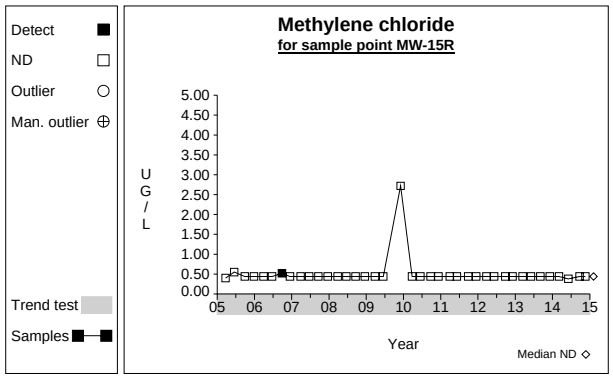
Graph 374



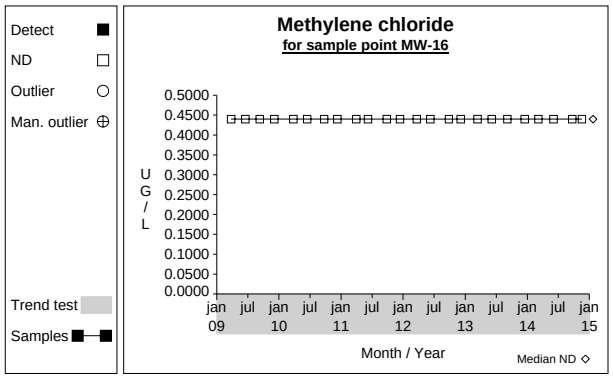
Graph 375



Graph 376

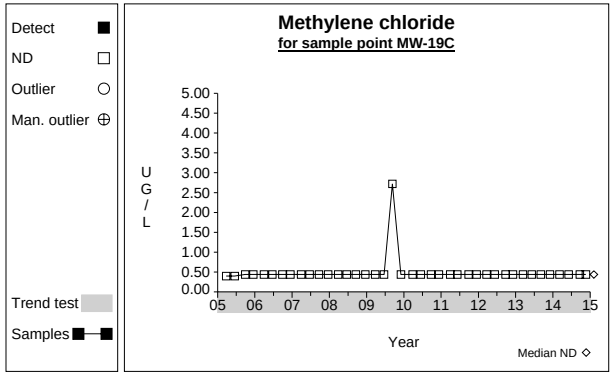


Graph 377

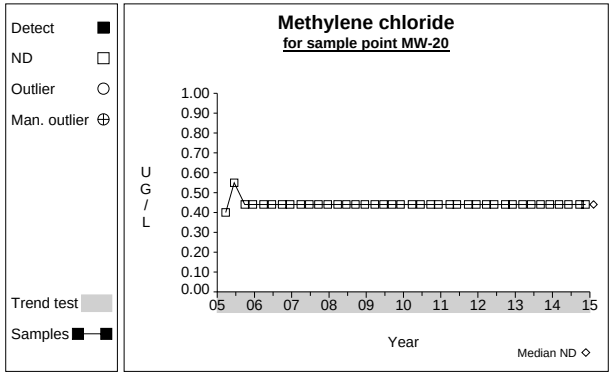


Graph 378

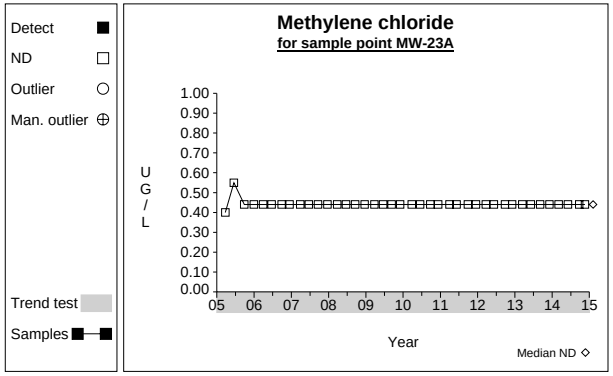
Time Series



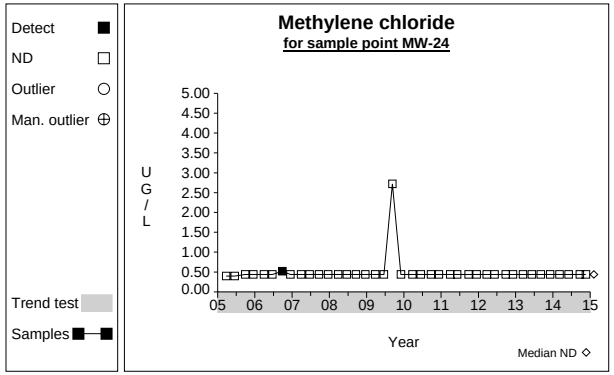
Graph 379



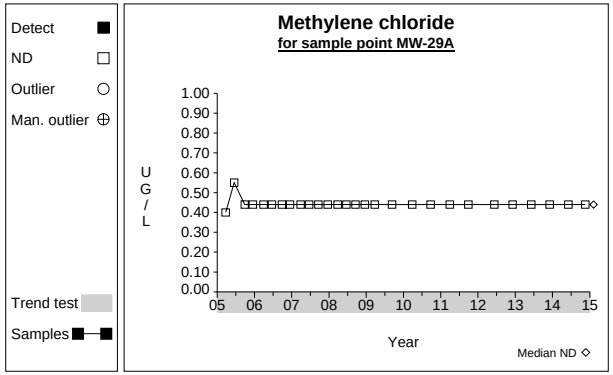
Graph 380



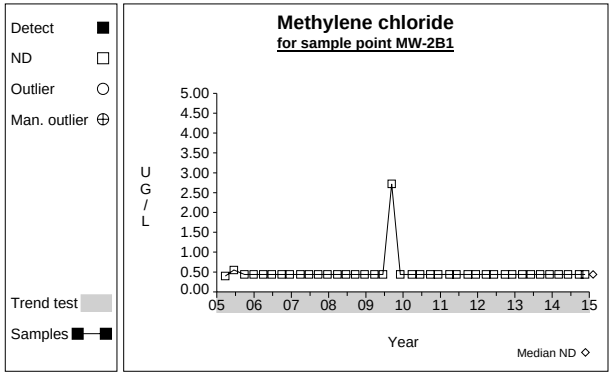
Graph 381



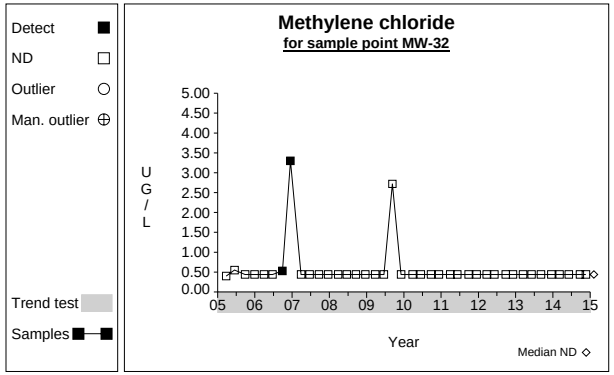
Graph 382



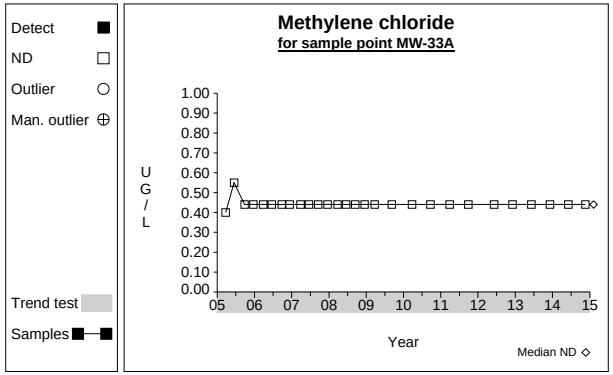
Graph 383



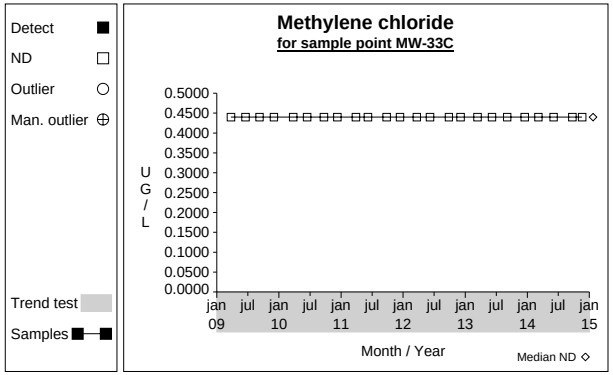
Graph 384



Graph 385

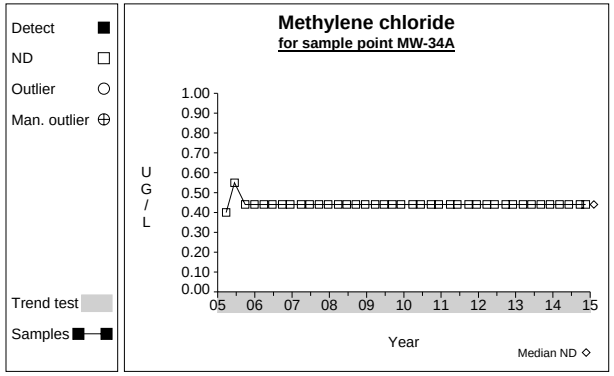


Graph 386

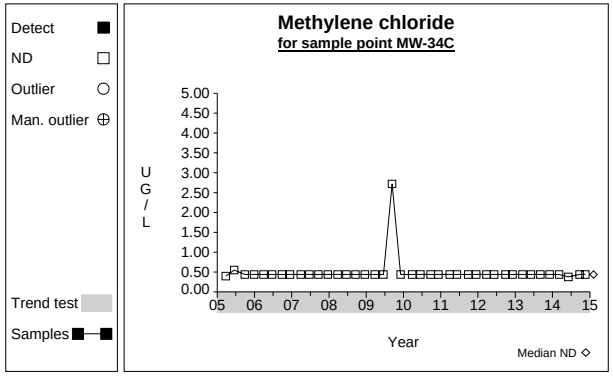


Graph 387

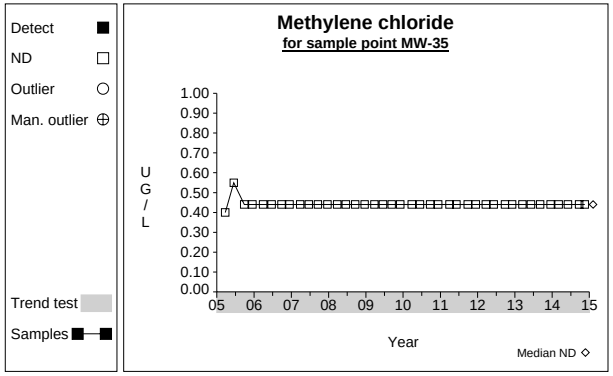
Time Series



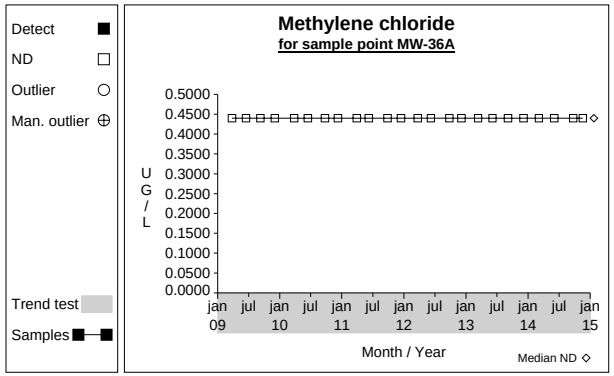
Graph 388



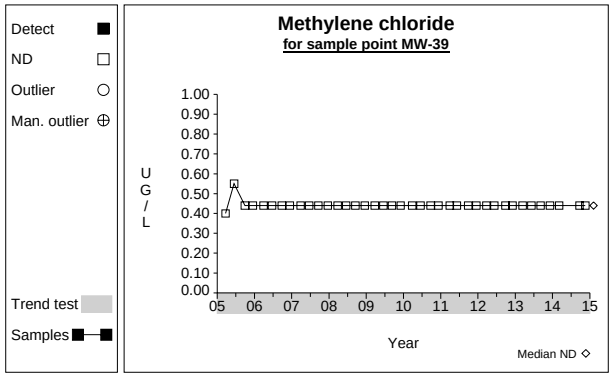
Graph 389



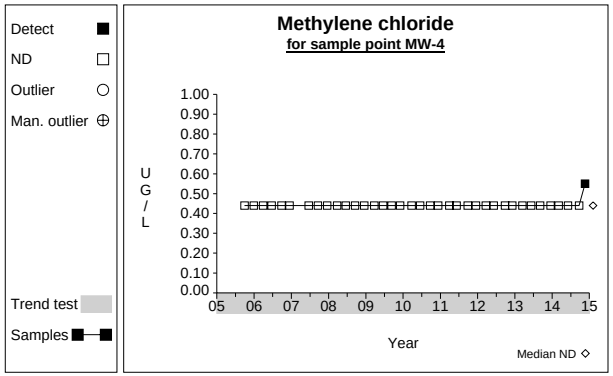
Graph 390



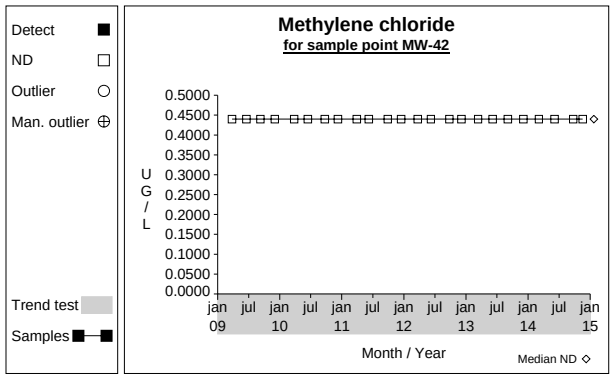
Graph 391



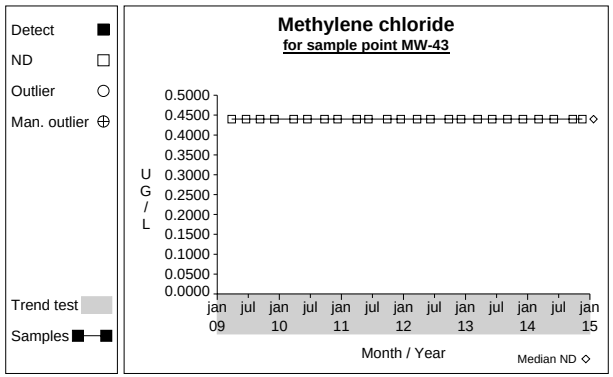
Graph 392



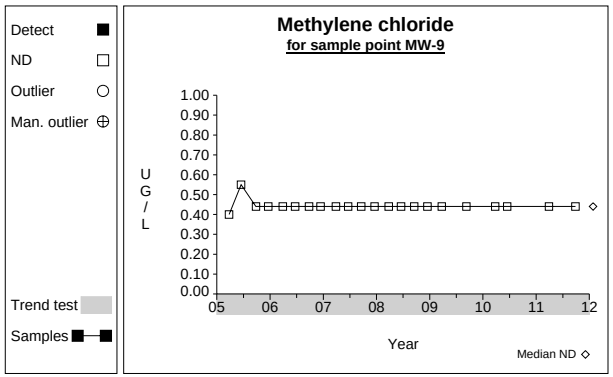
Graph 393



Graph 394

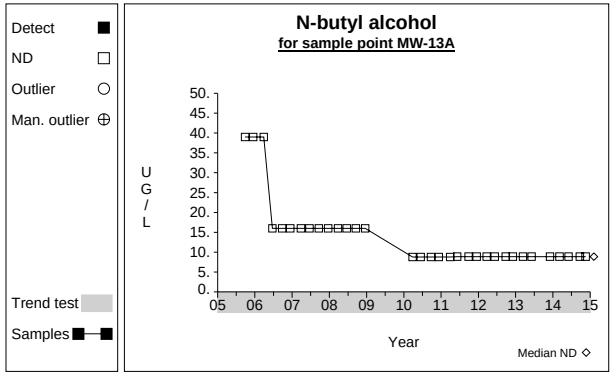


Graph 395

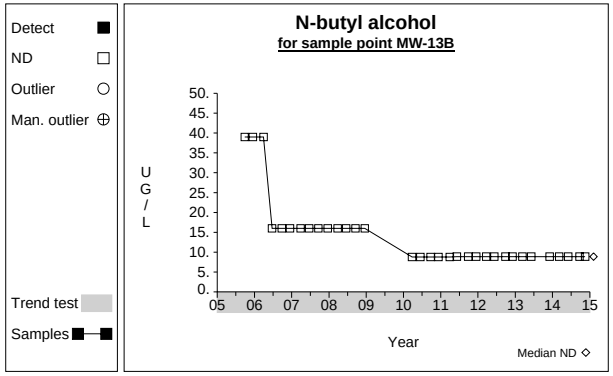


Graph 396

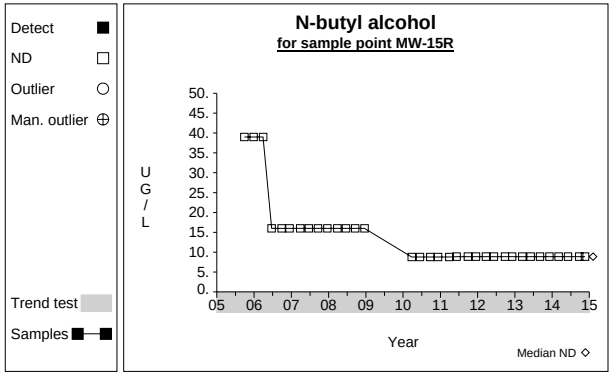
Time Series



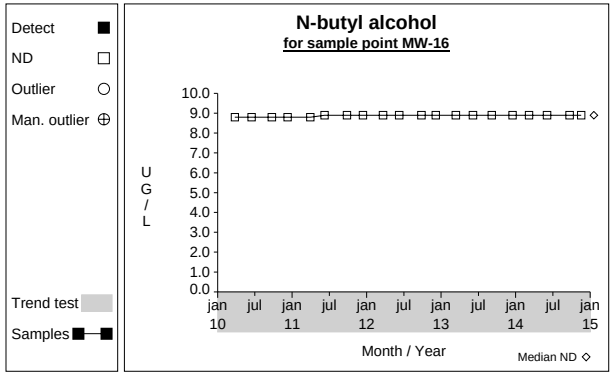
Graph 397



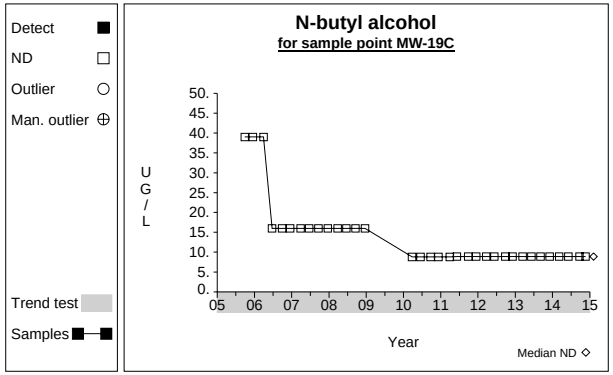
Graph 398



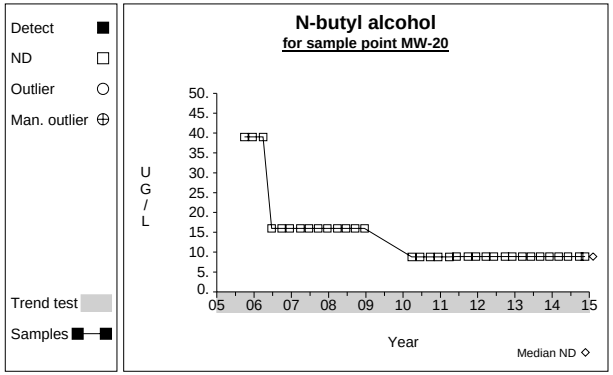
Graph 399



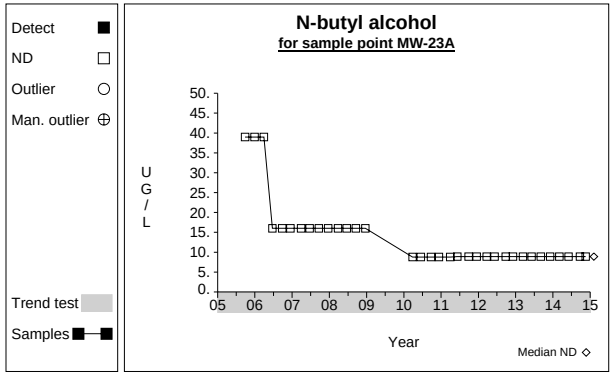
Graph 400



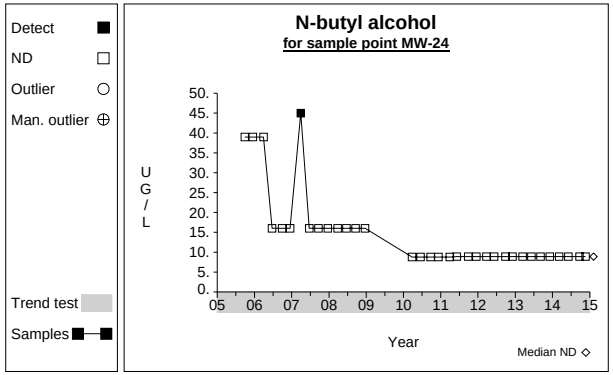
Graph 401



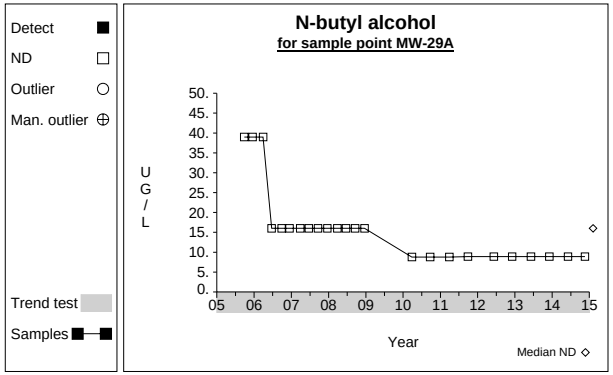
Graph 402



Graph 403

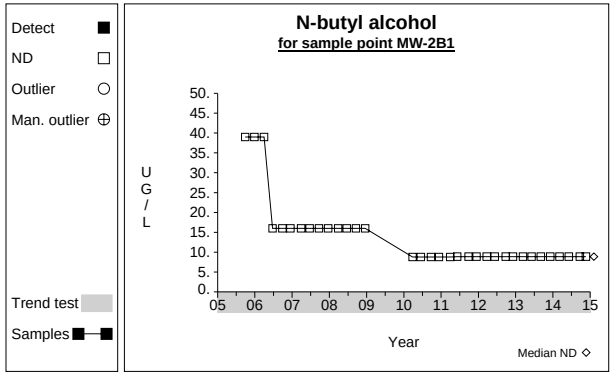


Graph 404

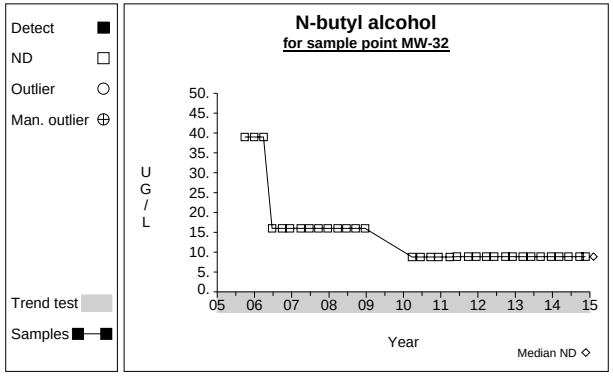


Graph 405

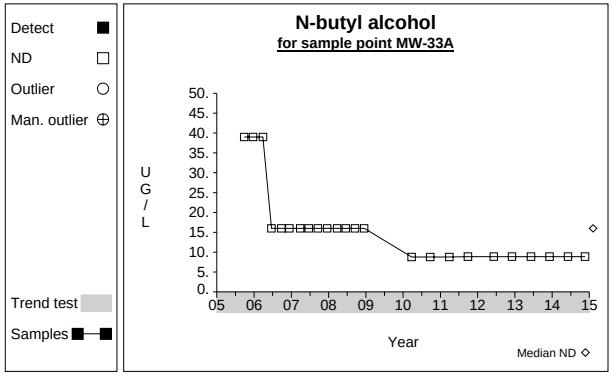
Time Series



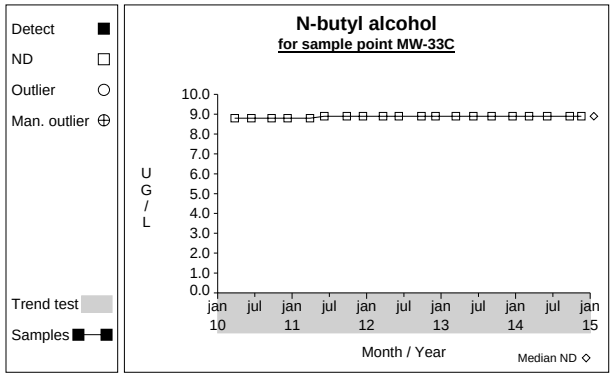
Graph 406



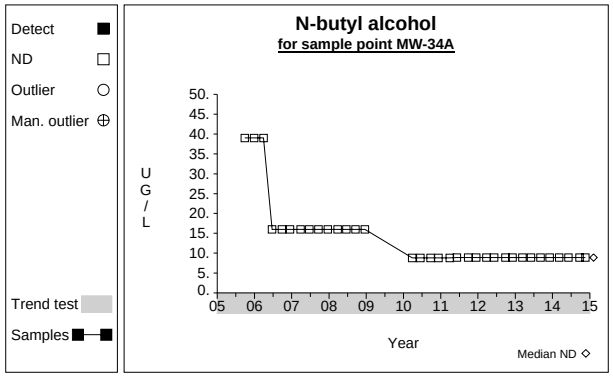
Graph 407



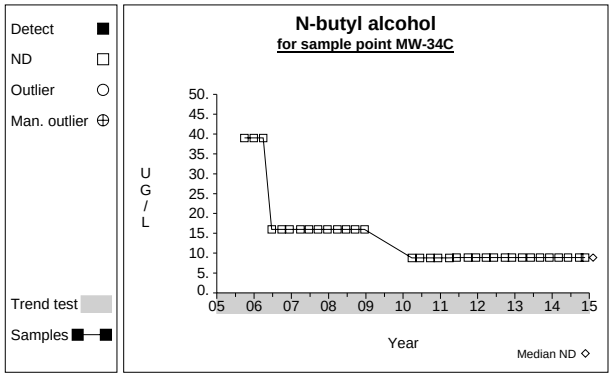
Graph 408



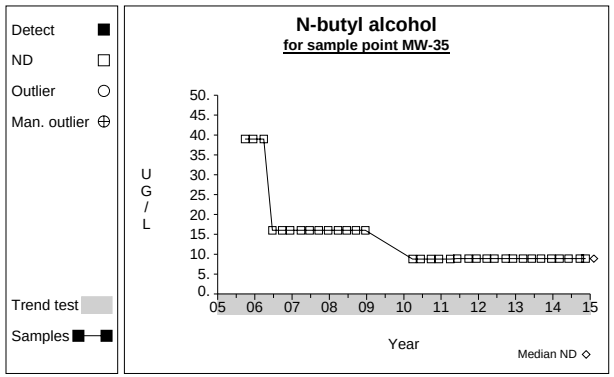
Graph 409



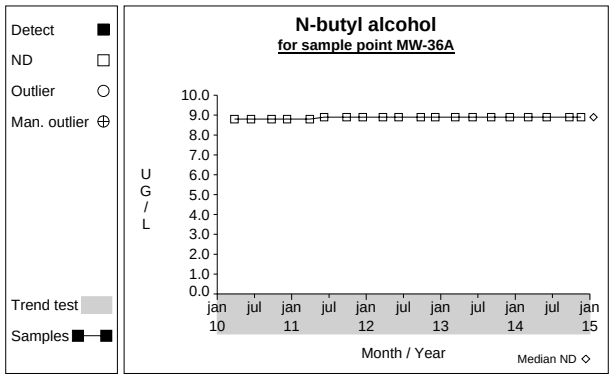
Graph 410



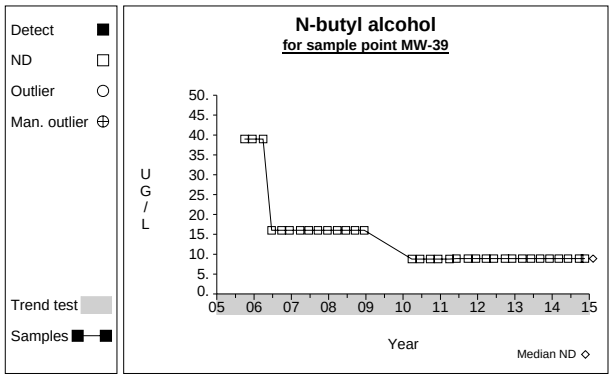
Graph 411



Graph 412

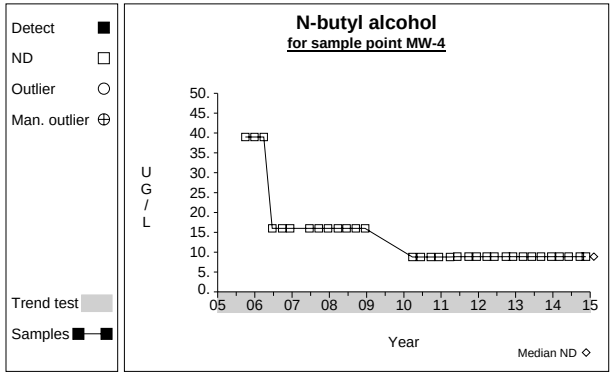


Graph 413

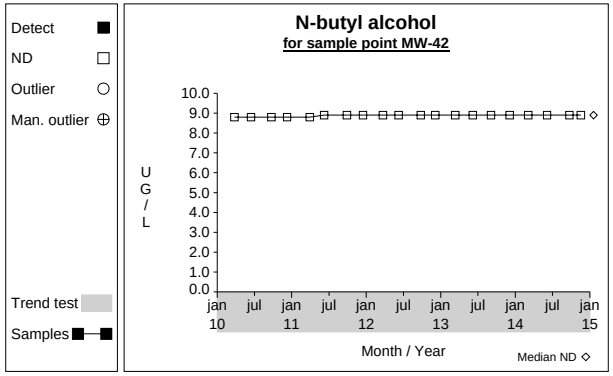


Graph 414

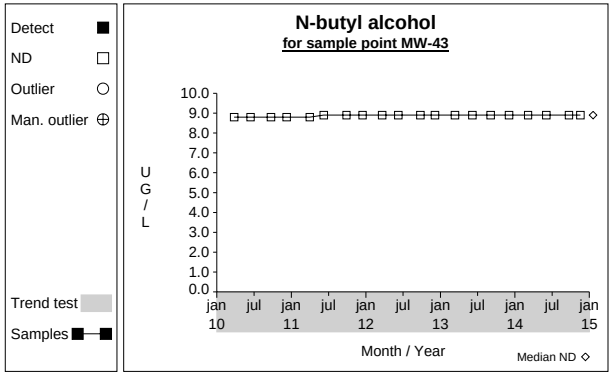
Time Series



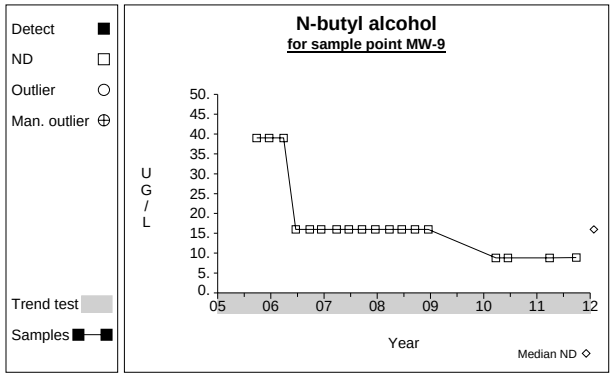
Graph 415



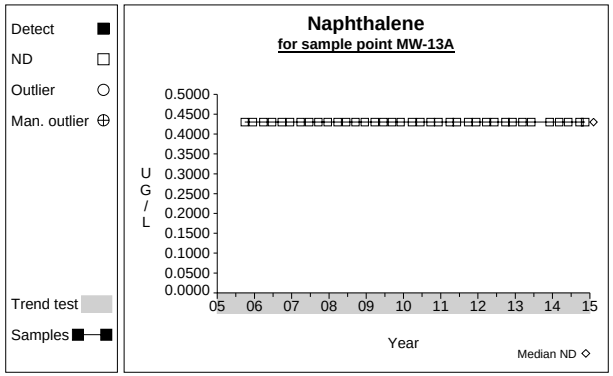
Graph 416



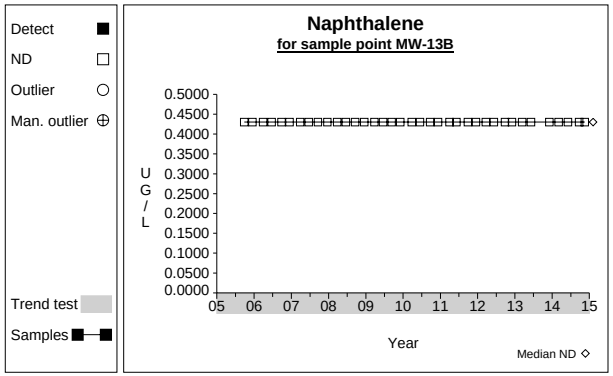
Graph 417



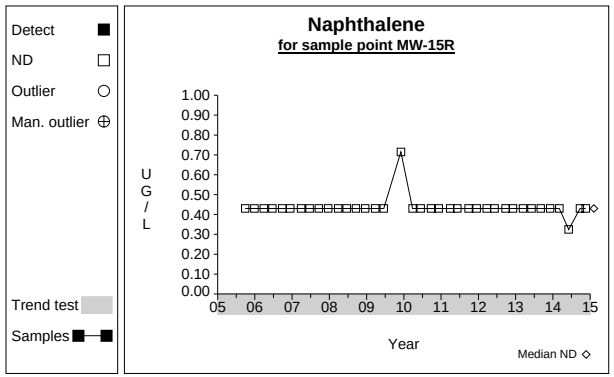
Graph 418



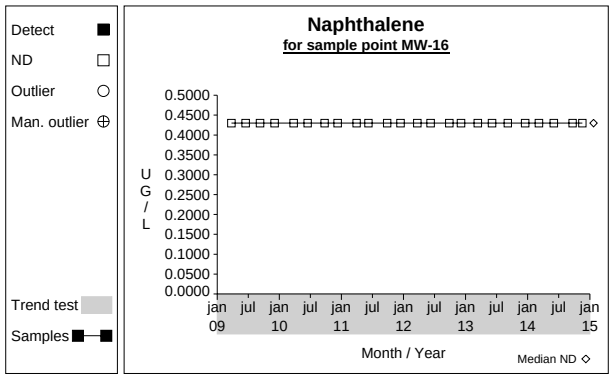
Graph 419



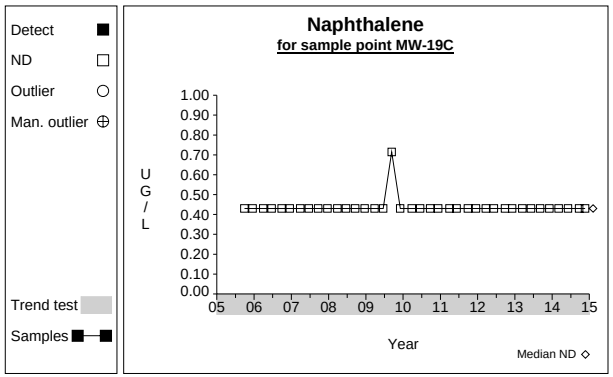
Graph 420



Graph 421

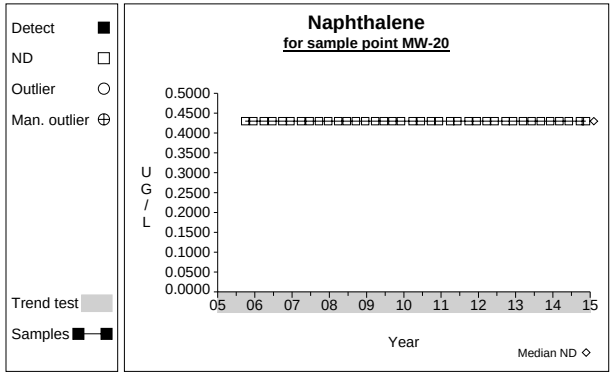


Graph 422

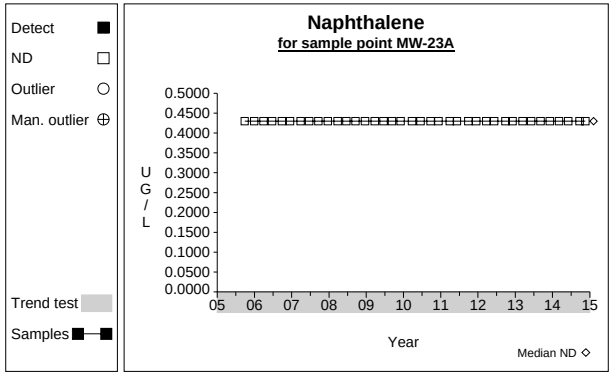


Graph 423

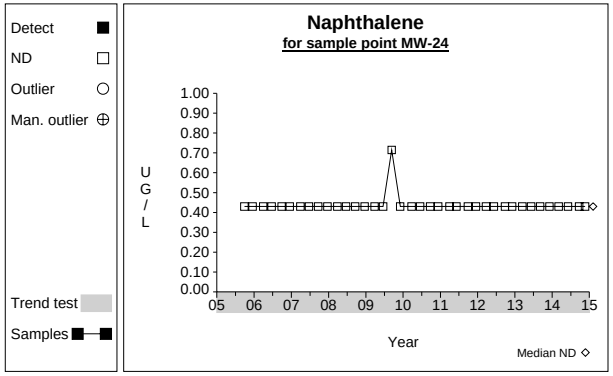
Time Series



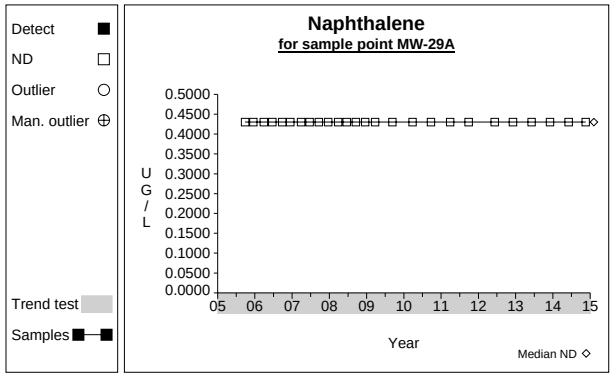
Graph 424



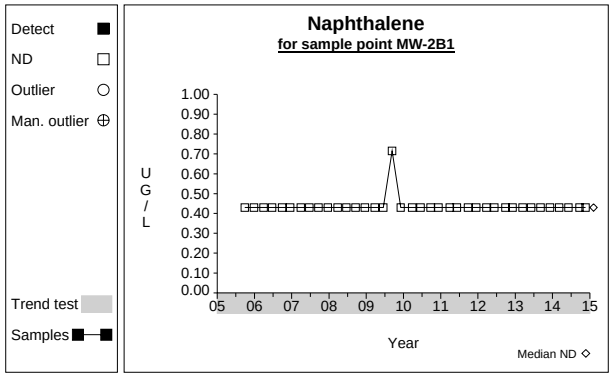
Graph 425



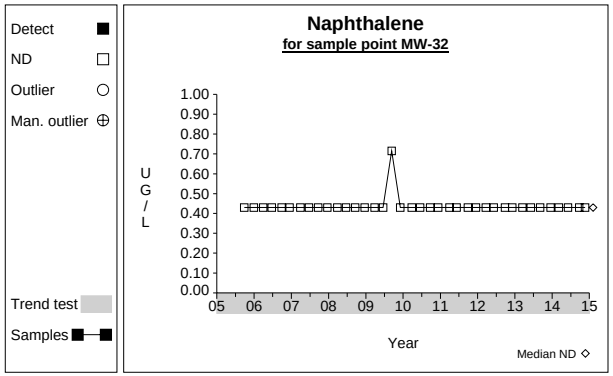
Graph 426



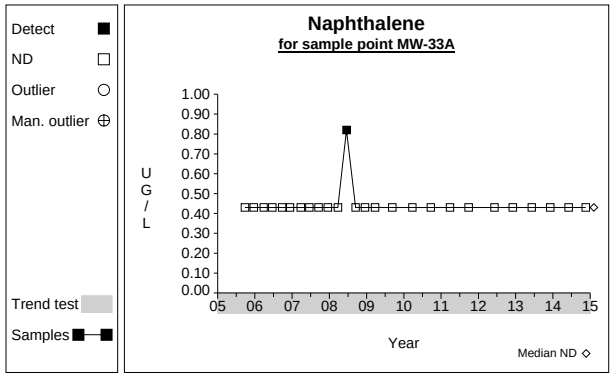
Graph 427



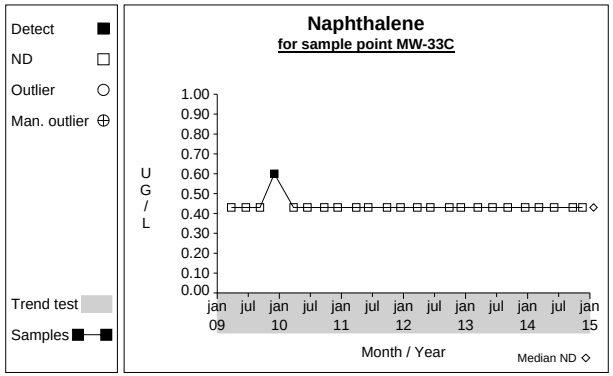
Graph 428



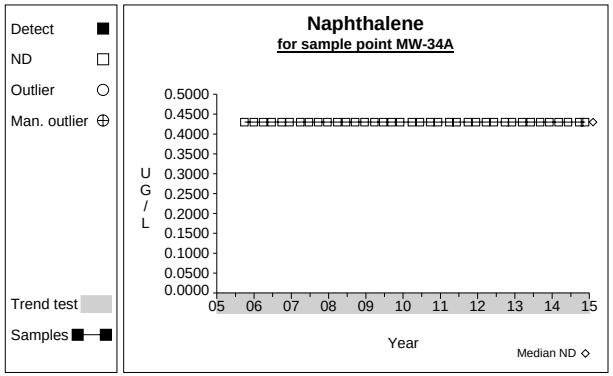
Graph 429



Graph 430

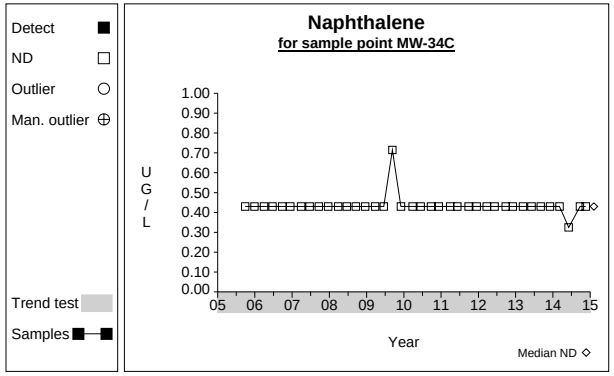


Graph 431

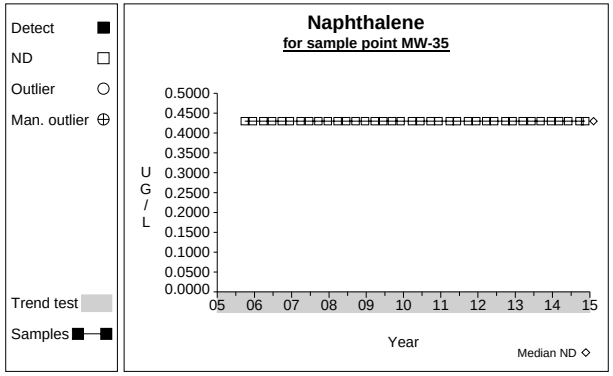


Graph 432

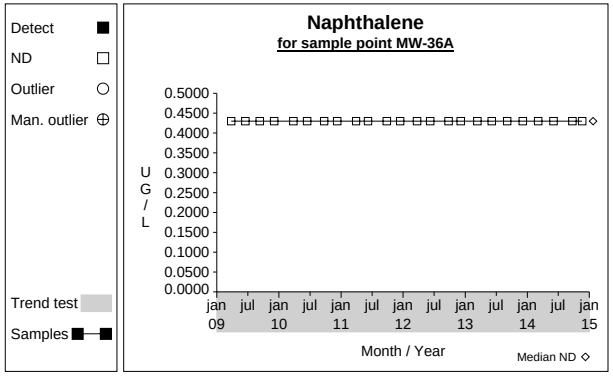
Time Series



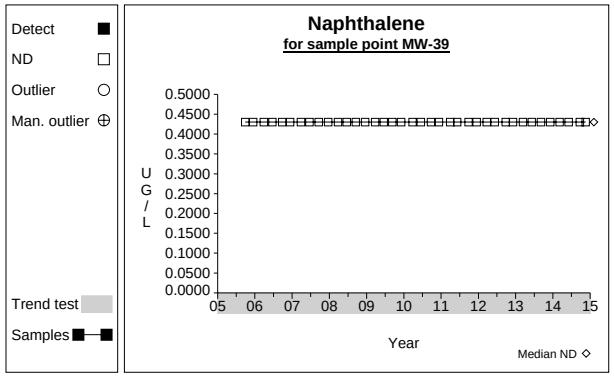
Graph 433



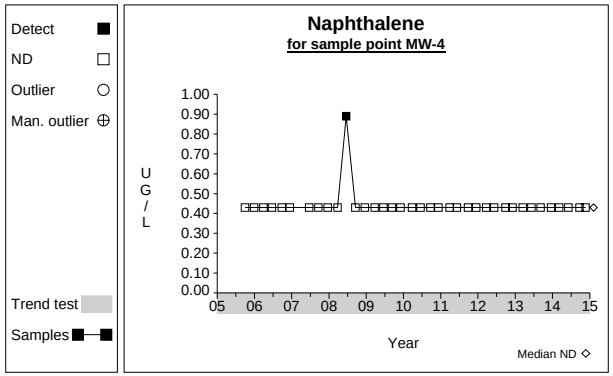
Graph 434



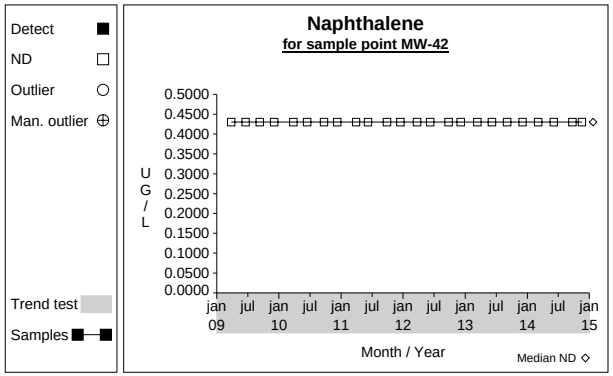
Graph 435



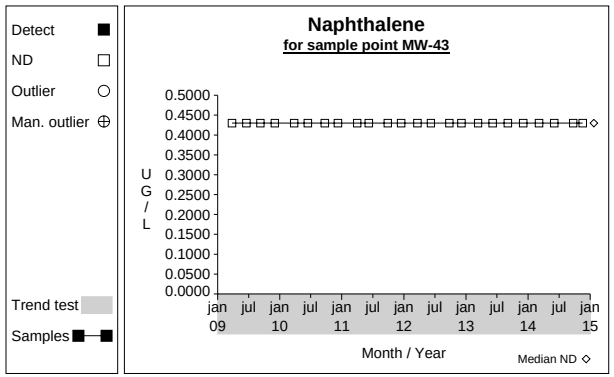
Graph 436



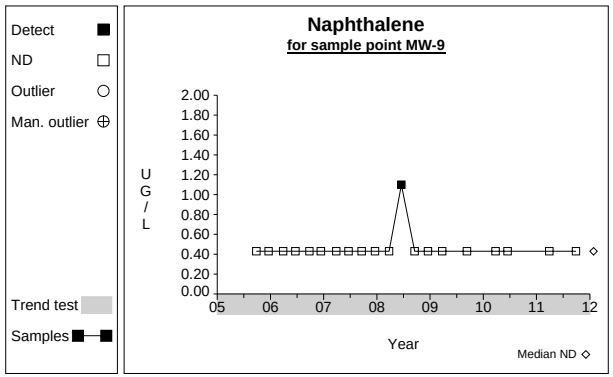
Graph 437



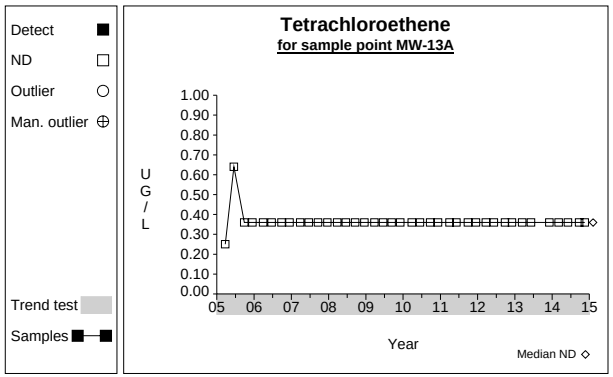
Graph 438



Graph 439

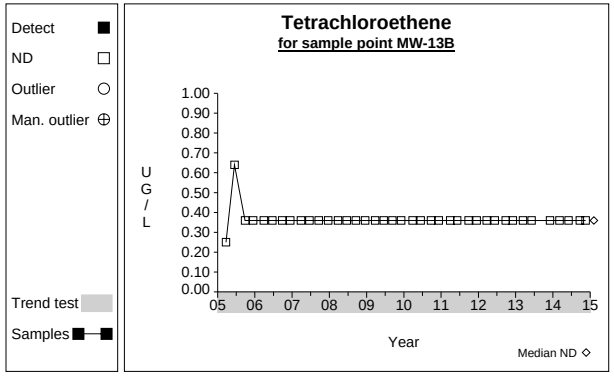


Graph 440

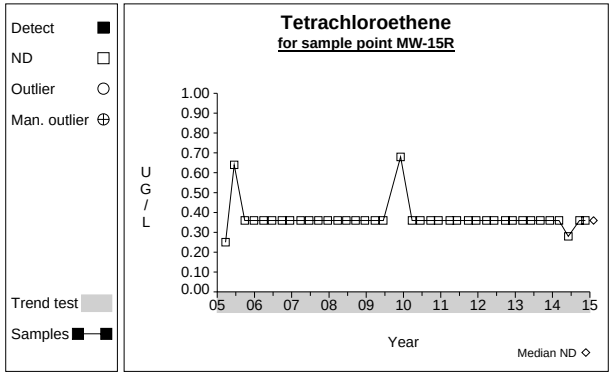


Graph 441

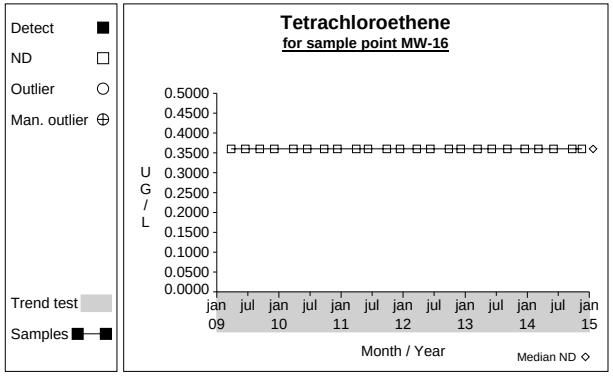
Time Series



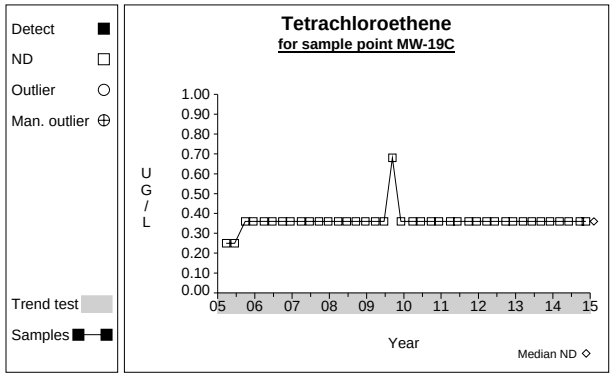
Graph 442



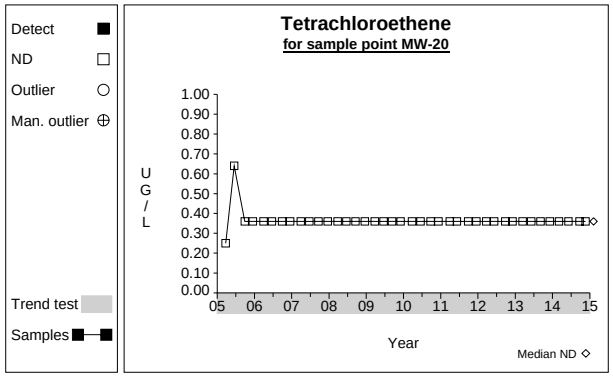
Graph 443



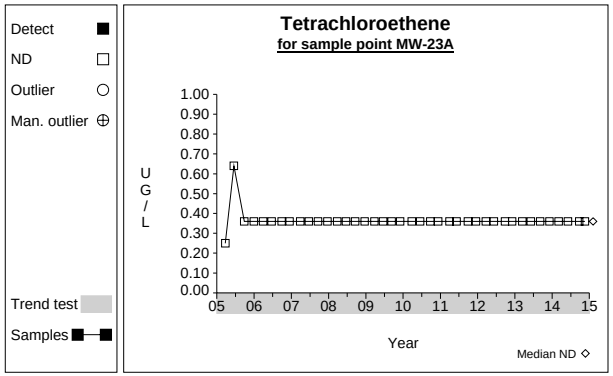
Graph 444



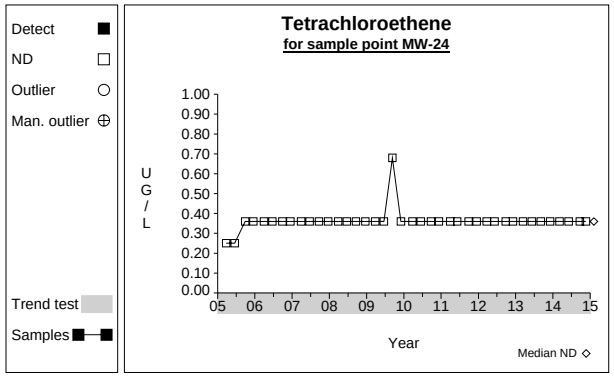
Graph 445



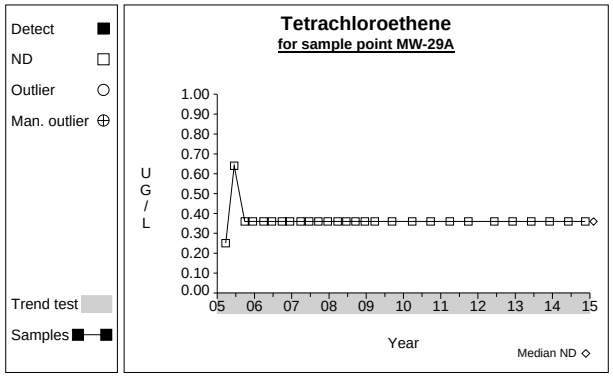
Graph 446



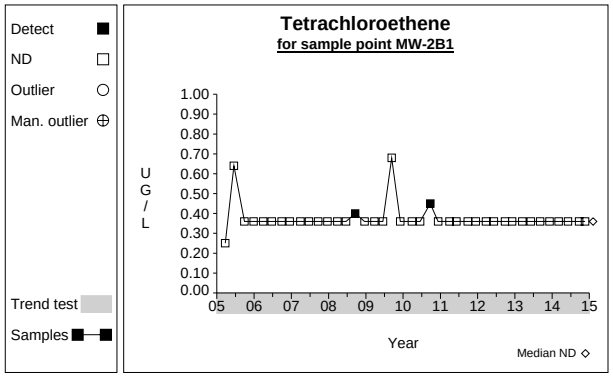
Graph 447



Graph 448

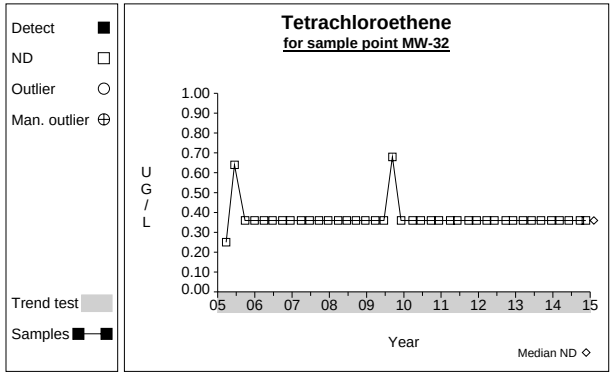


Graph 449

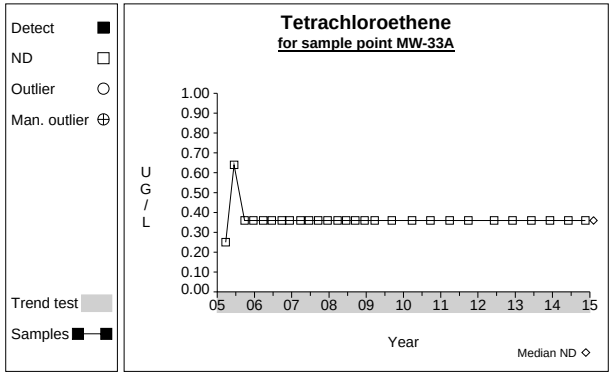


Graph 450

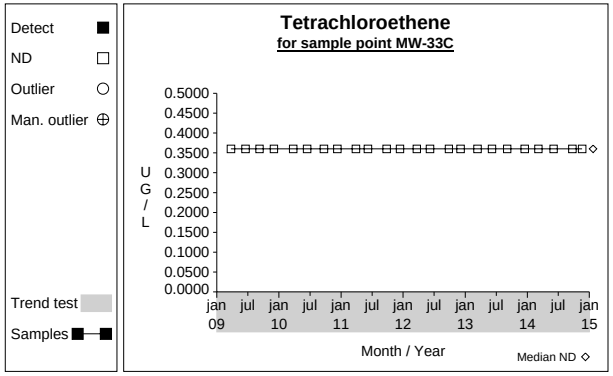
Time Series



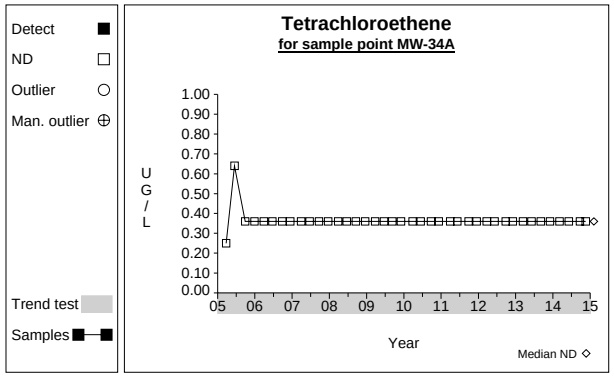
Graph 451



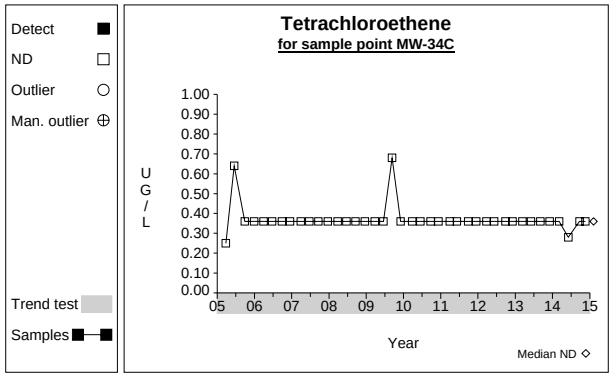
Graph 452



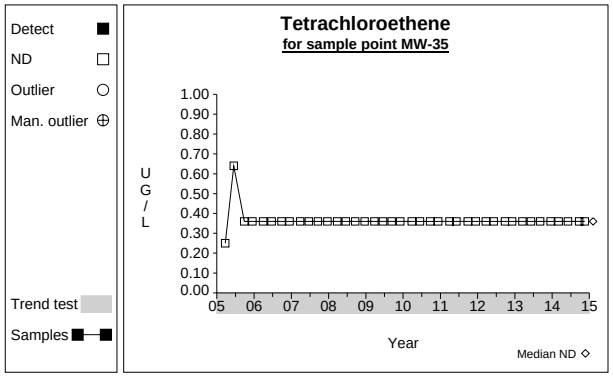
Graph 453



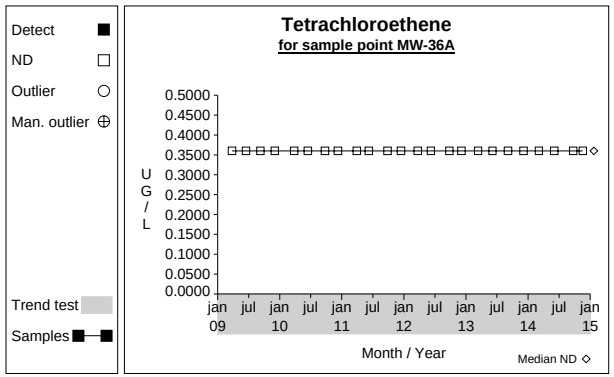
Graph 454



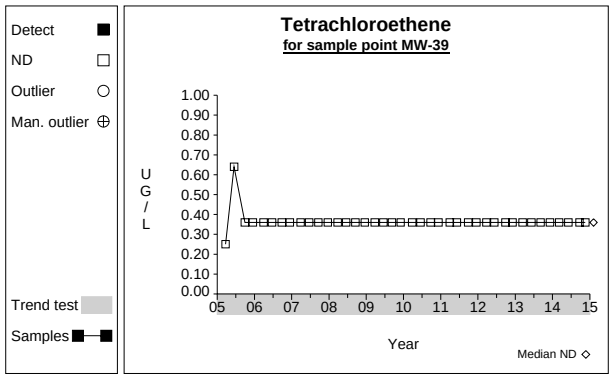
Graph 455



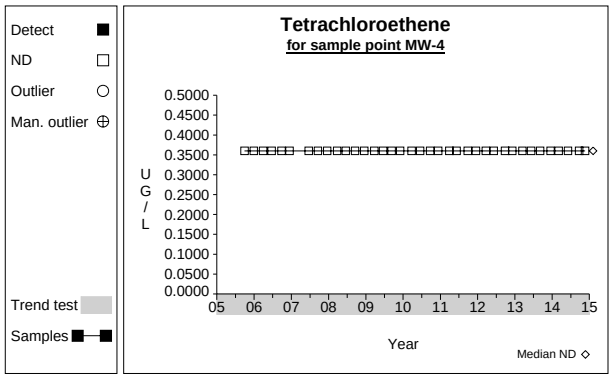
Graph 456



Graph 457

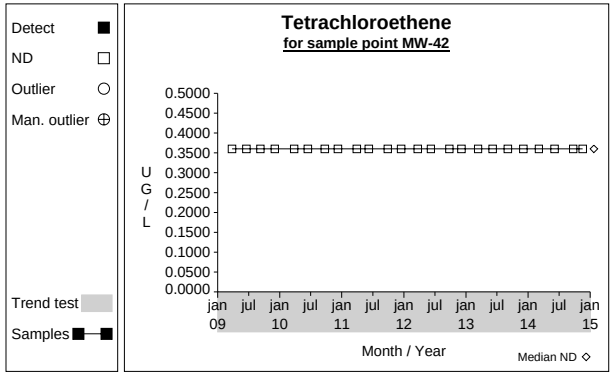


Graph 458

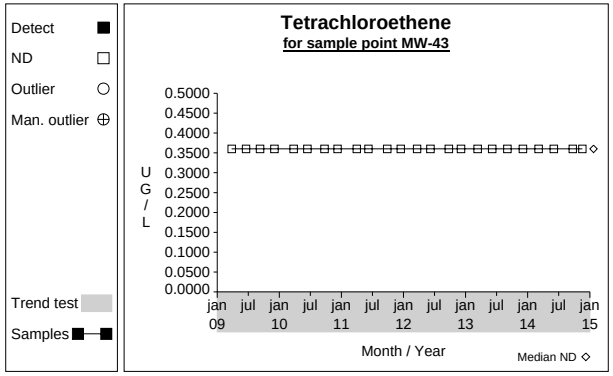


Graph 459

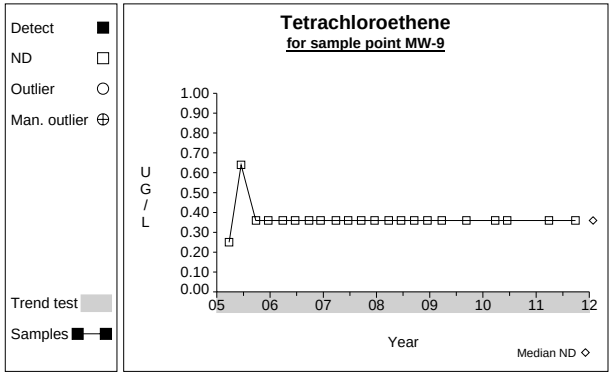
Time Series



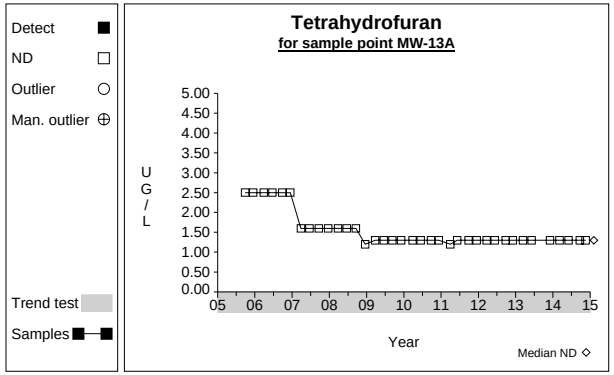
Graph 460



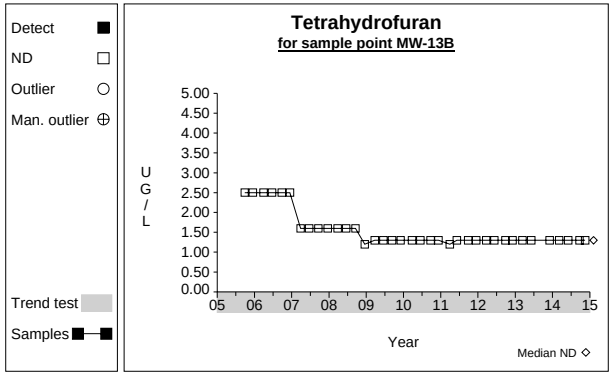
Graph 461



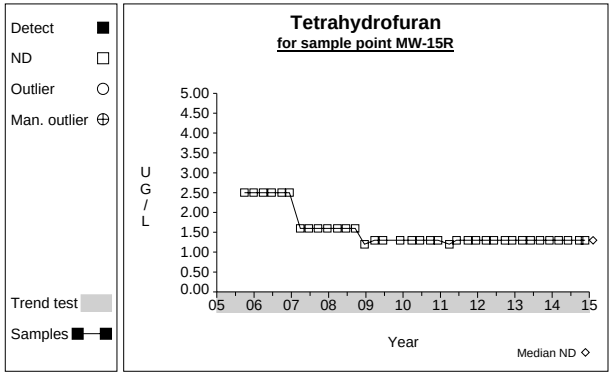
Graph 462



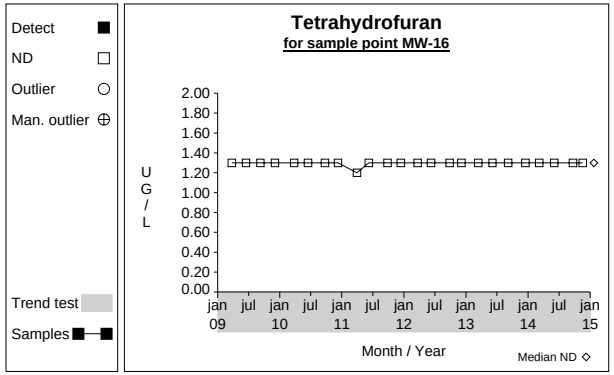
Graph 463



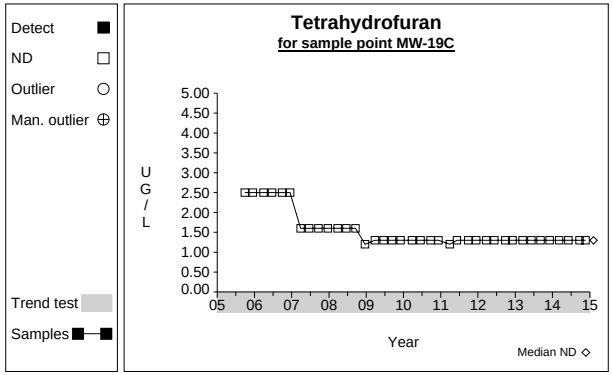
Graph 464



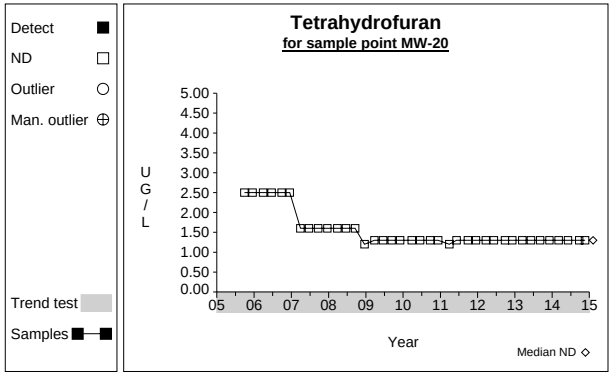
Graph 465



Graph 466

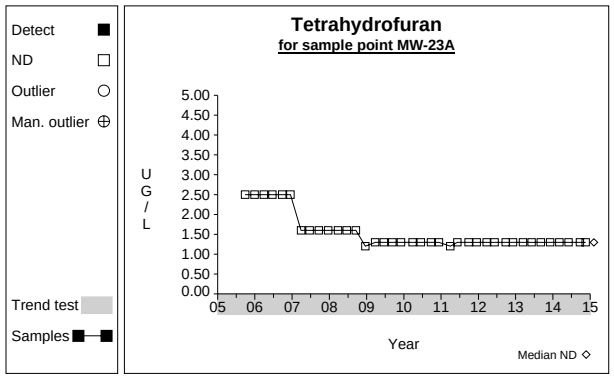


Graph 467

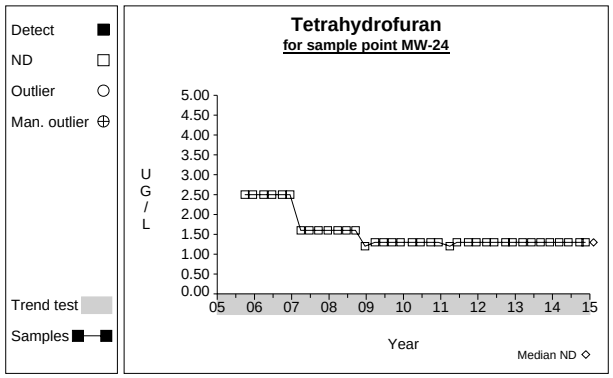


Graph 468

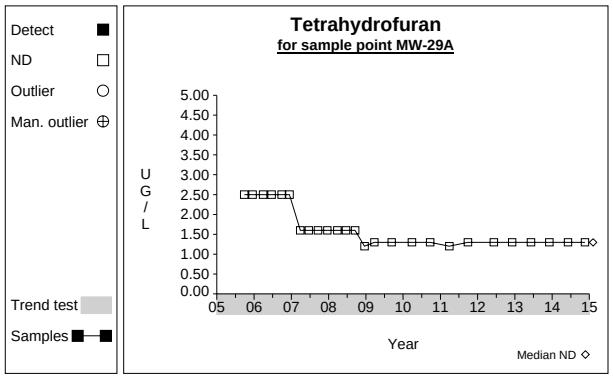
Time Series



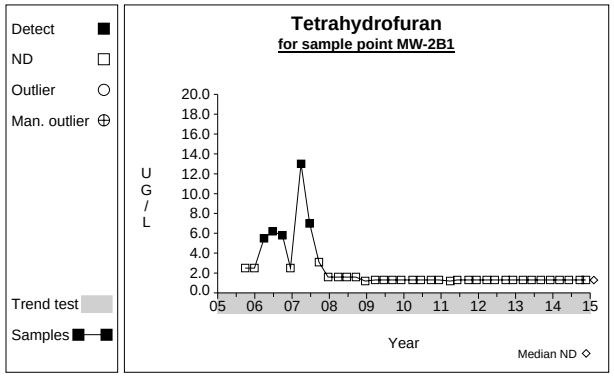
Graph 469



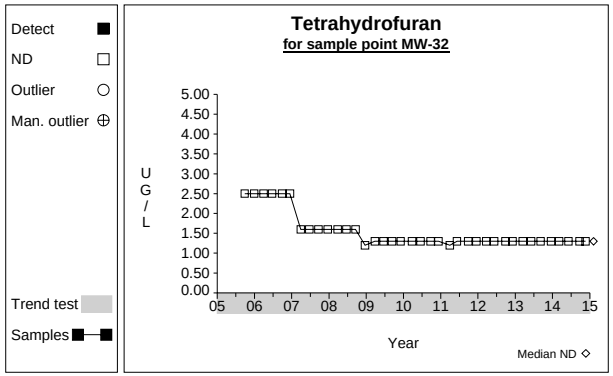
Graph 470



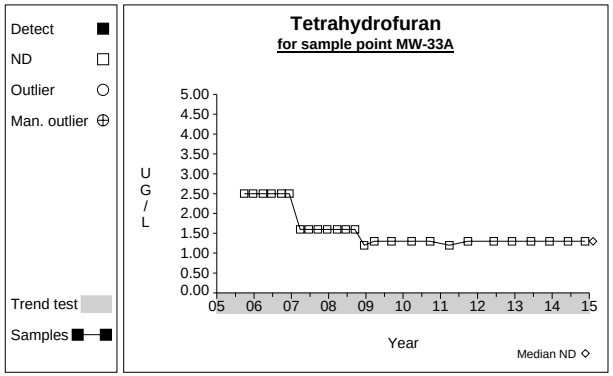
Graph 471



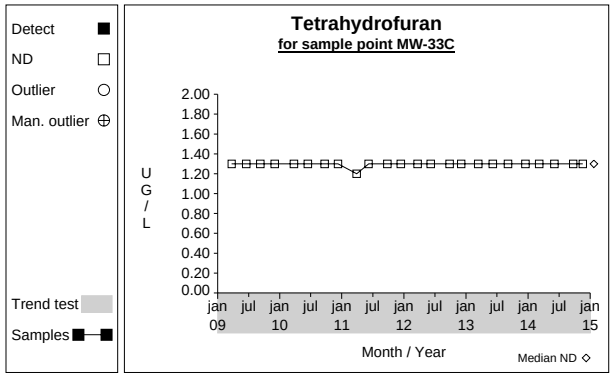
Graph 472



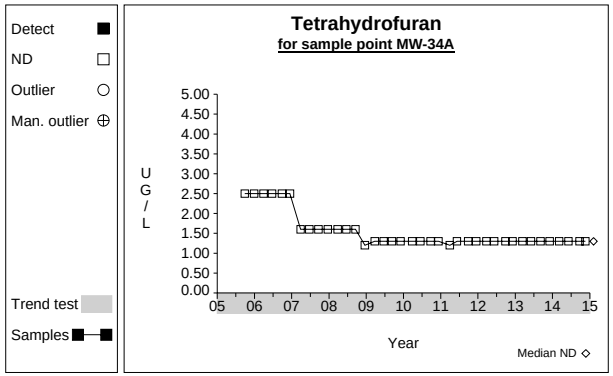
Graph 473



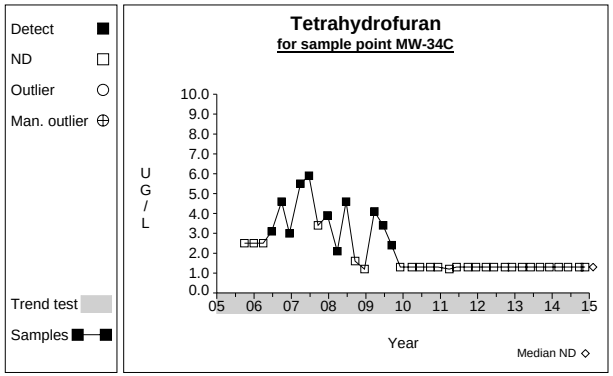
Graph 474



Graph 475

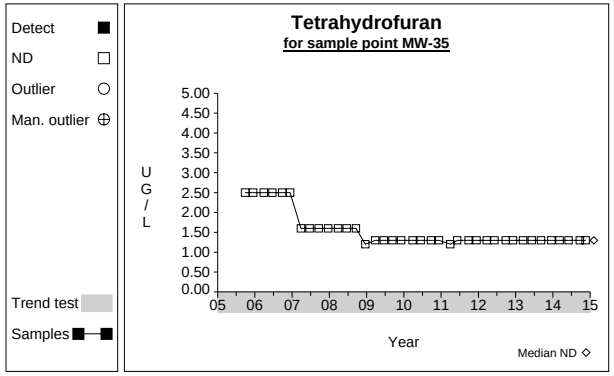


Graph 476

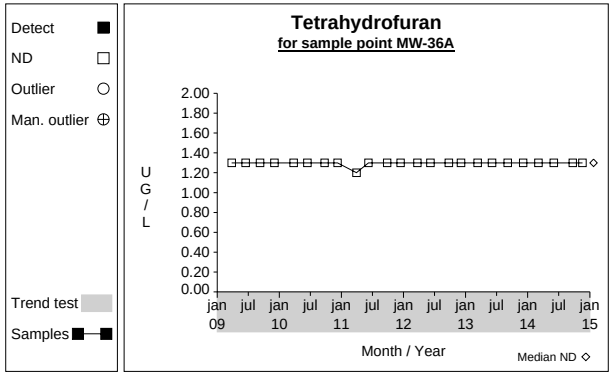


Graph 477

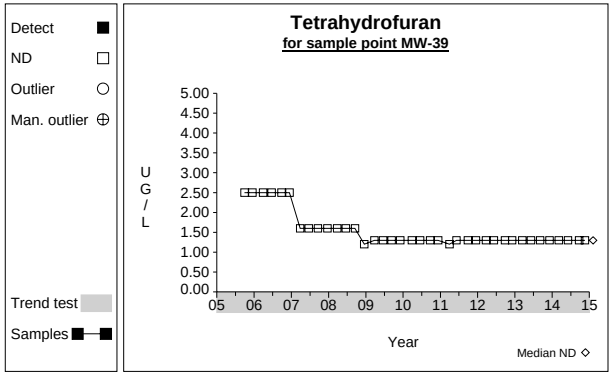
Time Series



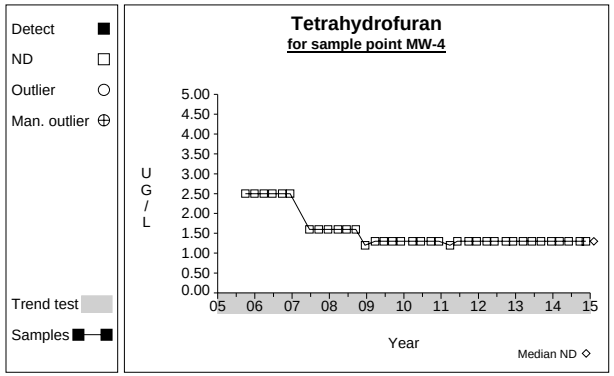
Graph 478



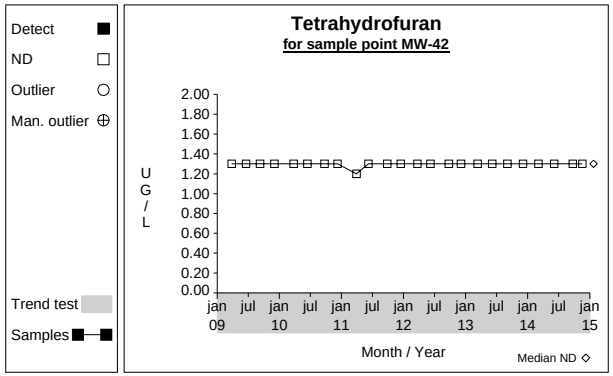
Graph 479



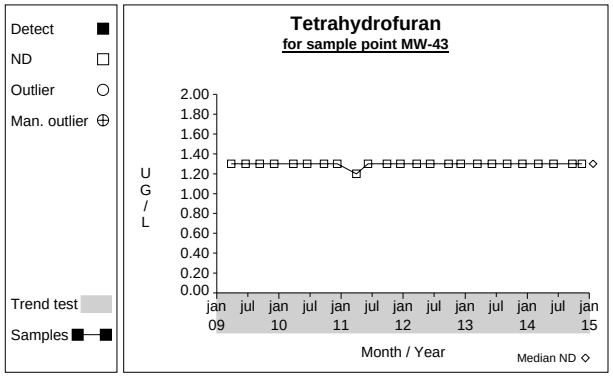
Graph 480



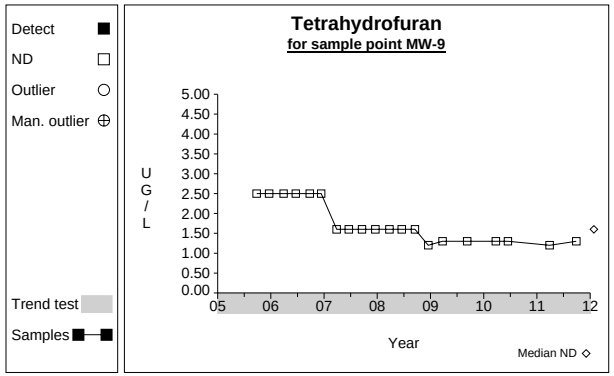
Graph 481



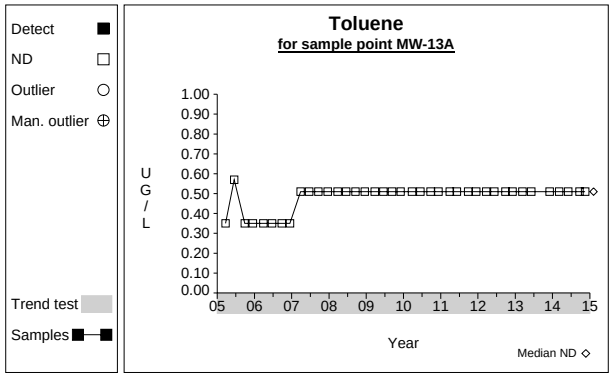
Graph 482



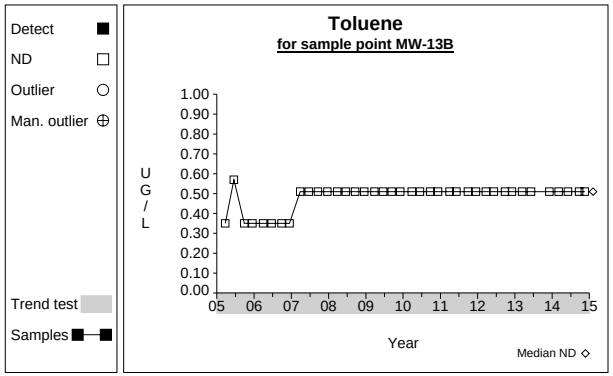
Graph 483



Graph 484

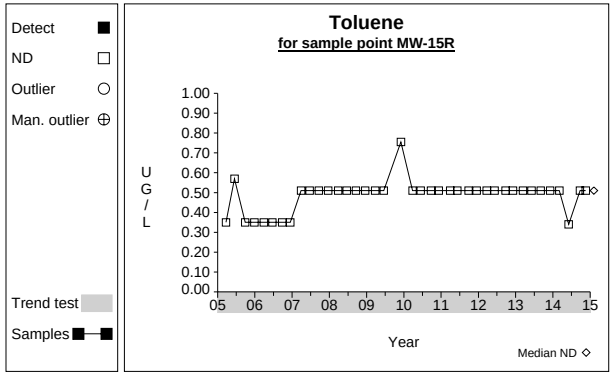


Graph 485

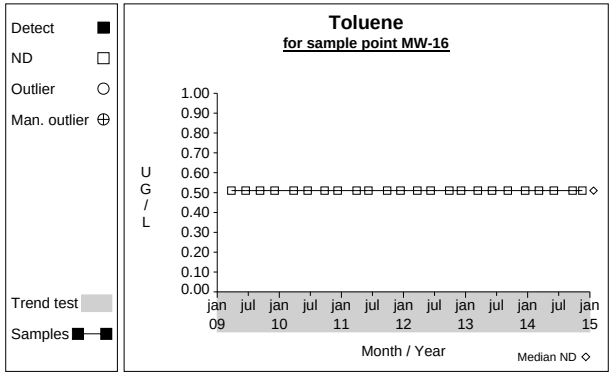


Graph 486

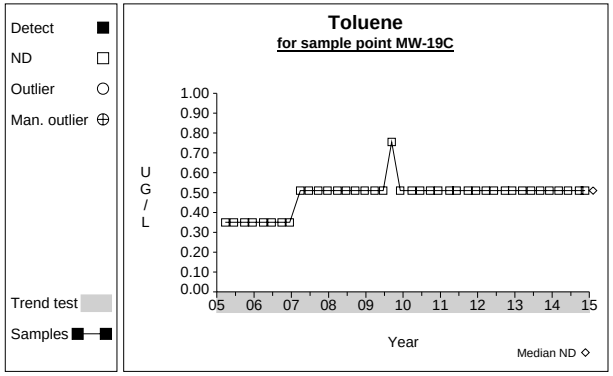
Time Series



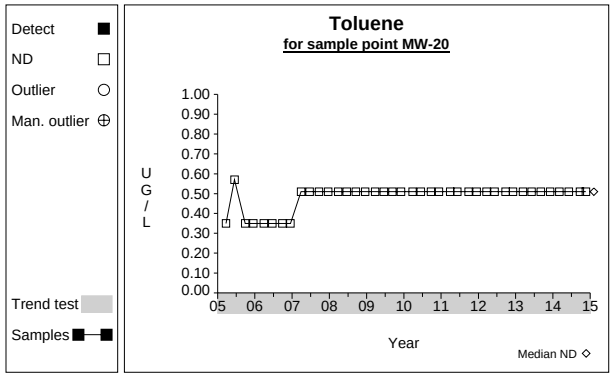
Graph 487



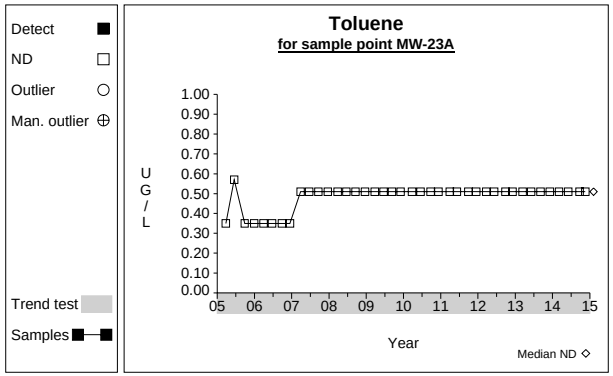
Graph 488



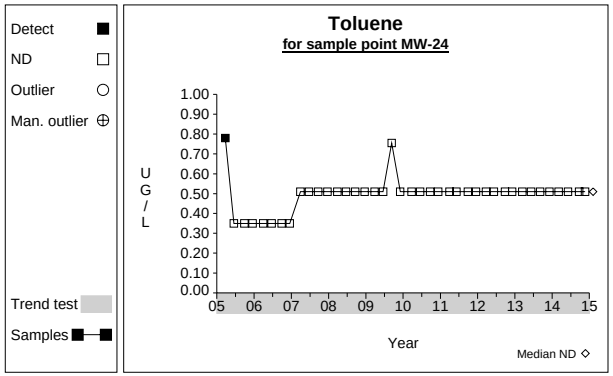
Graph 489



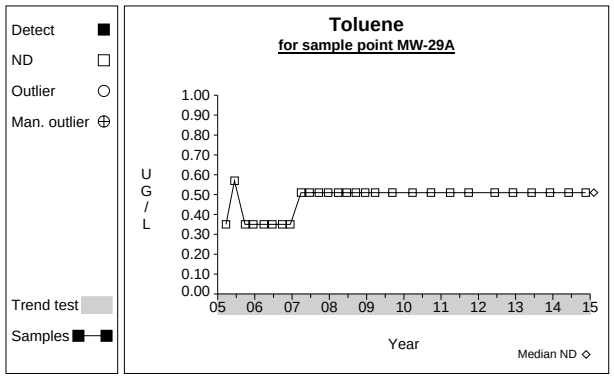
Graph 490



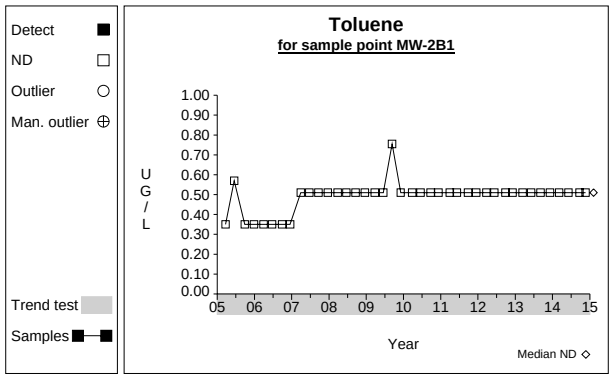
Graph 491



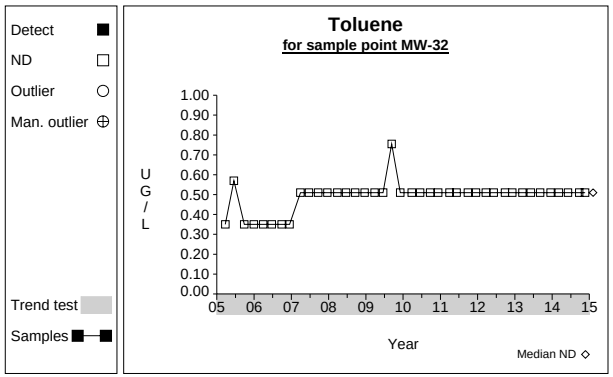
Graph 492



Graph 493

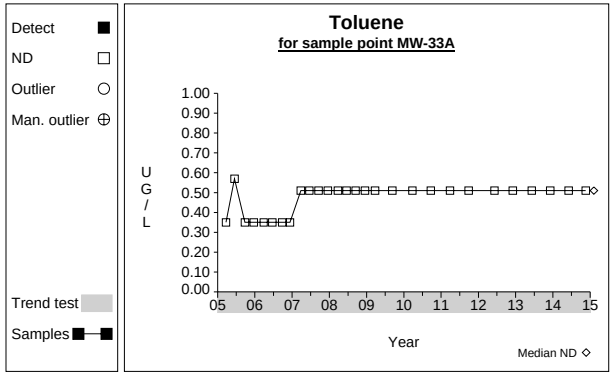


Graph 494

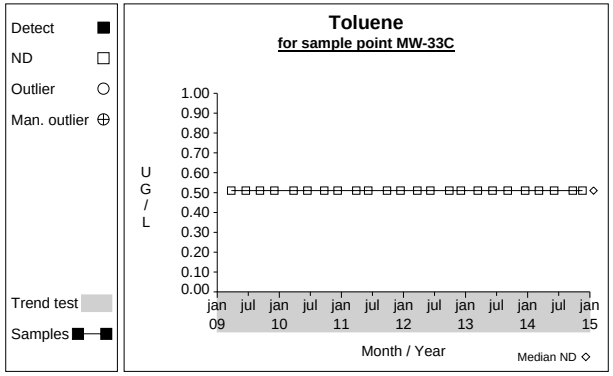


Graph 495

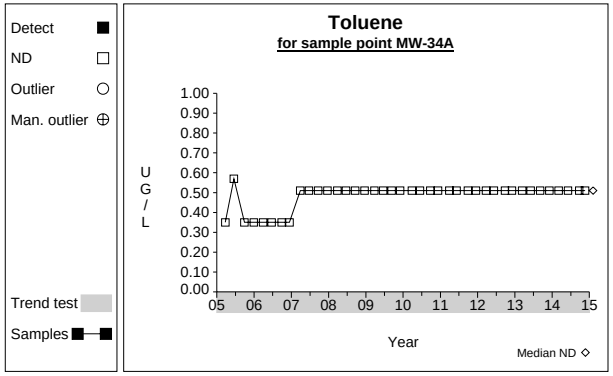
Time Series



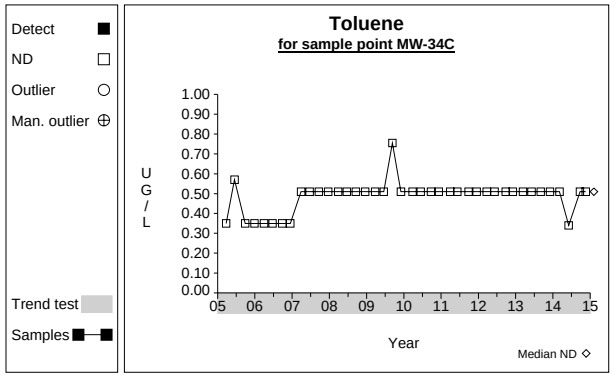
Graph 496



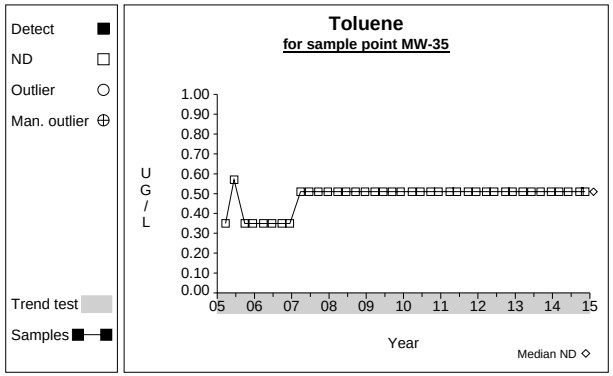
Graph 497



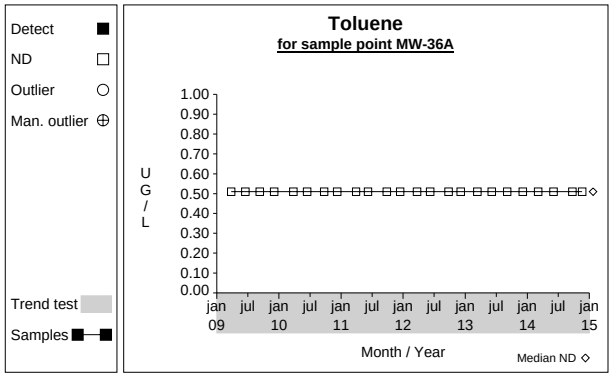
Graph 498



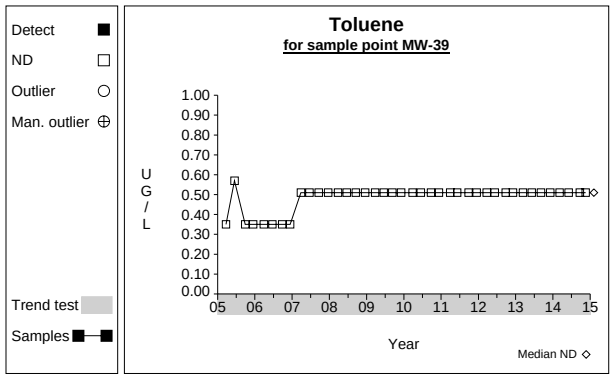
Graph 499



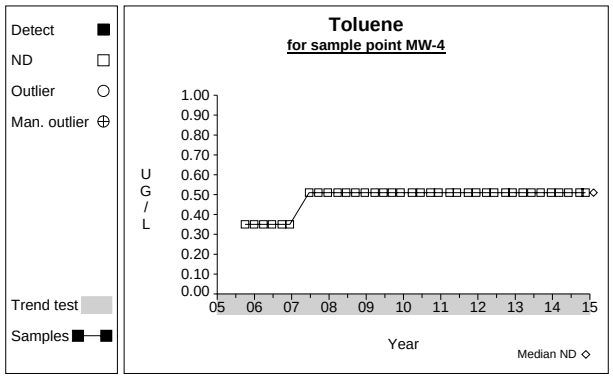
Graph 500



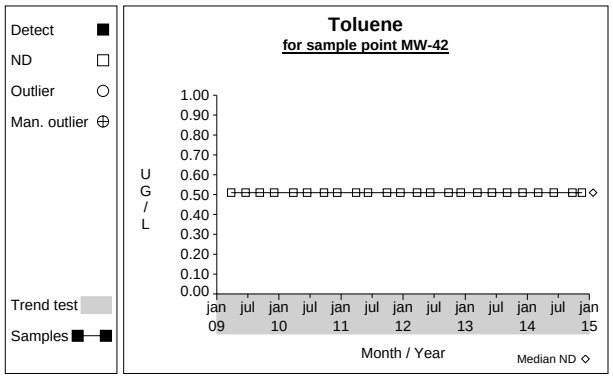
Graph 501



Graph 502

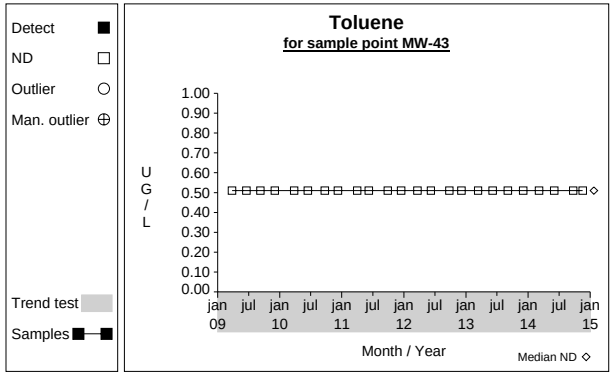


Graph 503

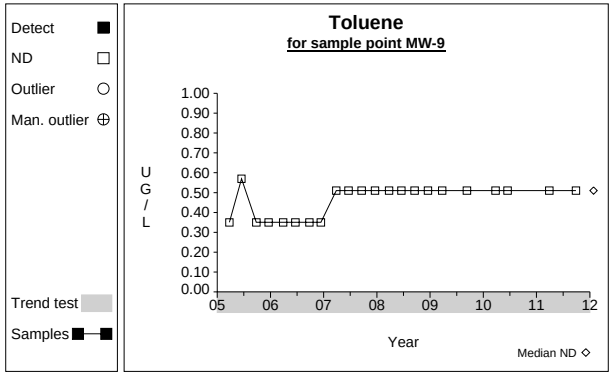


Graph 504

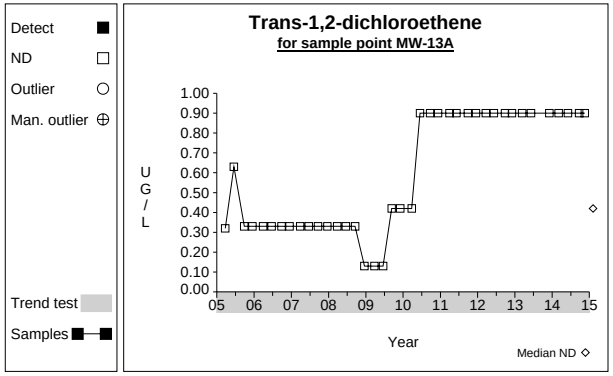
Time Series



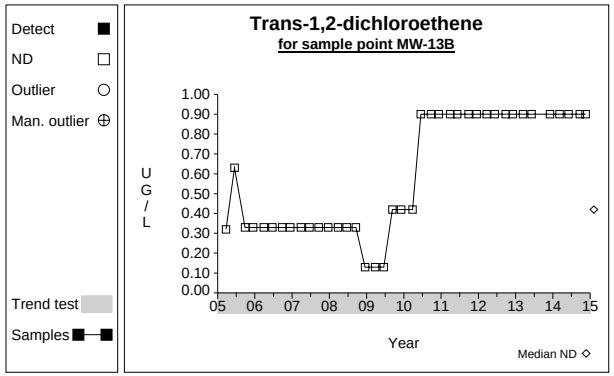
Graph 505



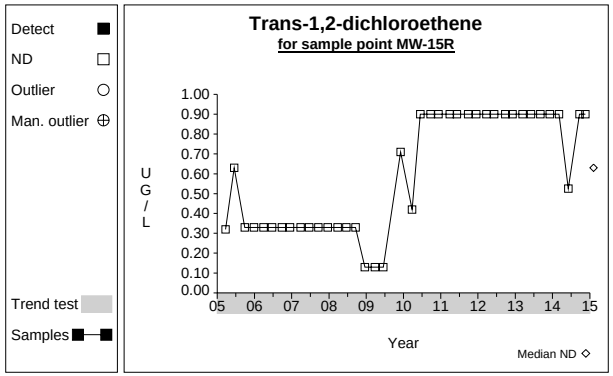
Graph 506



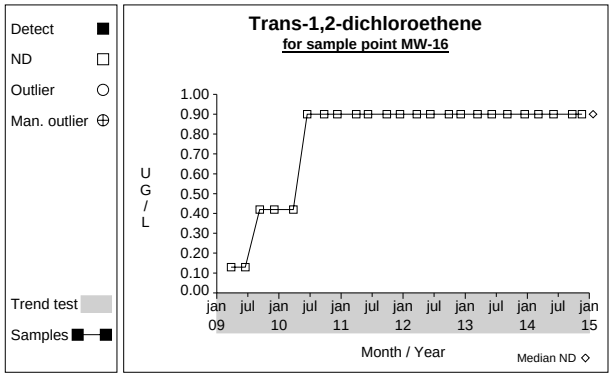
Graph 507



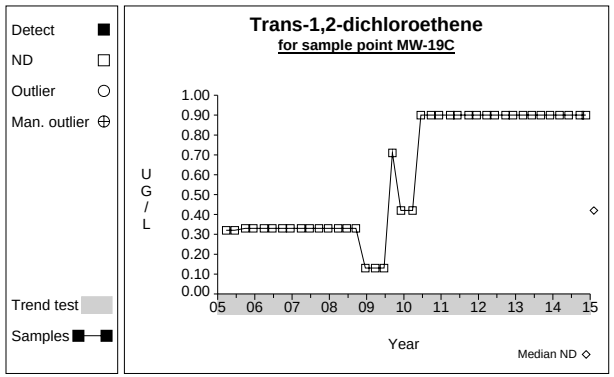
Graph 508



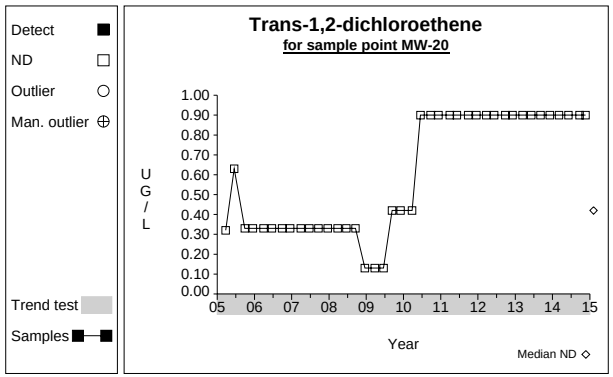
Graph 509



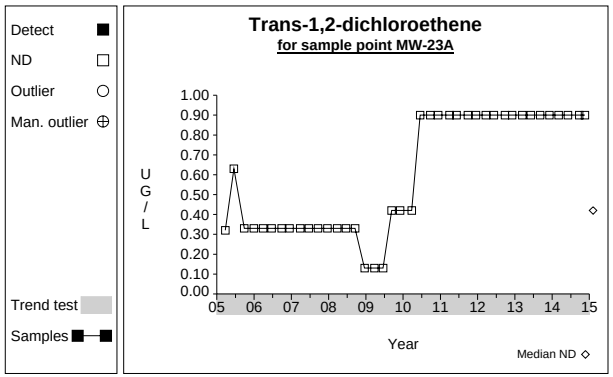
Graph 510



Graph 511

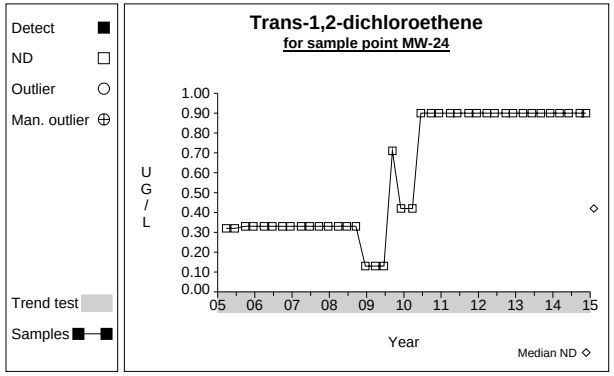


Graph 512

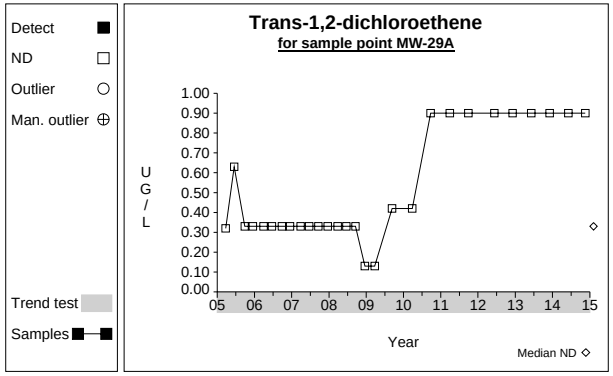


Graph 513

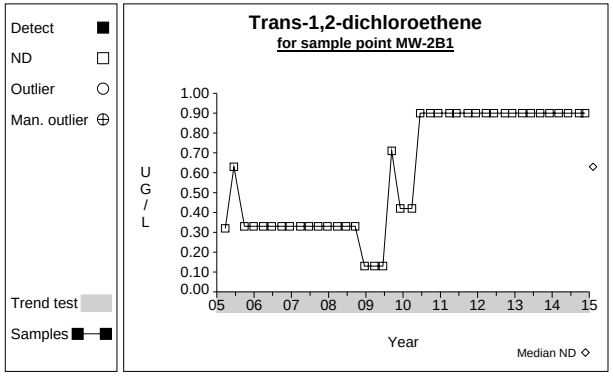
Time Series



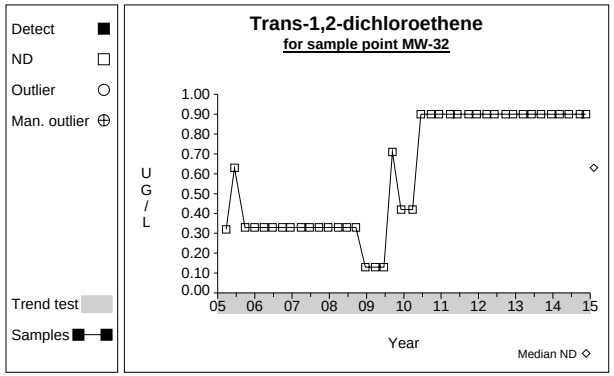
Graph 514



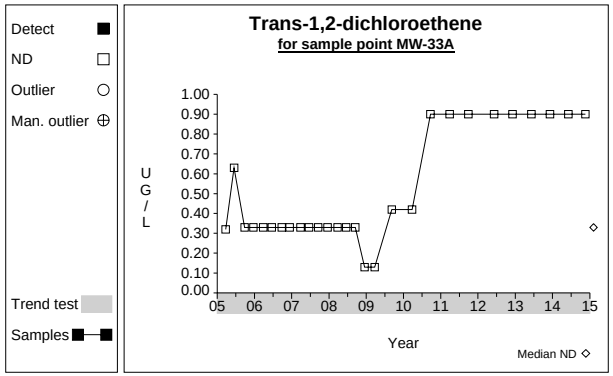
Graph 515



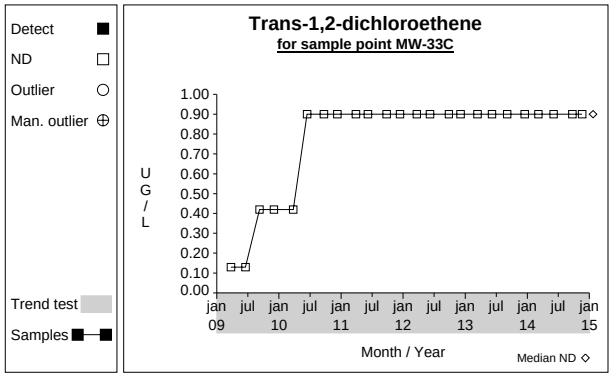
Graph 516



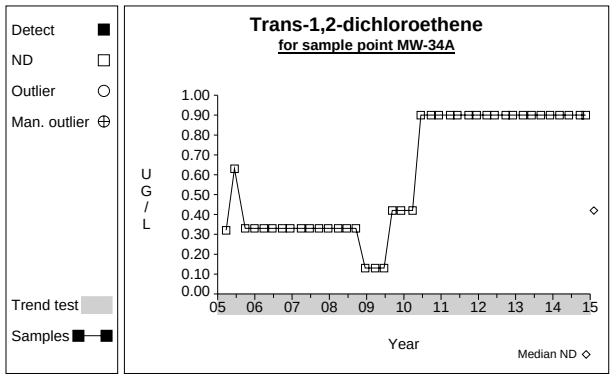
Graph 517



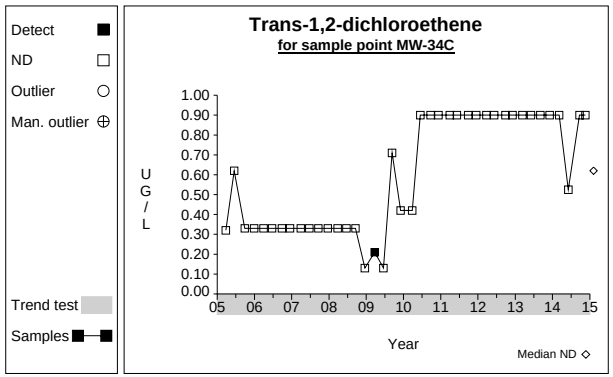
Graph 518



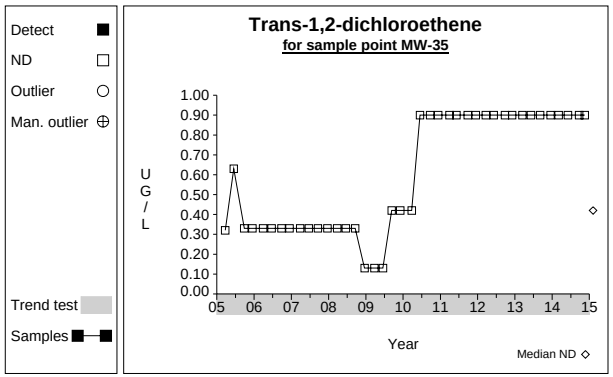
Graph 519



Graph 520

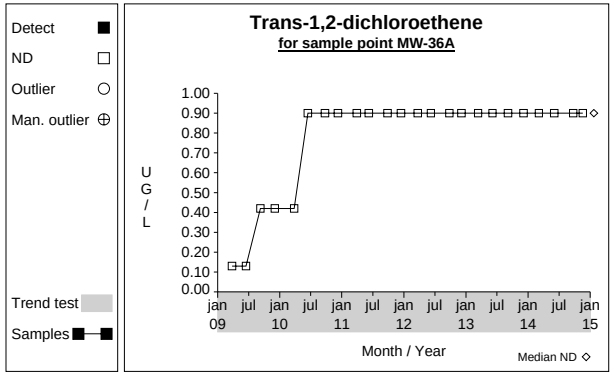


Graph 521

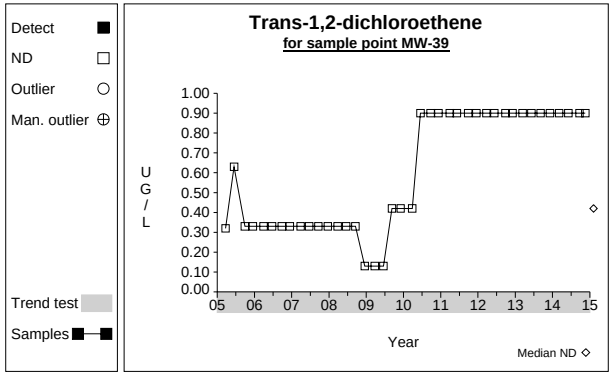


Graph 522

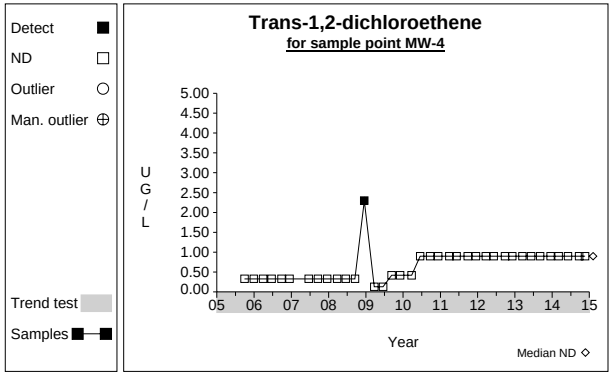
Time Series



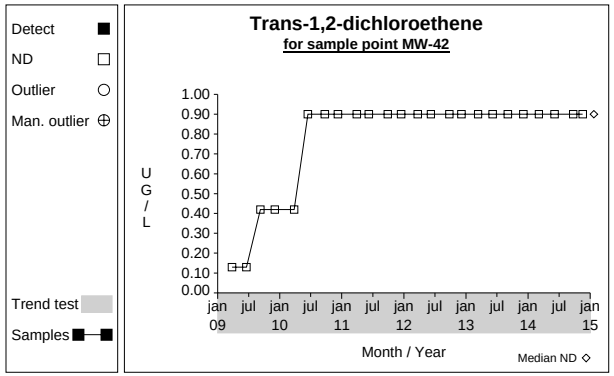
Graph 523



Graph 524



Graph 525



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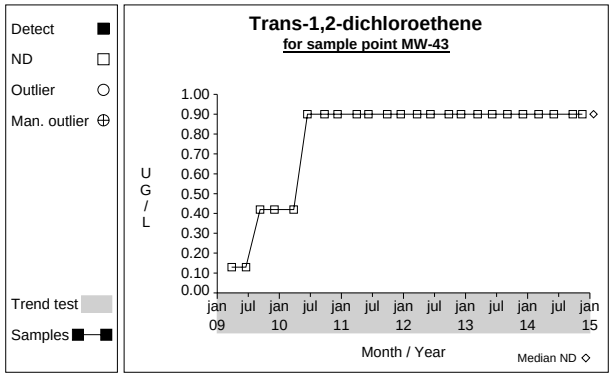

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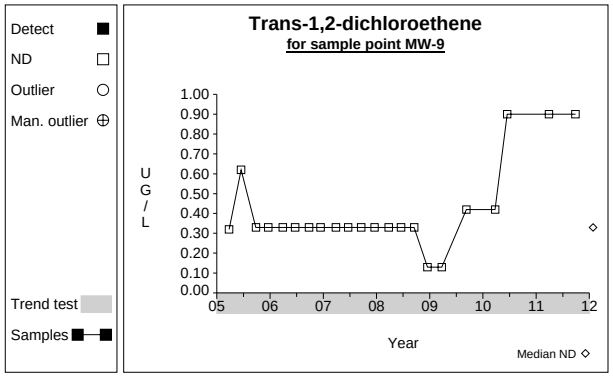
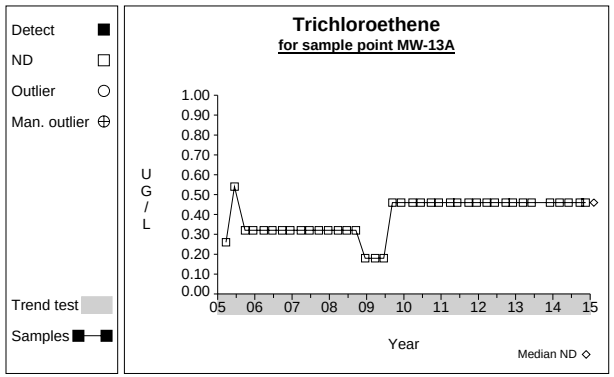
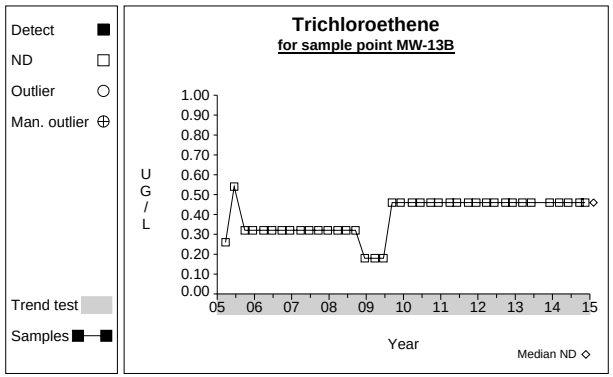


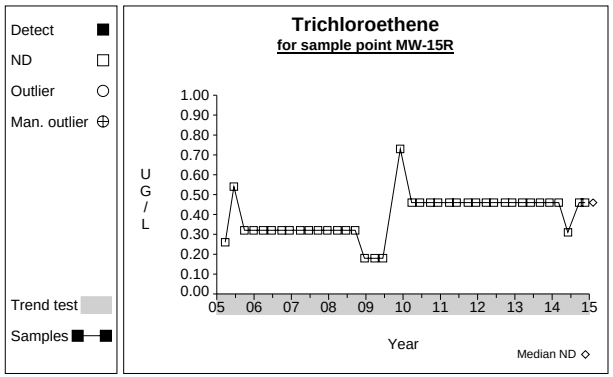
Graph 528



Graph 529

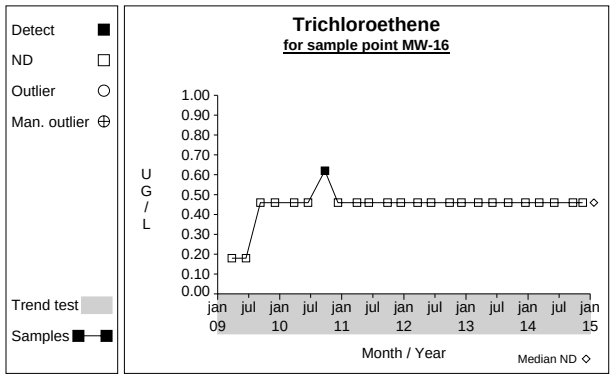


Graph 530

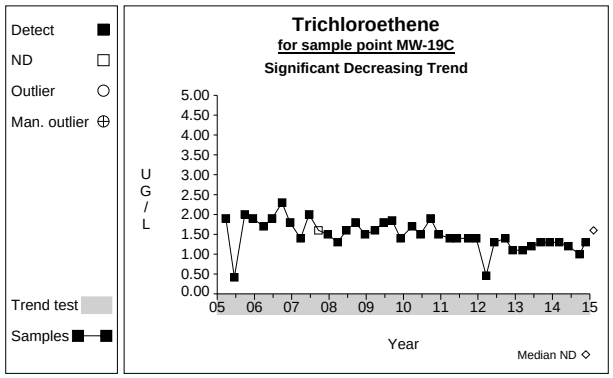


Graph 531

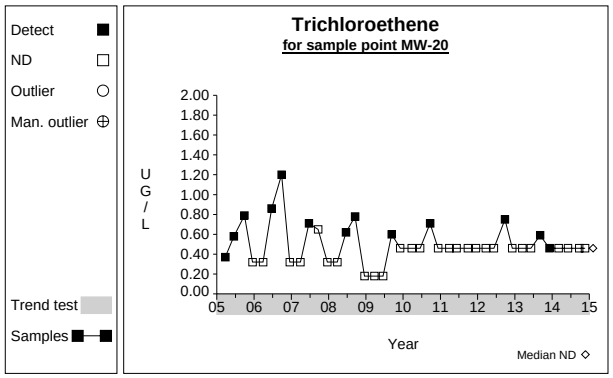
Time Series



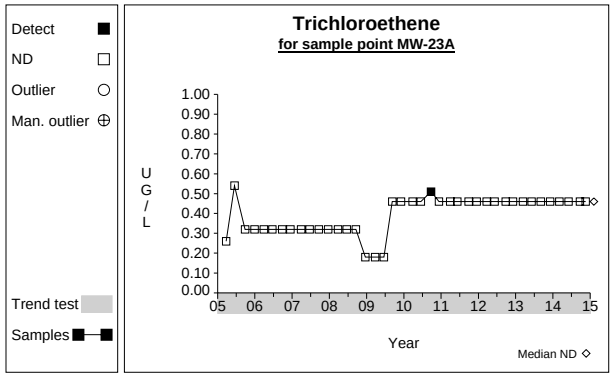
Graph 532



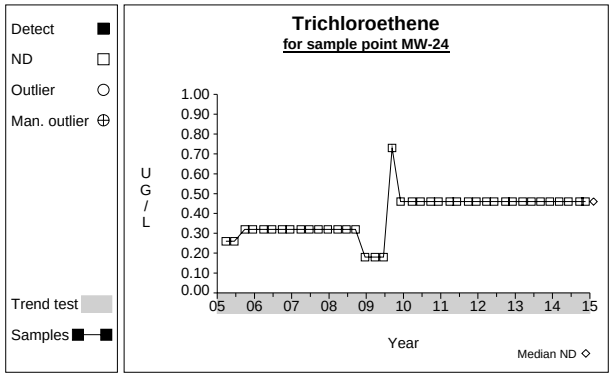
Graph 533



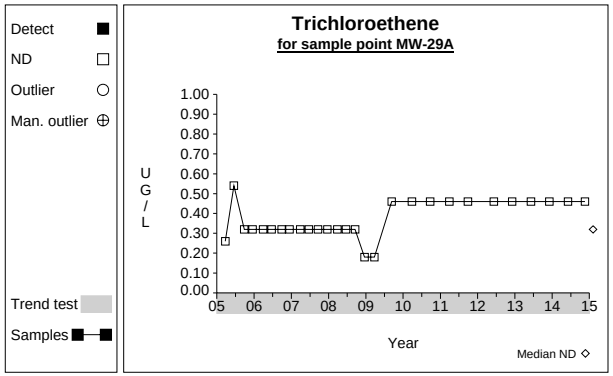
Graph 534



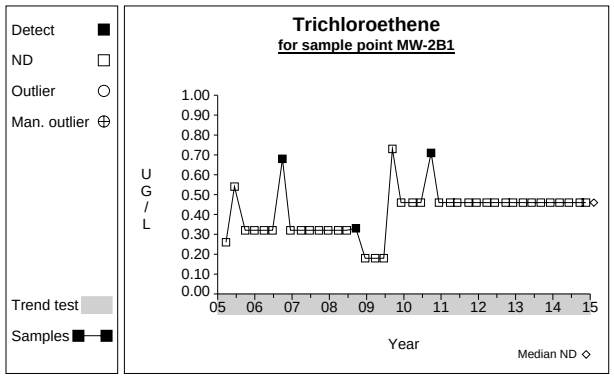
Graph 535



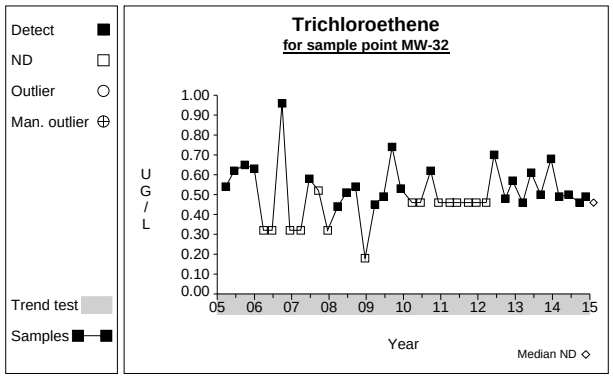
Graph 536



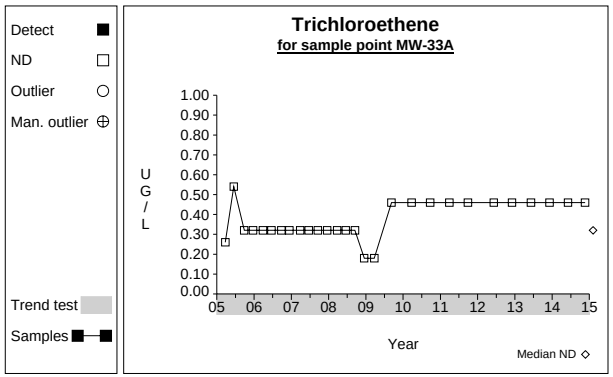
Graph 537



Graph 538

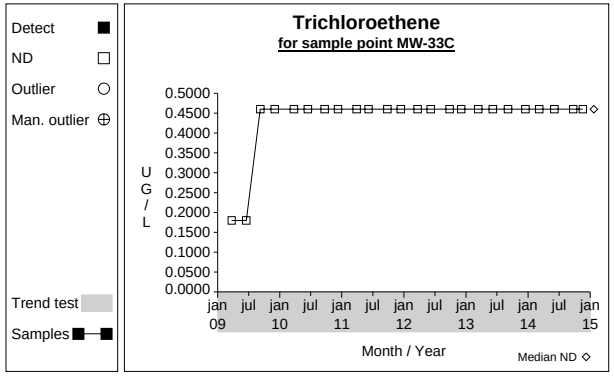


Graph 539

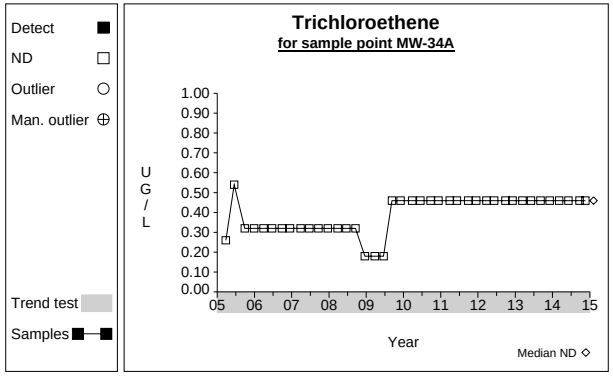


Graph 540

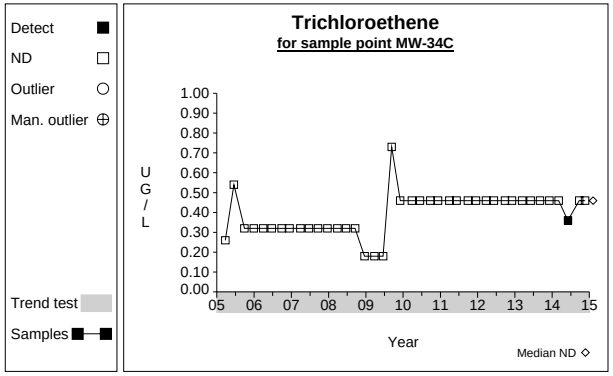
Time Series



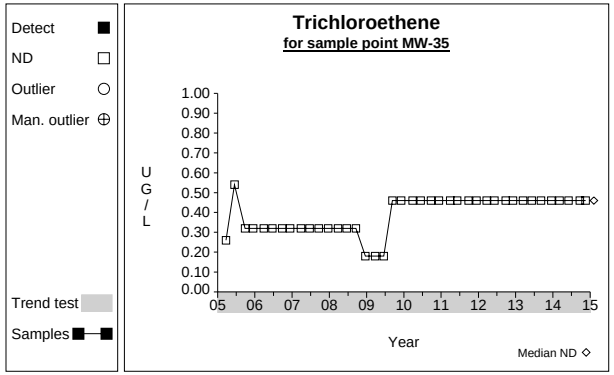
Graph 541



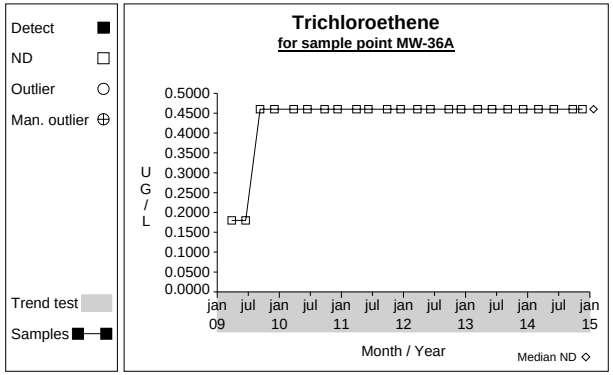
Graph 542



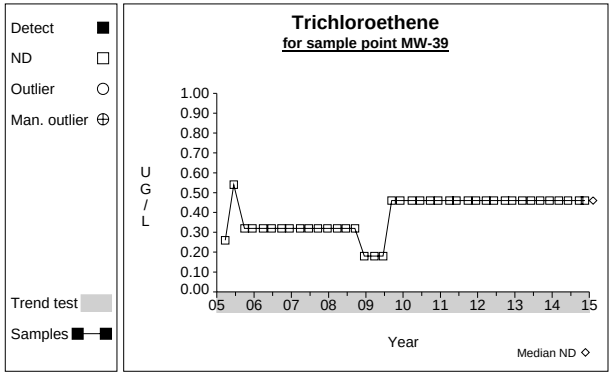
Graph 543



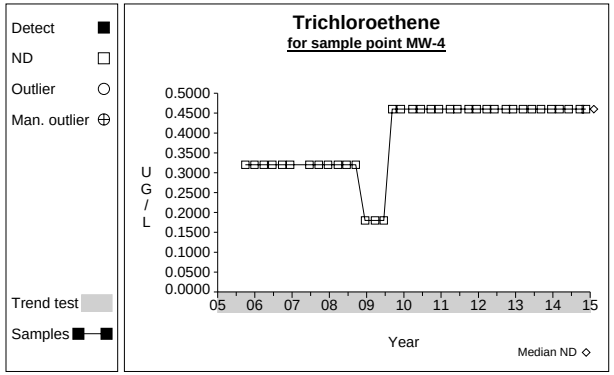
Graph 544



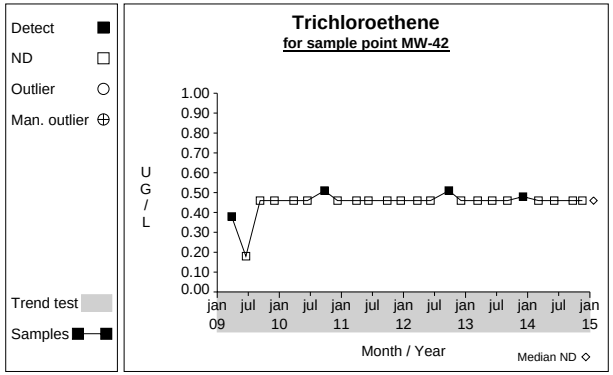
Graph 545



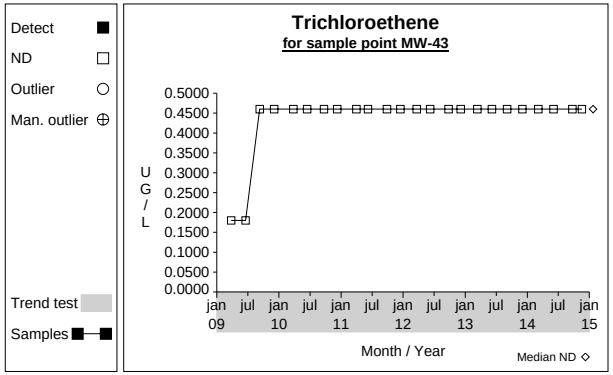
Graph 546



Graph 547

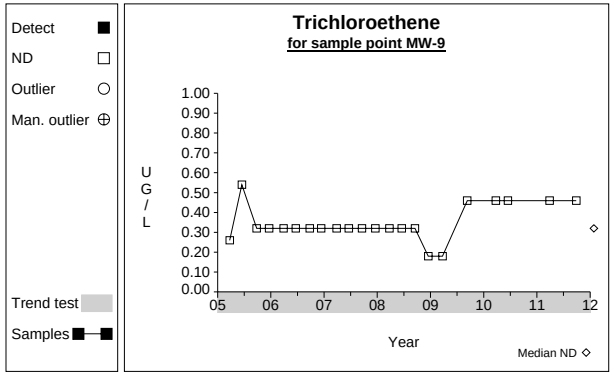


Graph 548

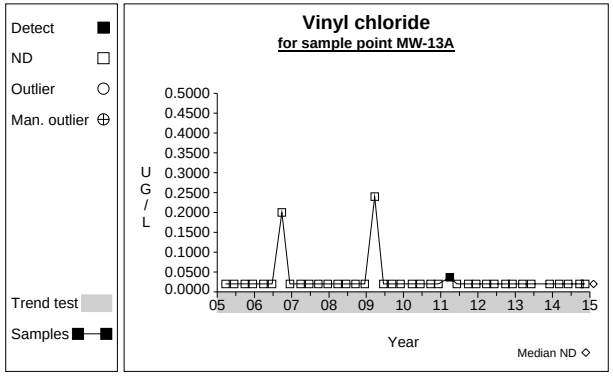


Graph 549

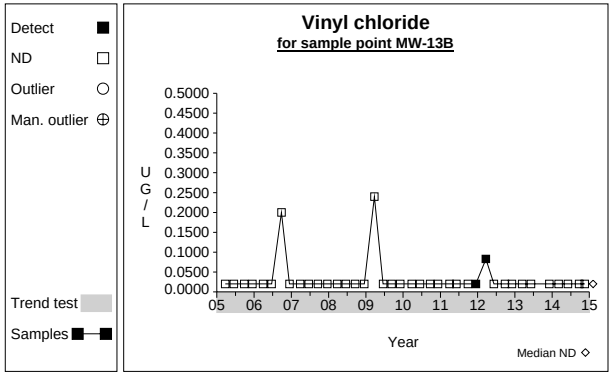
Time Series



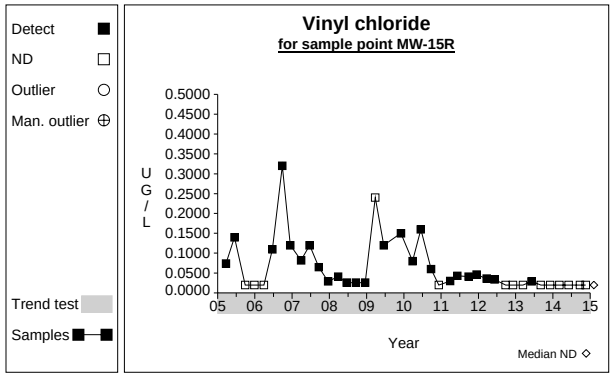
Graph 550



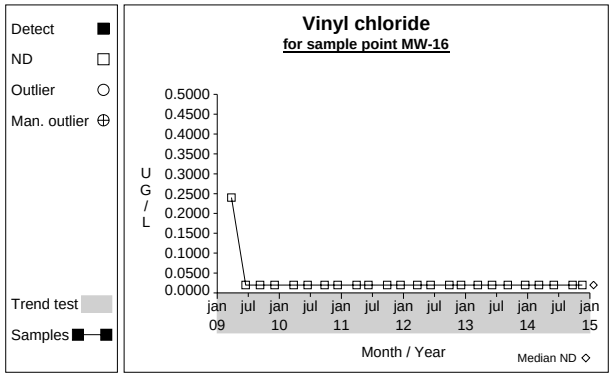
Graph 551



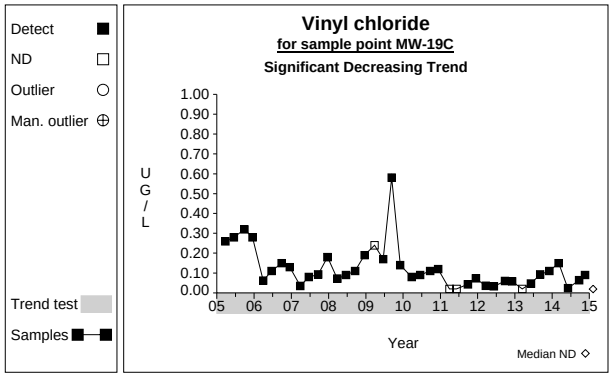
Graph 552



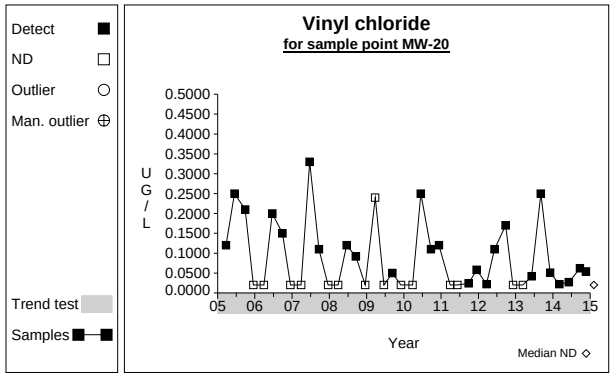
Graph 553



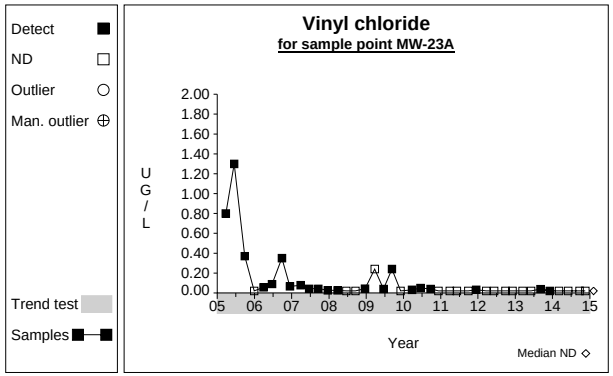
Graph 554



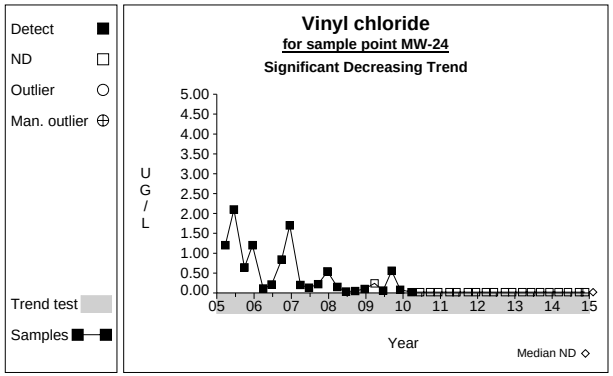
Graph 555



Graph 556

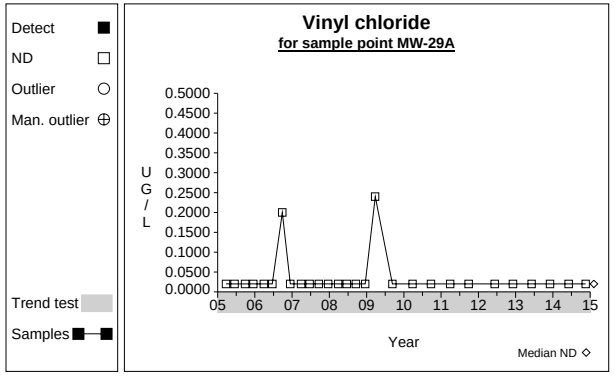


Graph 557

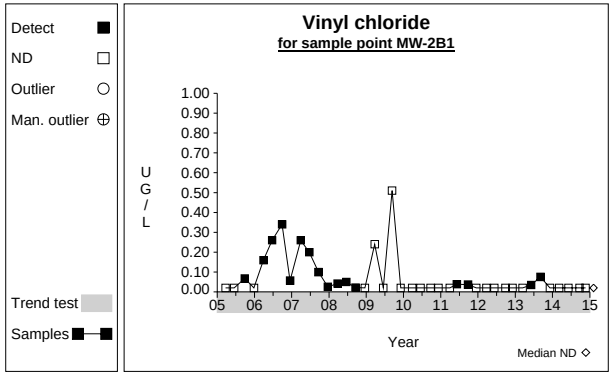


Graph 558

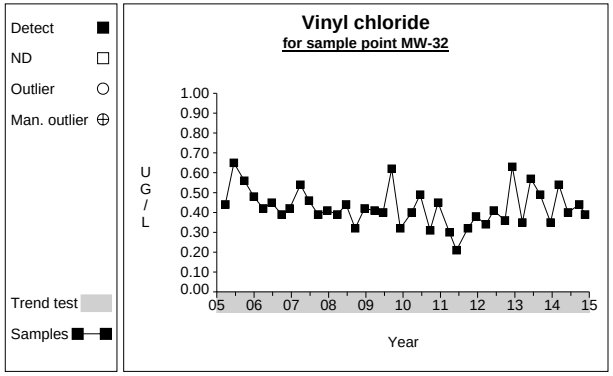
Time Series



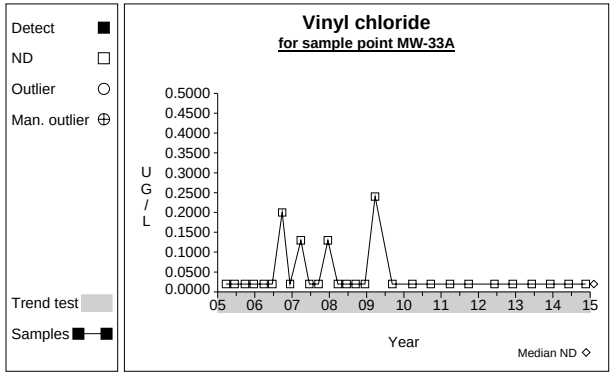
Graph 559



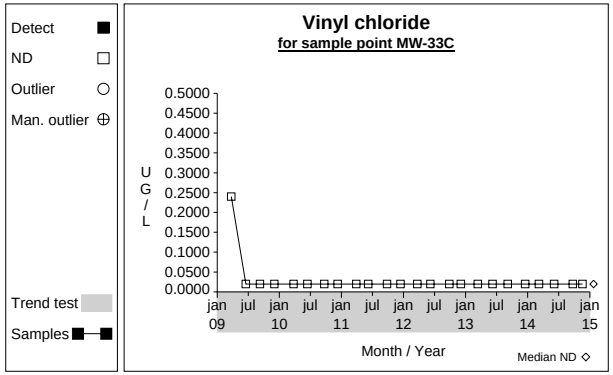
Graph 560



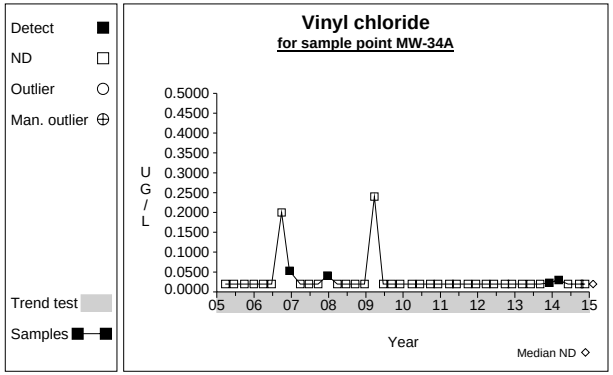
Graph 561



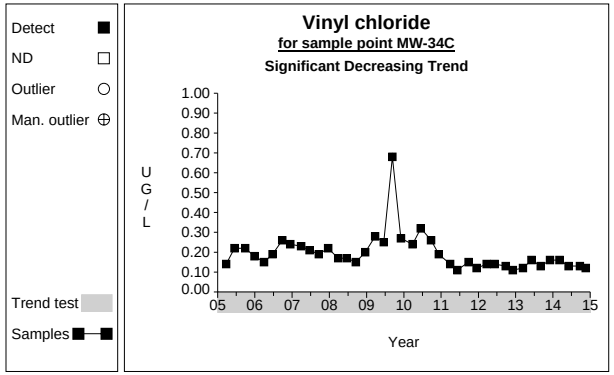
Graph 562



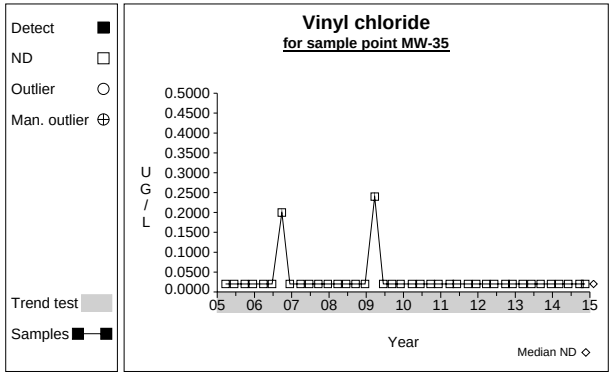
Graph 563



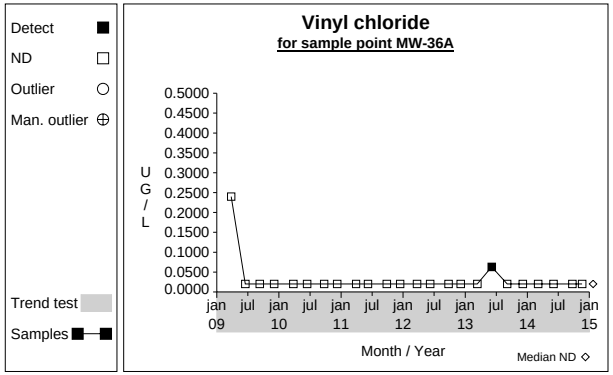
Graph 564



Graph 565

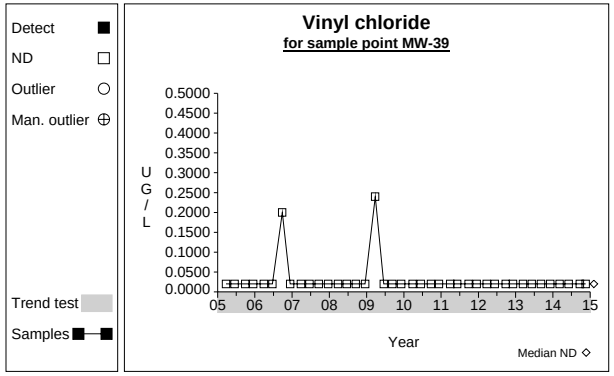


Graph 566

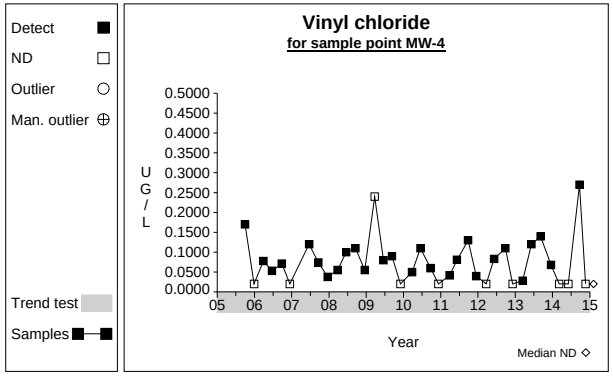


Graph 567

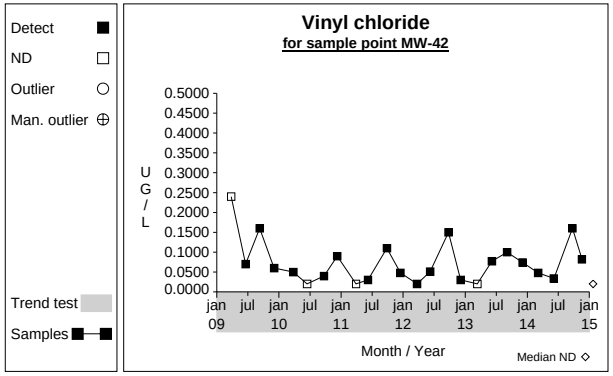
Time Series



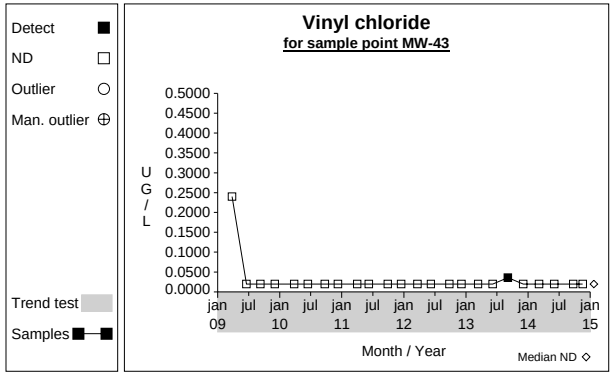
Graph 568



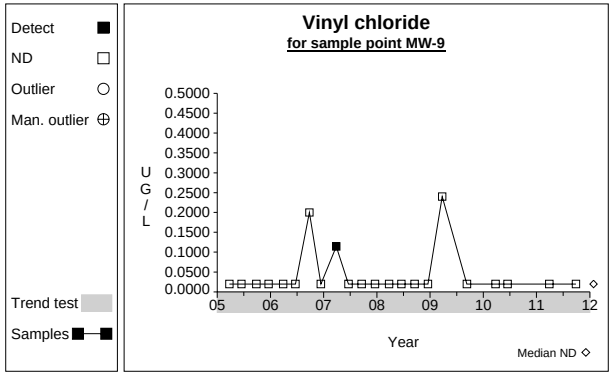
Graph 569



Graph 570

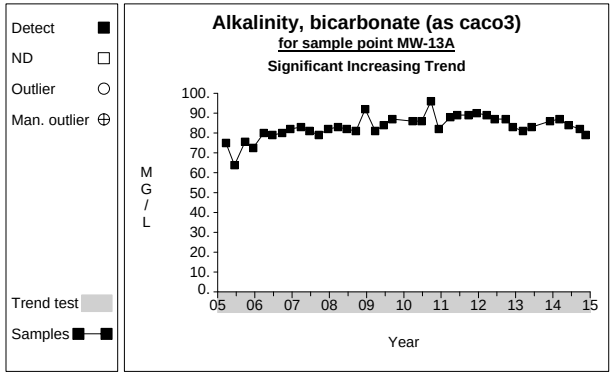


Graph 571

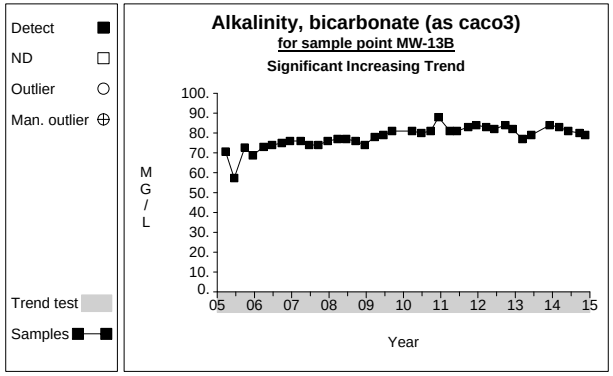


Graph 572

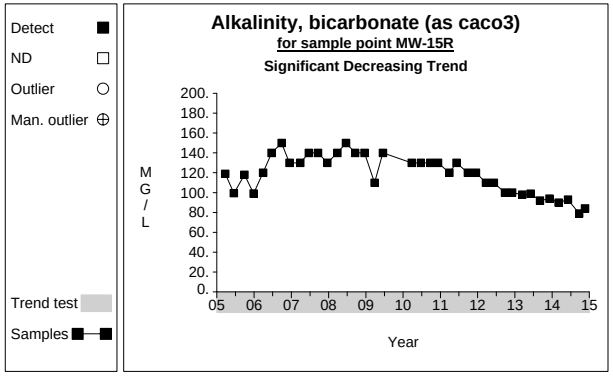
Time Series



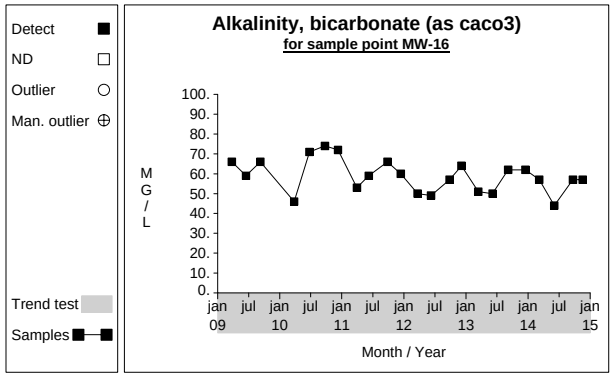
Graph 1



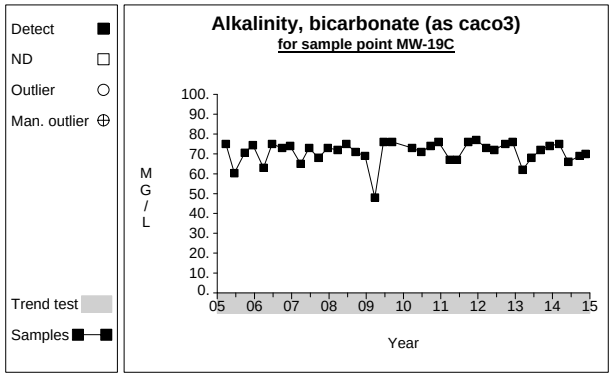
Graph 2



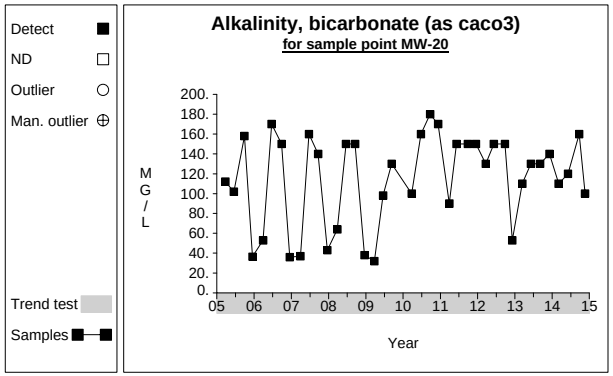
Graph 3



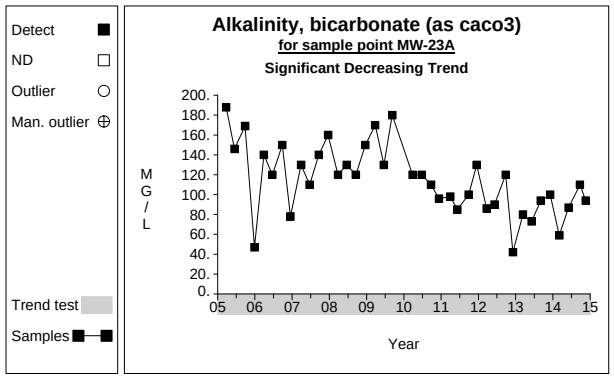
Graph 4



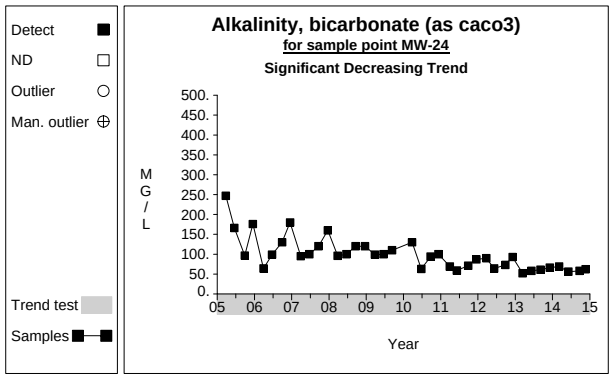
Graph 5



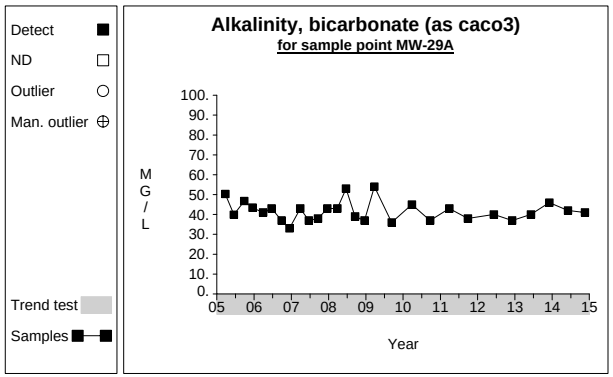
Graph 6



Graph 7

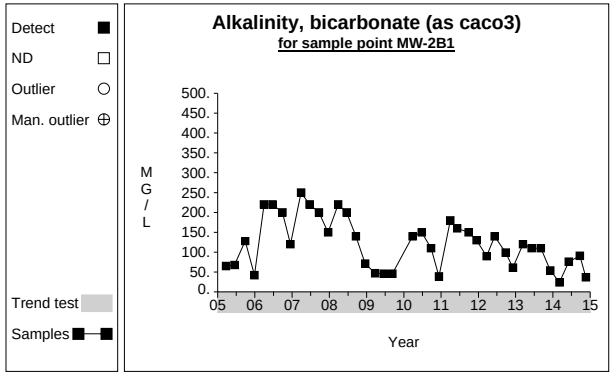


Graph 8

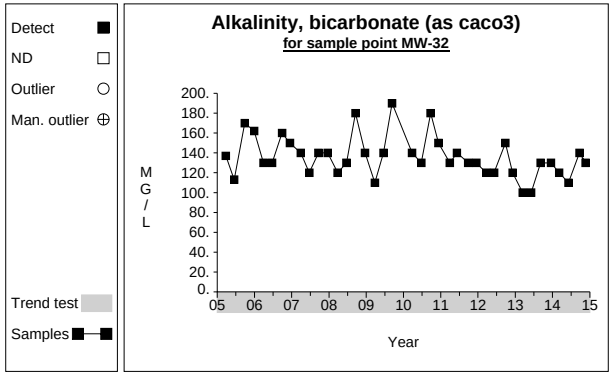


Graph 9

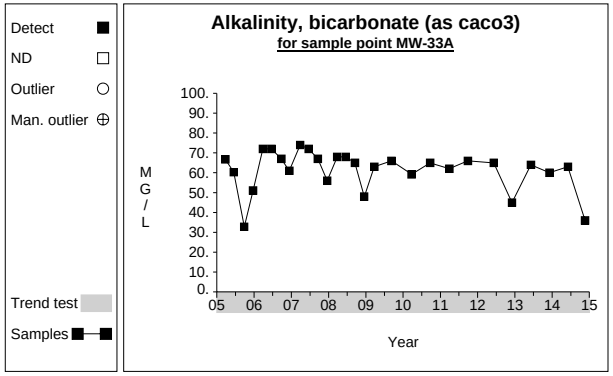
Time Series



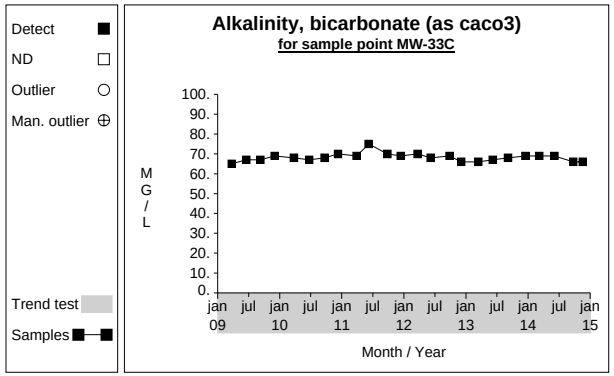
Graph 10



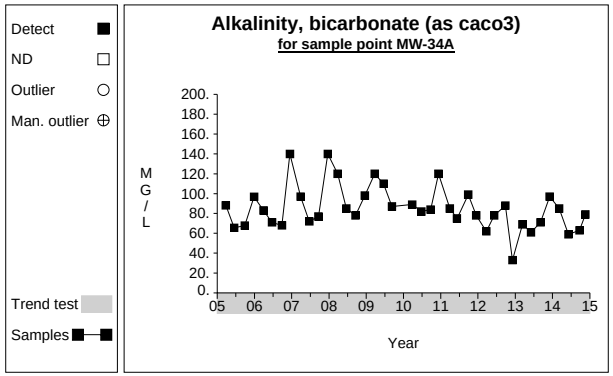
Graph 11



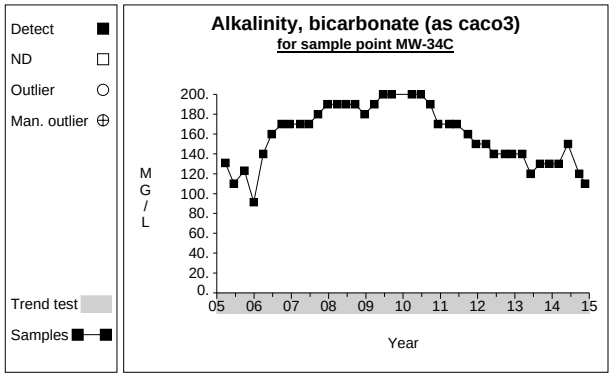
Graph 12



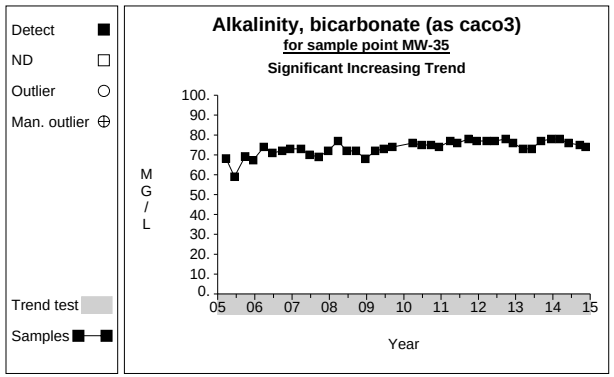
Graph 13



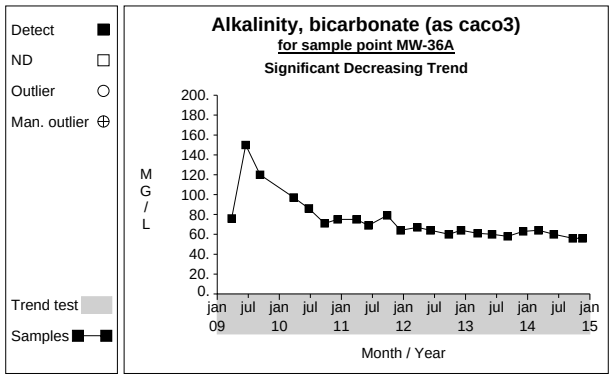
Graph 14



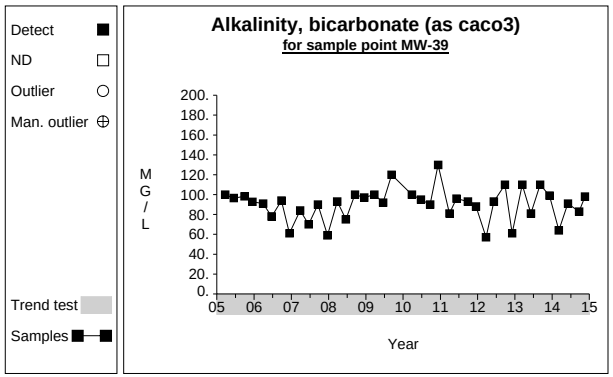
Graph 15



Graph 16

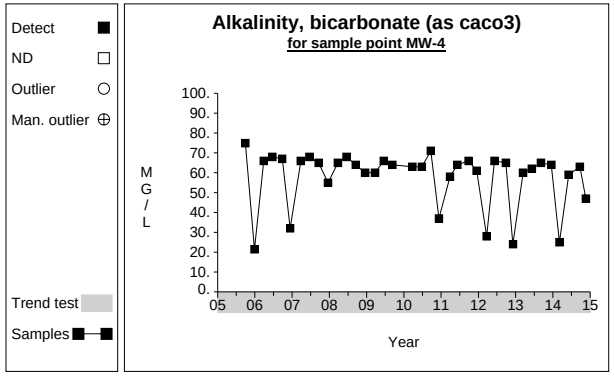


Graph 17

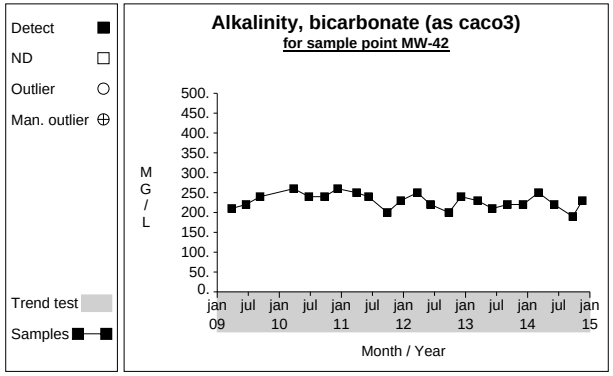


Graph 18

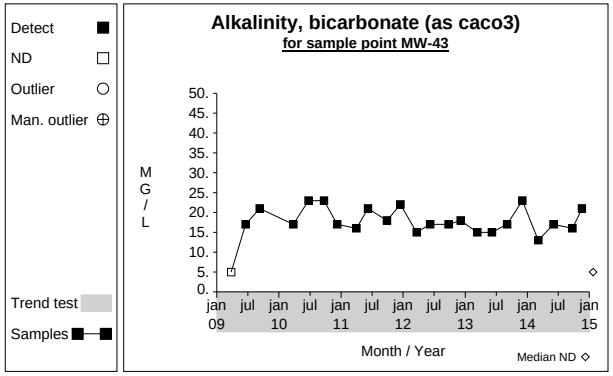
Time Series



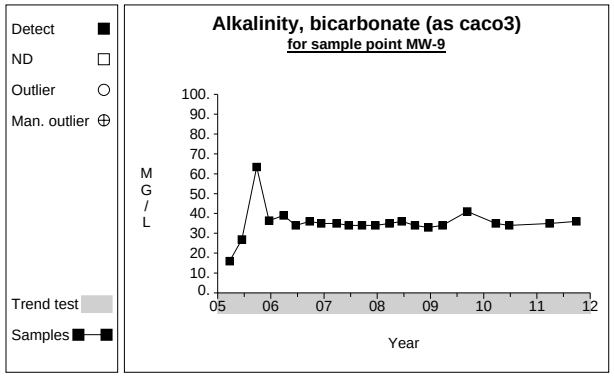
Graph 19



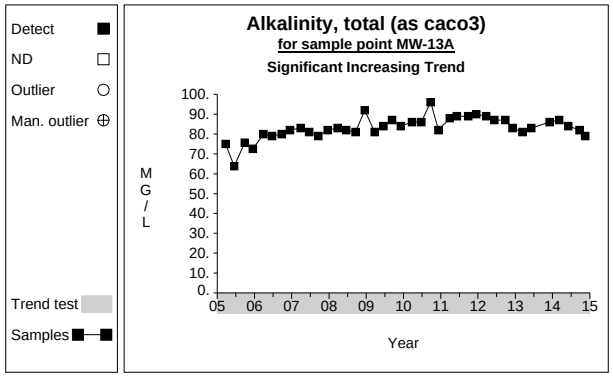
Graph 20



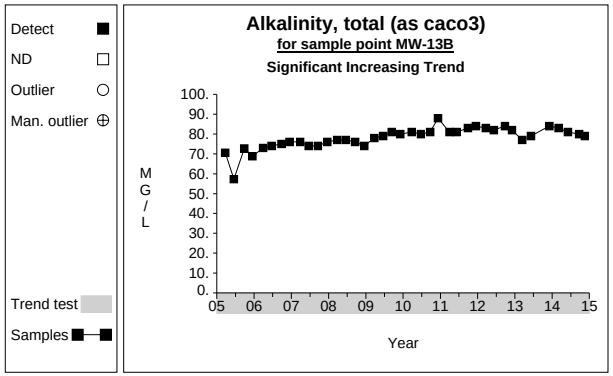
Graph 21



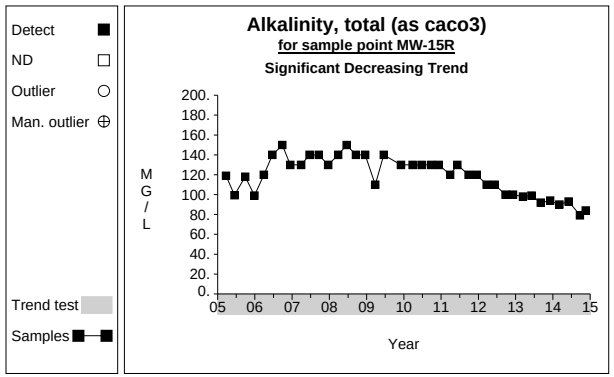
Graph 22



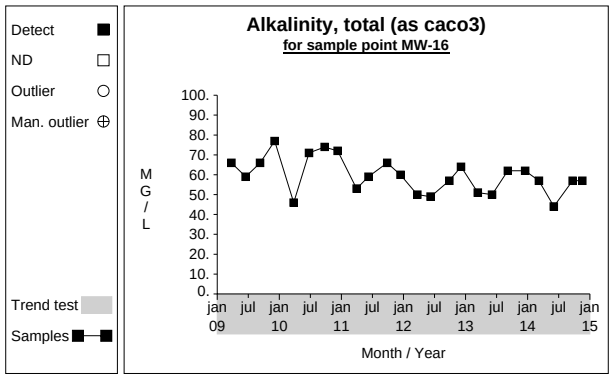
Graph 23



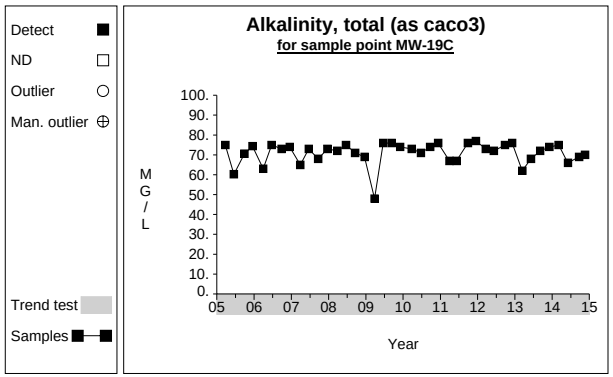
Graph 24



Graph 25

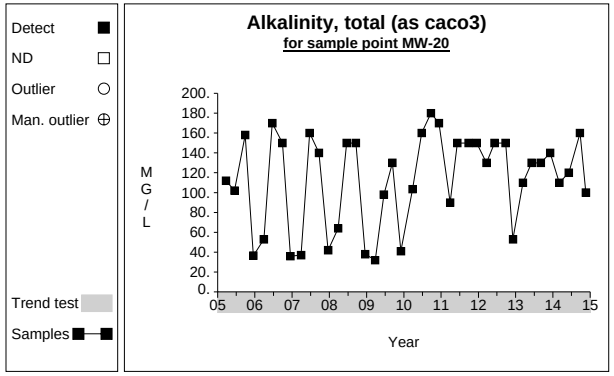


Graph 26

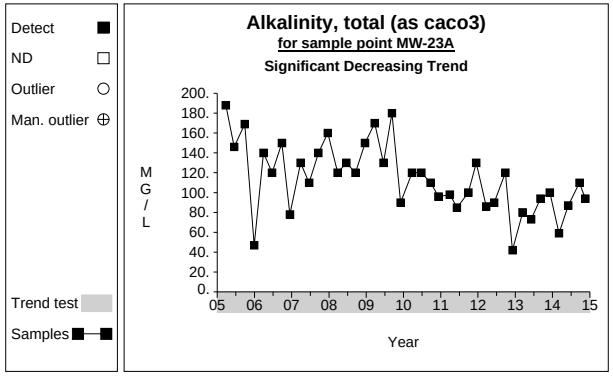


Graph 27

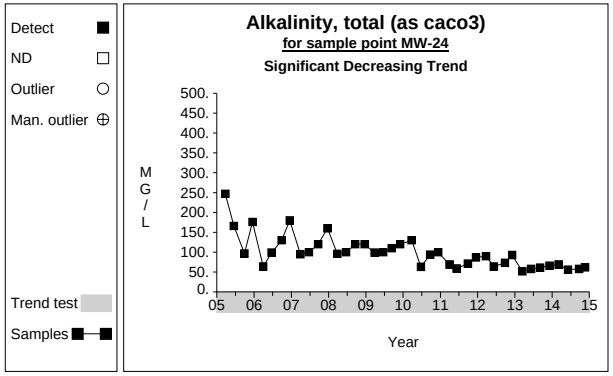
Time Series



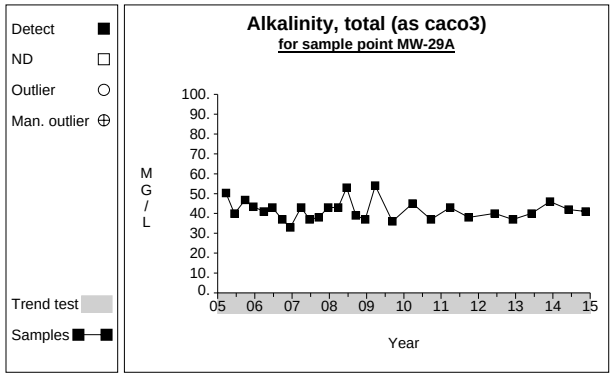
Graph 28



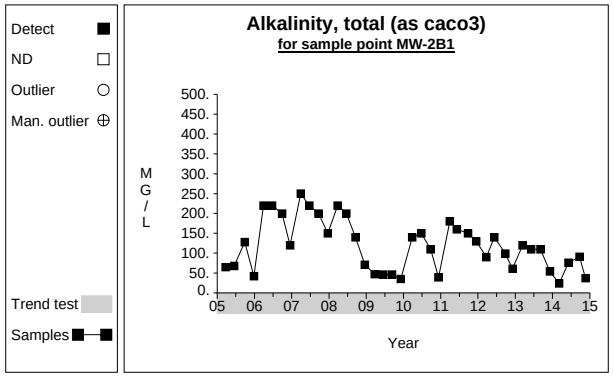
Graph 29



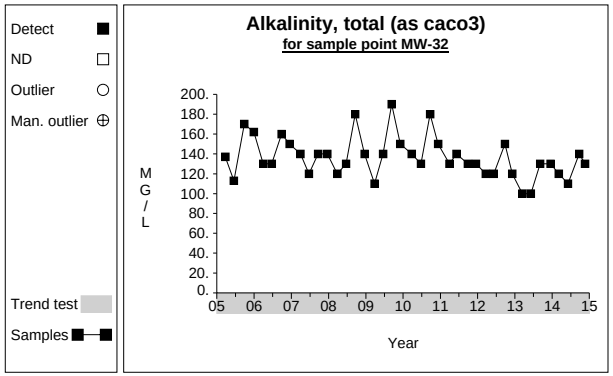
Graph 30



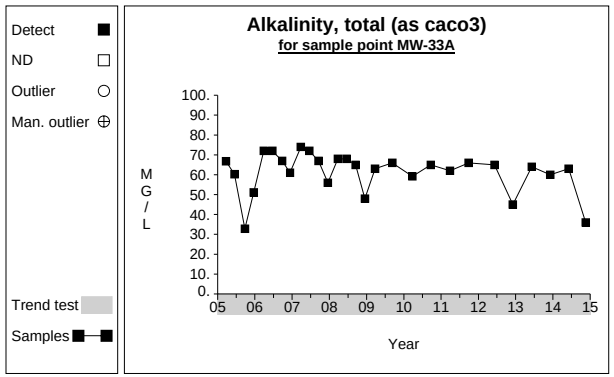
Graph 31



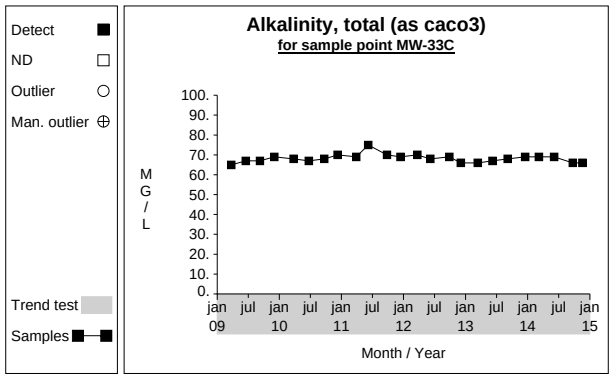
Graph 32



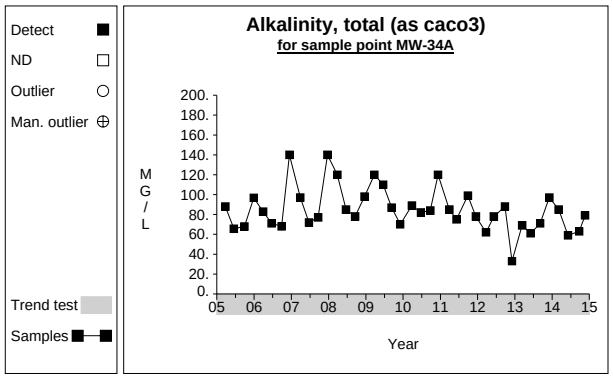
Graph 33



Graph 34

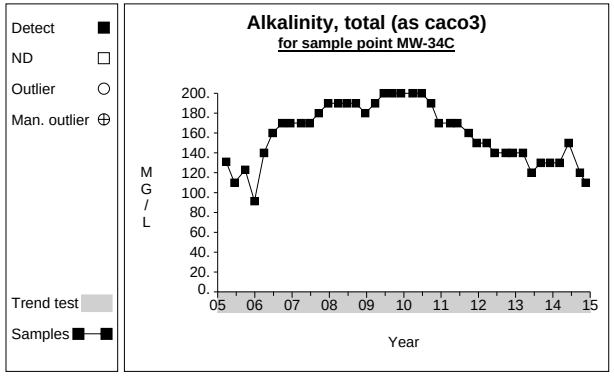


Graph 35

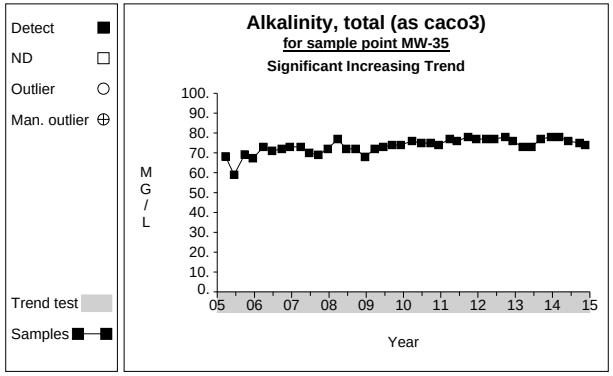


Graph 36

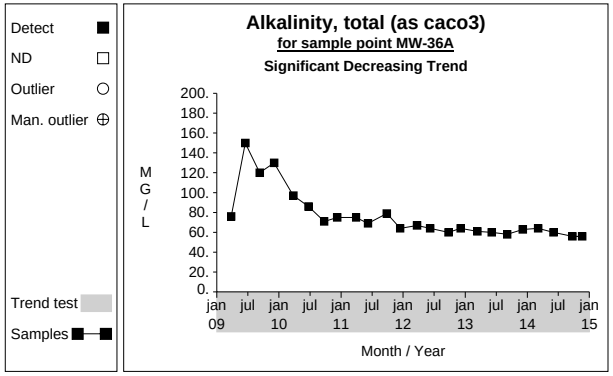
Time Series



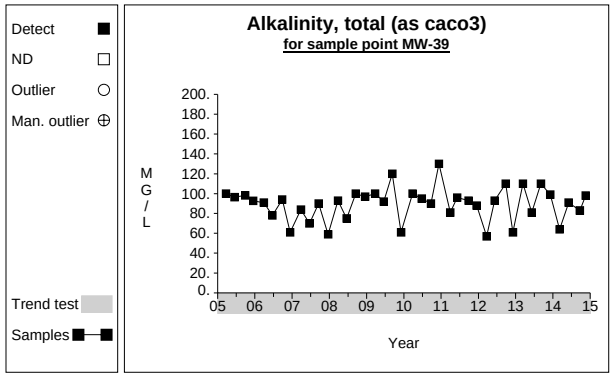
Graph 37



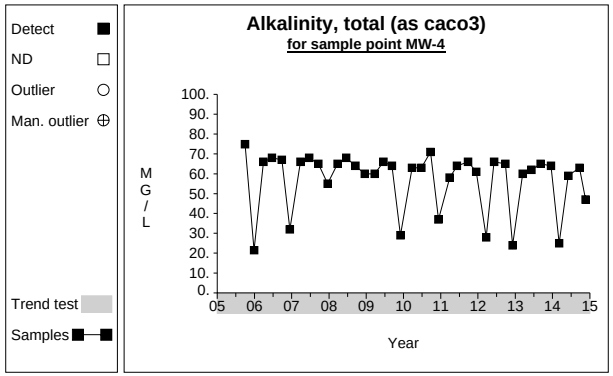
Graph 38



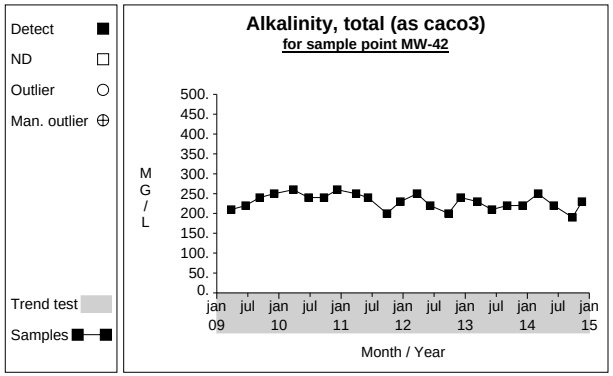
Graph 39



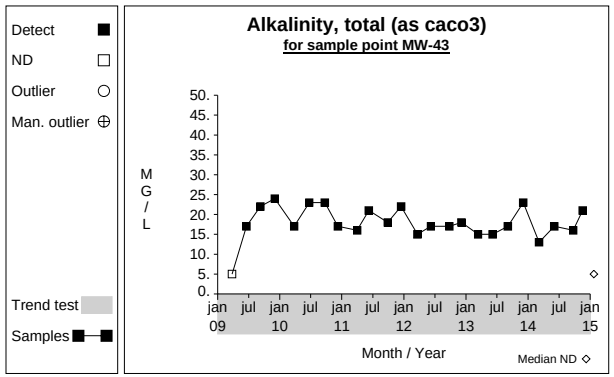
Graph 40



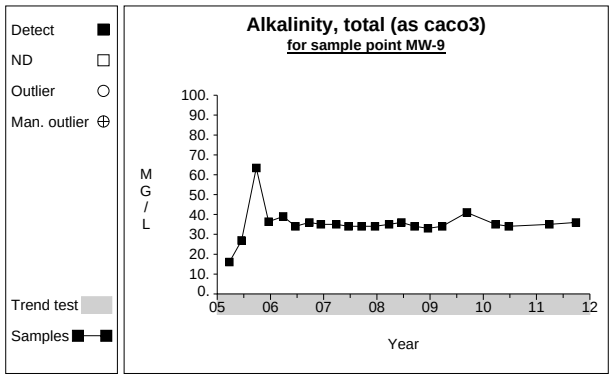
Graph 41



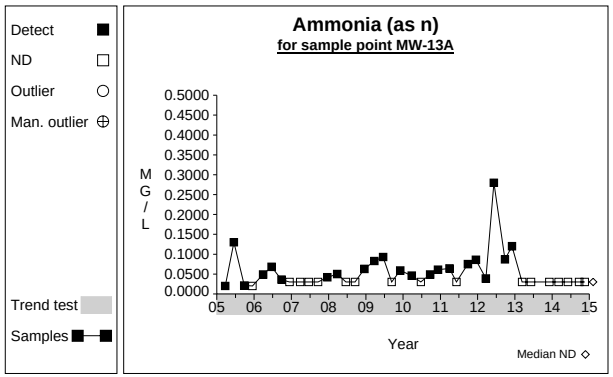
Graph 42



Graph 43

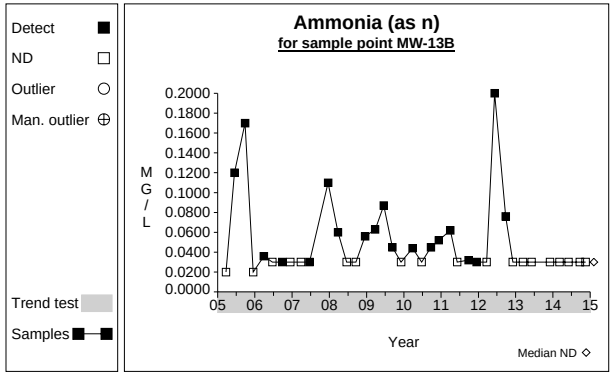


Graph 44

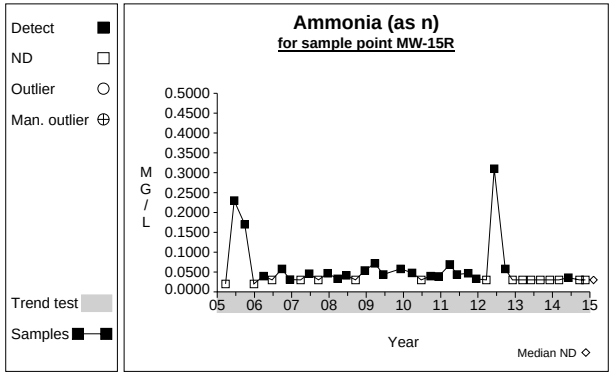


Graph 45

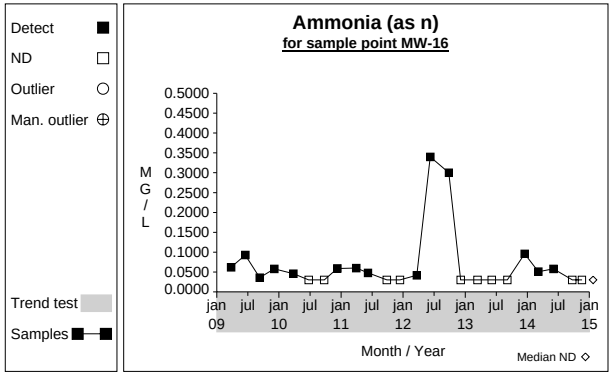
Time Series



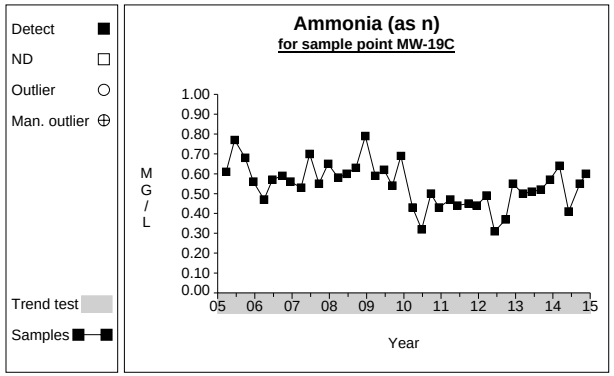
Graph 46



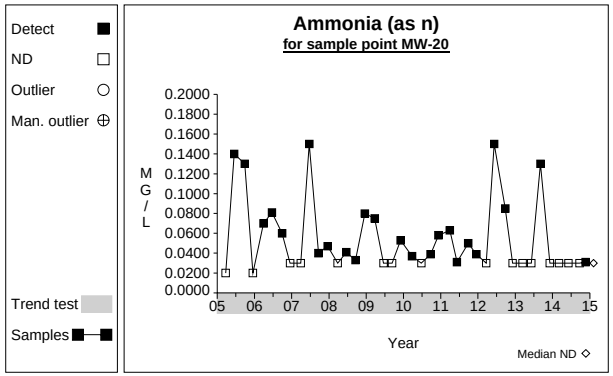
Graph 47



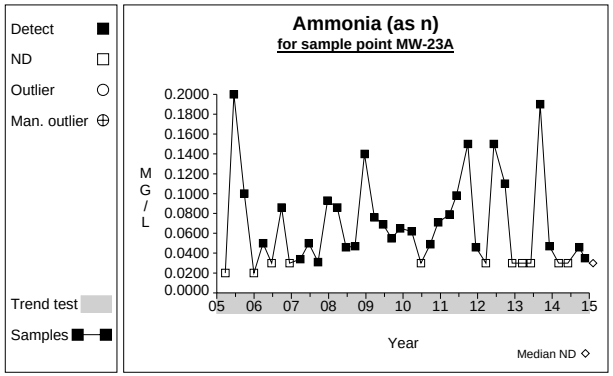
Graph 48



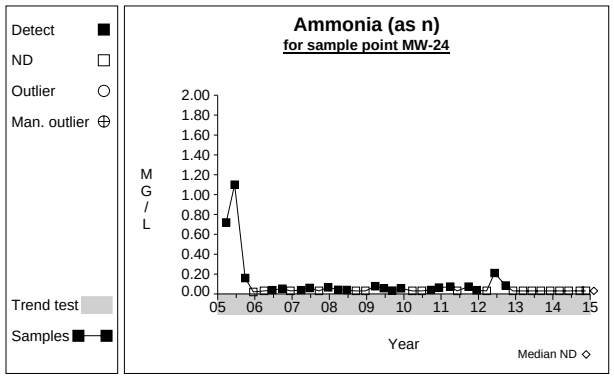
Graph 49



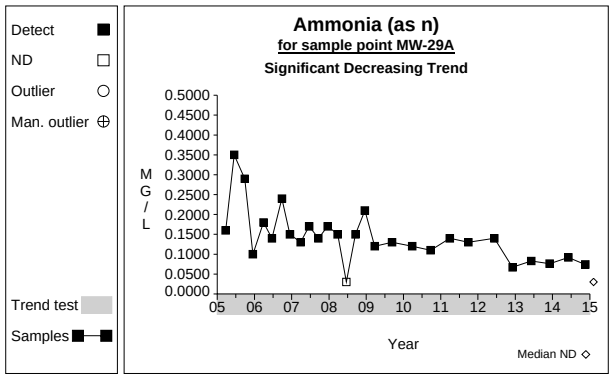
Graph 50



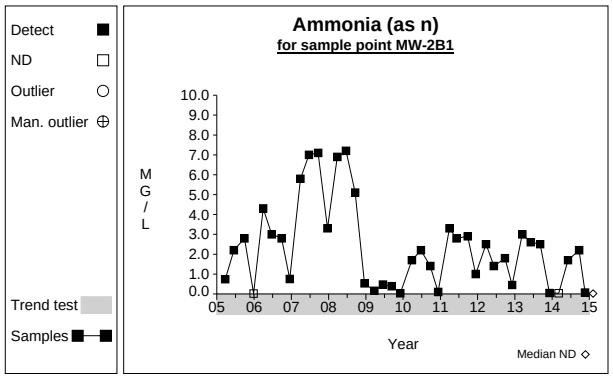
Graph 51



Graph 52

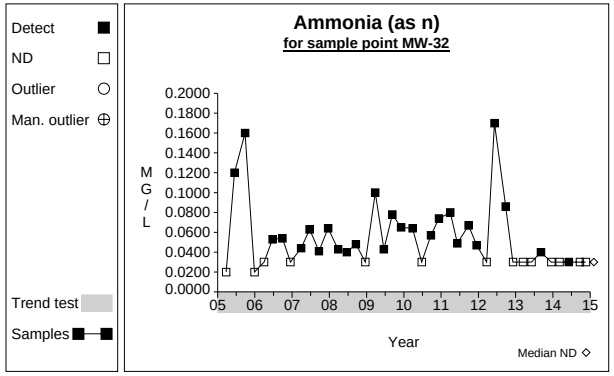


Graph 53

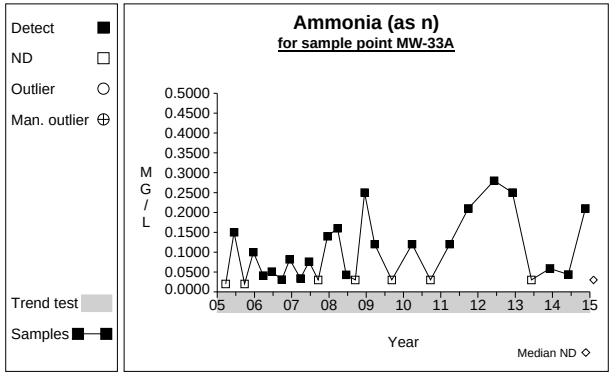


Graph 54

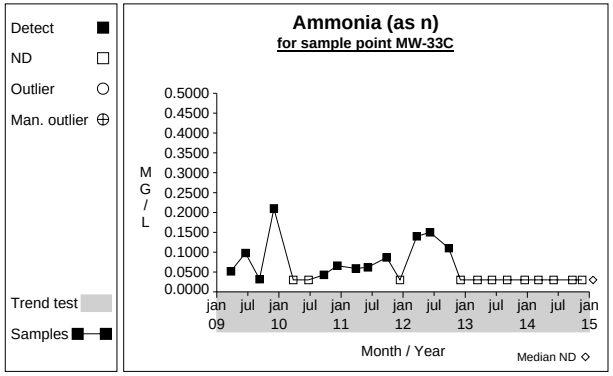
Time Series



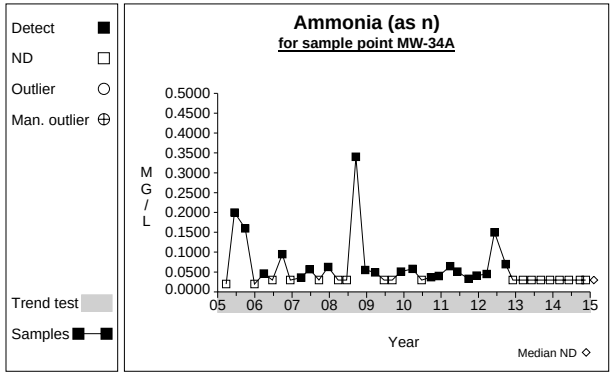
Graph 55



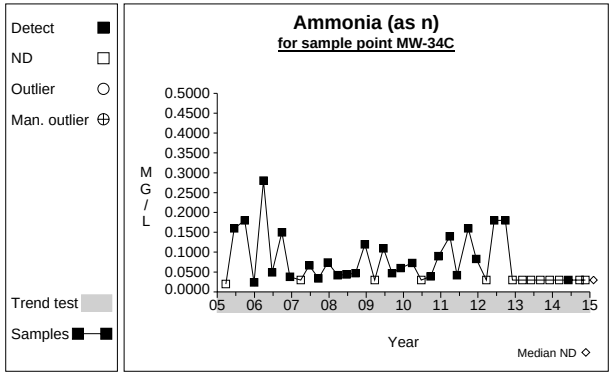
Graph 56



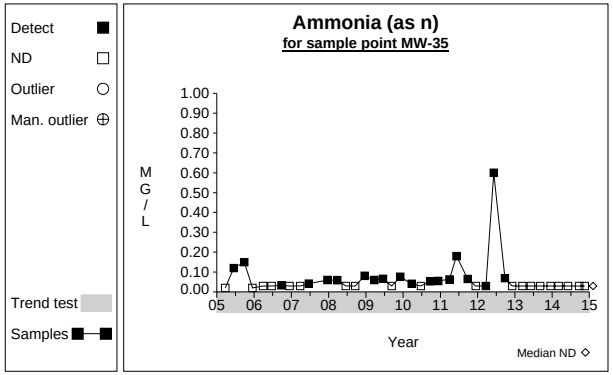
Graph 57



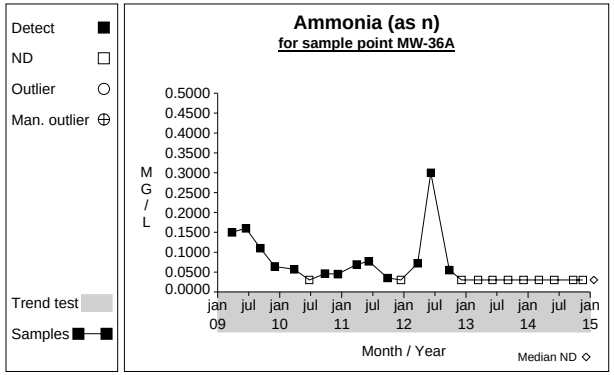
Graph 58



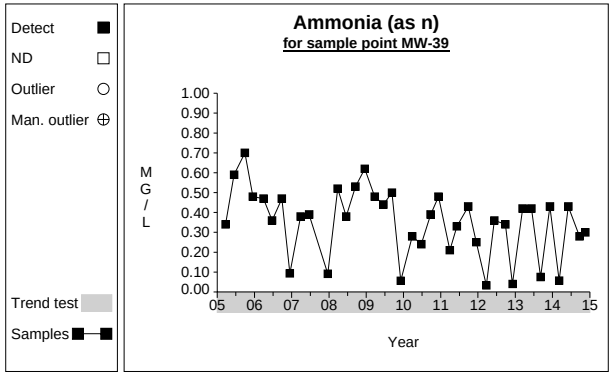
Graph 59



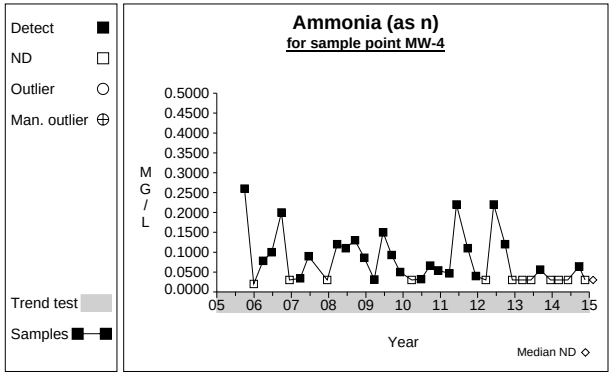
Graph 60



Graph 61

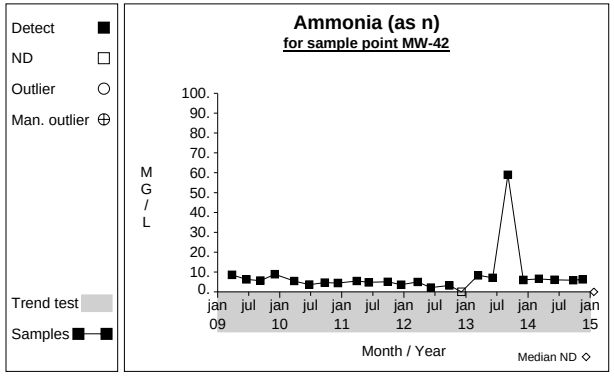


Graph 62

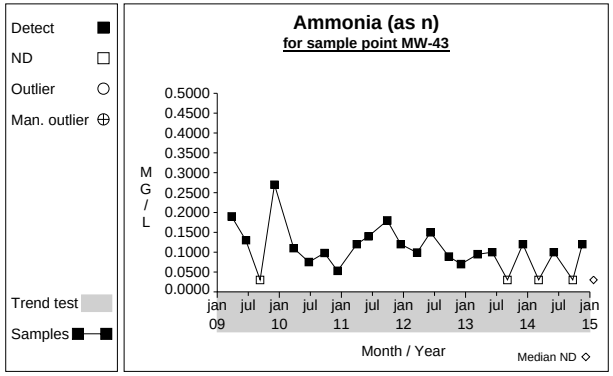


Graph 63

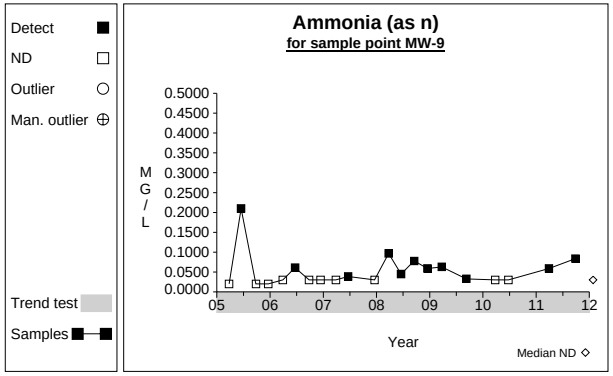
Time Series



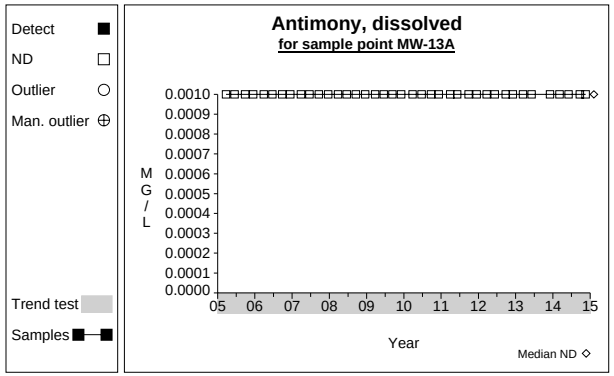
Graph 64



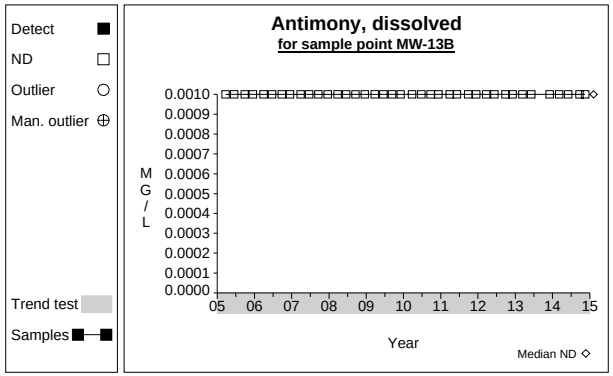
Graph 65



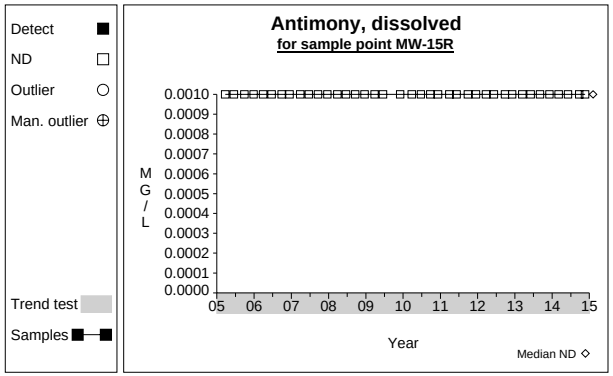
Graph 66



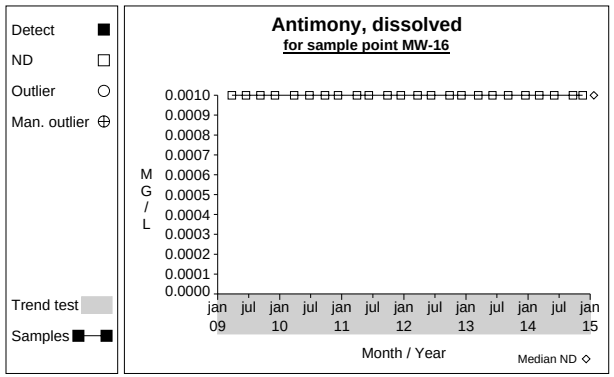
Graph 67



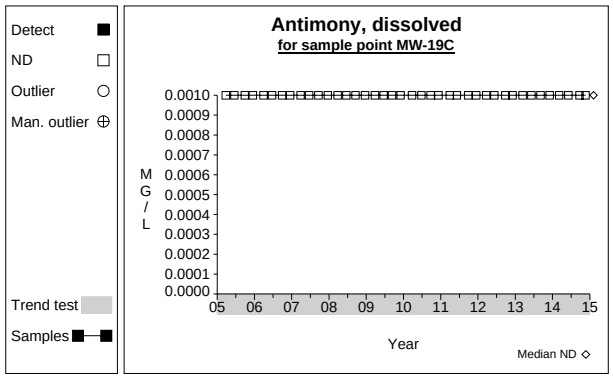
Graph 68



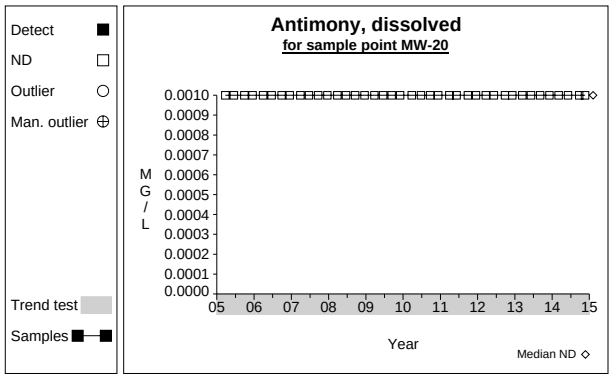
Graph 69



Graph 70

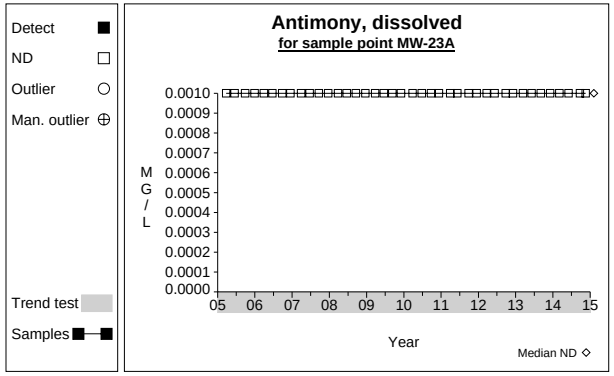


Graph 71

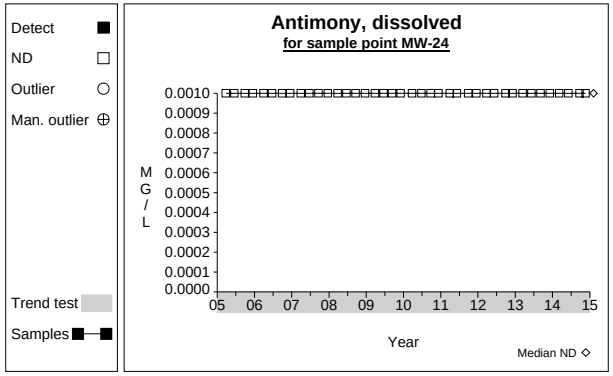


Graph 72

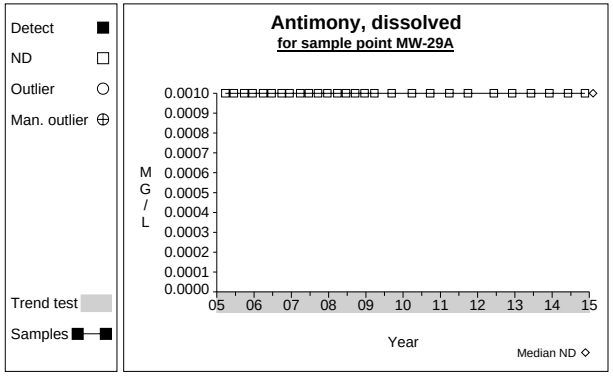
Time Series



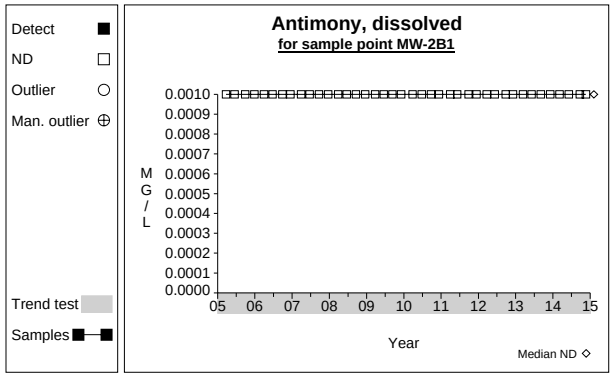
Graph 73



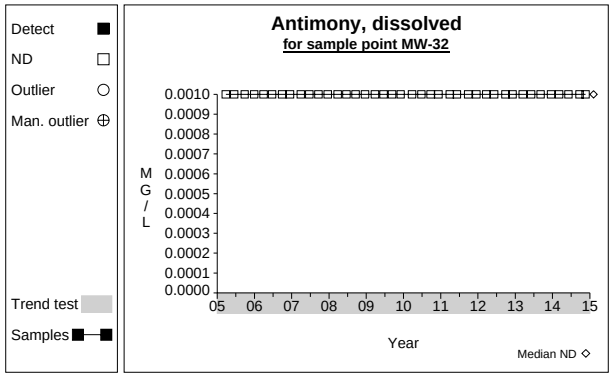
Graph 74



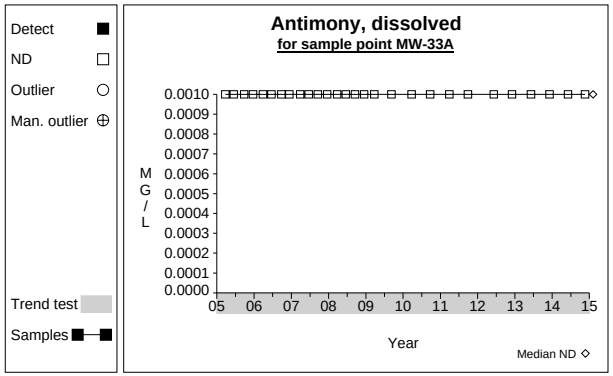
Graph 75



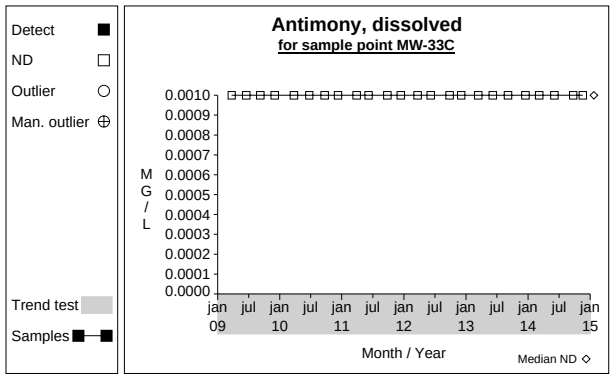
Graph 76



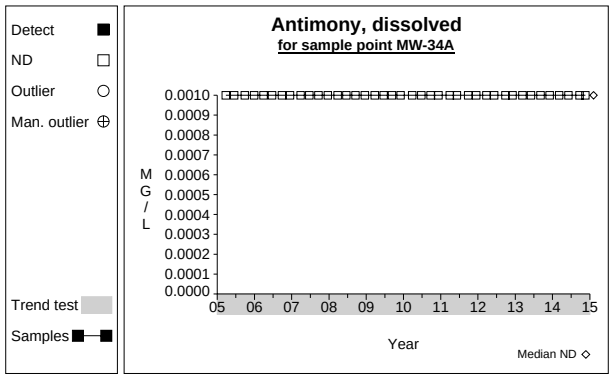
Graph 77



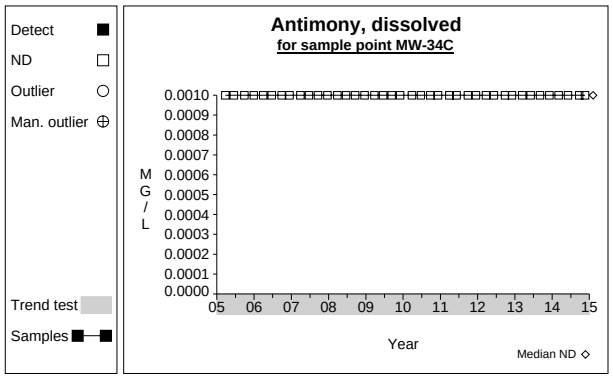
Graph 78



Graph 79

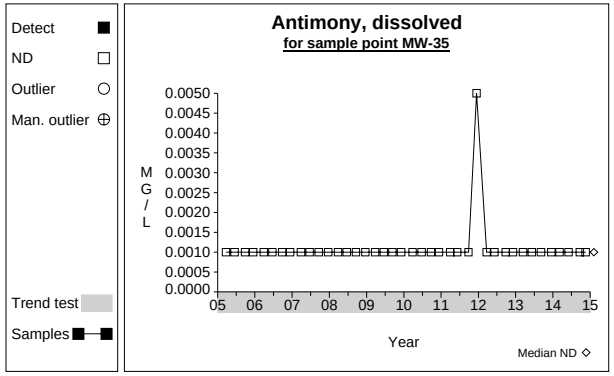


Graph 80

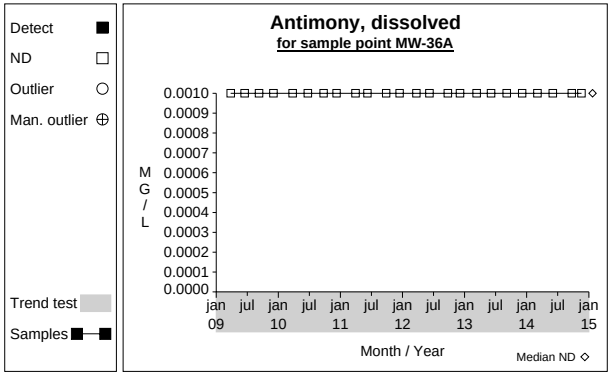


Graph 81

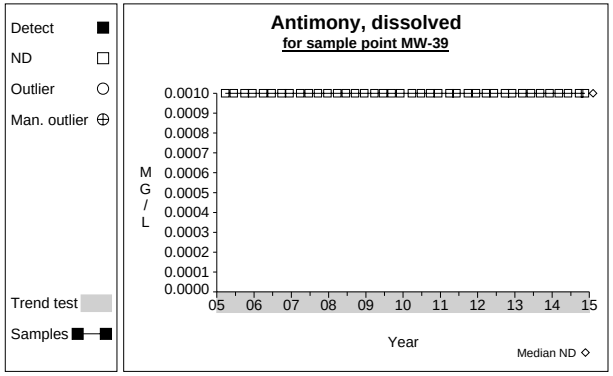
Time Series



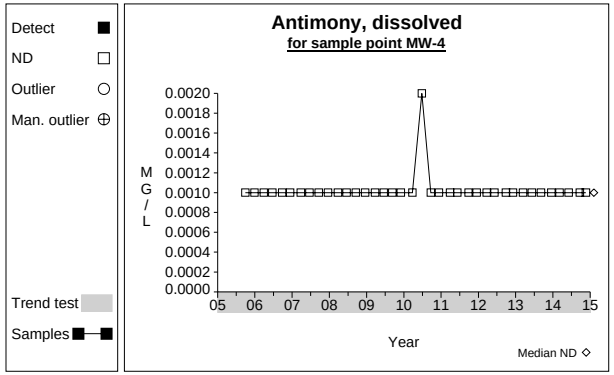
Graph 82



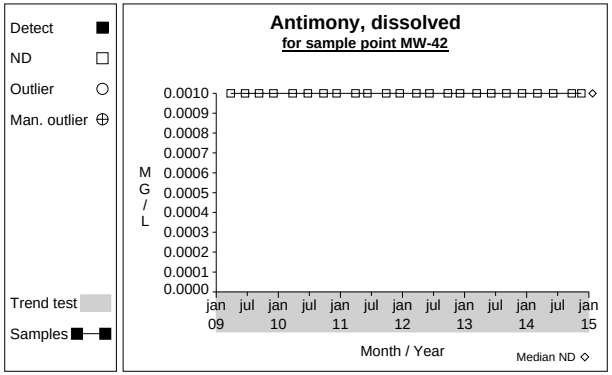
Graph 83



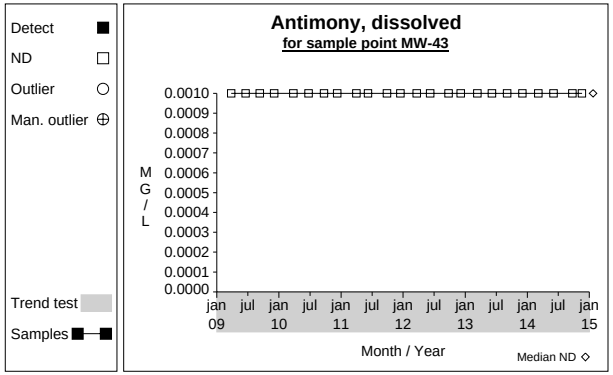
Graph 84



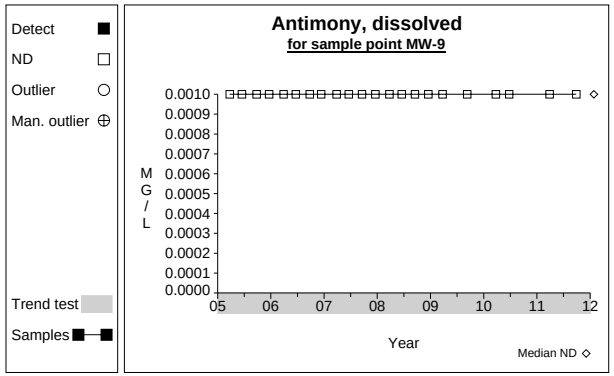
Graph 85



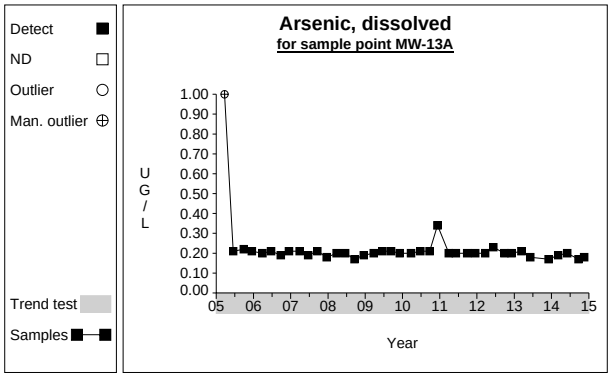
Graph 86



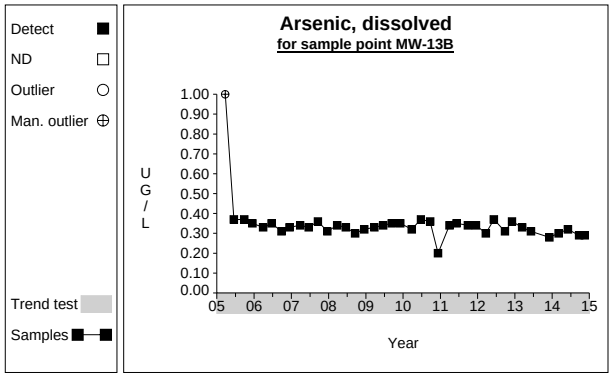
Graph 87



Graph 88

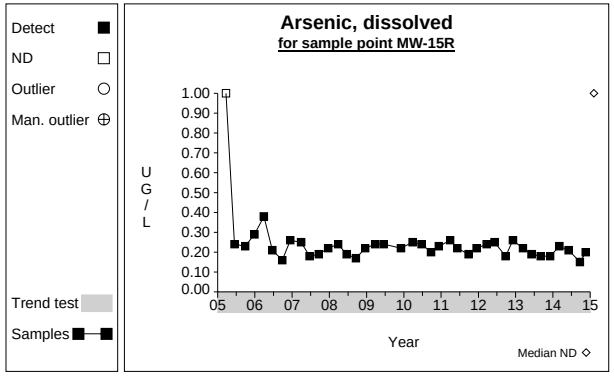


Graph 89

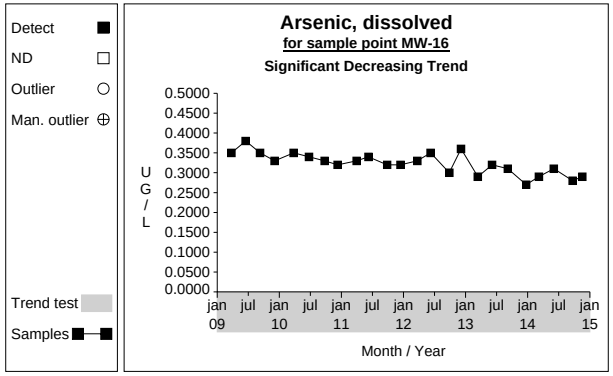


Graph 90

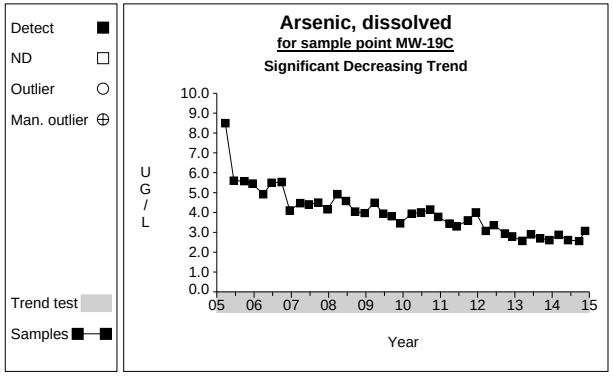
Time Series



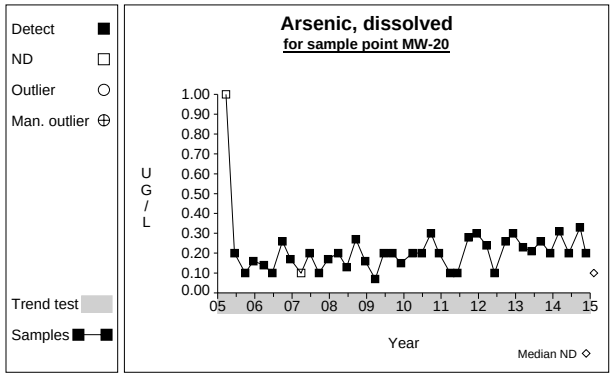
Graph 91



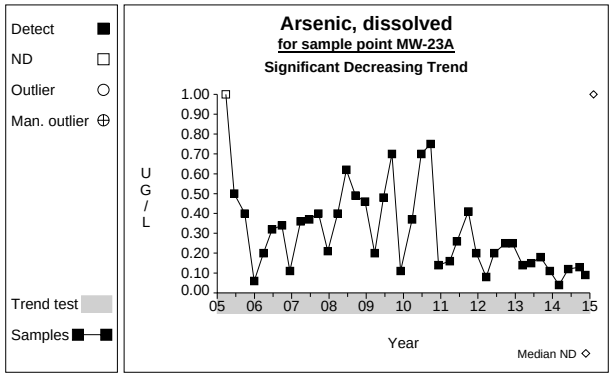
Graph 92



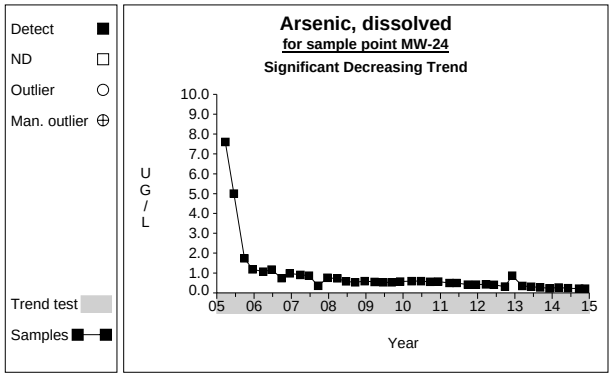
Graph 93



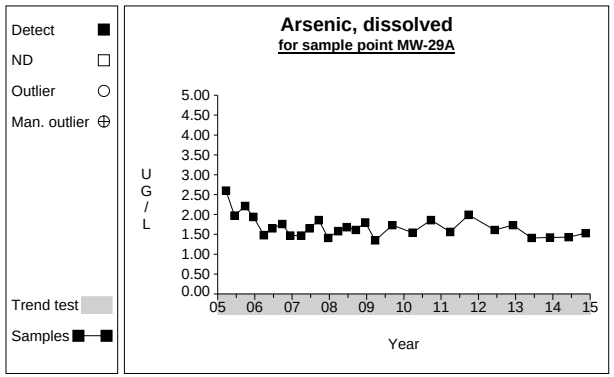
Graph 94



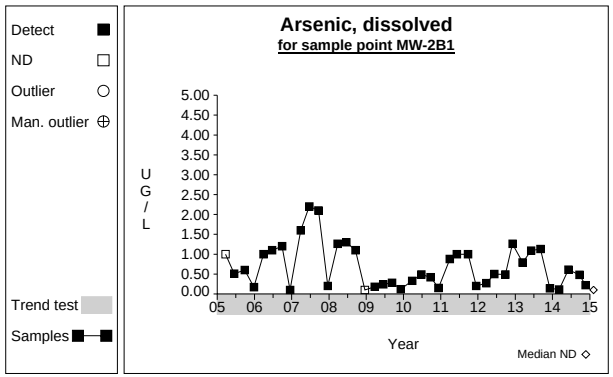
Graph 95



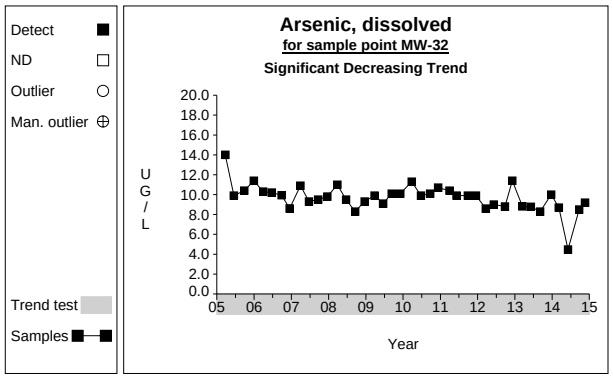
Graph 96



Graph 97

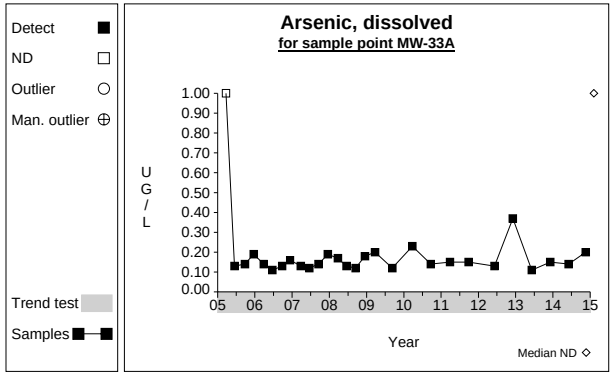


Graph 98

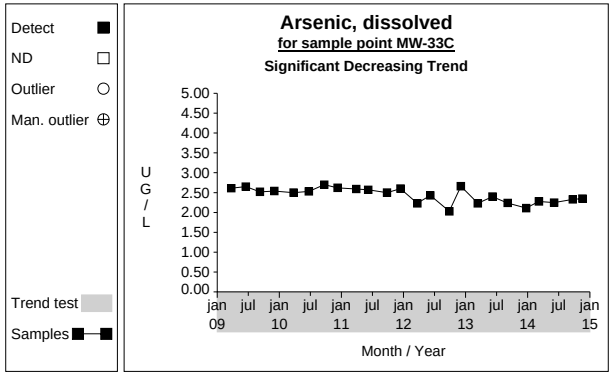


Graph 99

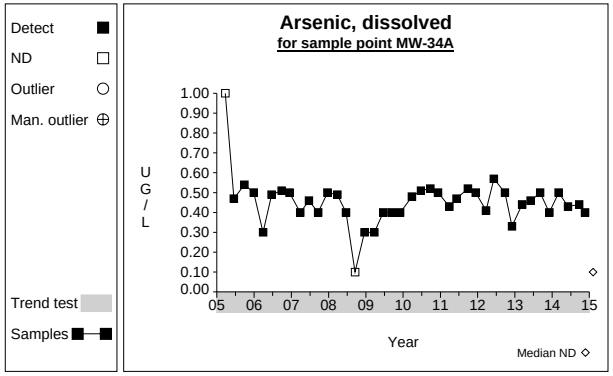
Time Series



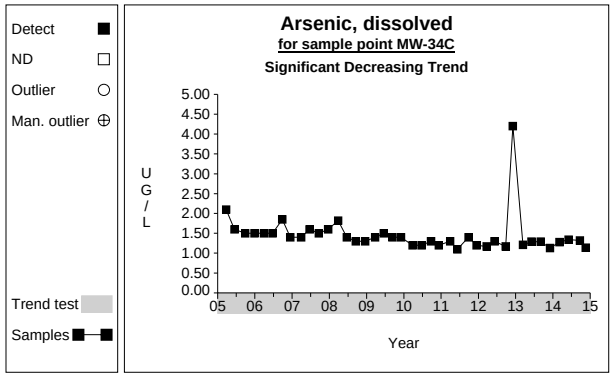
Graph 100



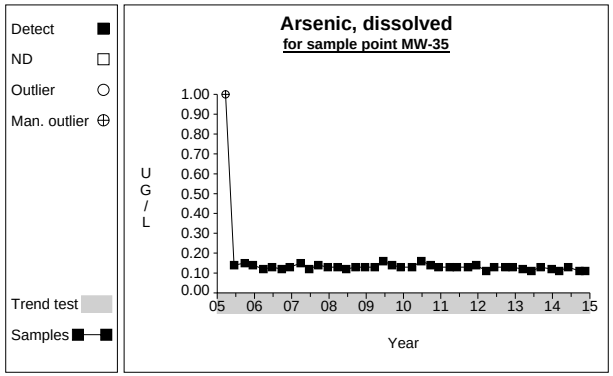
Graph 101



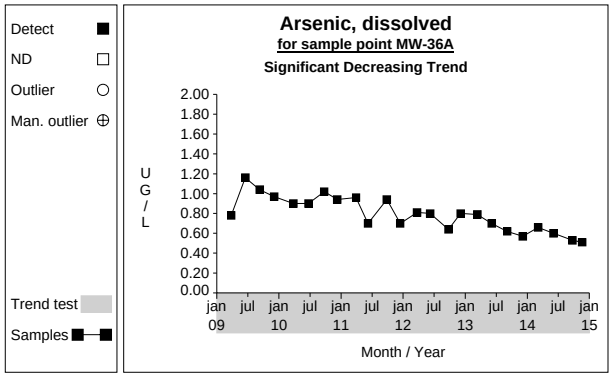
Graph 102



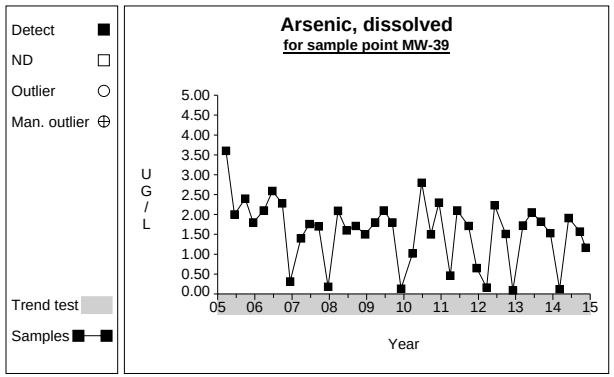
Graph 103



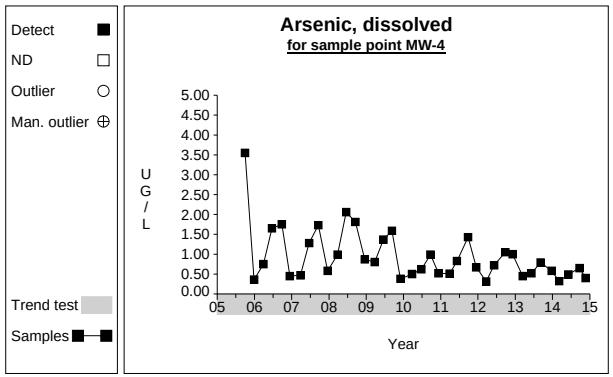
Graph 104



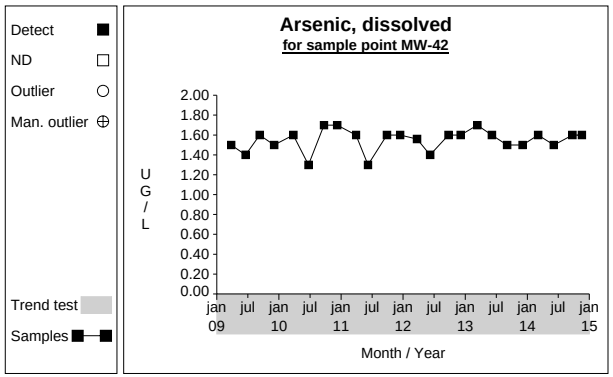
Graph 105



Graph 106

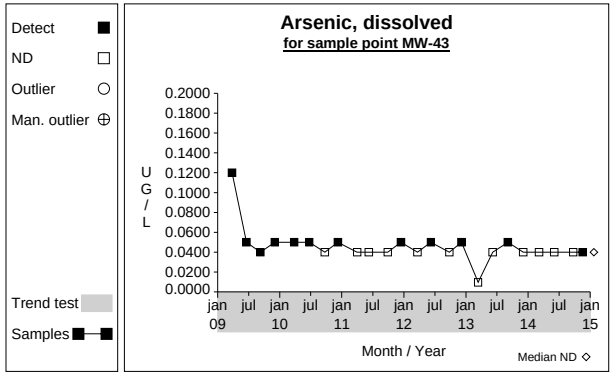


Graph 107

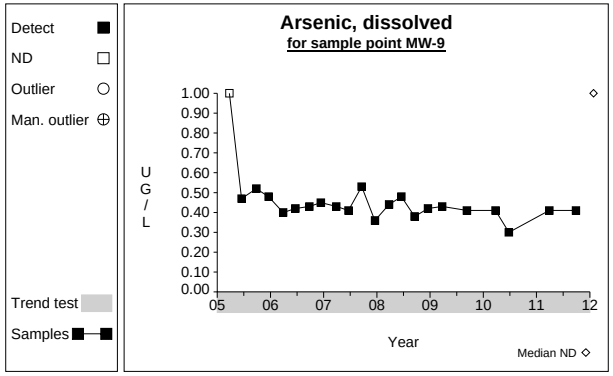


Graph 108

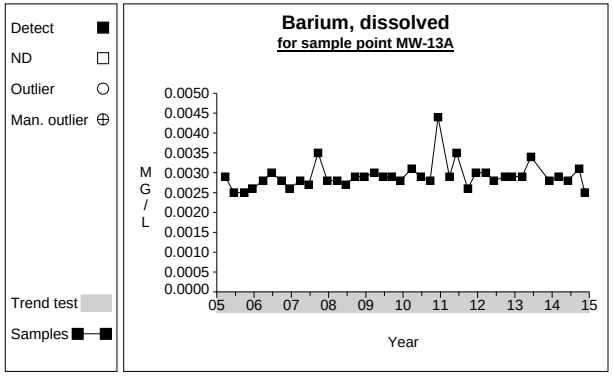
Time Series



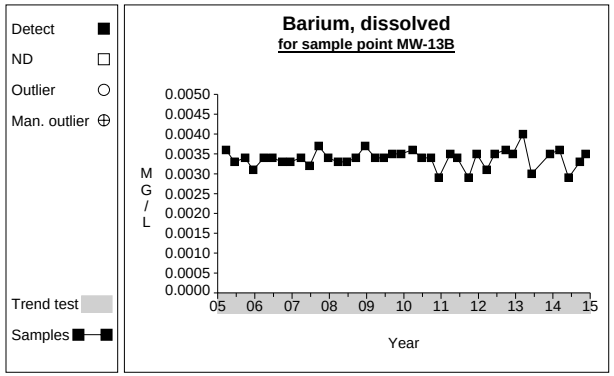
Graph 109



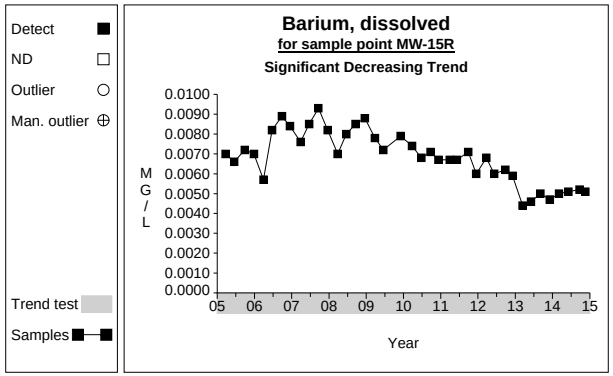
Graph 110



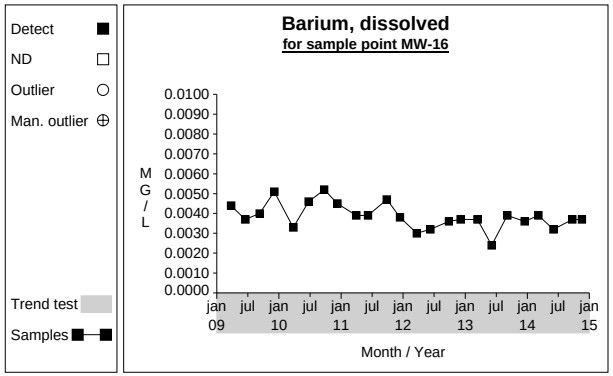
Graph 111



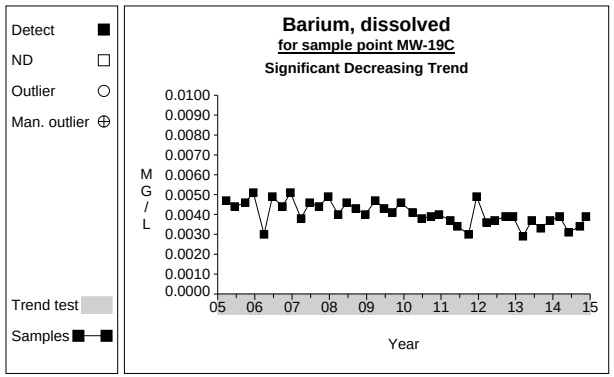
Graph 112



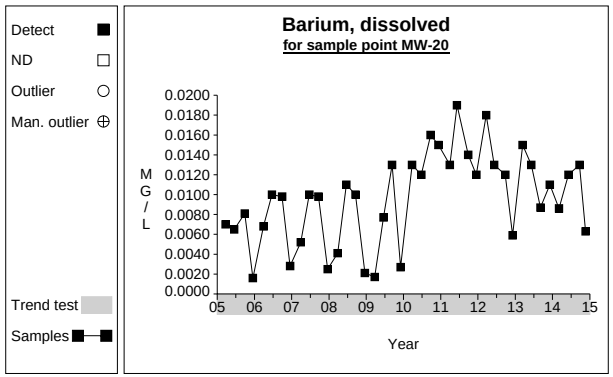
Graph 113



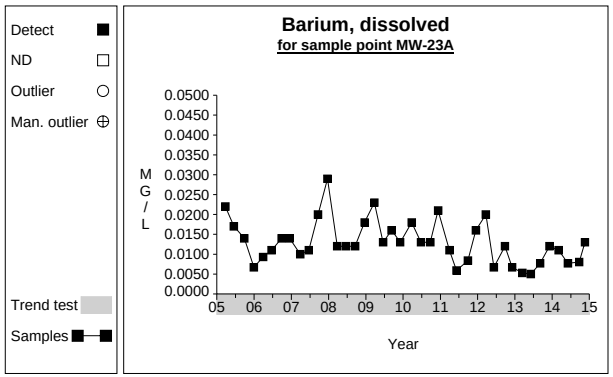
Graph 114



Graph 115

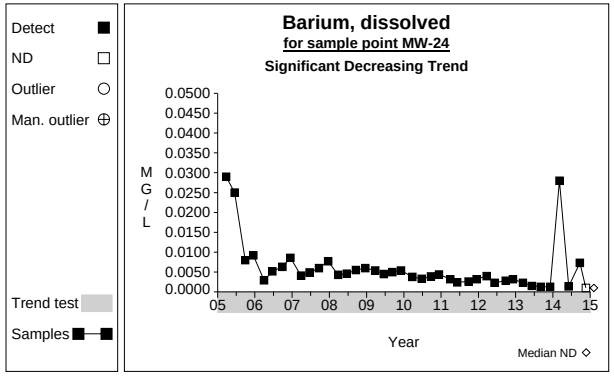


Graph 116

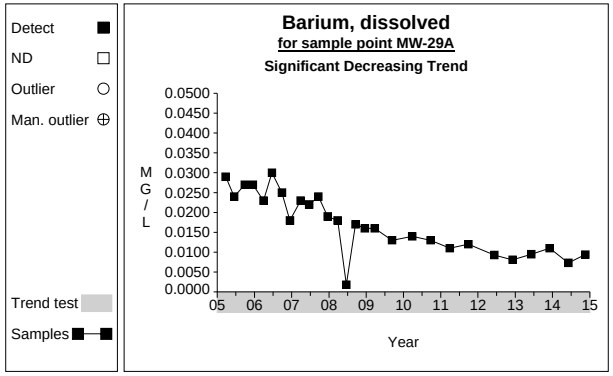


Graph 117

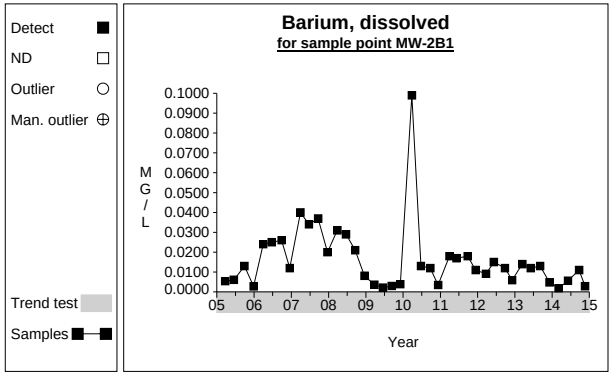
Time Series



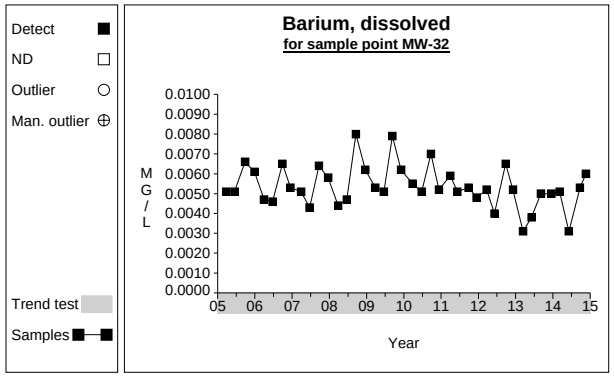
Graph 118



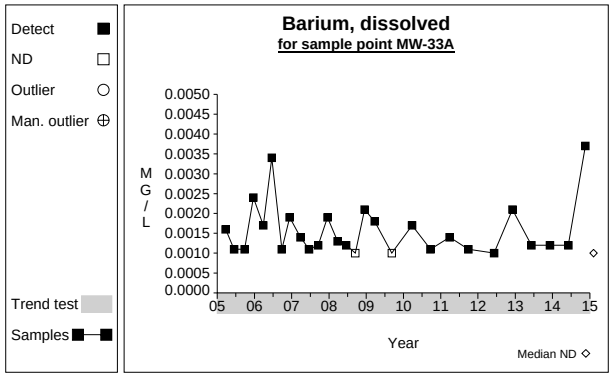
Graph 119



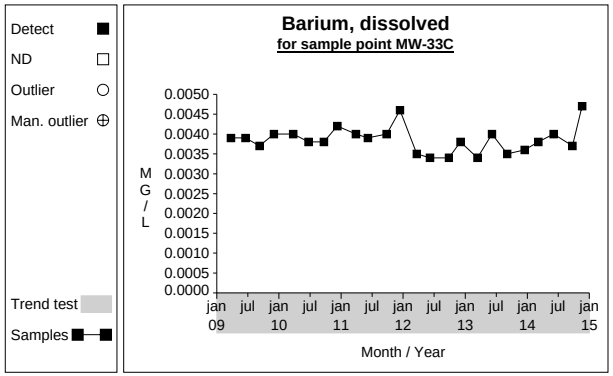
Graph 120



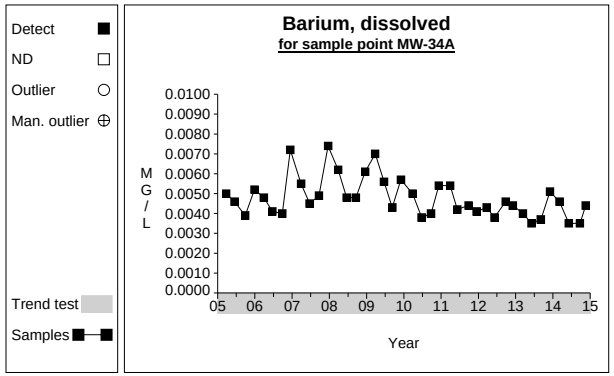
Graph 121



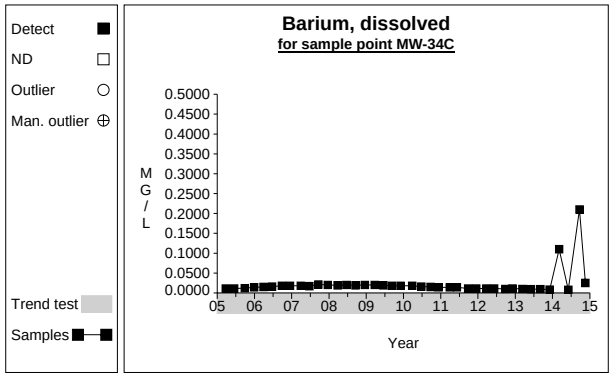
Graph 122



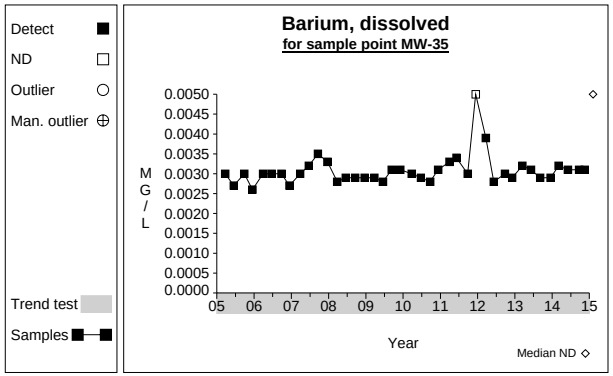
Graph 123



Graph 124

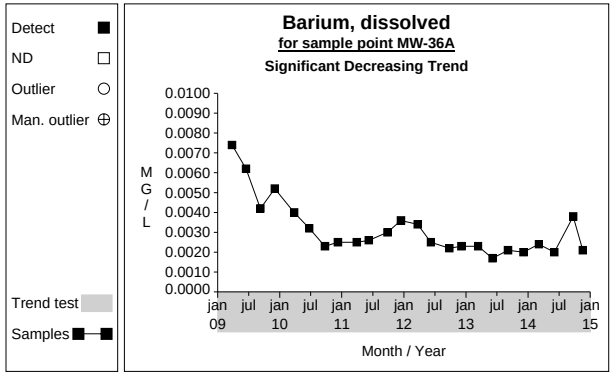


Graph 125

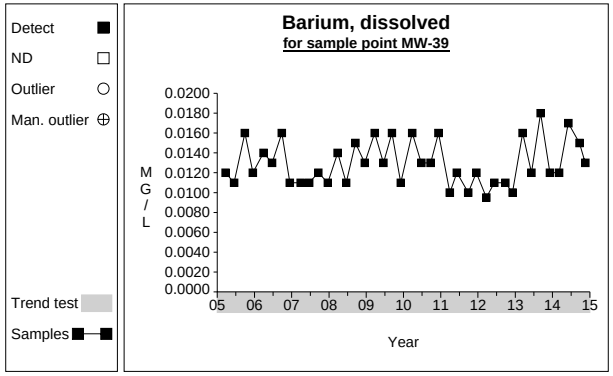


Graph 126

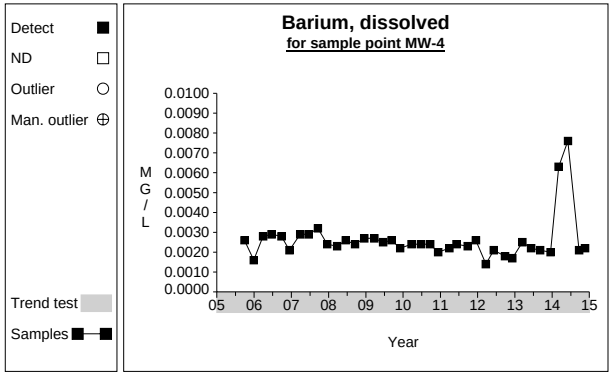
Time Series



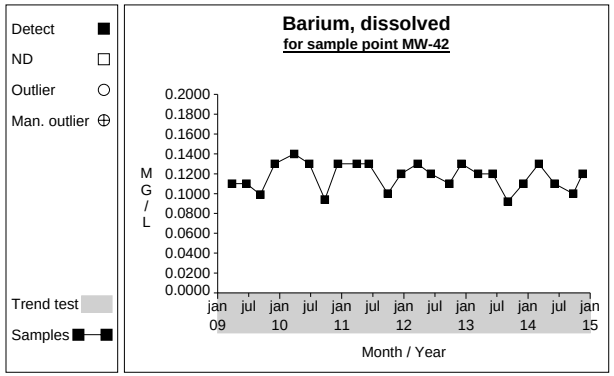
Graph 127



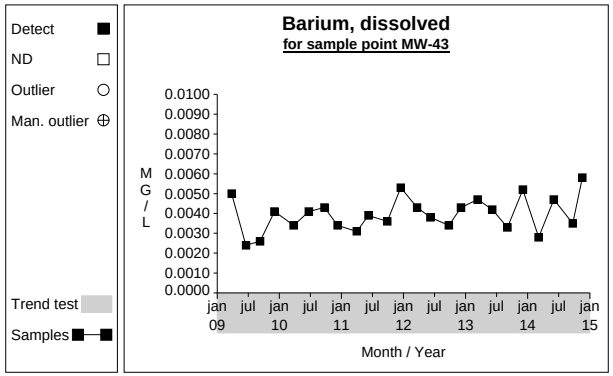
Graph 128



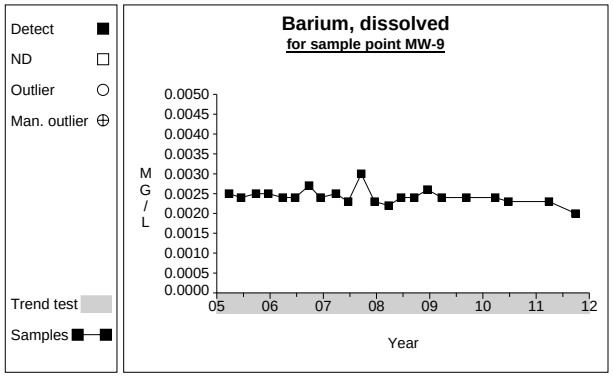
Graph 129



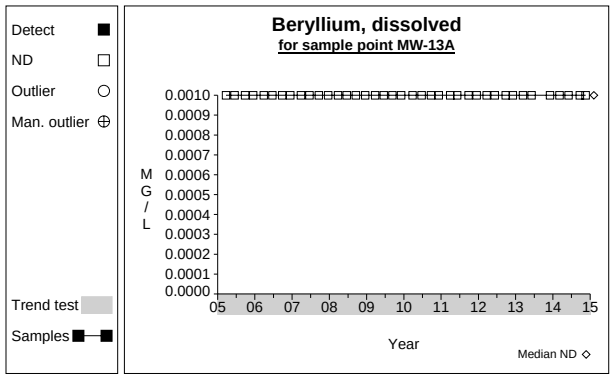
Graph 130



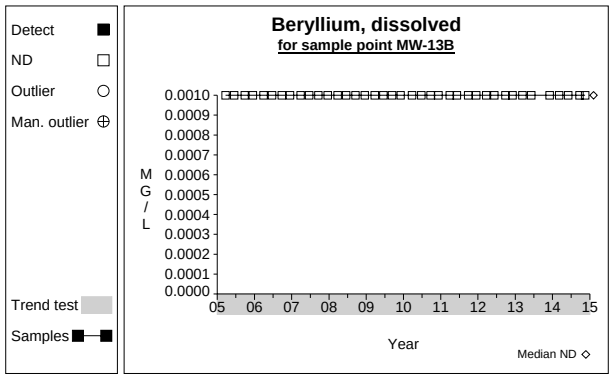
Graph 131



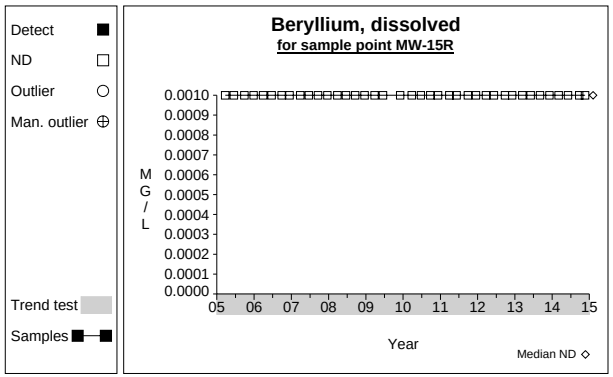
Graph 132



Graph 133

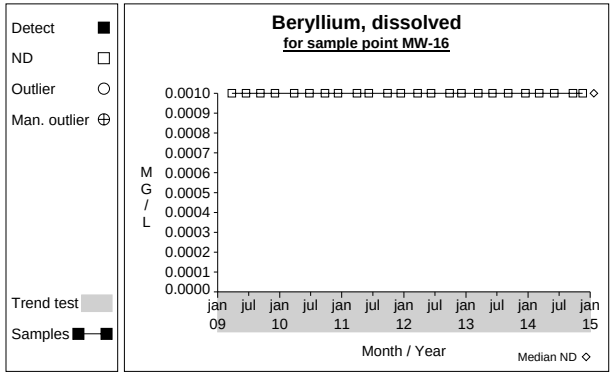


Graph 134

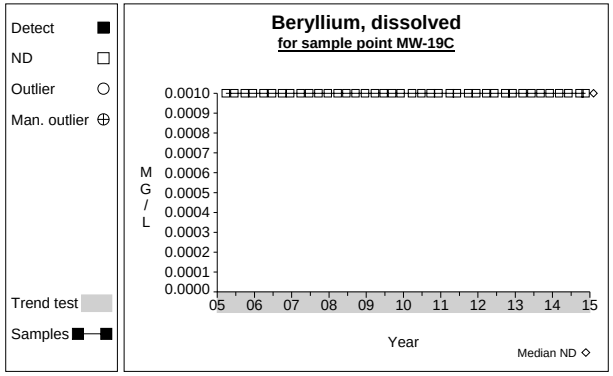


Graph 135

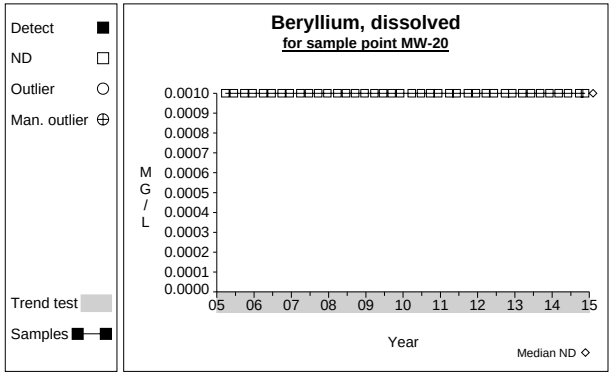
Time Series



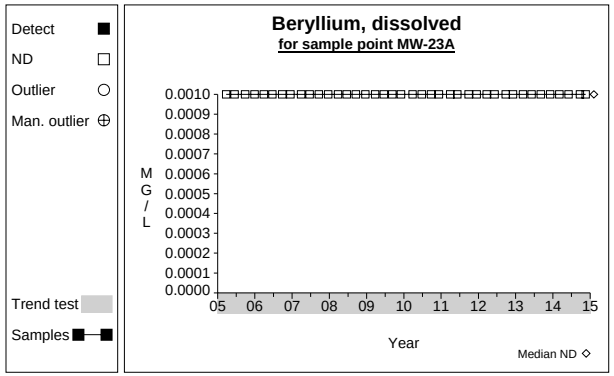
Graph 136



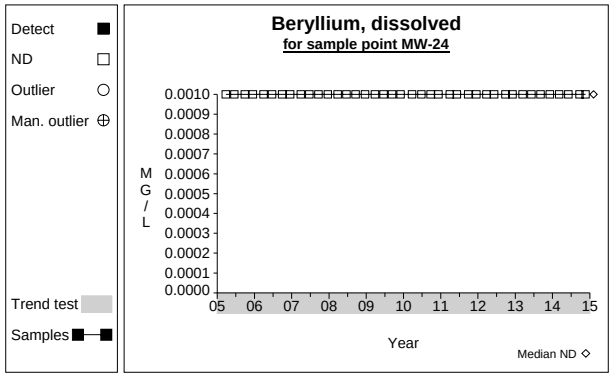
Graph 137



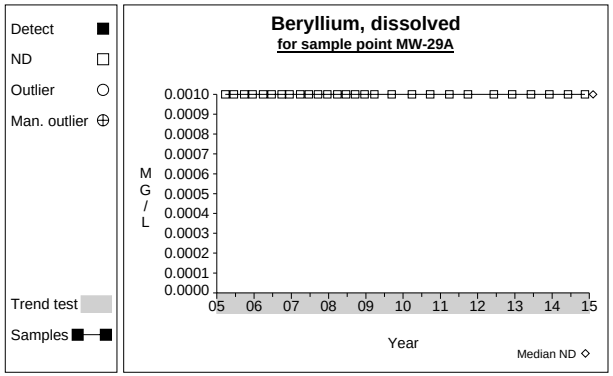
Graph 138



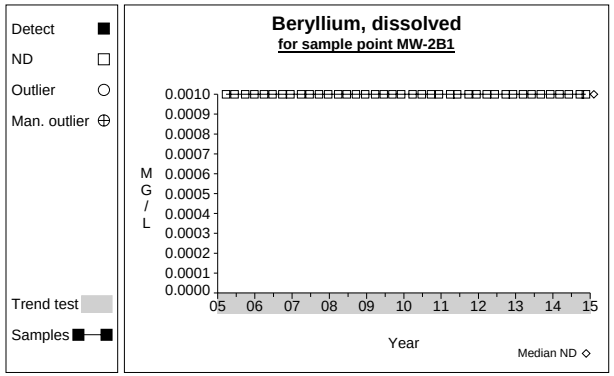
Graph 139



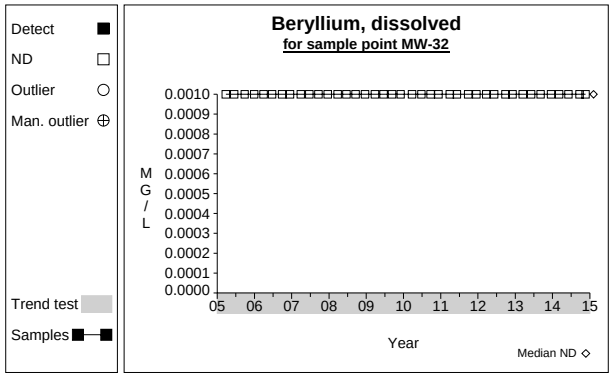
Graph 140



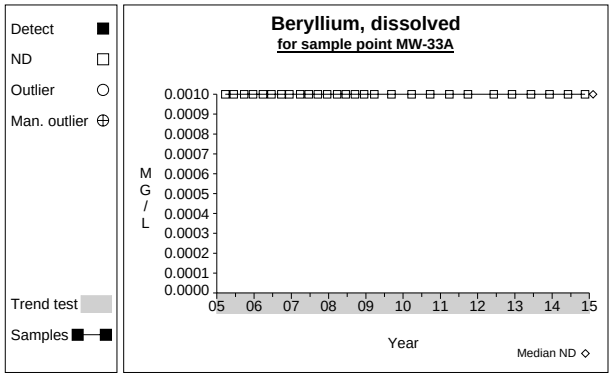
Graph 141



Graph 142

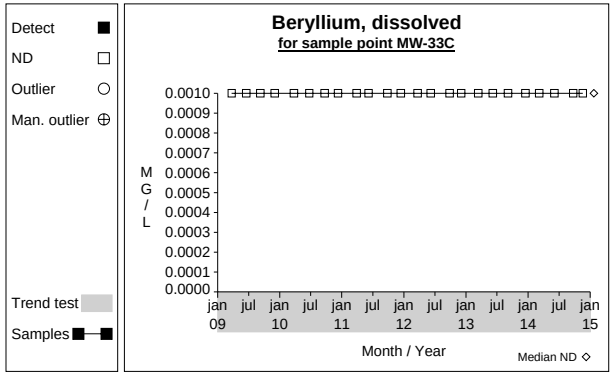


Graph 143

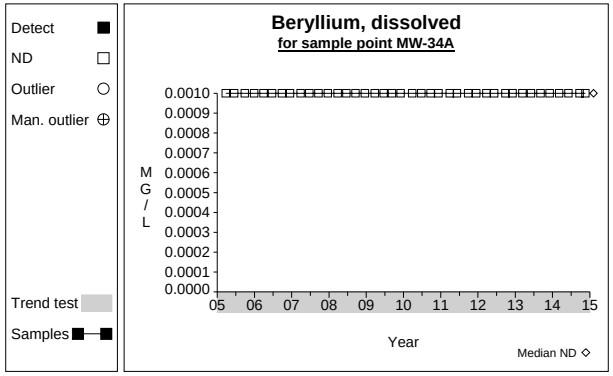


Graph 144

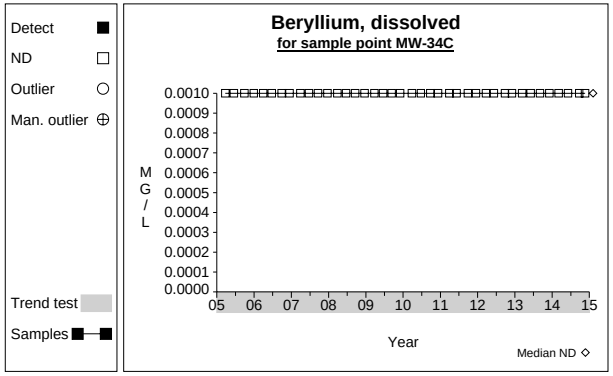
Time Series



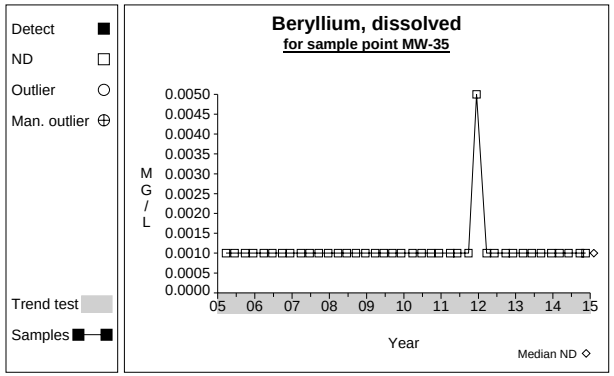
Graph 145



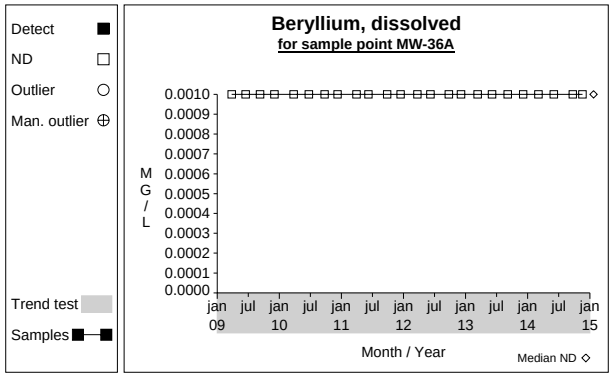
Graph 146



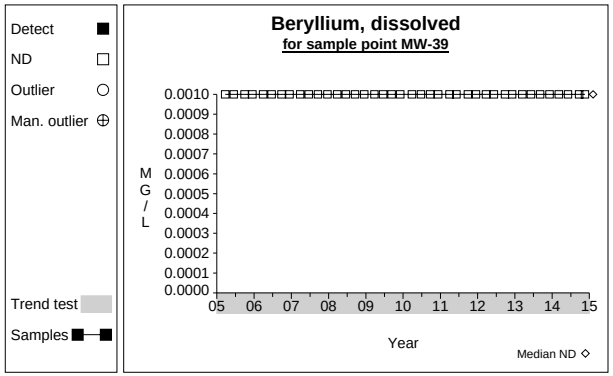
Graph 147



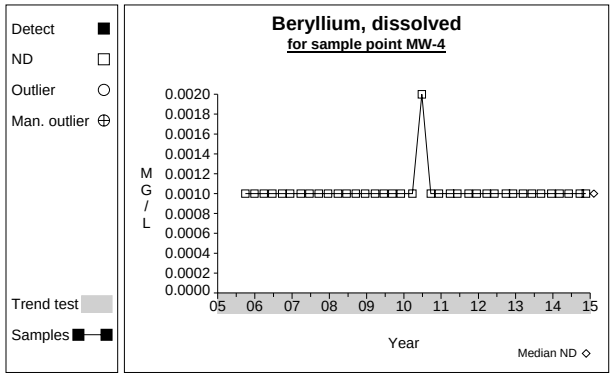
Graph 148



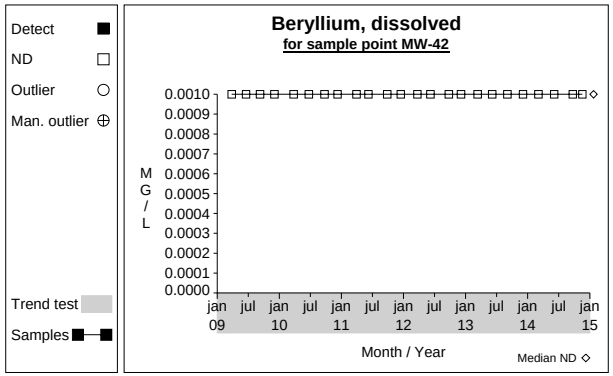
Graph 149



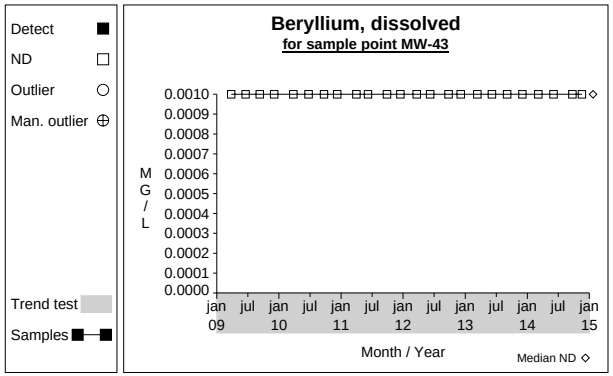
Graph 150



Graph 151

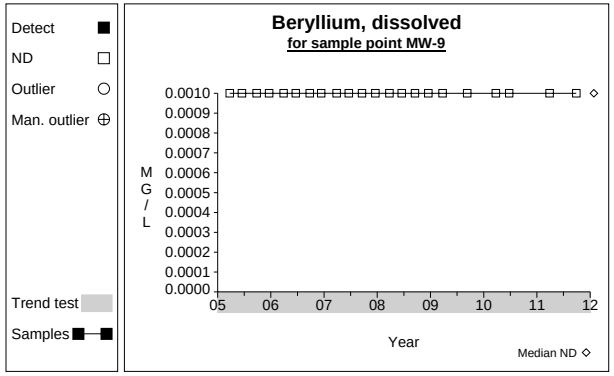


Graph 152

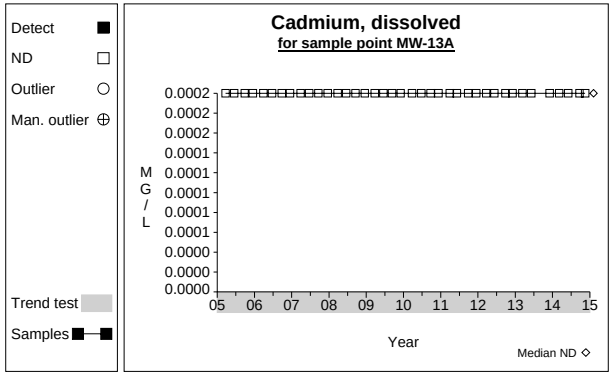


Graph 153

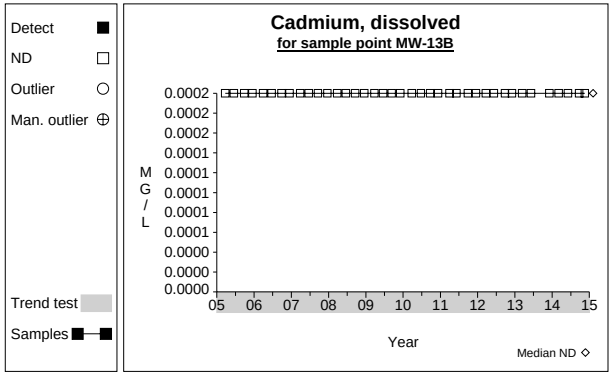
Time Series



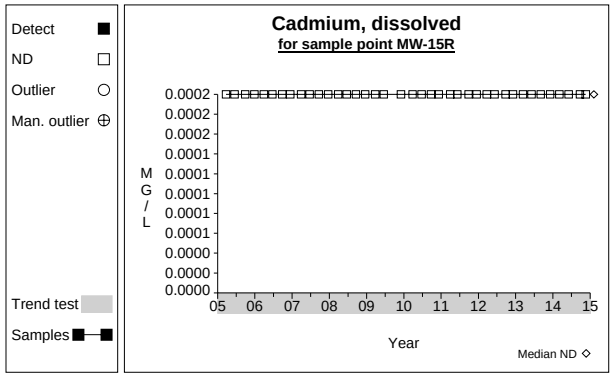
Graph 154



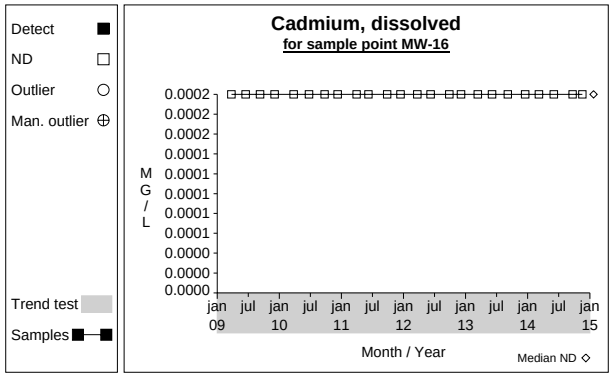
Graph 155



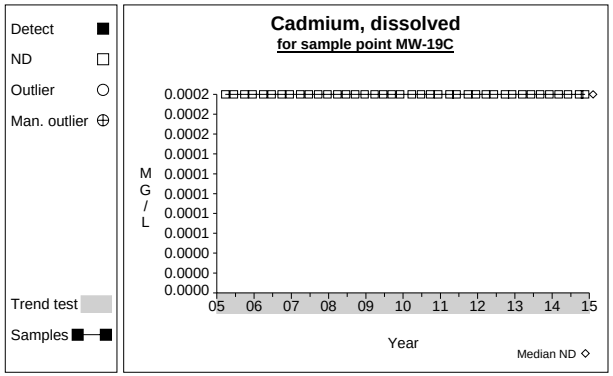
Graph 156



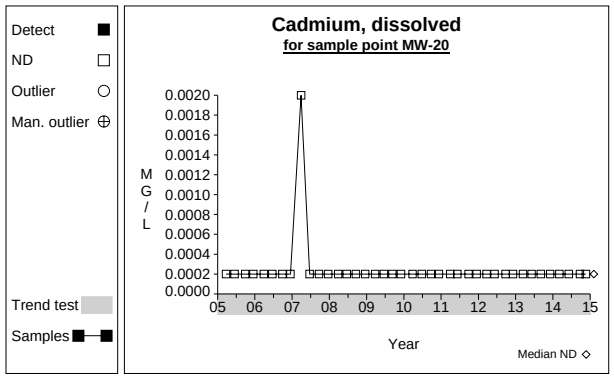
Graph 157



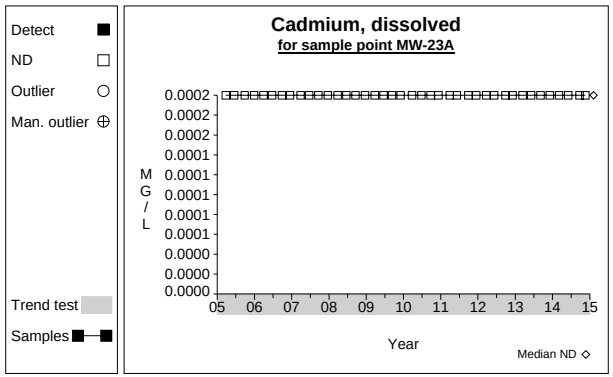
Graph 158



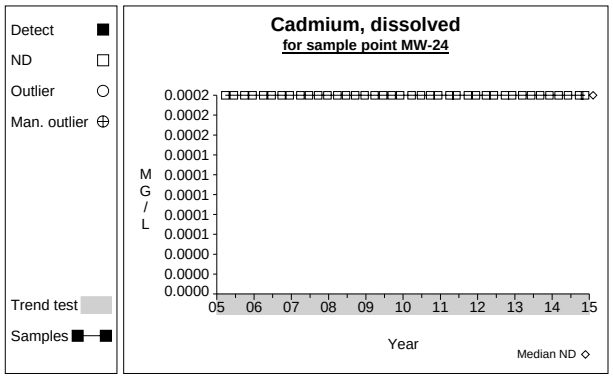
Graph 159



Graph 160

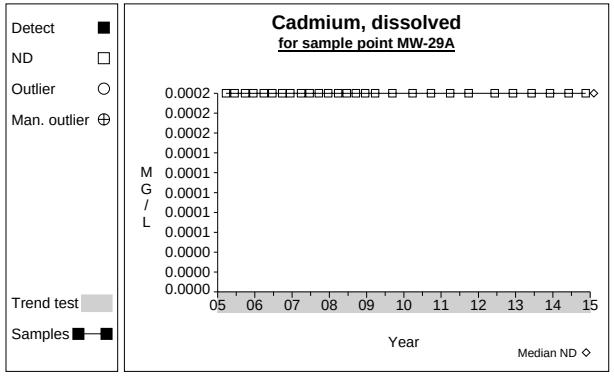


Graph 161

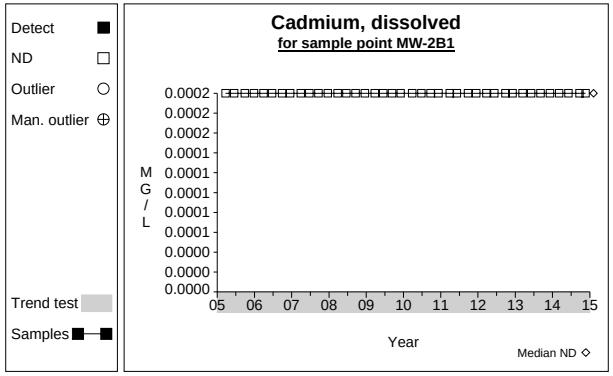


Graph 162

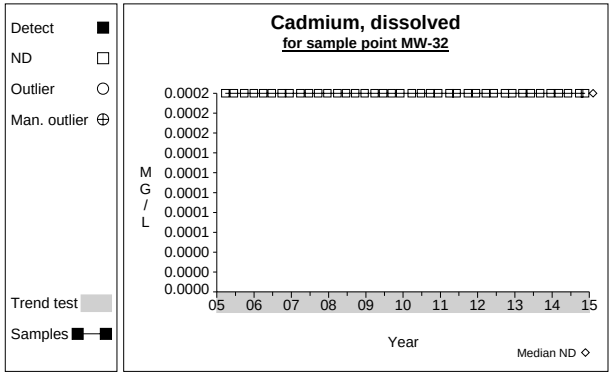
Time Series



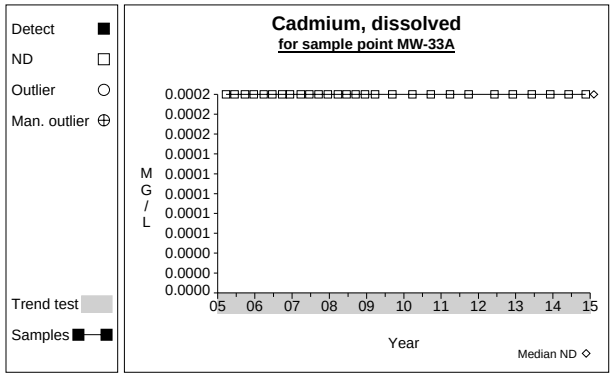
Graph 163



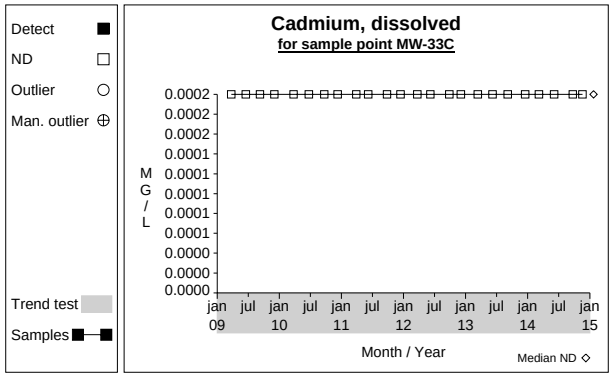
Graph 164



Graph 165



Graph 166



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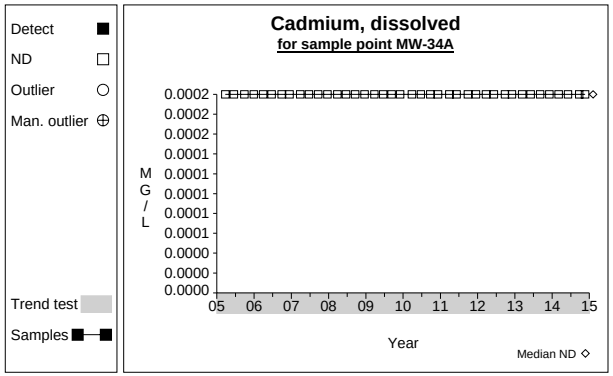
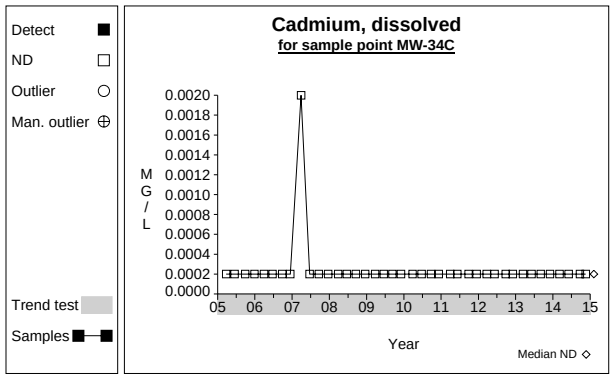
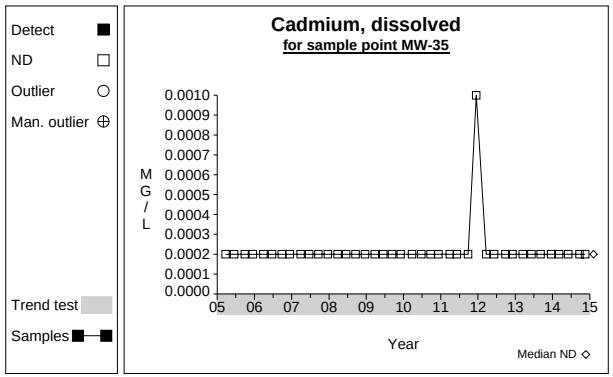


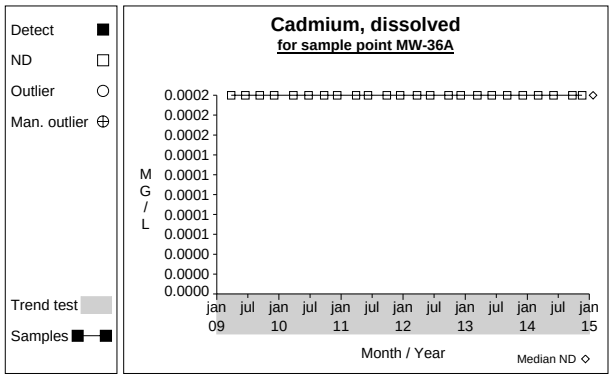
Graph 168



Graph 169

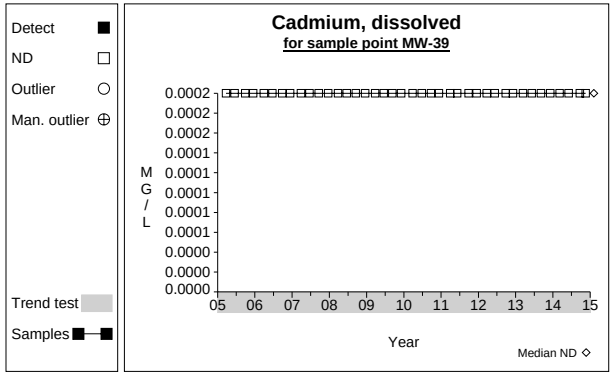


Graph 170

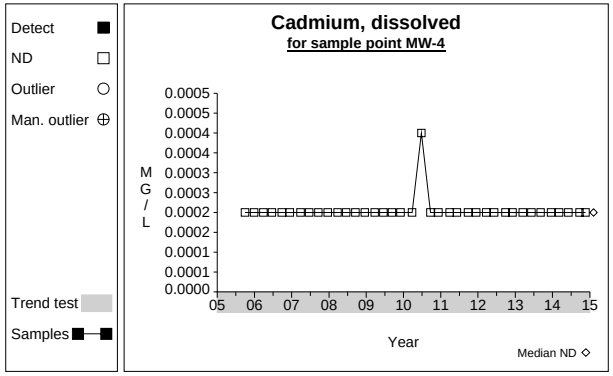


Graph 171

Time Series



Graph 172



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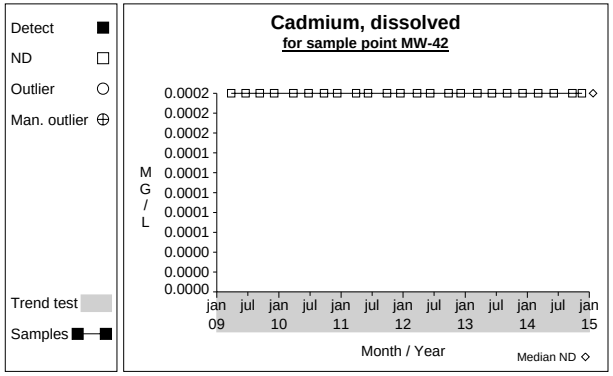
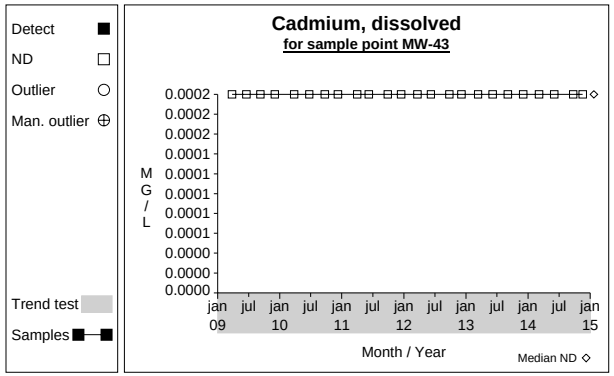
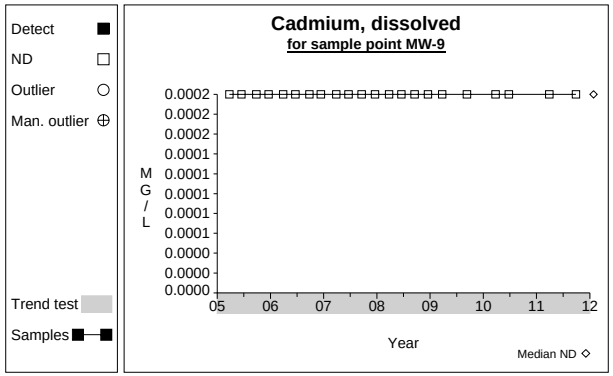


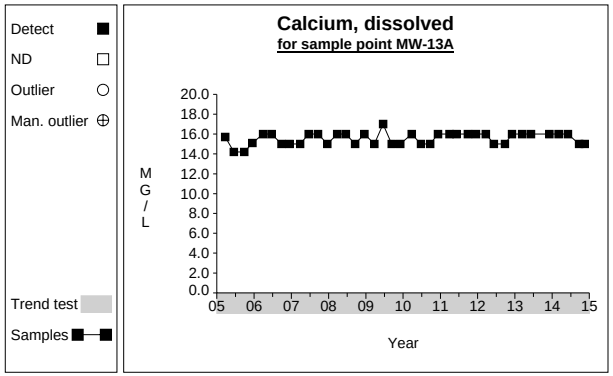
Graph 174



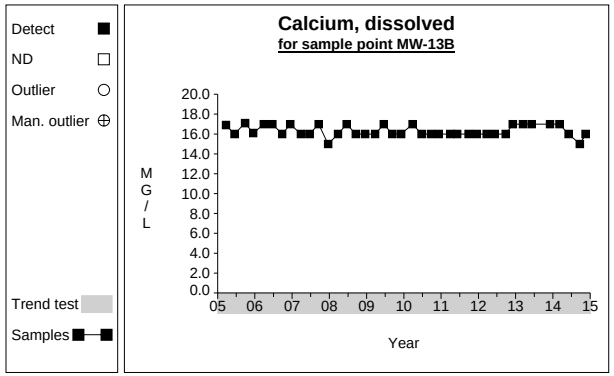
Graph 175



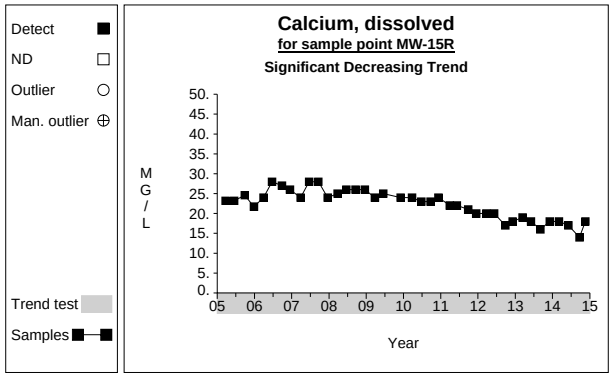
Graph 176



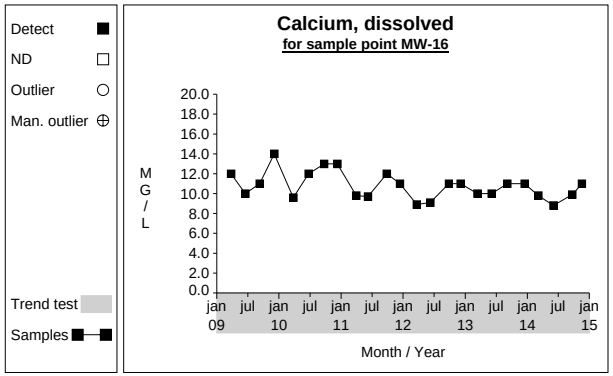
Graph 177



Graph 178

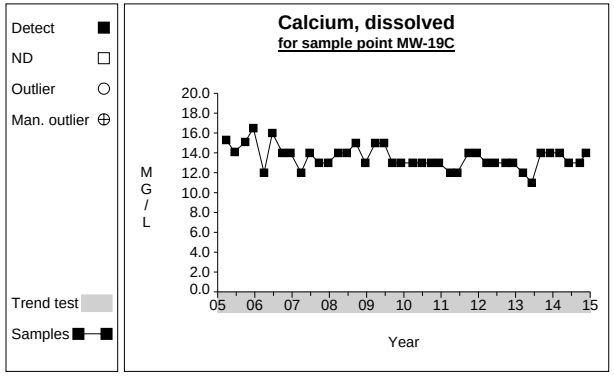


Graph 179



Graph 180

Time Series



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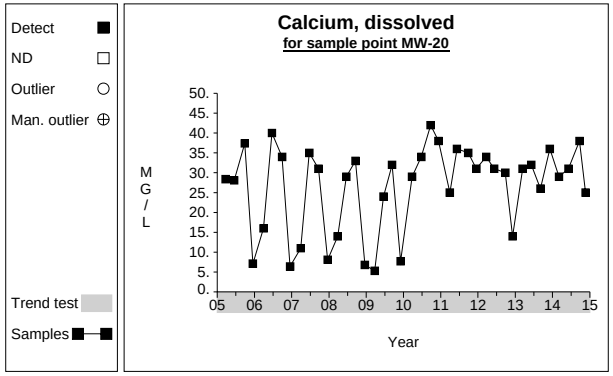

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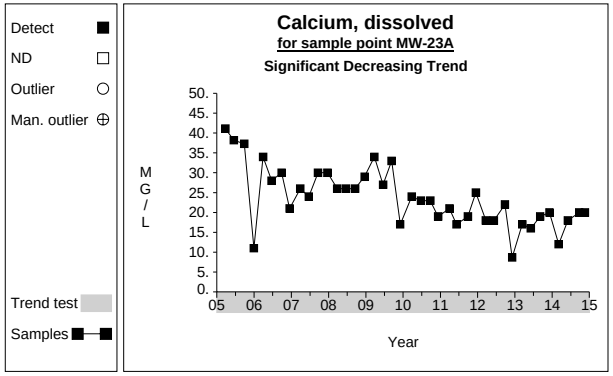

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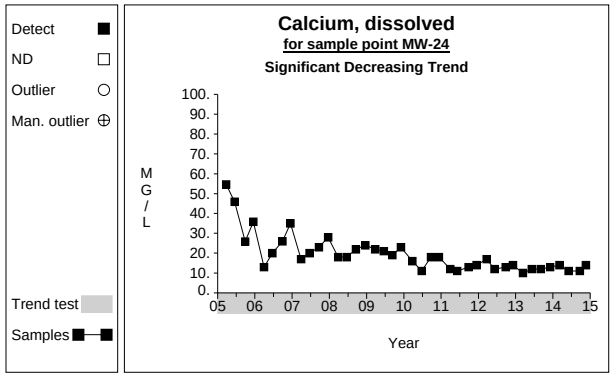
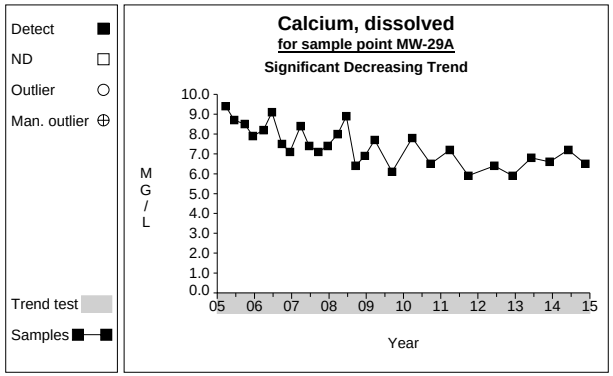


Graph 184



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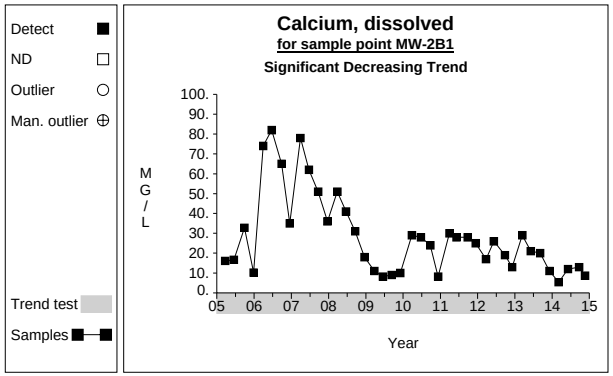

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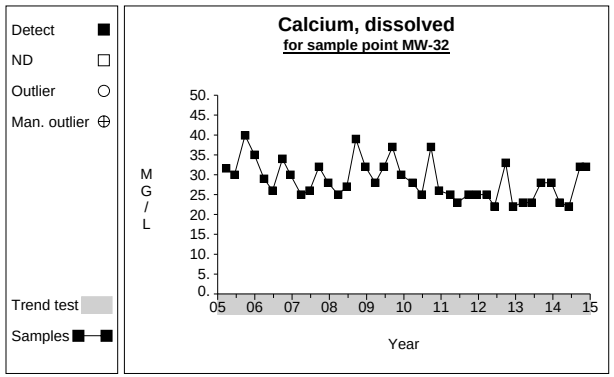
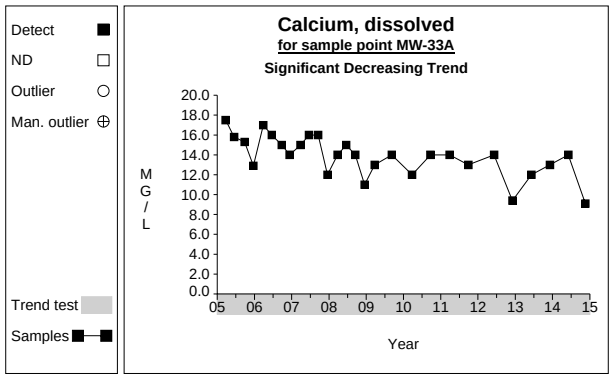
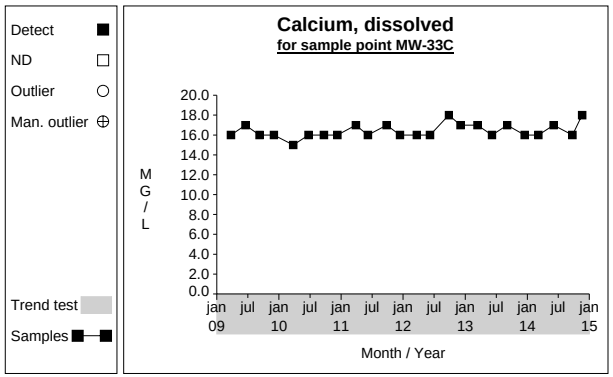


Graph 187

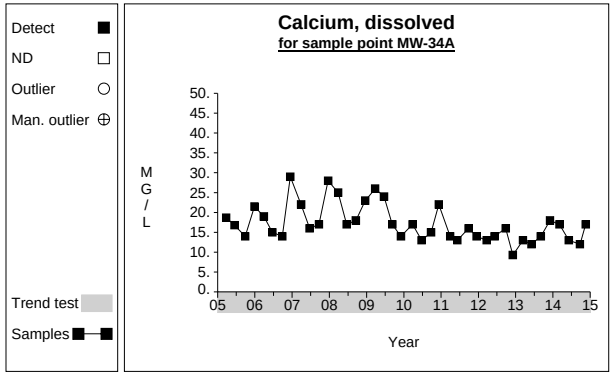


Graph 188

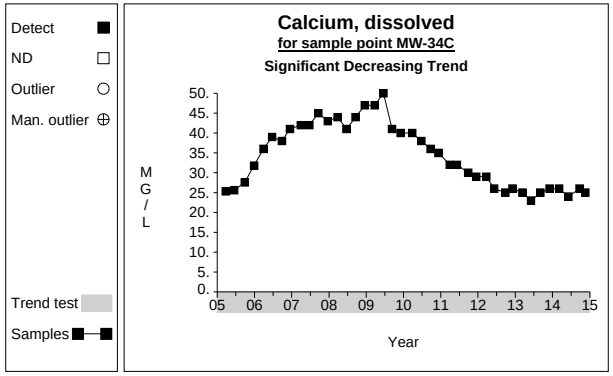


Graph 189

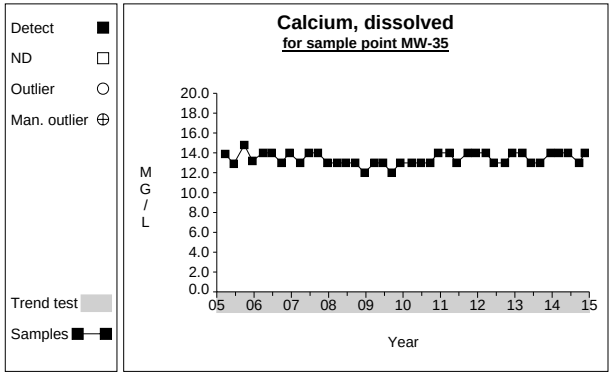
Time Series



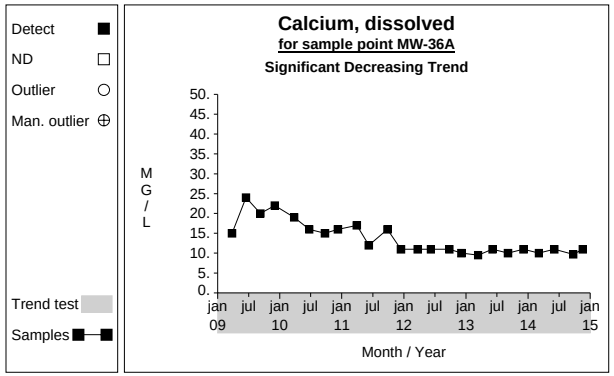
Graph 190



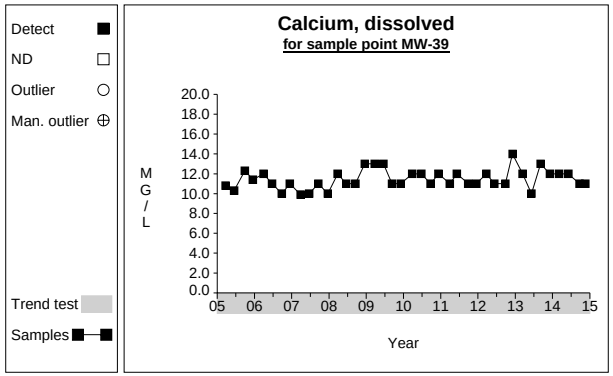
Graph 191



Graph 192



Graph 193



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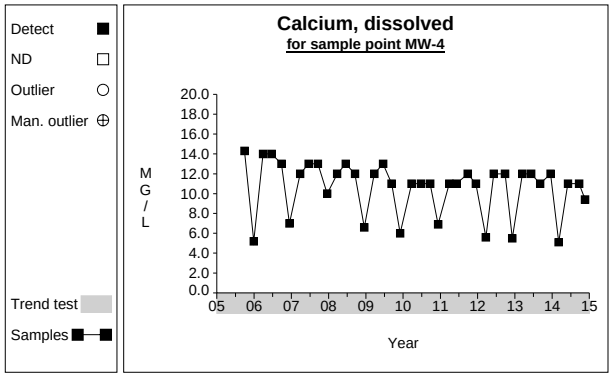

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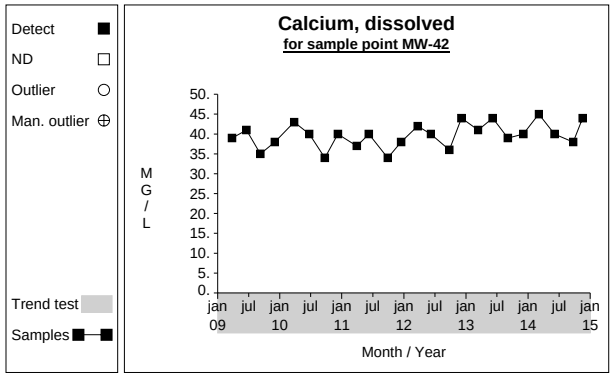
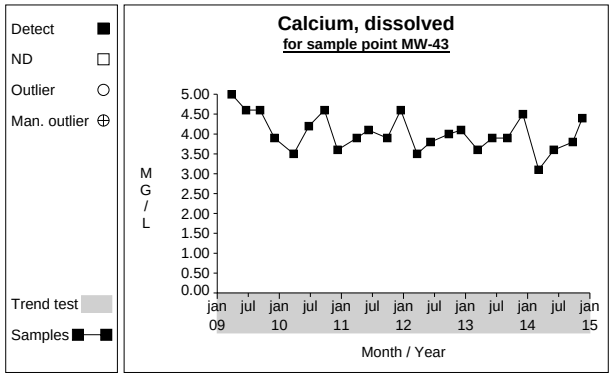
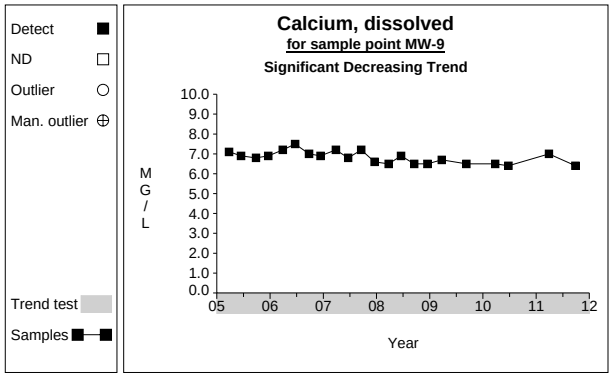


Graph 196

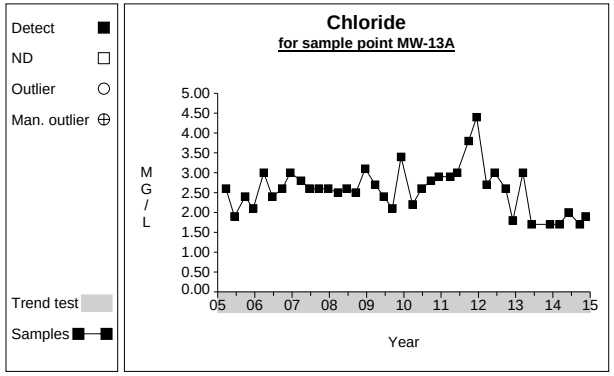


Graph 197

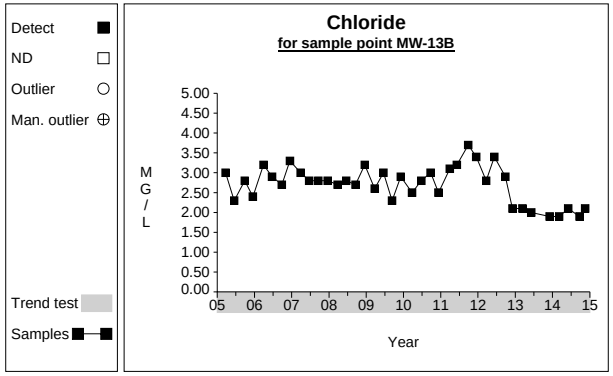


Graph 198

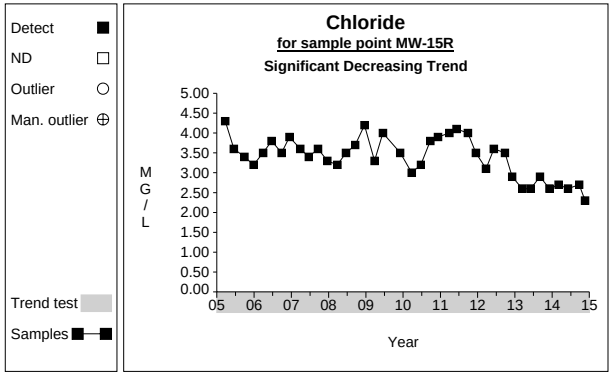
Time Series



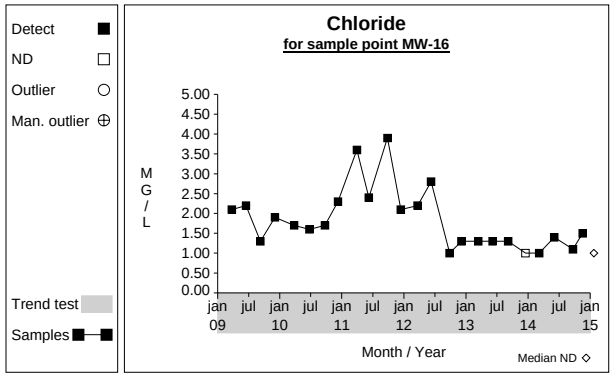
Graph 199



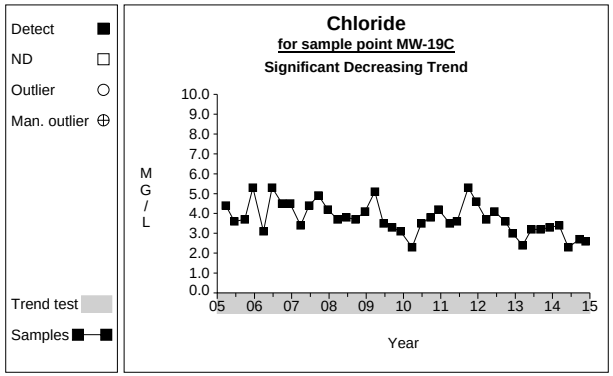
Graph 200



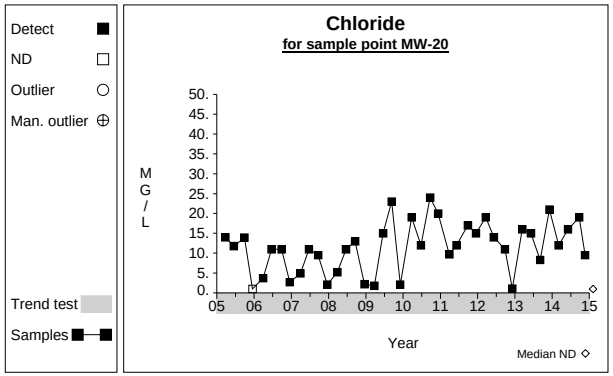
Graph 201



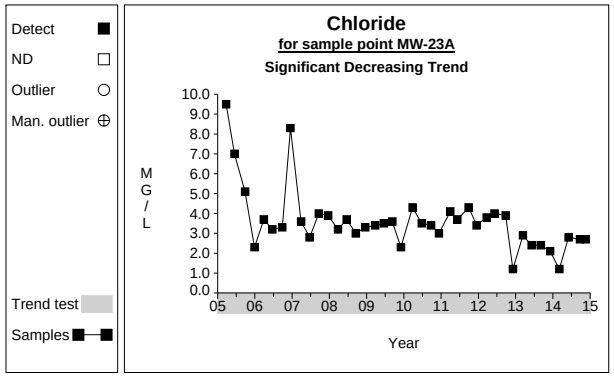
Graph 202



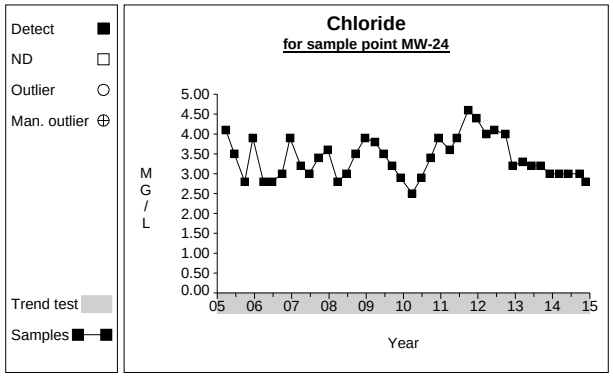
Graph 203



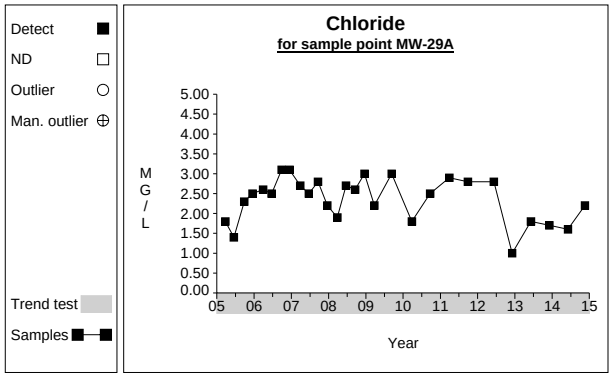
Graph 204



Graph 205

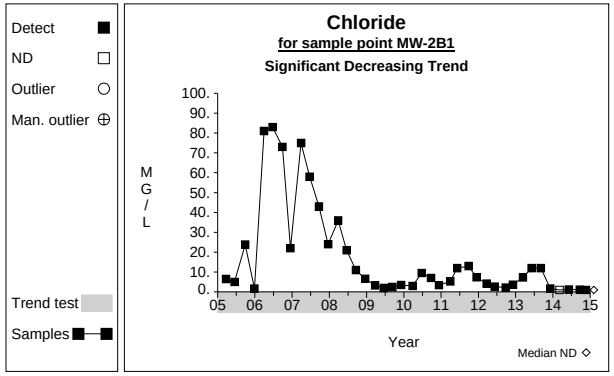


Graph 206

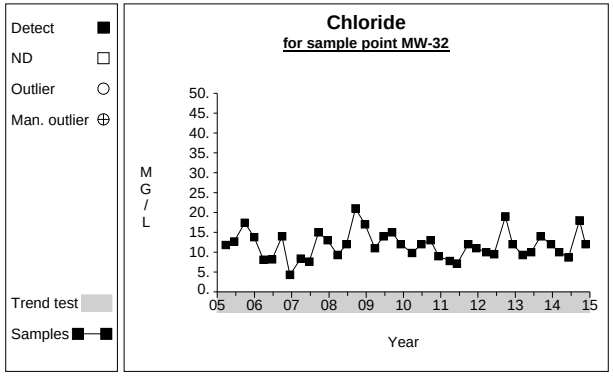


Graph 207

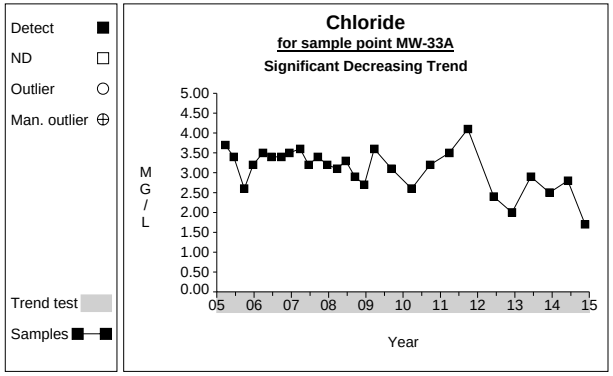
Time Series



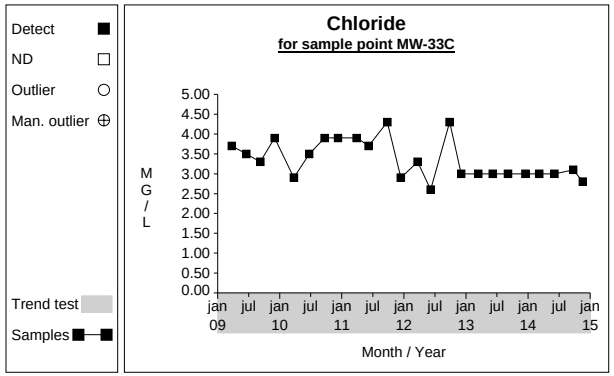
Graph 208



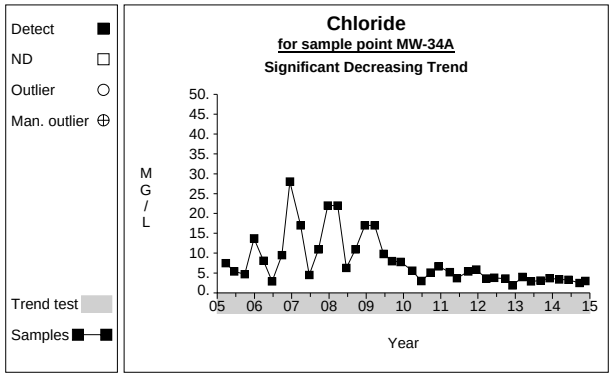
Graph 209



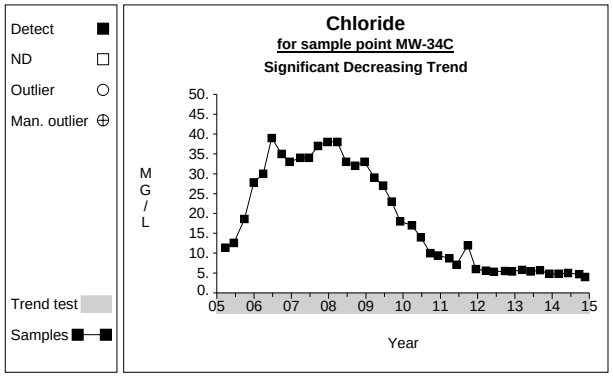
Graph 210



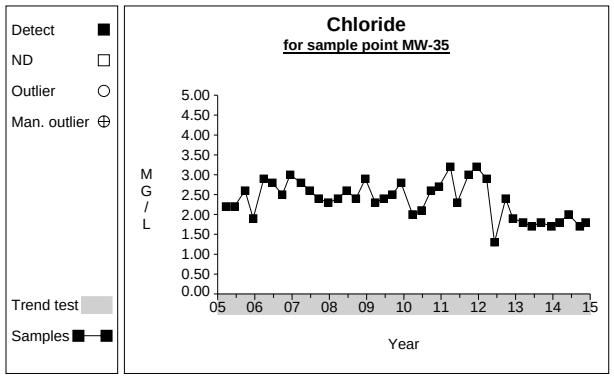
Graph 211



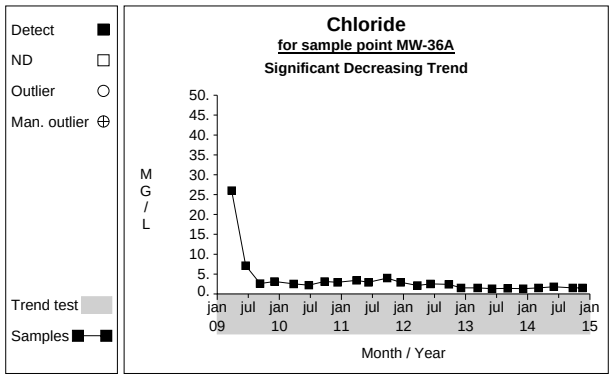
Graph 212



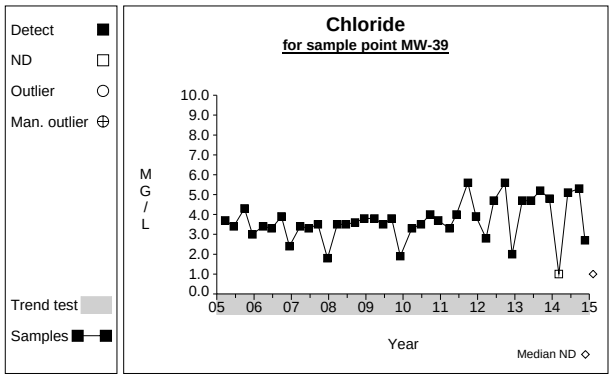
Graph 213



Graph 214

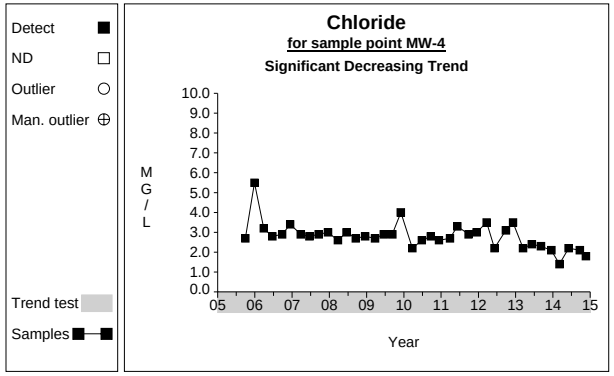


Graph 215

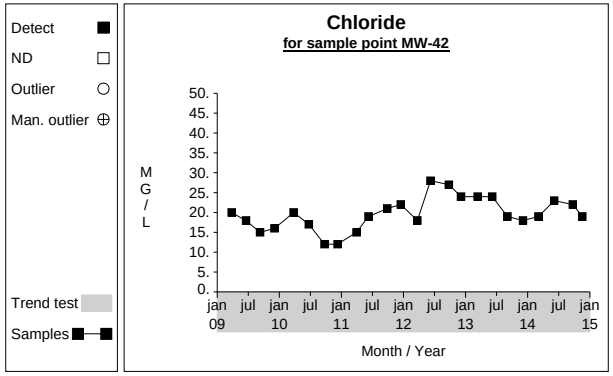


Graph 216

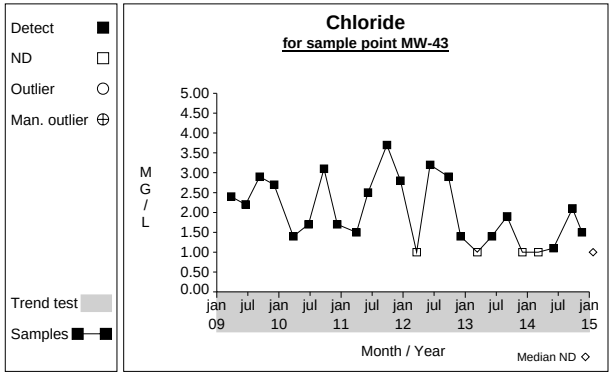
Time Series



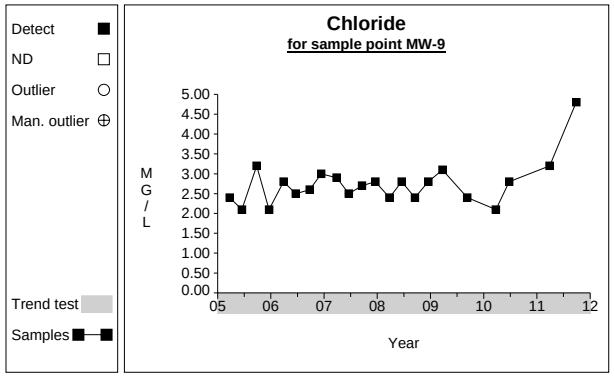
Graph 217



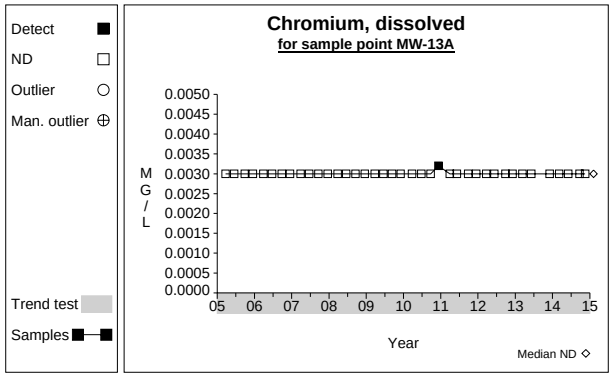
Graph 218



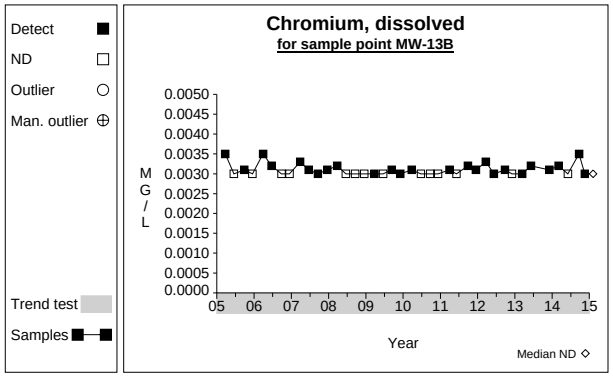
Graph 219



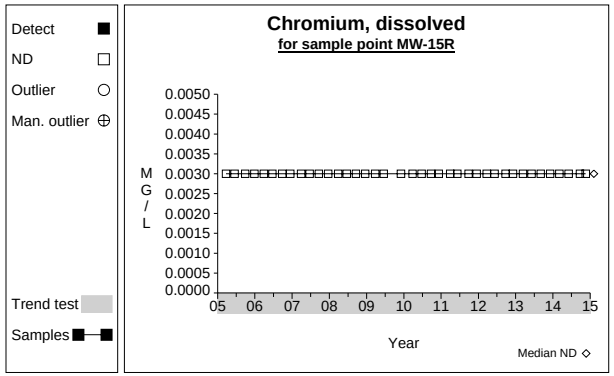
Graph 220



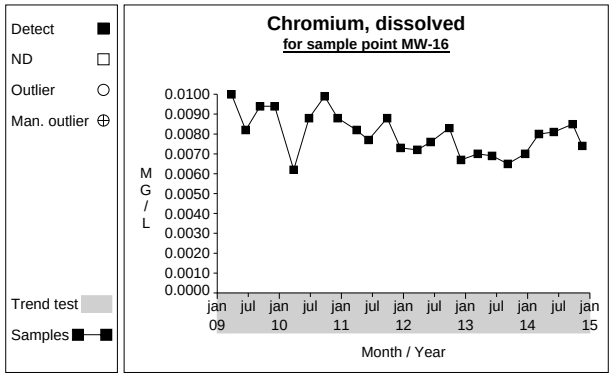
Graph 221



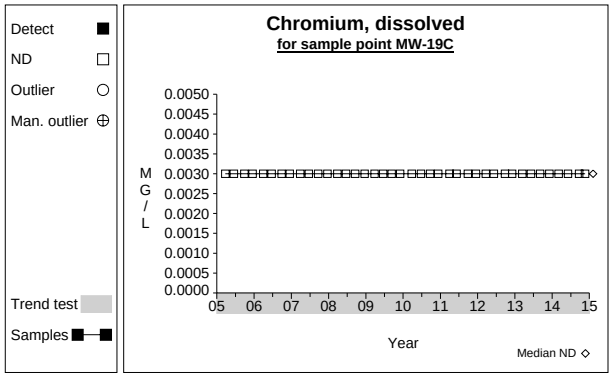
Graph 222



Graph 223

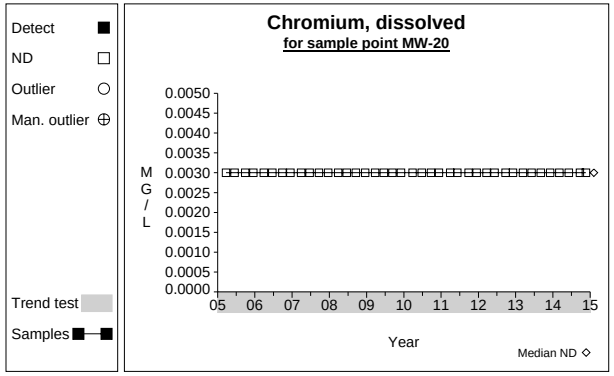


Graph 224

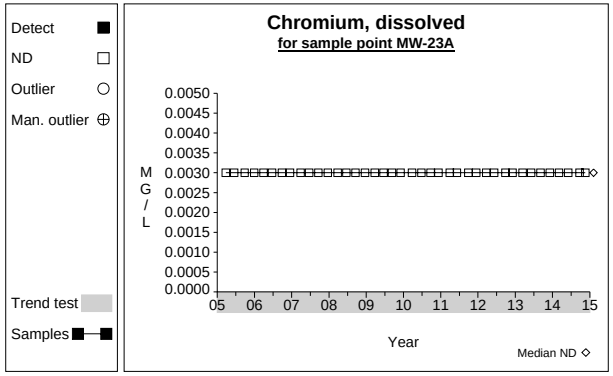


Graph 225

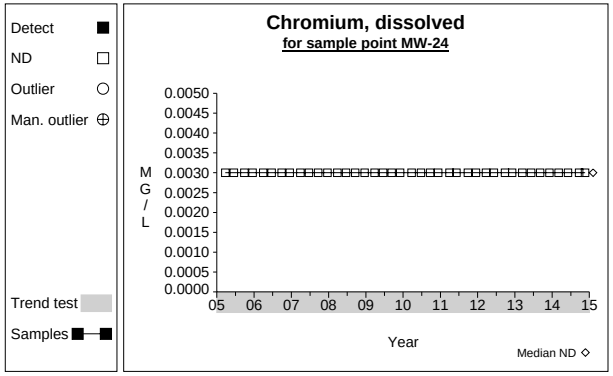
Time Series



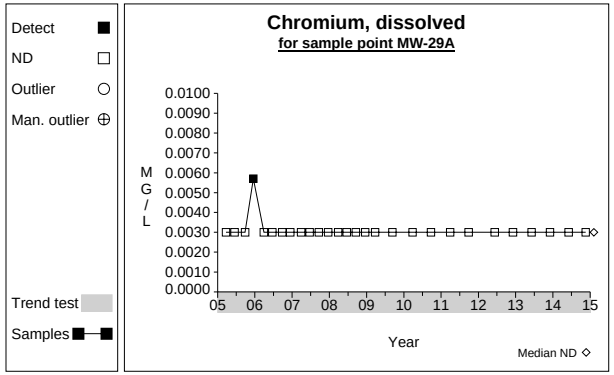
Graph 226



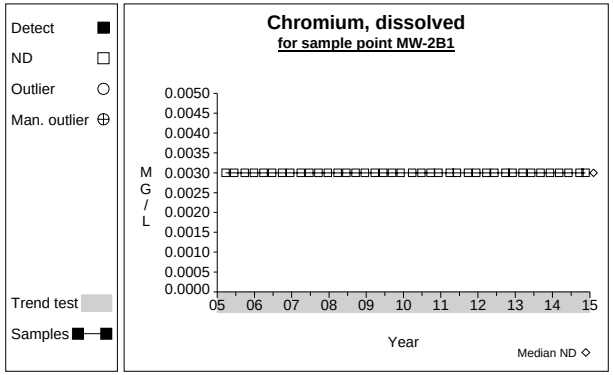
Graph 227



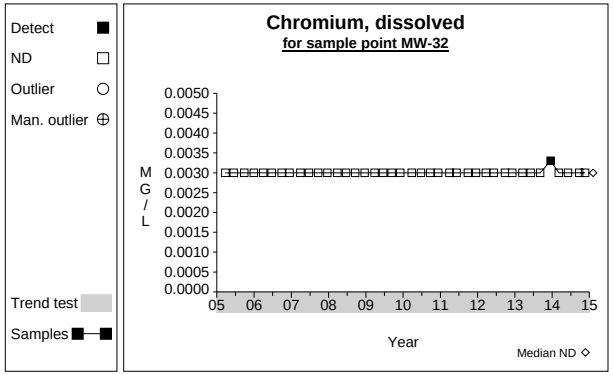
Graph 228



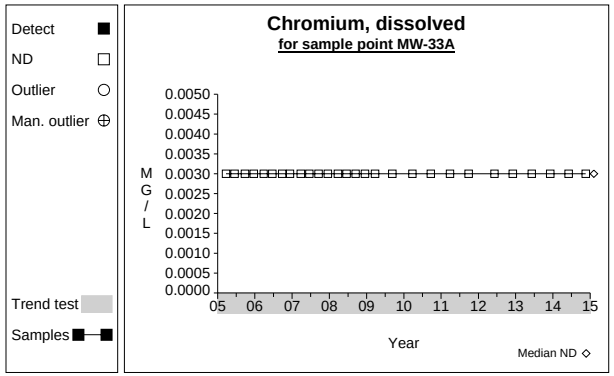
Graph 229



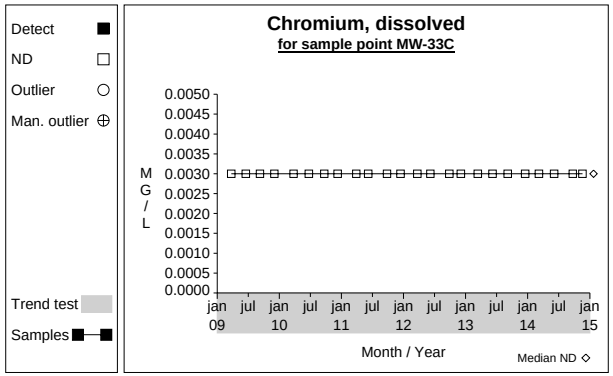
Graph 230



Graph 231



Graph 232



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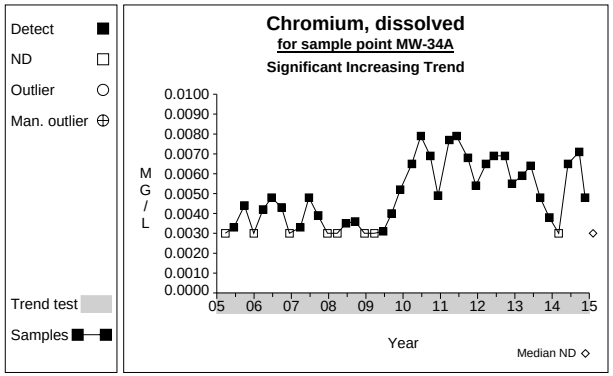
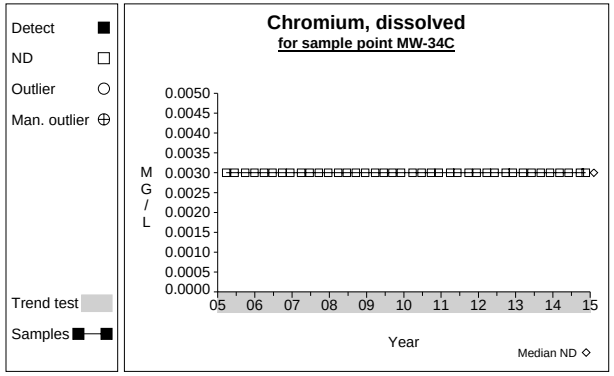
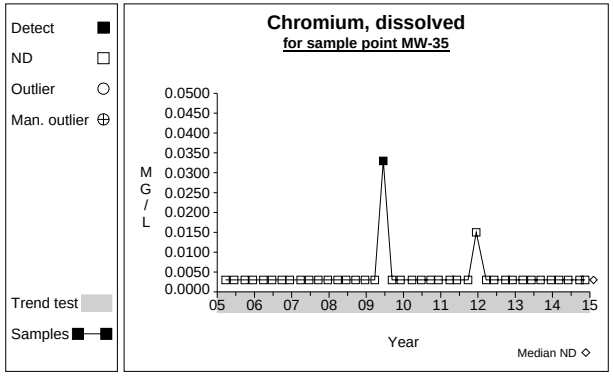


Graph 234

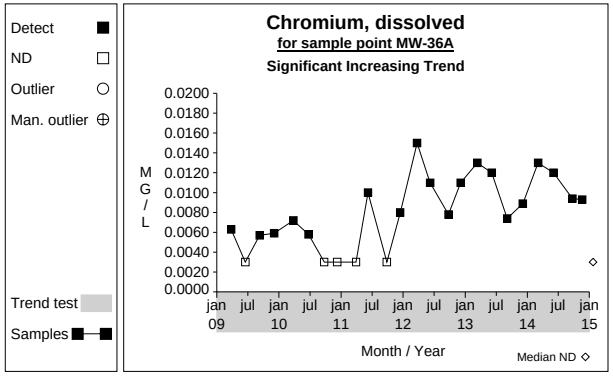
Time Series



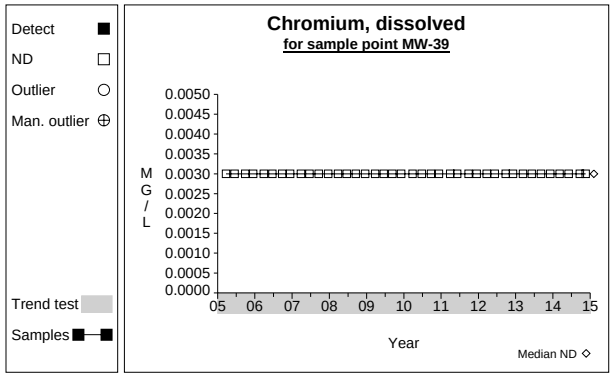
Graph 235



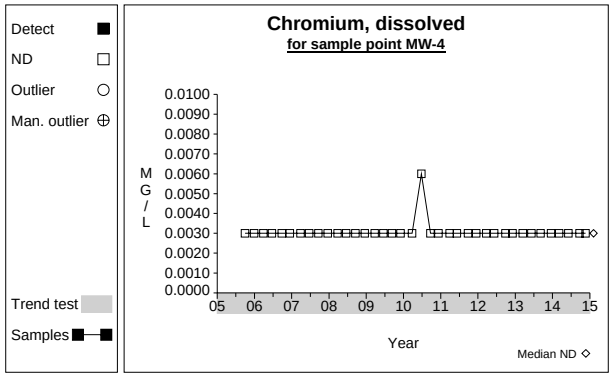
Graph 236



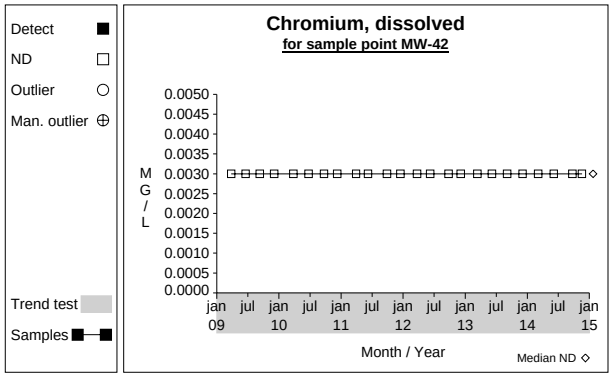
Graph 237



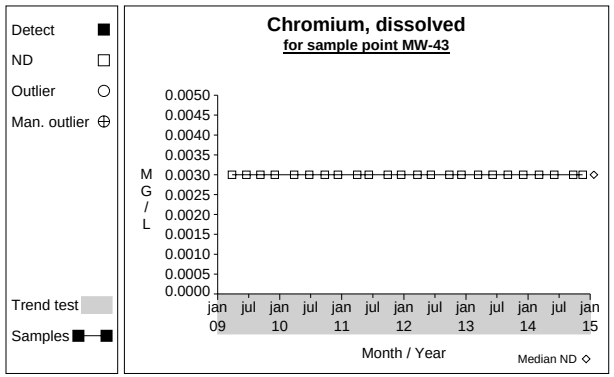
Graph 238



Graph 239



Graph 240



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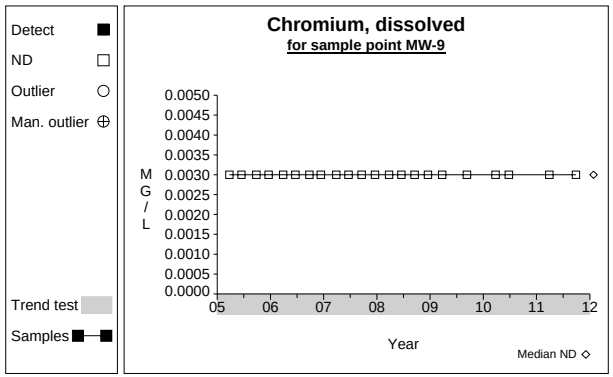
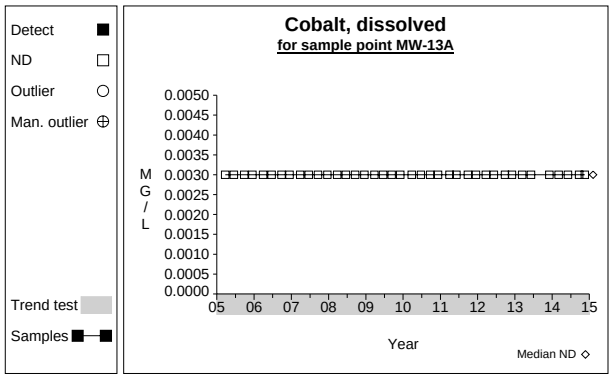
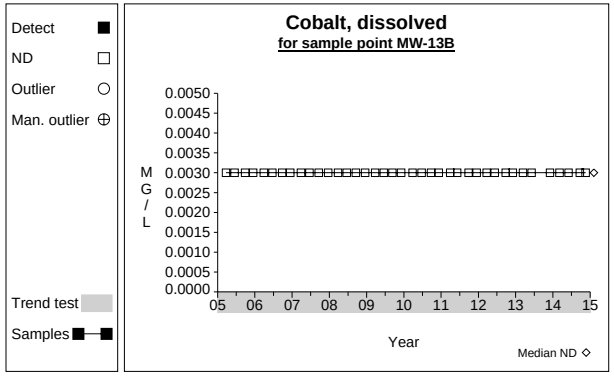


Graph 242

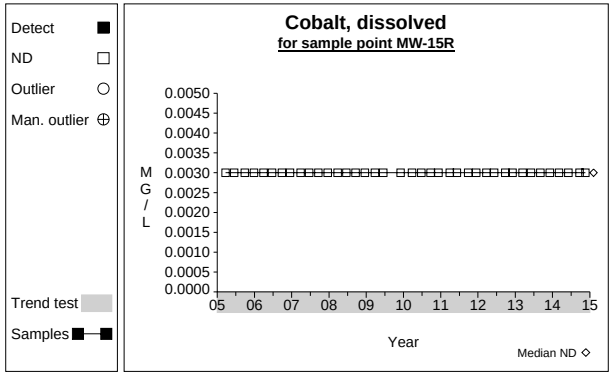


Graph 243

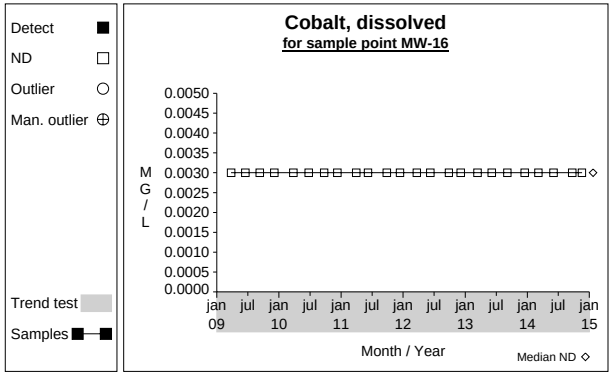
Time Series



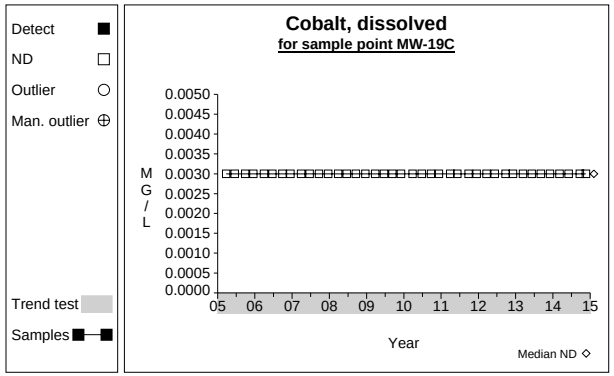
Graph 244



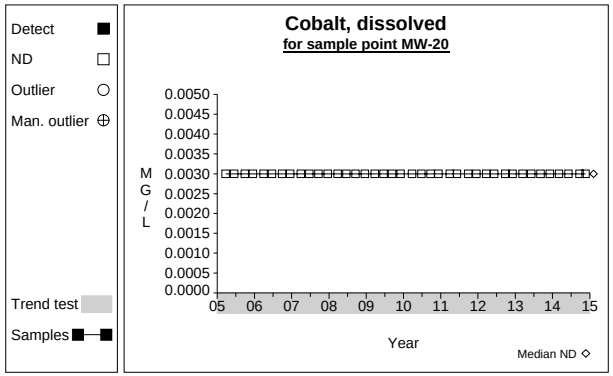
Graph 245



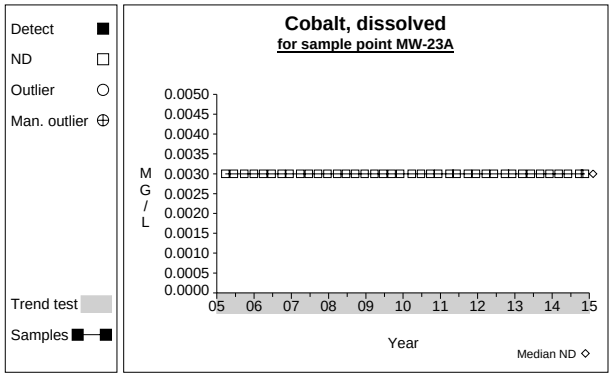
Graph 246



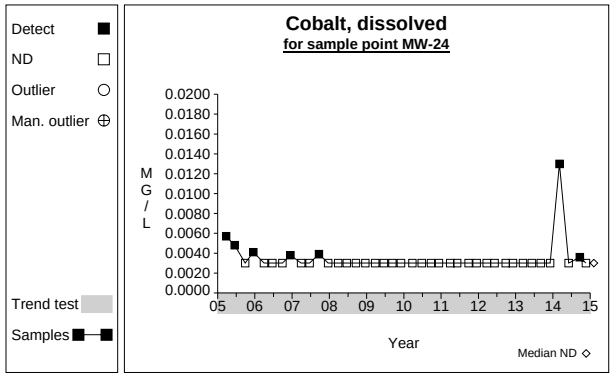
Graph 247



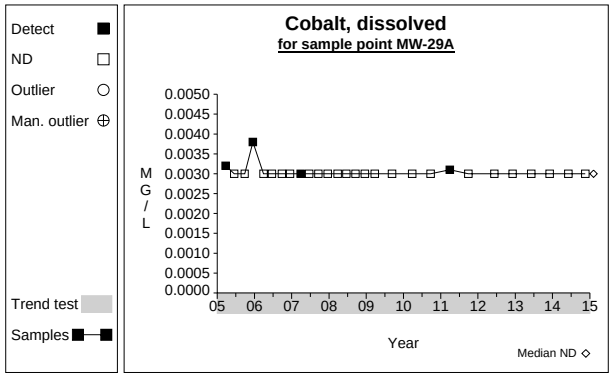
Graph 248



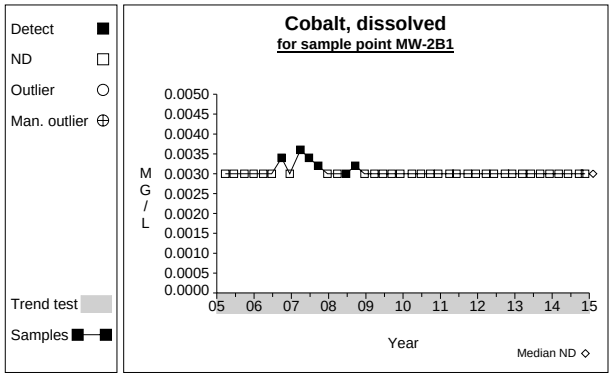
Graph 249



Graph 250

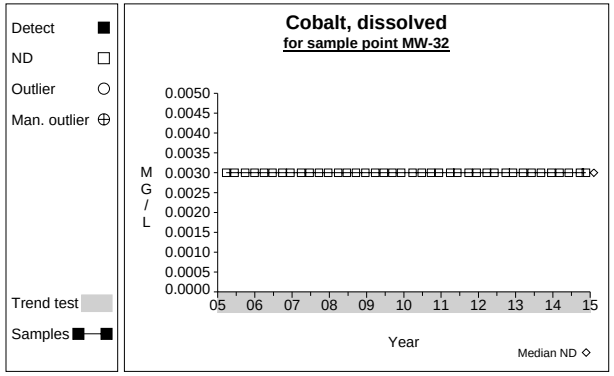


Graph 251

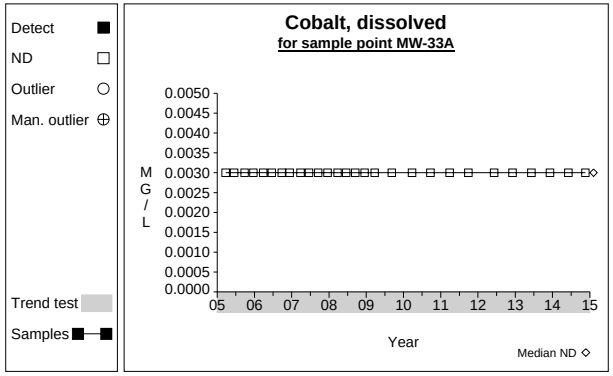


Graph 252

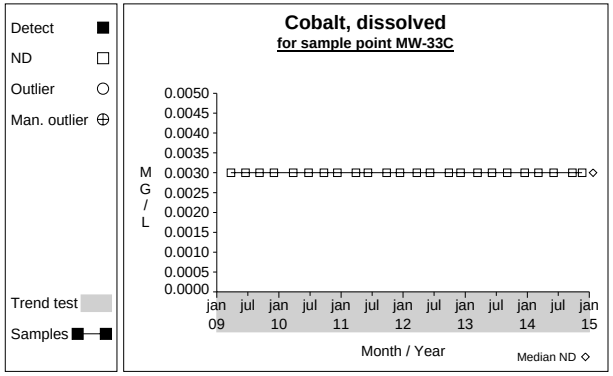
Time Series



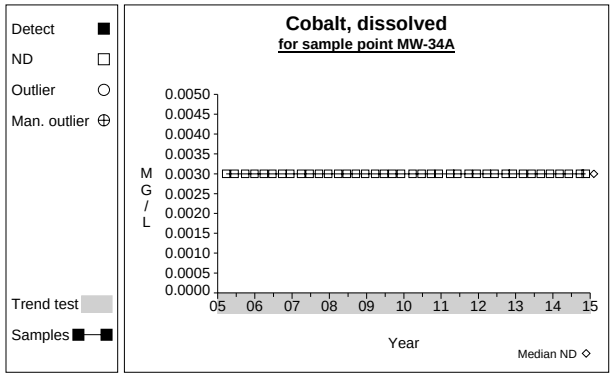
Graph 253



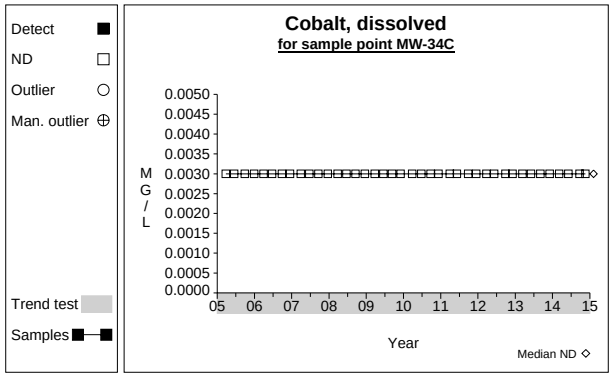
Graph 254



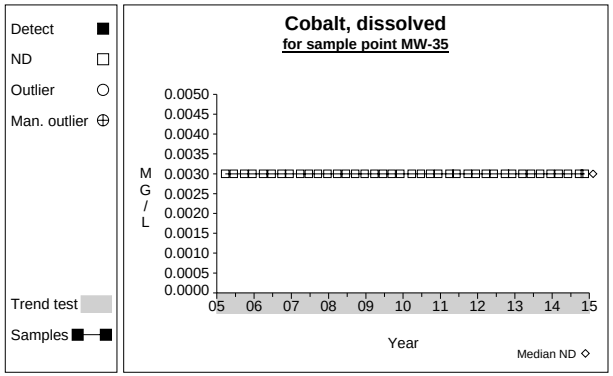
Graph 255



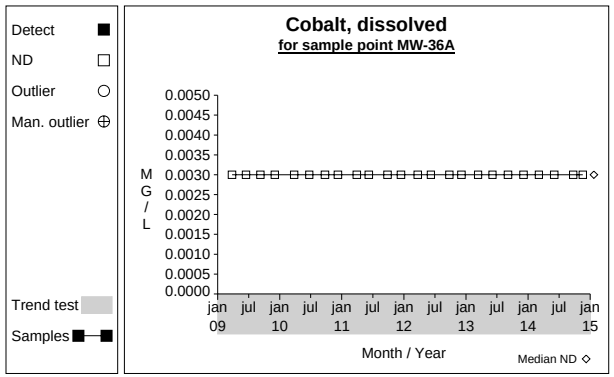
Graph 256



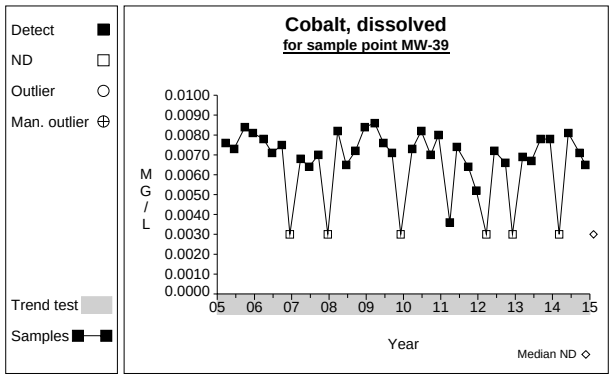
Graph 257



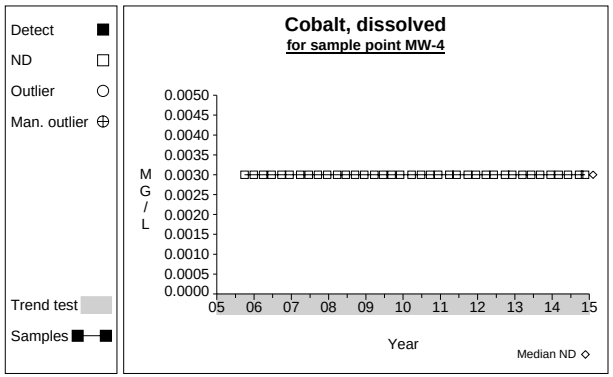
Graph 258



Graph 259

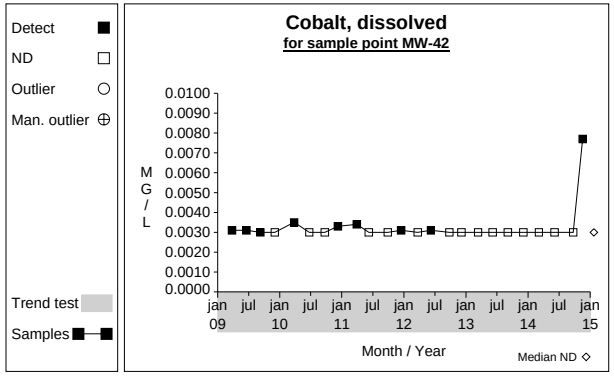


Graph 260

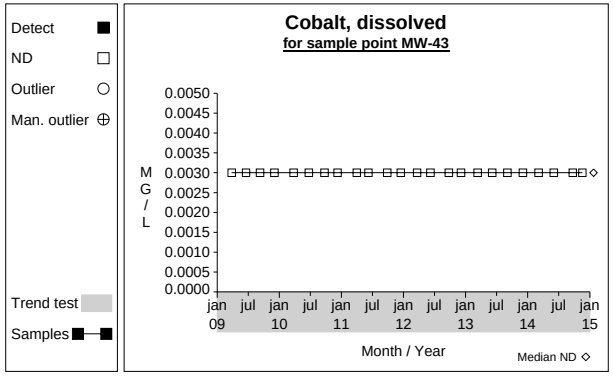


Graph 261

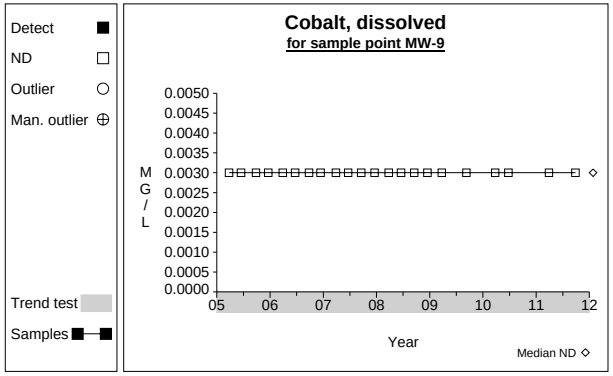
Time Series



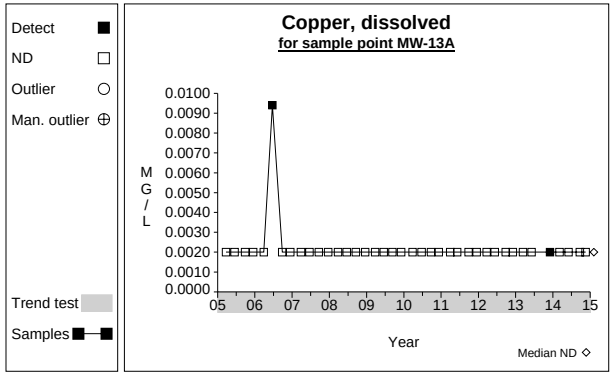
Graph 262



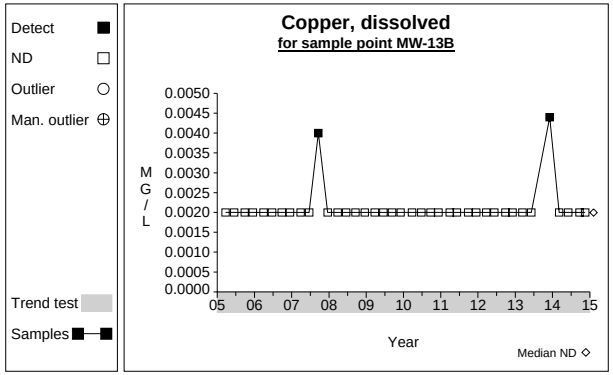
Graph 263



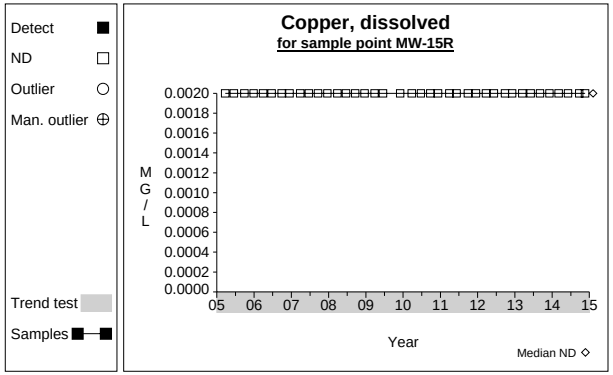
Graph 264



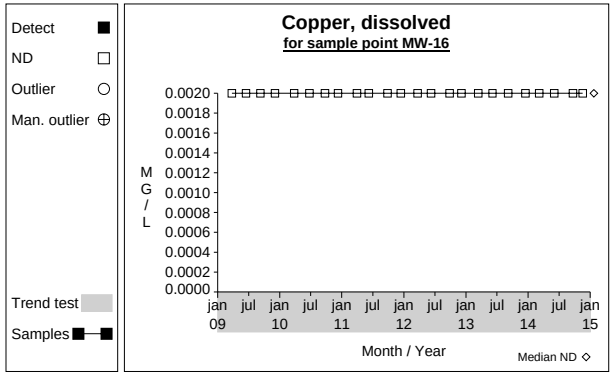
Graph 265



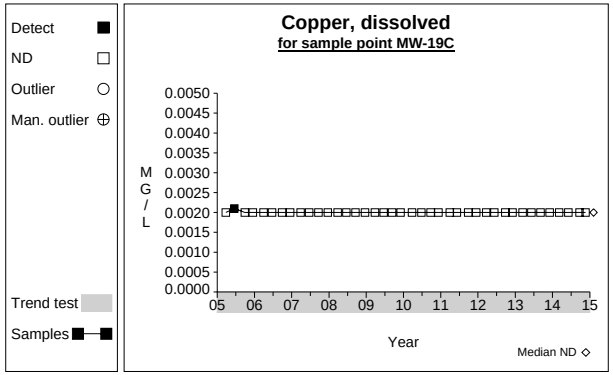
Graph 266



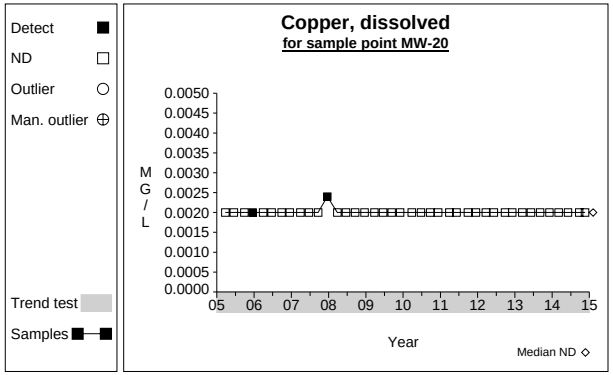
Graph 267



Graph 268

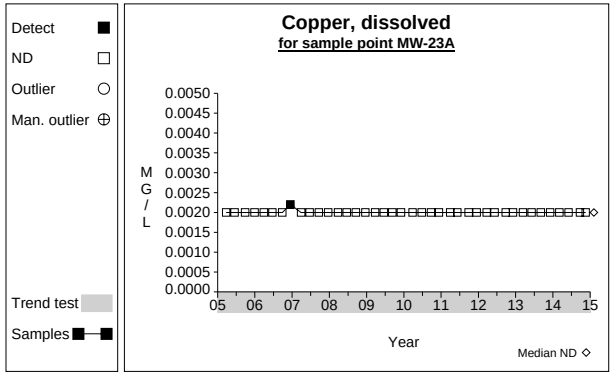


Graph 269

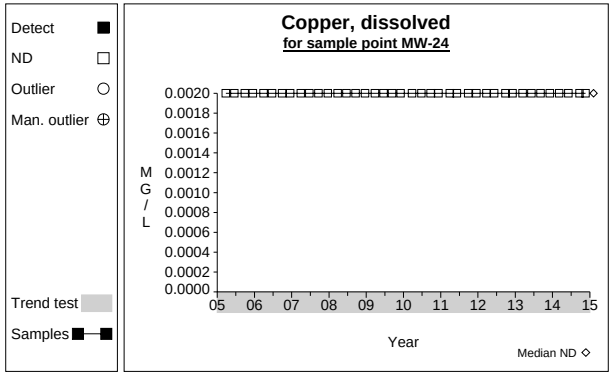


Graph 270

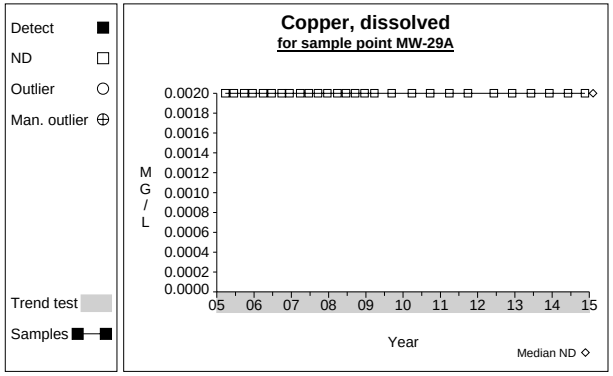
Time Series



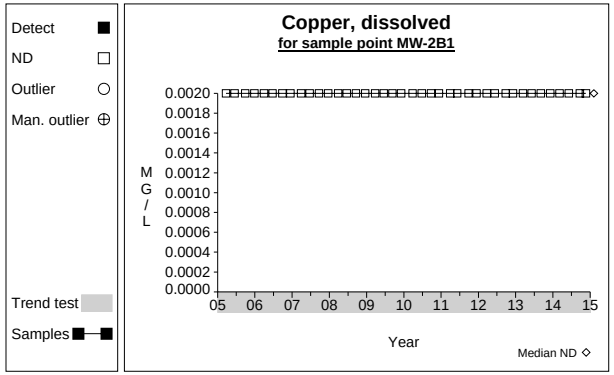
Graph 271



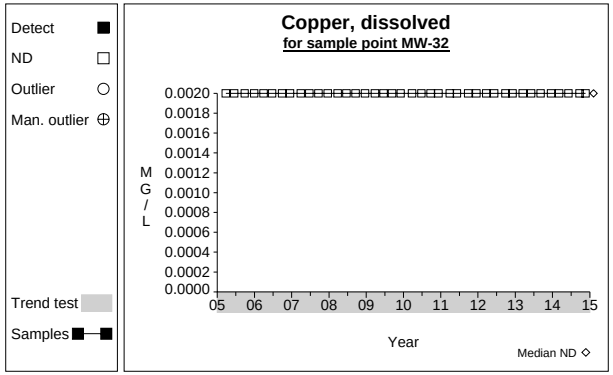
Graph 272



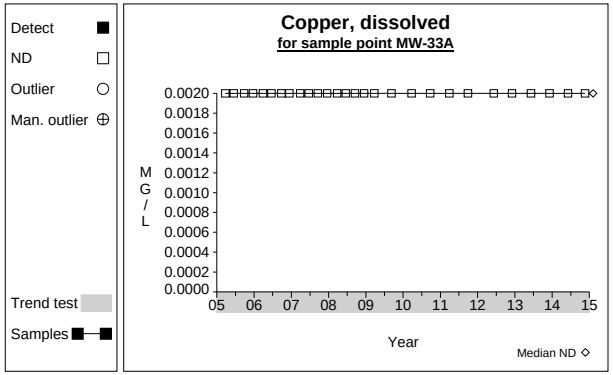
Graph 273



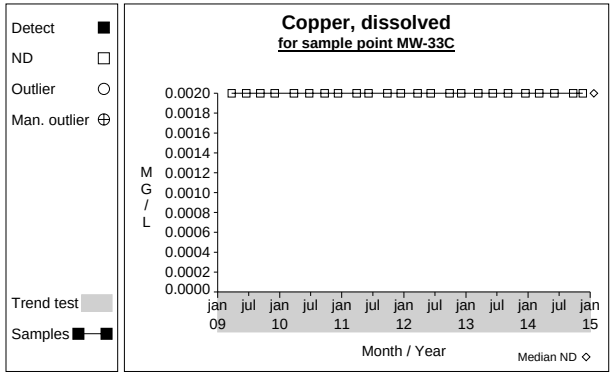
Graph 274



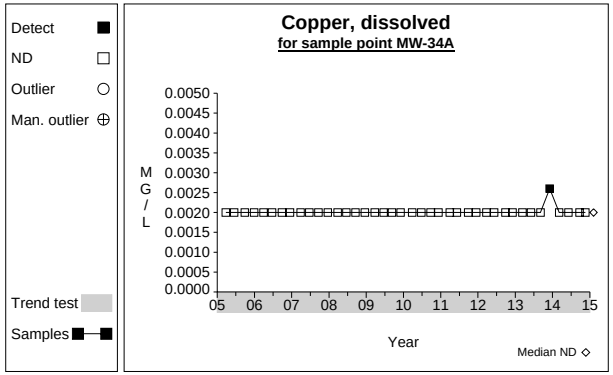
Graph 275



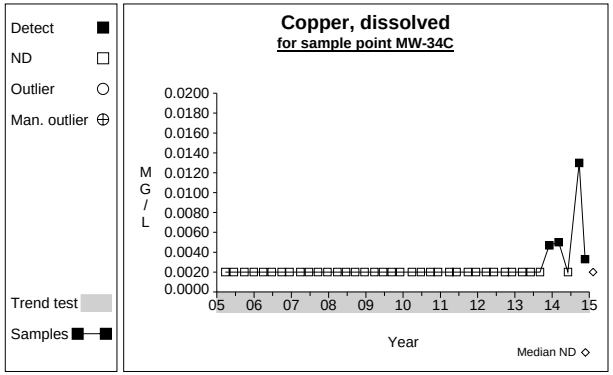
Graph 276



Graph 277

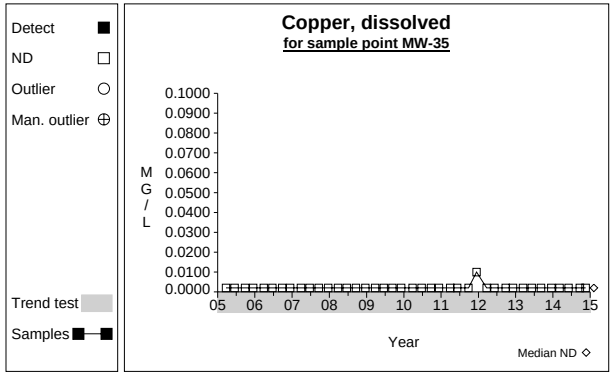


Graph 278

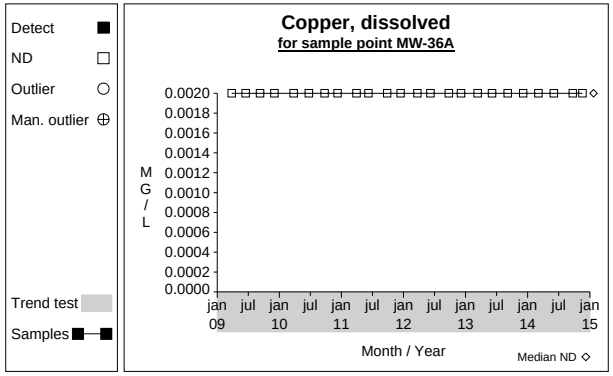


Graph 279

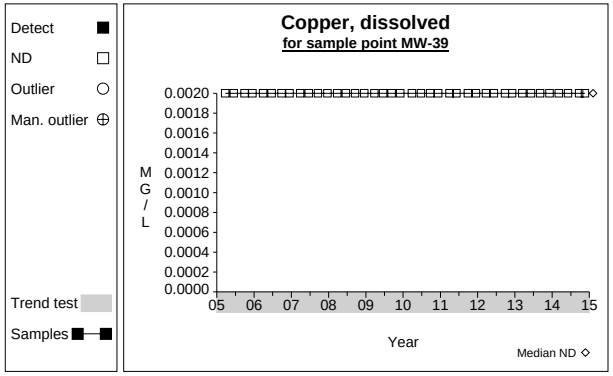
Time Series



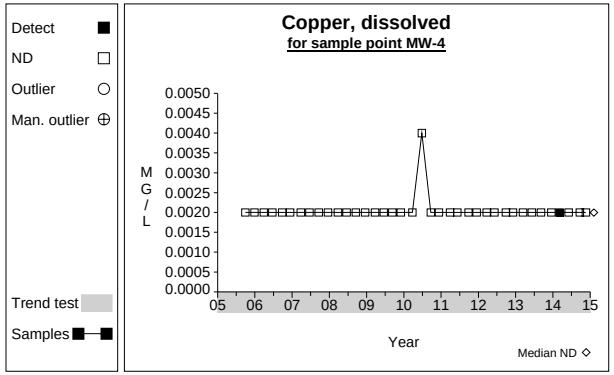
Graph 280



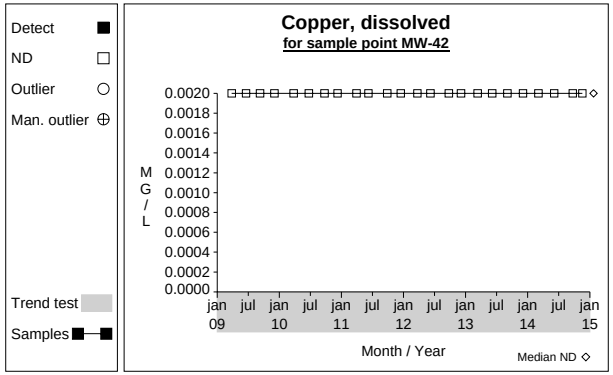
Graph 281



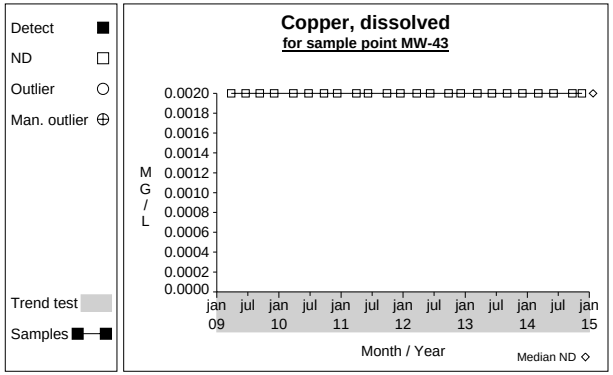
Graph 282



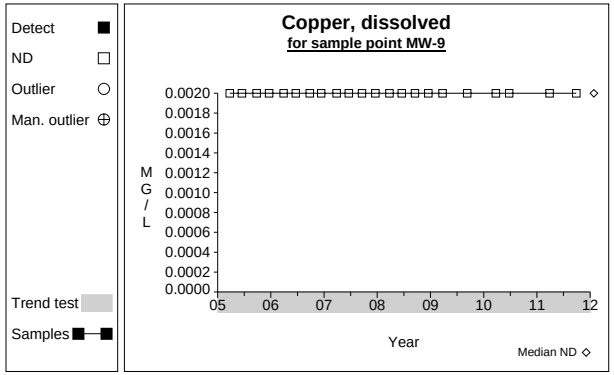
Graph 283



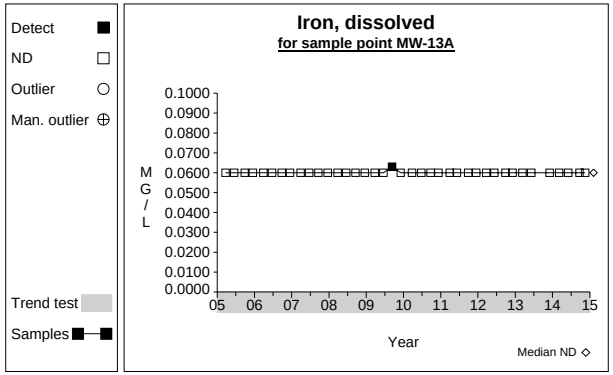
Graph 284



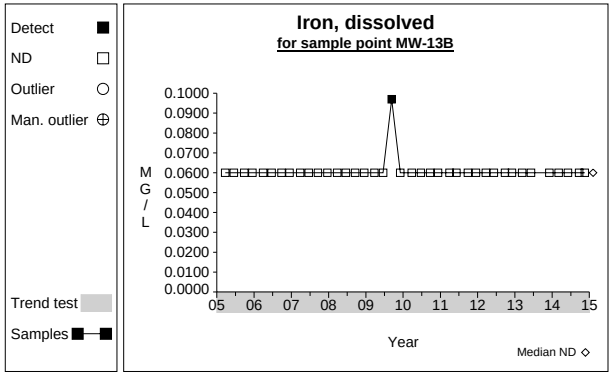
Graph 285



Graph 286

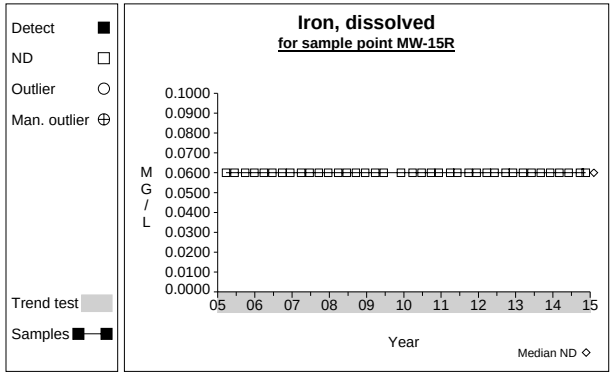


Graph 287

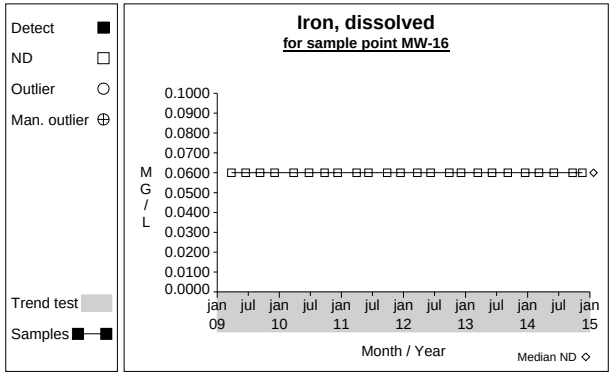


Graph 288

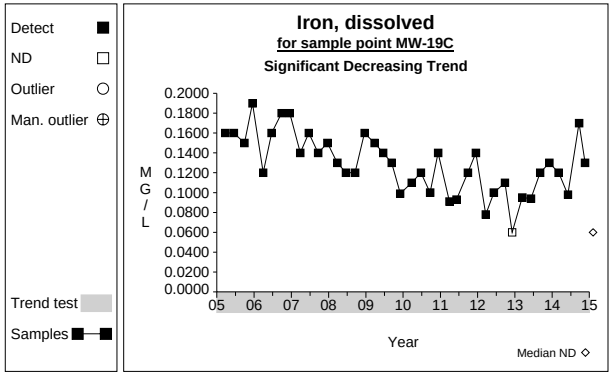
Time Series



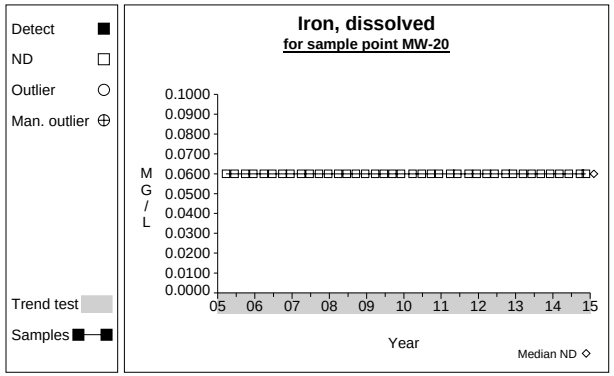
Graph 289



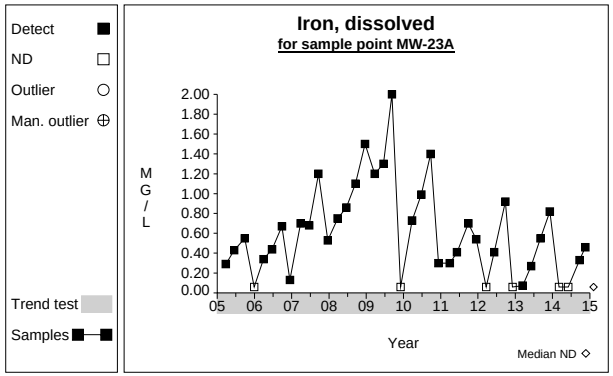
Graph 290



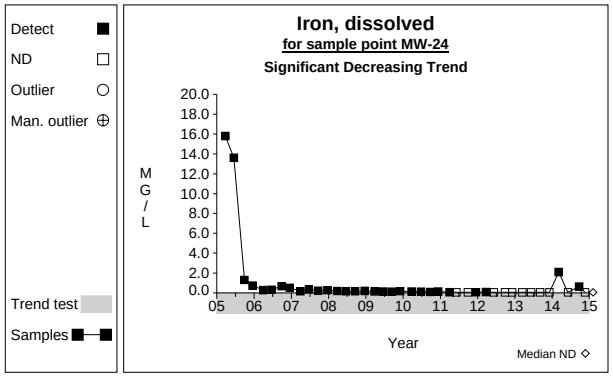
Graph 291



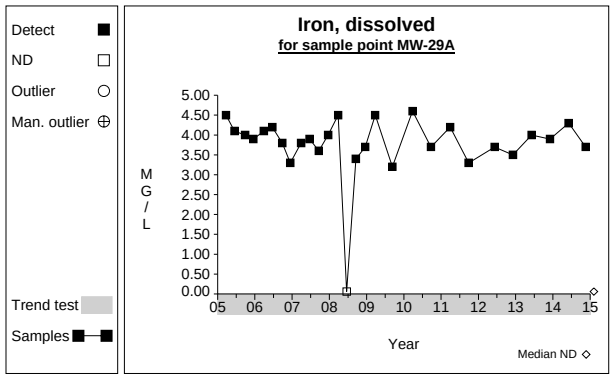
Graph 292



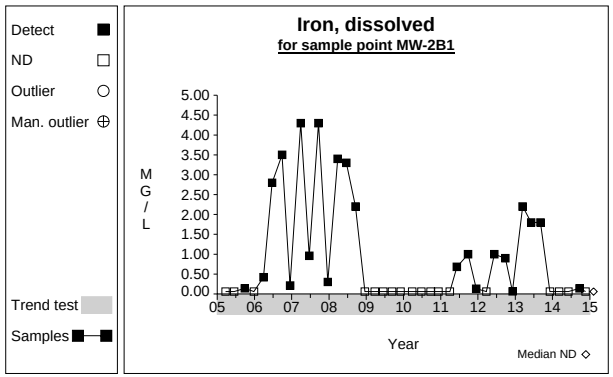
Graph 293



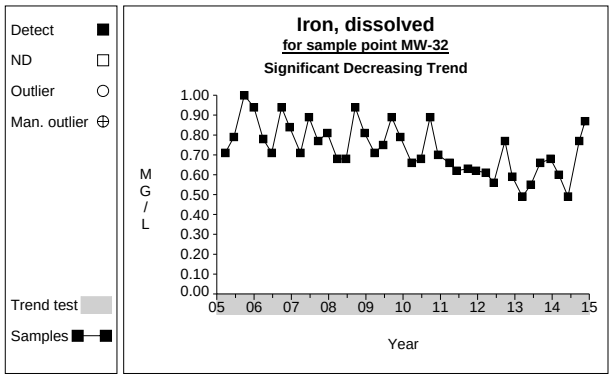
Graph 294



Graph 295

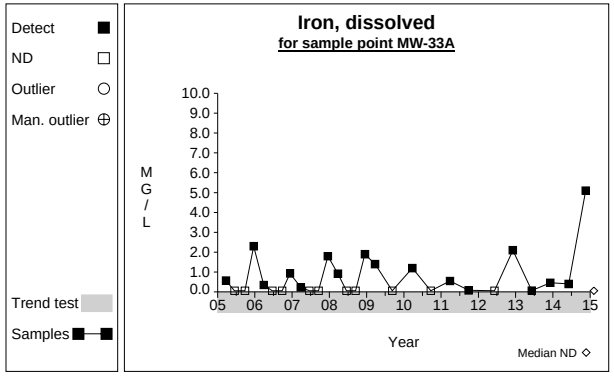


Graph 296

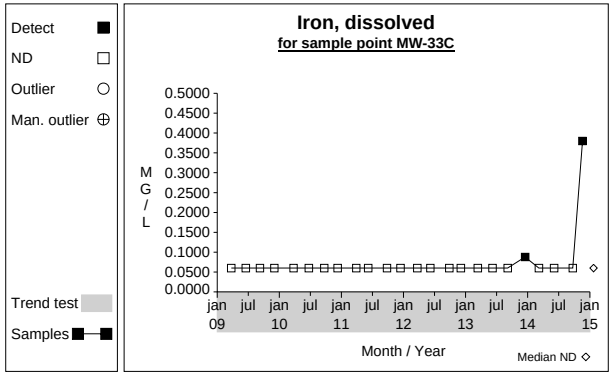


Graph 297

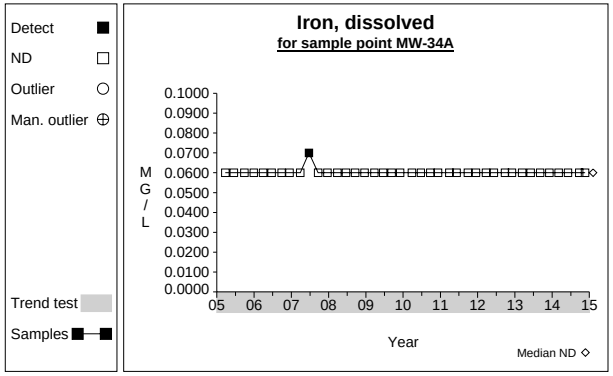
Time Series



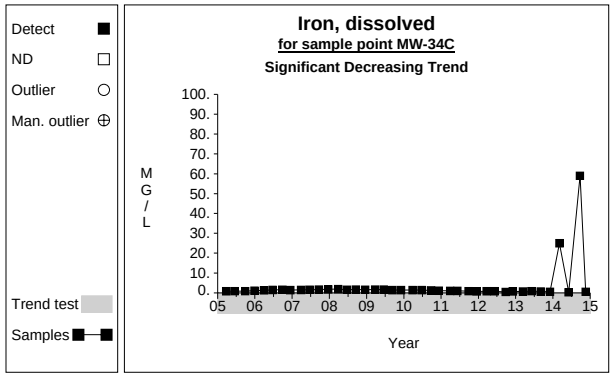
Graph 298



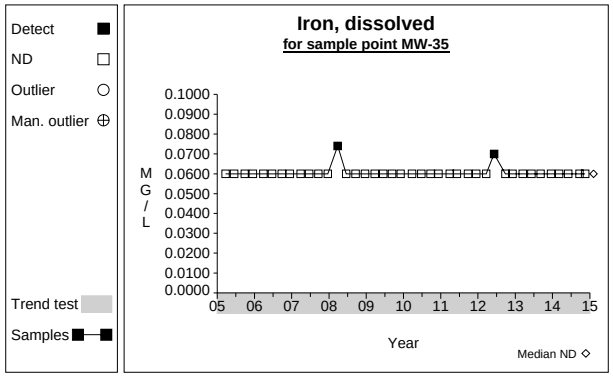
Graph 299



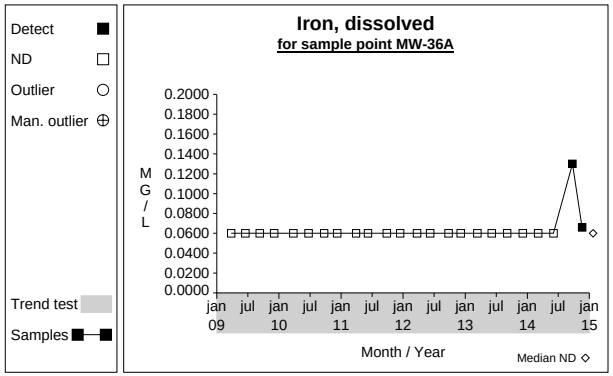
Graph 300



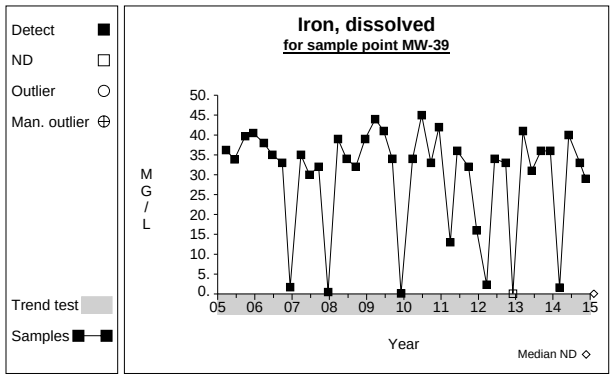
Graph 301



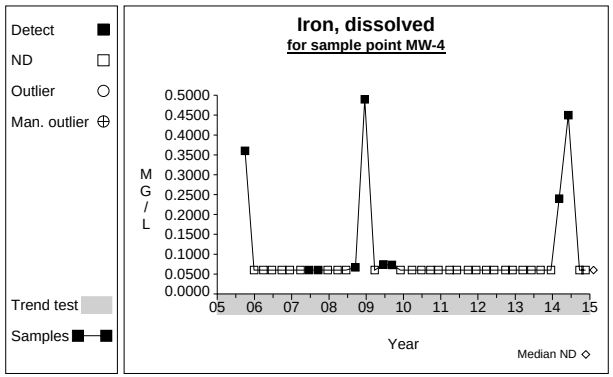
Graph 302



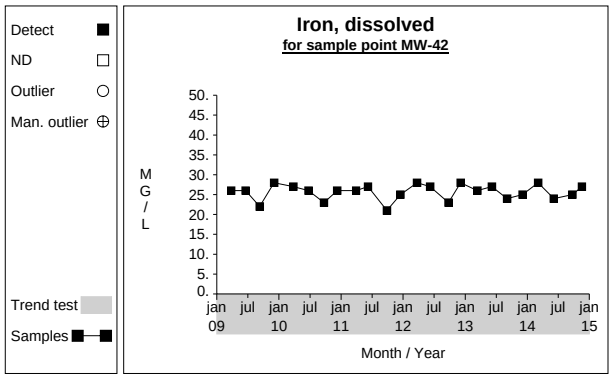
Graph 303



Graph 304

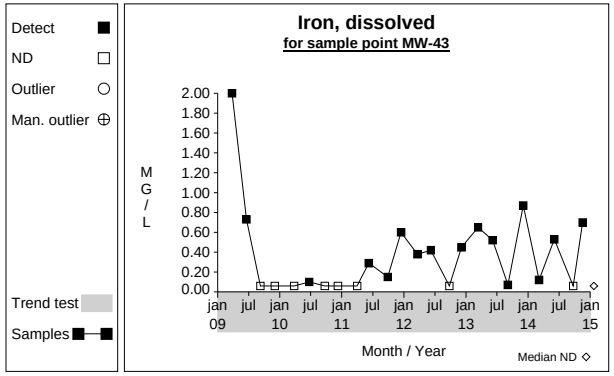


Graph 305

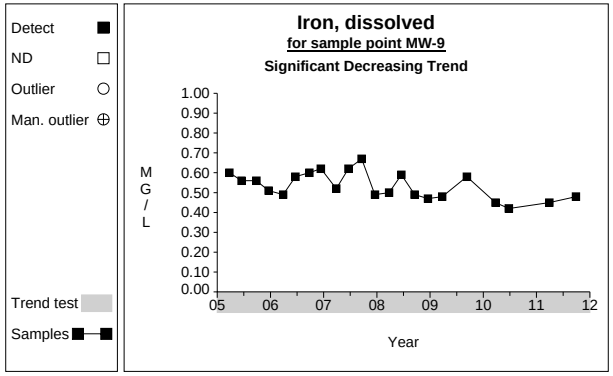


Graph 306

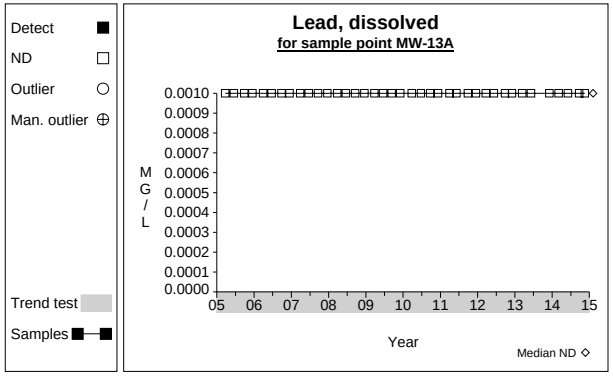
Time Series



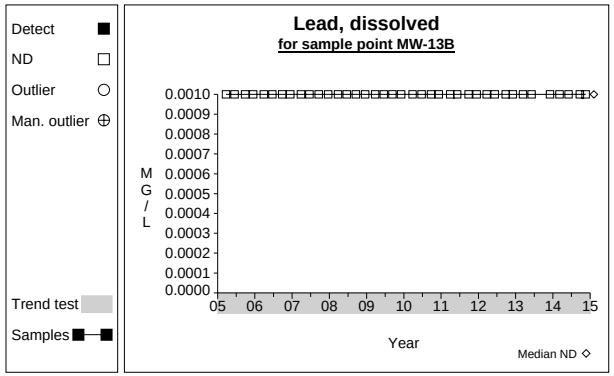
Graph 307



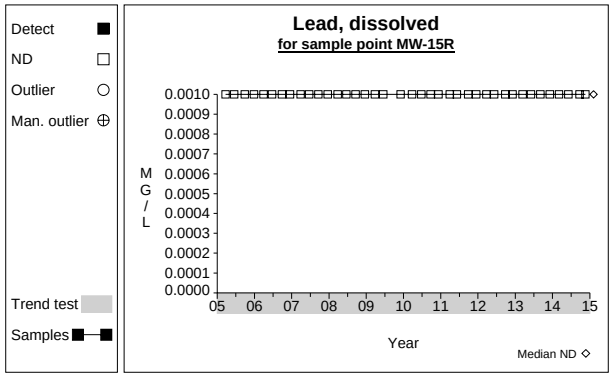
Graph 308



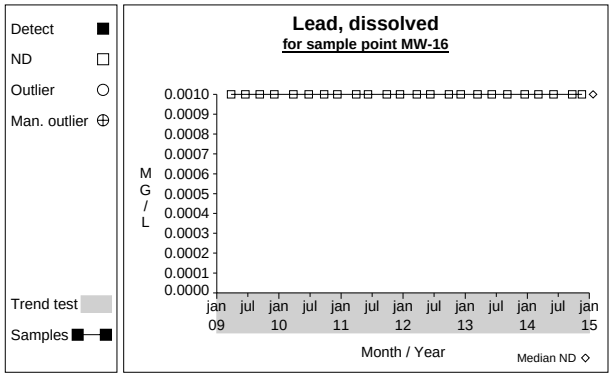
Graph 309



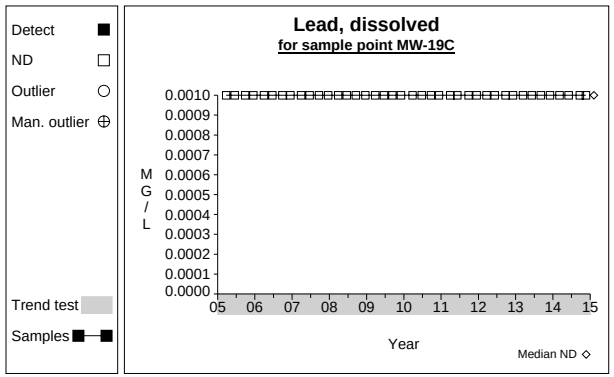
Graph 310



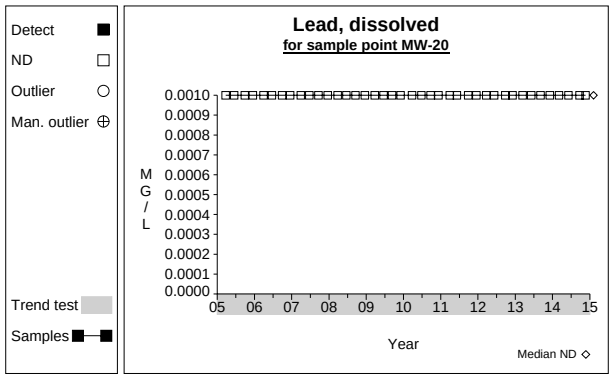
Graph 311



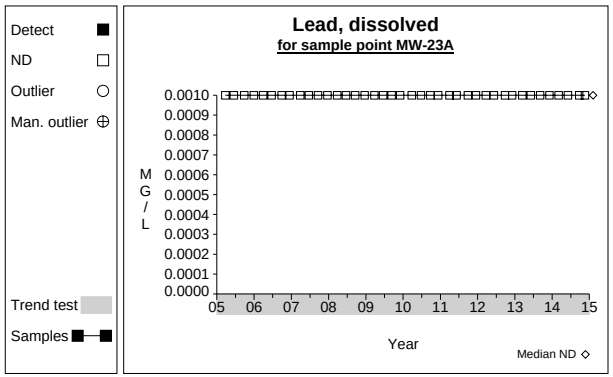
Graph 312



Graph 313

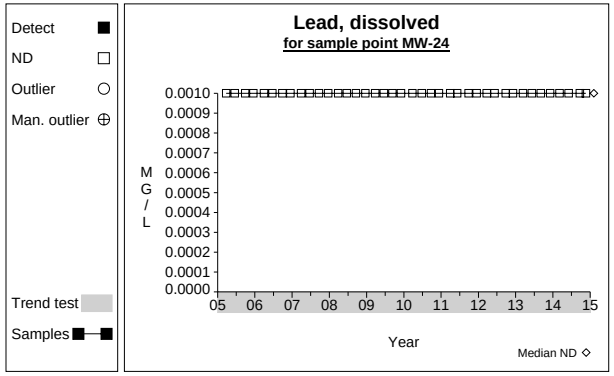


Graph 314

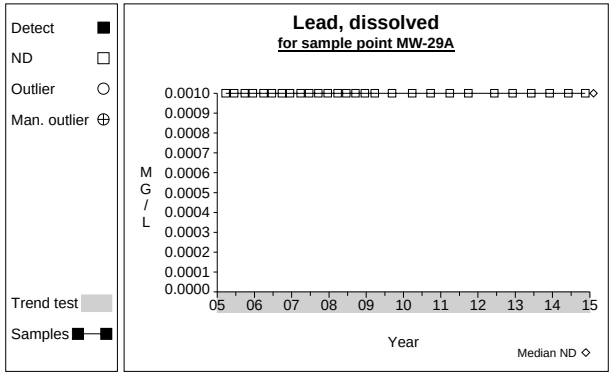


Graph 315

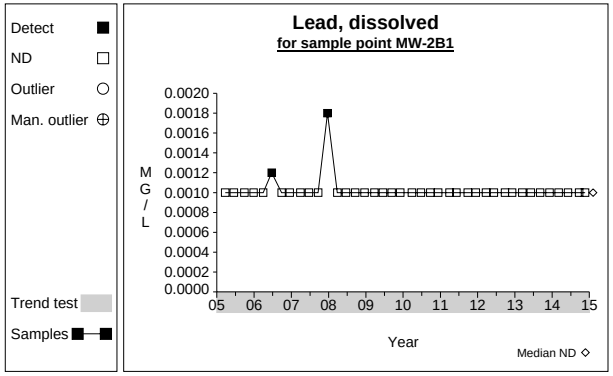
Time Series



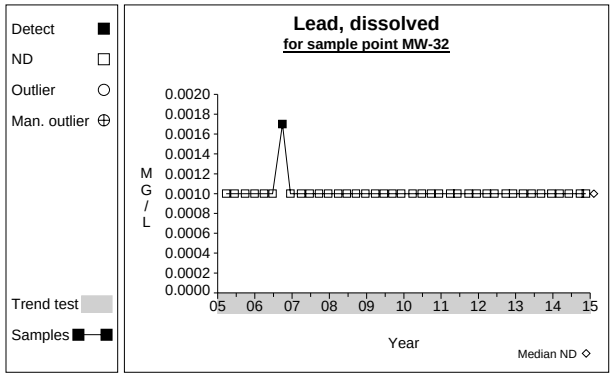
Graph 316



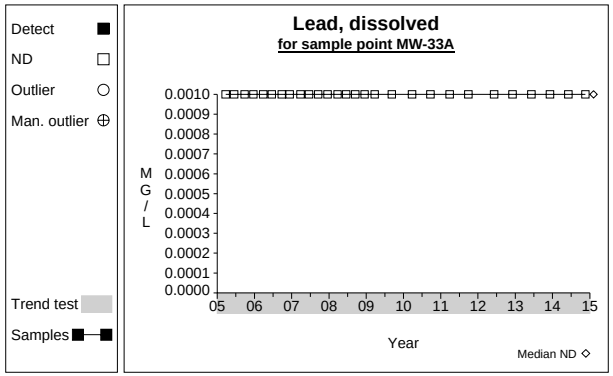
Graph 317



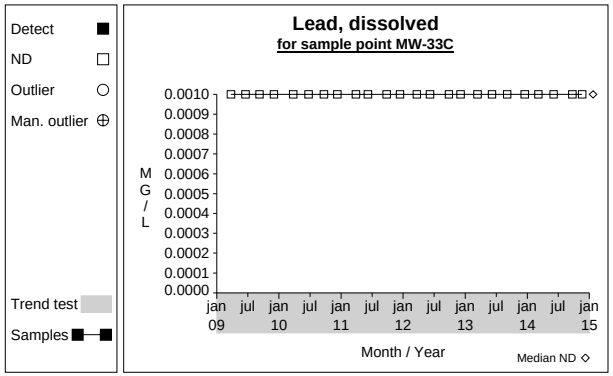
Graph 318



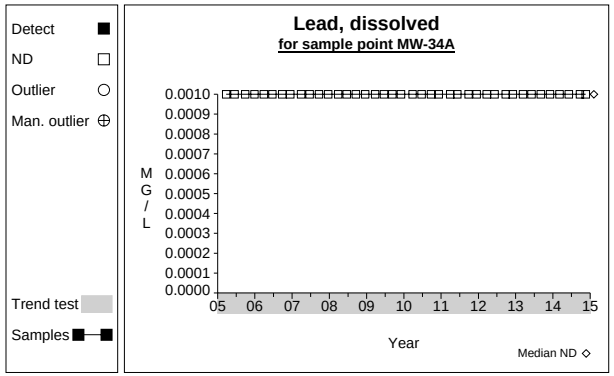
Graph 319



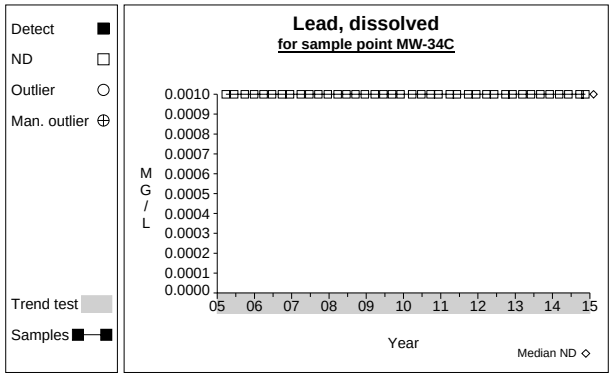
Graph 320



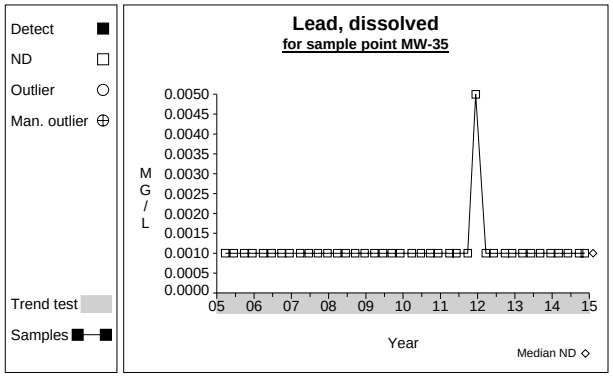
Graph 321



Graph 322

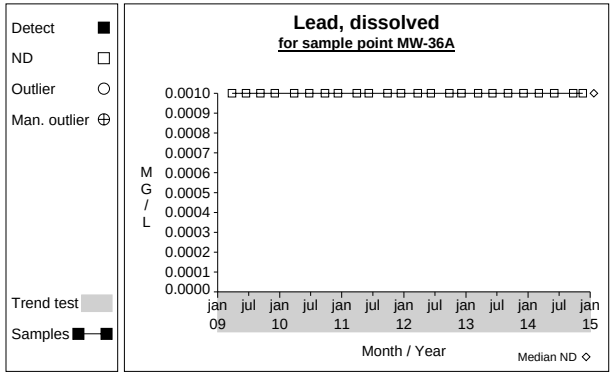


Graph 323

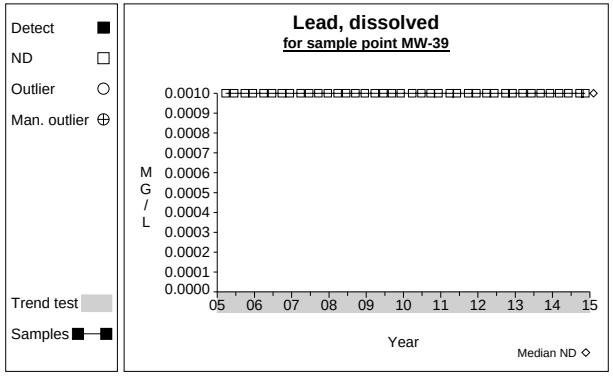


Graph 324

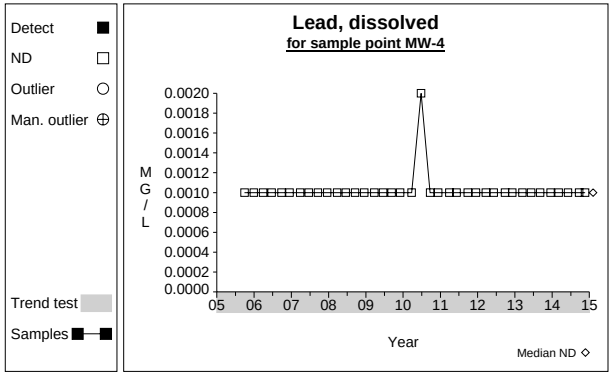
Time Series



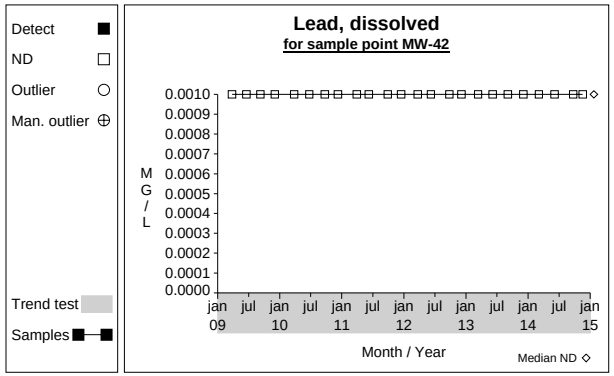
Graph 325



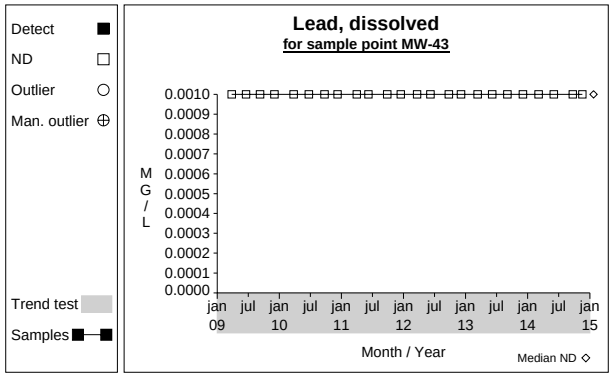
Graph 326



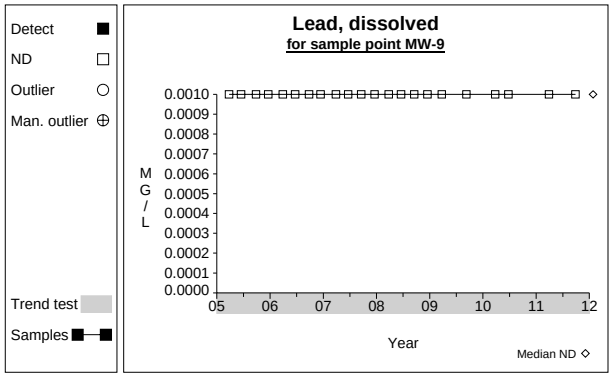
Graph 327



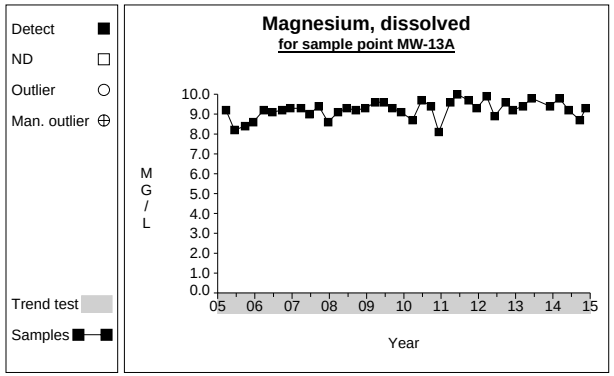
Graph 328



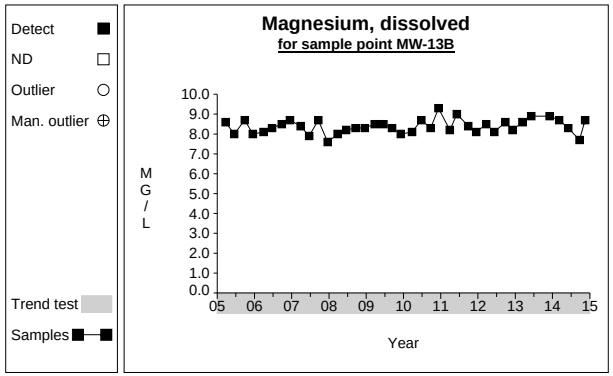
Graph 329



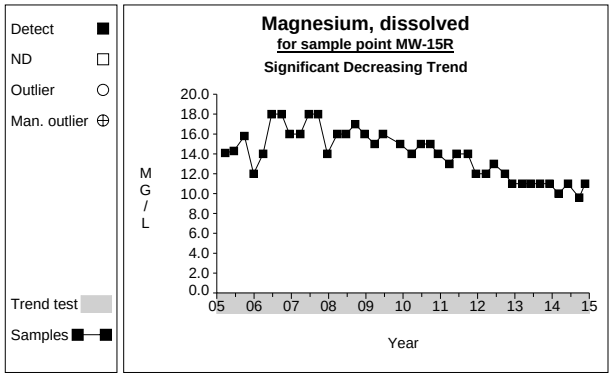
Graph 330



Graph 331

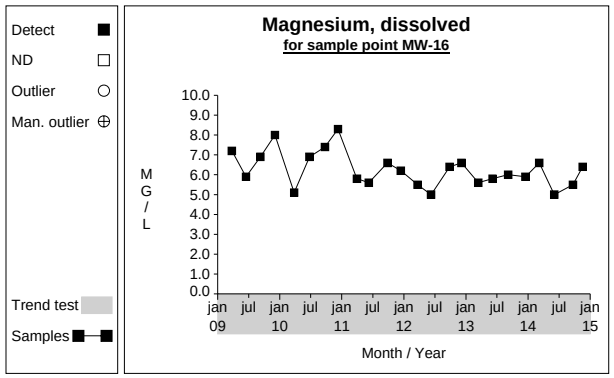


Graph 332

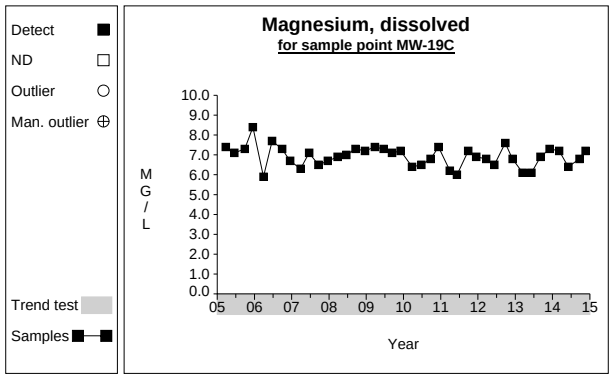


Graph 333

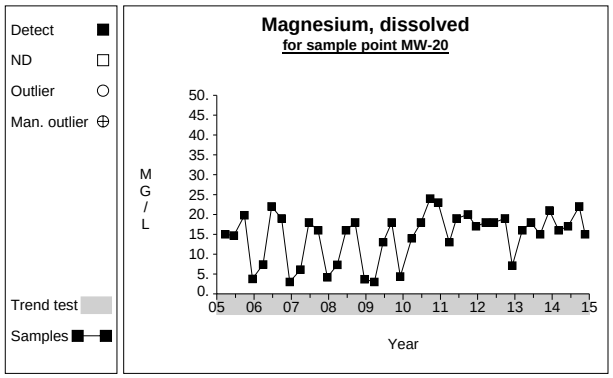
Time Series



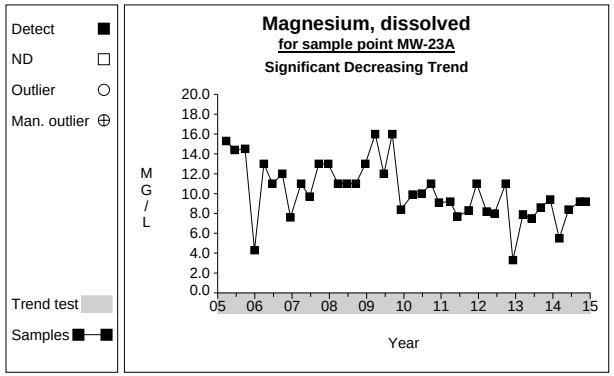
Graph 334



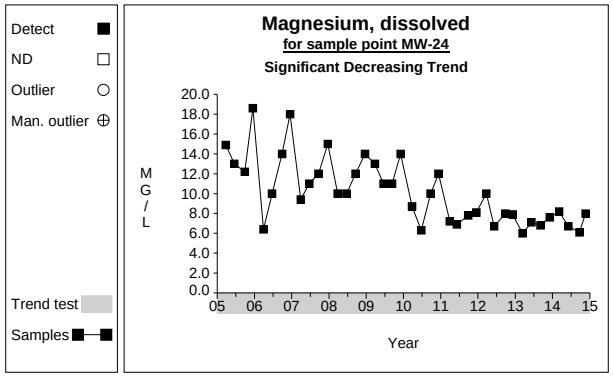
Graph 335



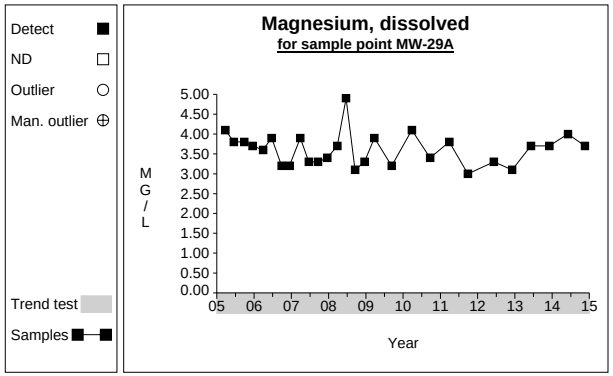
Graph 336



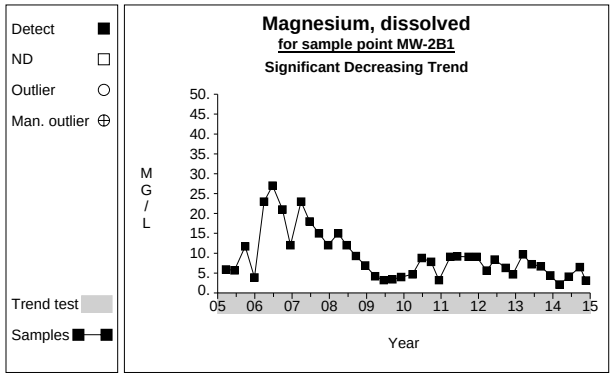
Graph 337



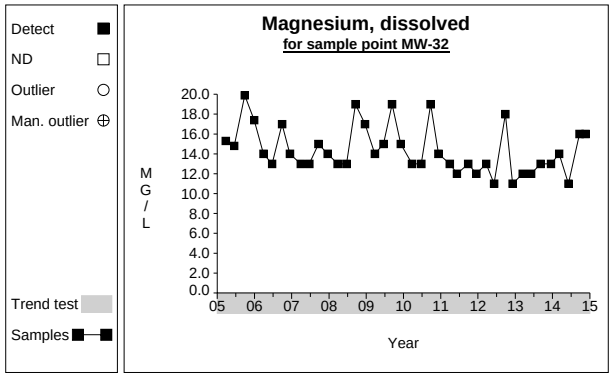
Graph 338



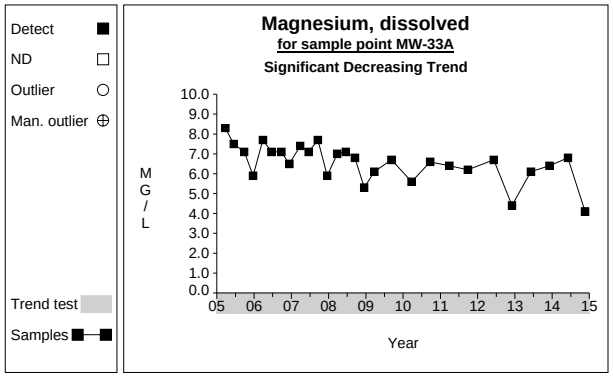
Graph 339



Graph 340

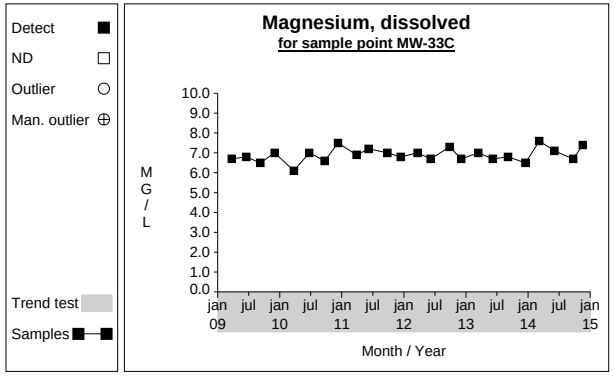


Graph 341

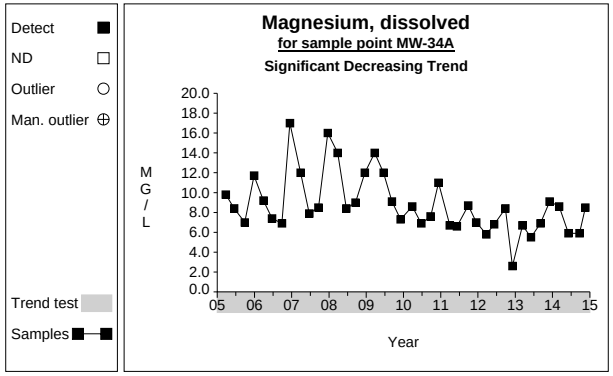


Graph 342

Time Series



Graph 343



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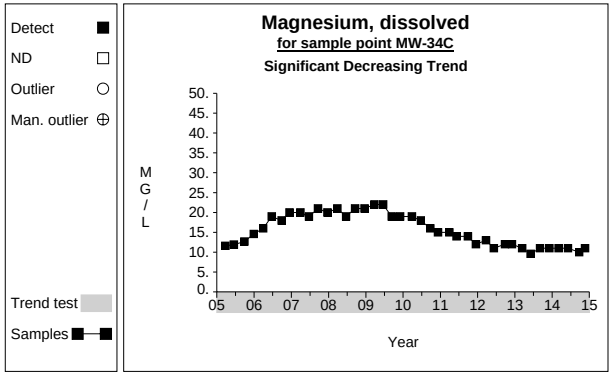
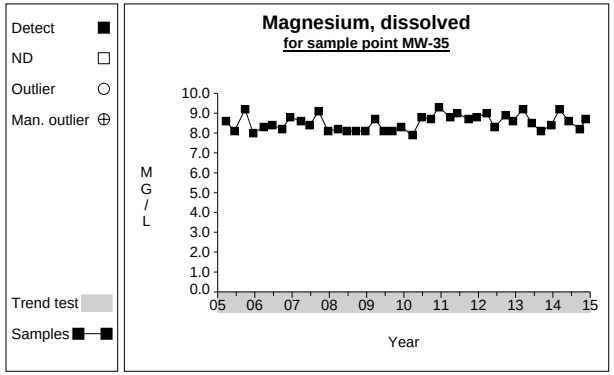
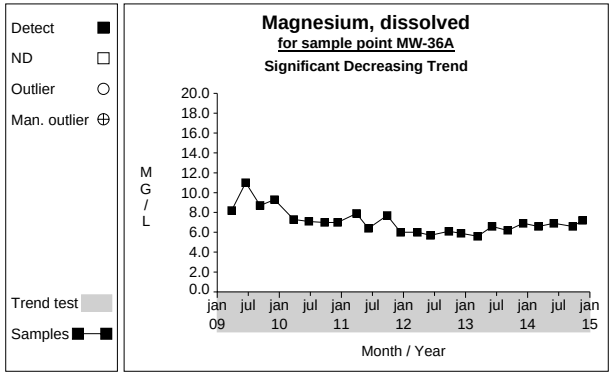


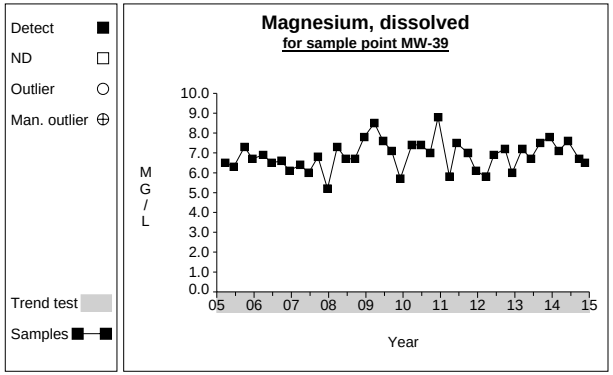
Graph 345



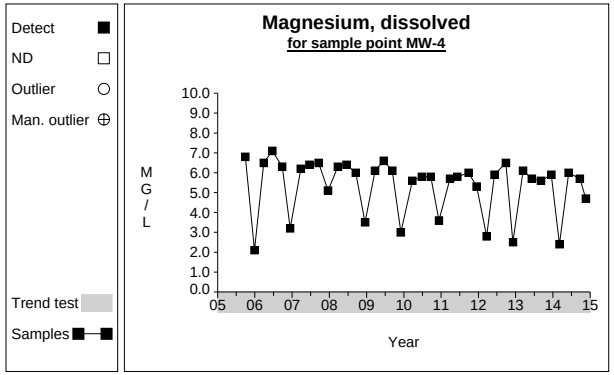
Graph 346



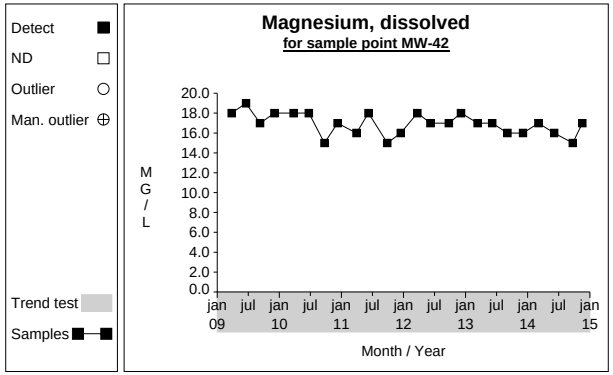
Graph 347



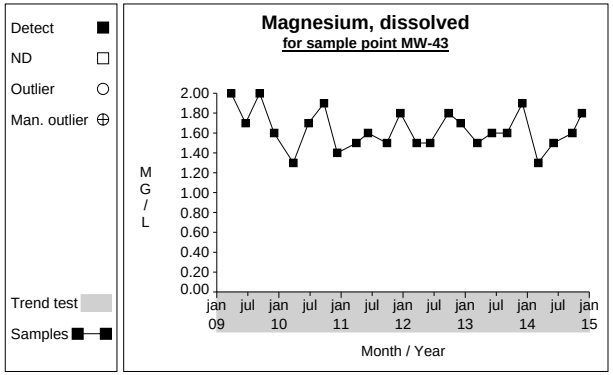
Graph 348



Graph 349

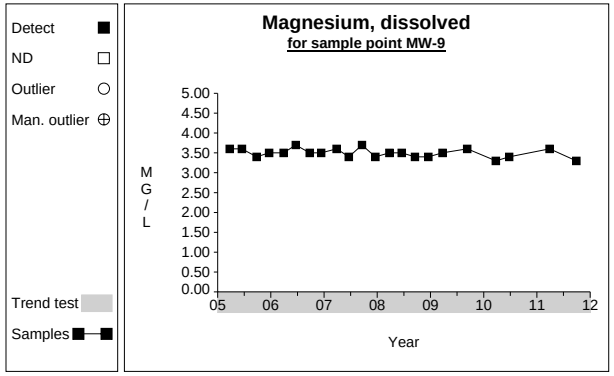


Graph 350



Graph 351

Time Series



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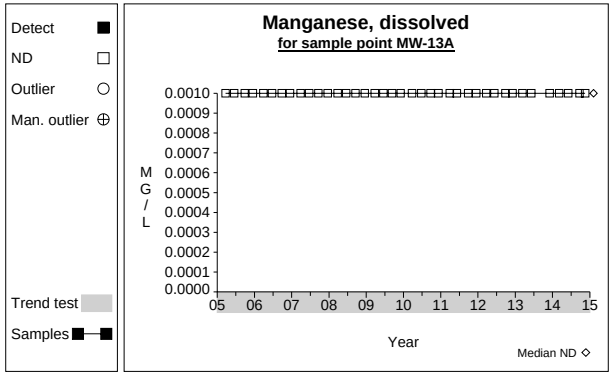

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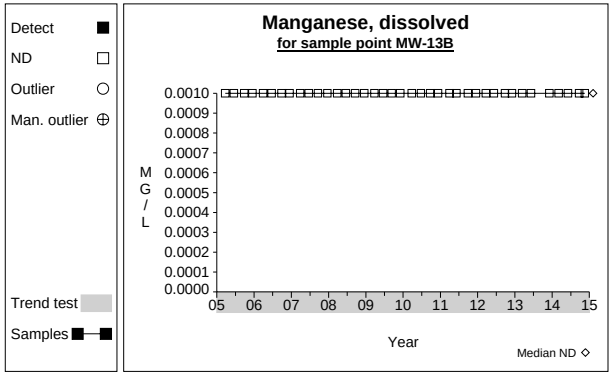
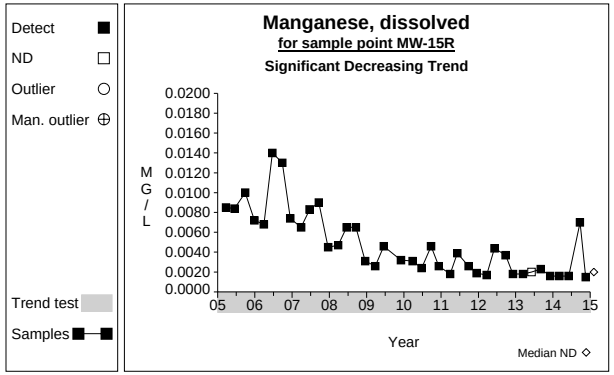
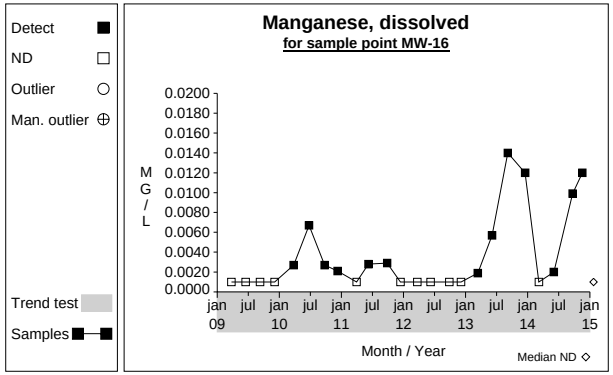


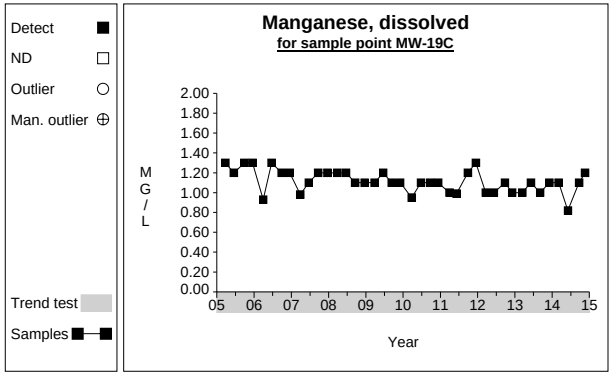
Graph 354



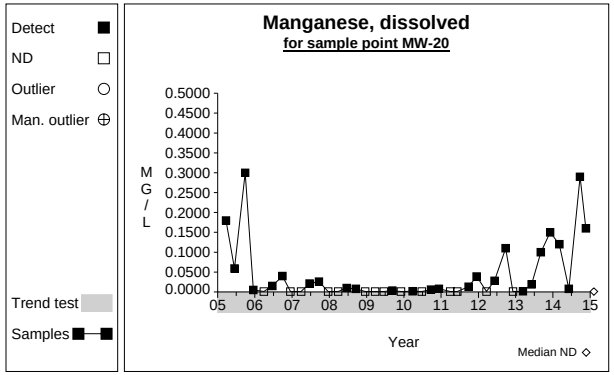
Graph 355



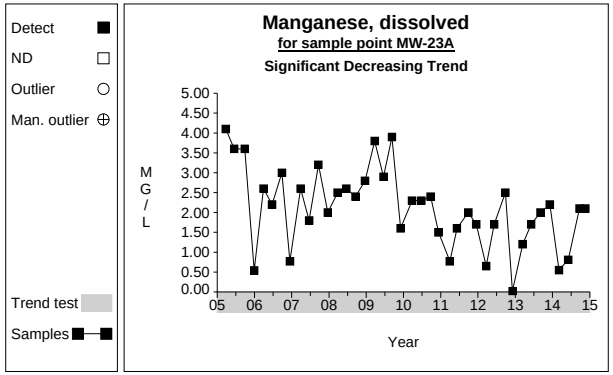
Graph 356



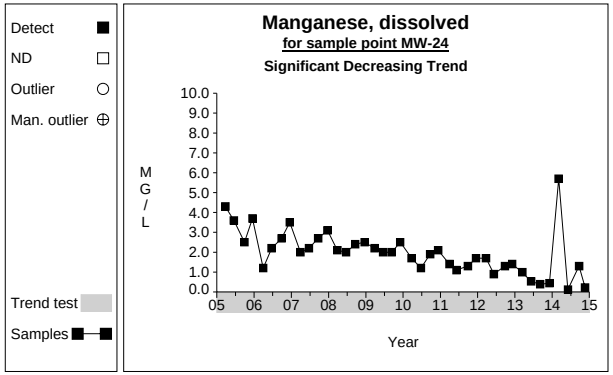
Graph 357



Graph 358

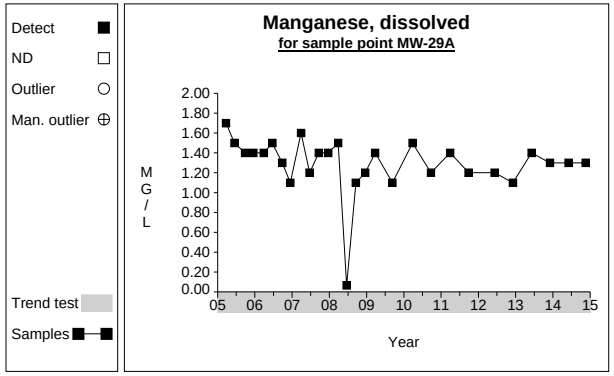


Graph 359

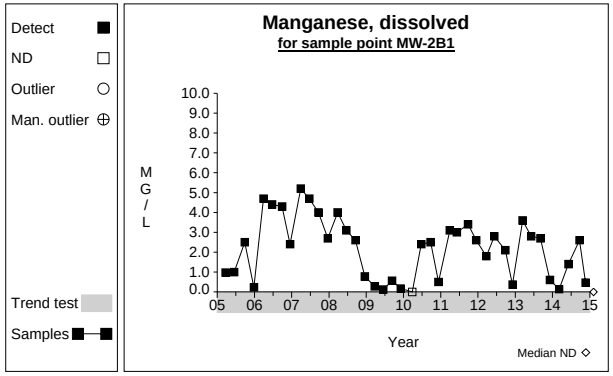


Graph 360

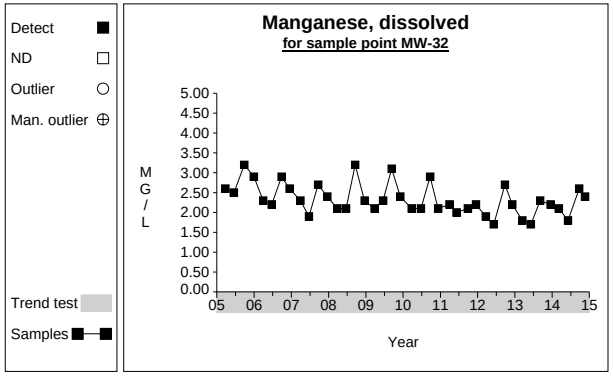
Time Series



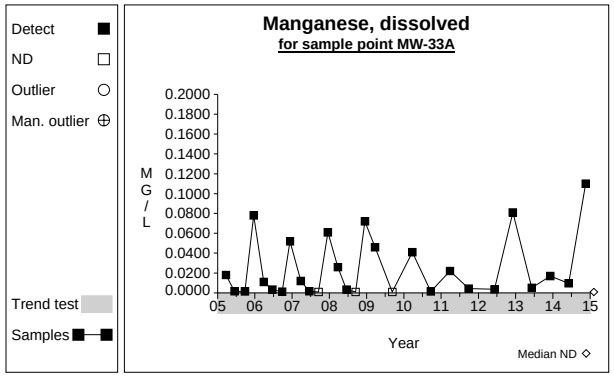
Graph 361



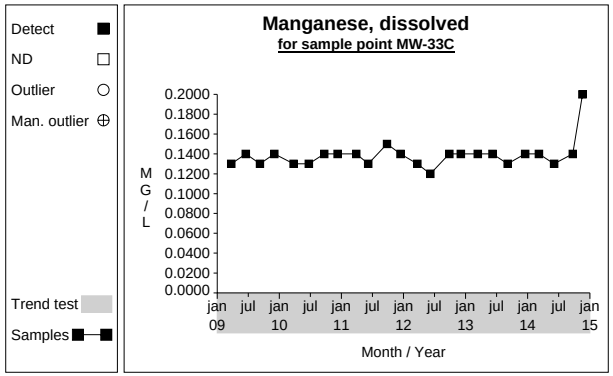
Graph 362



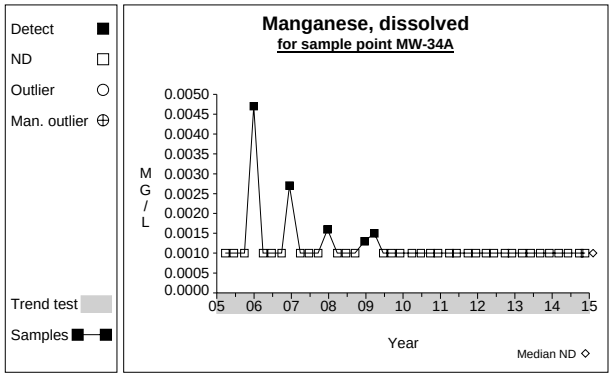
Graph 363



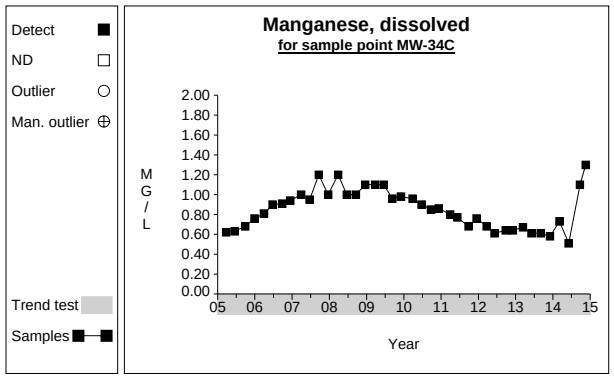
Graph 364



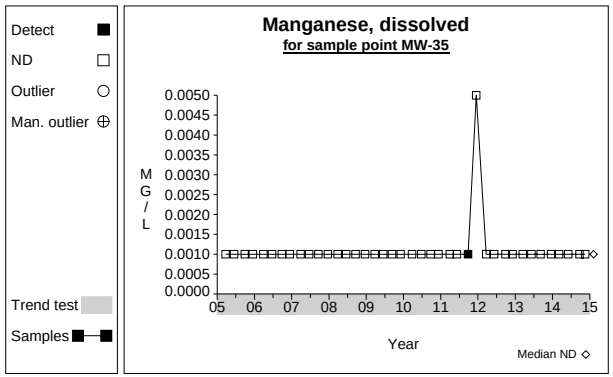
Graph 365



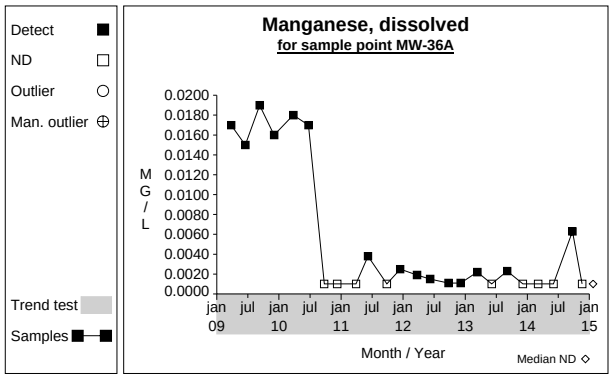
Graph 366



Graph 367

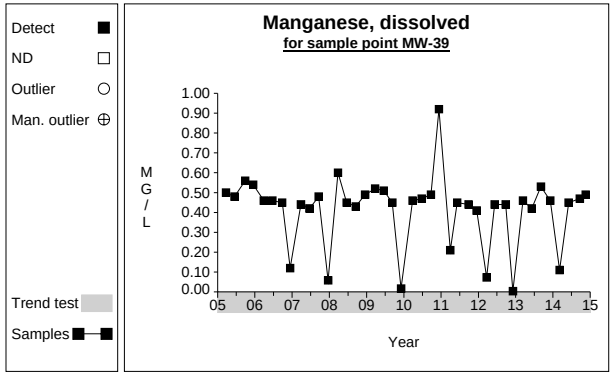


Graph 368

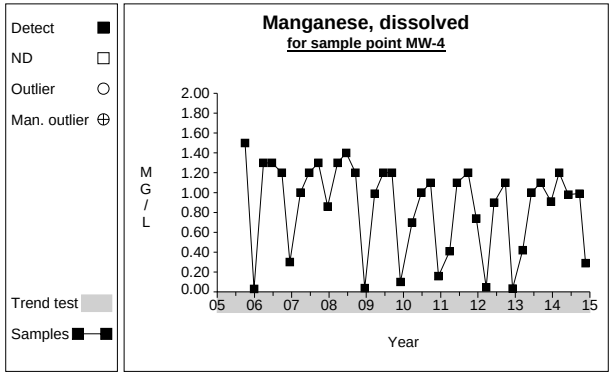


Graph 369

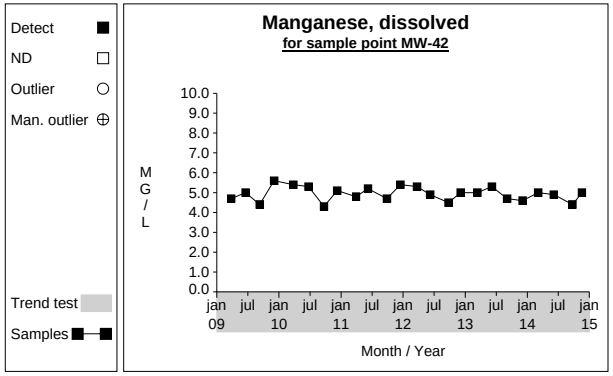
Time Series



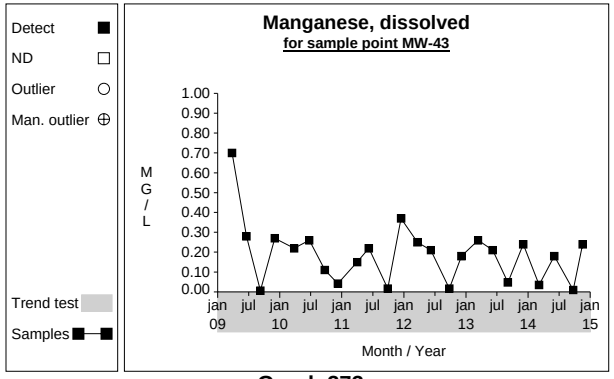
Graph 370



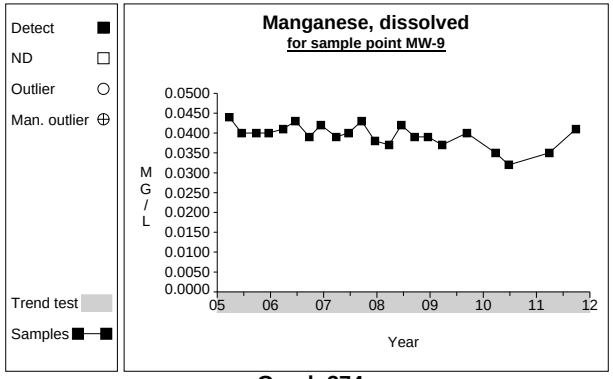
Graph 371



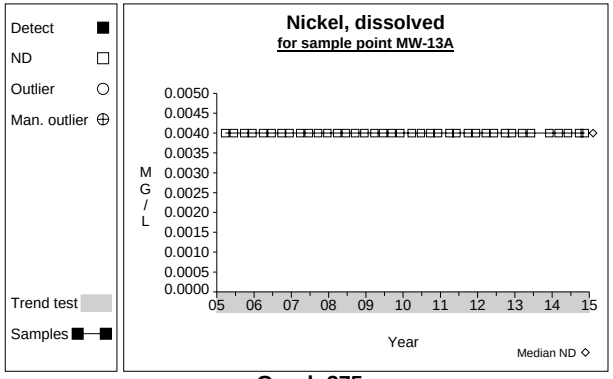
Graph 372



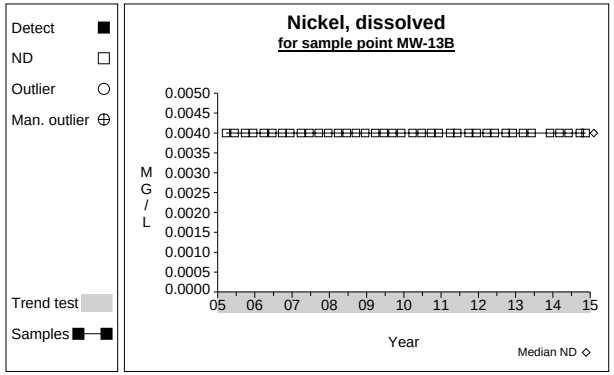
Graph 373



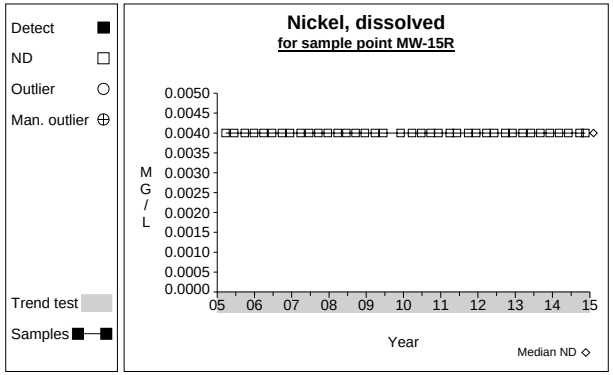
Graph 374



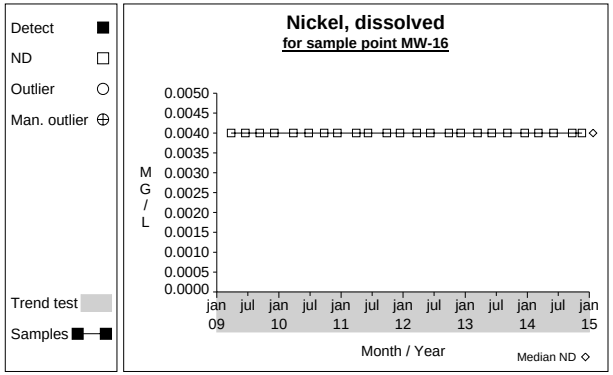
Graph 375



Graph 376

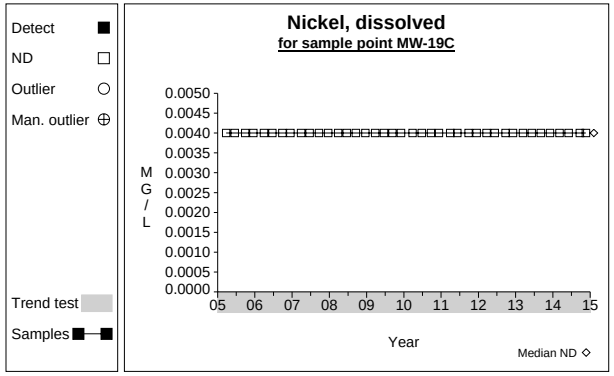


Graph 377

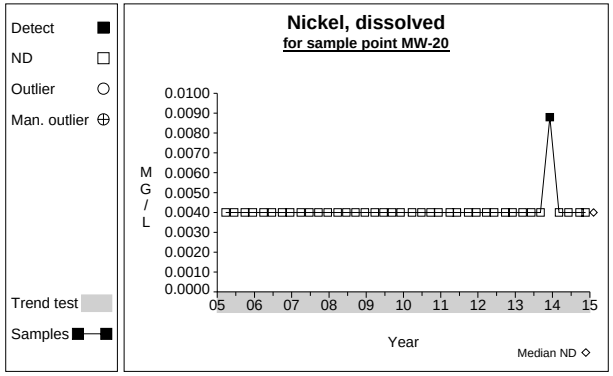


Graph 378

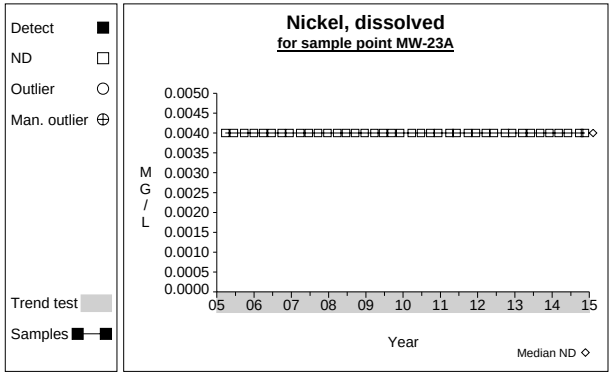
Time Series



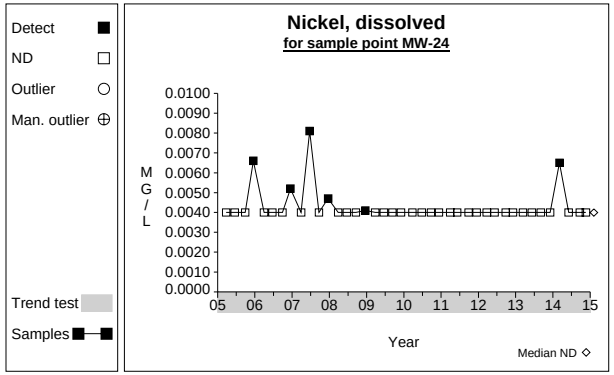
Graph 379



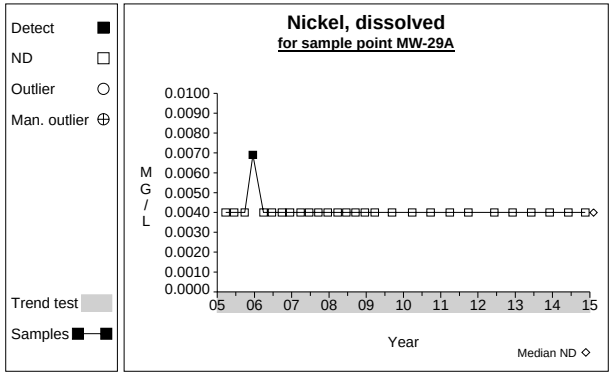
Graph 380



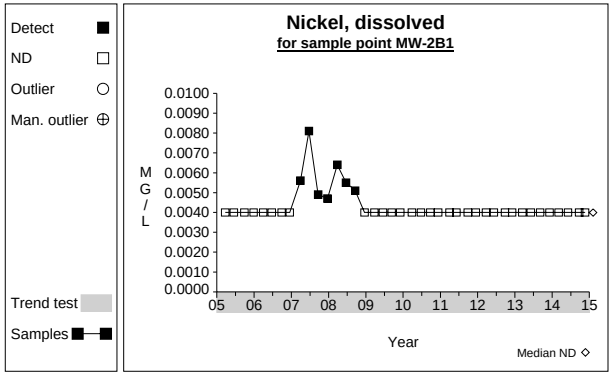
Graph 381



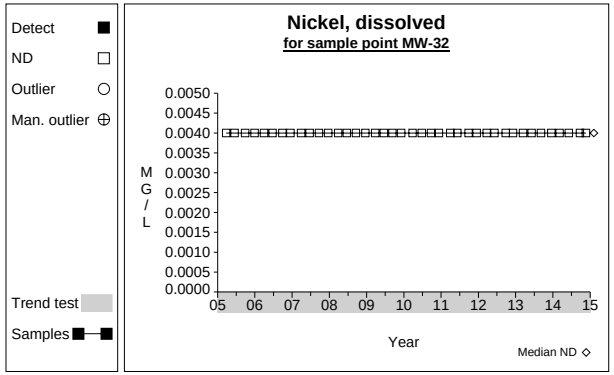
Graph 382



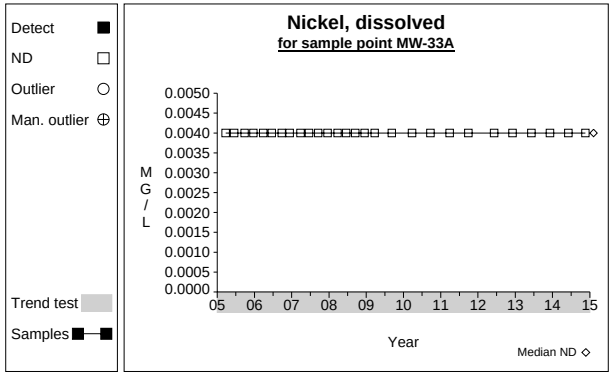
Graph 383



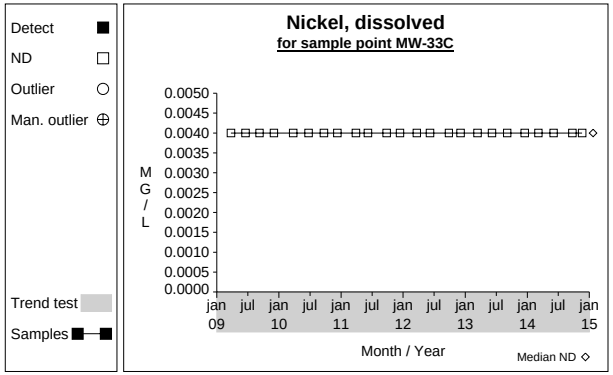
Graph 384



Graph 385

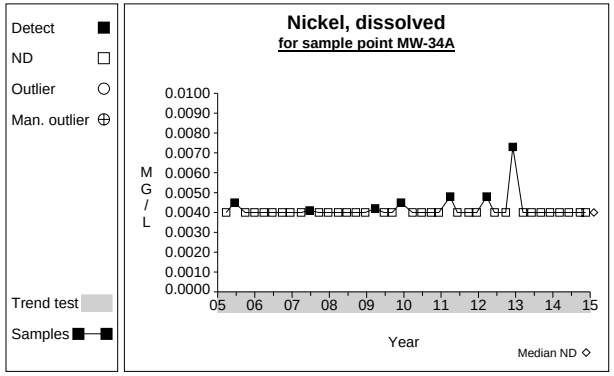


Graph 386

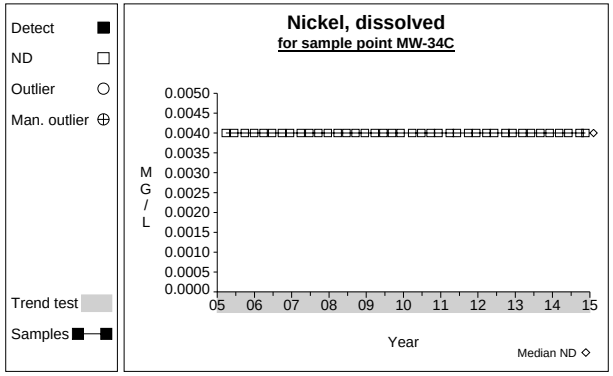


Graph 387

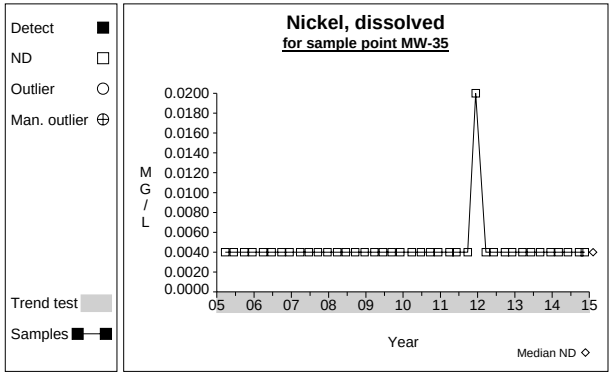
Time Series



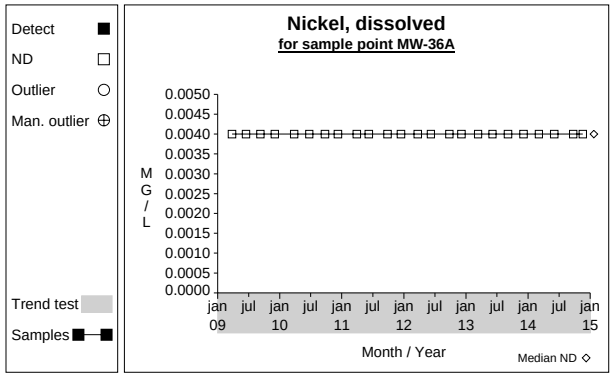
Graph 388



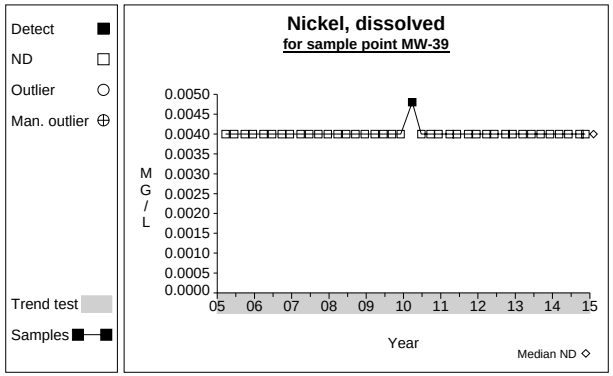
Graph 389



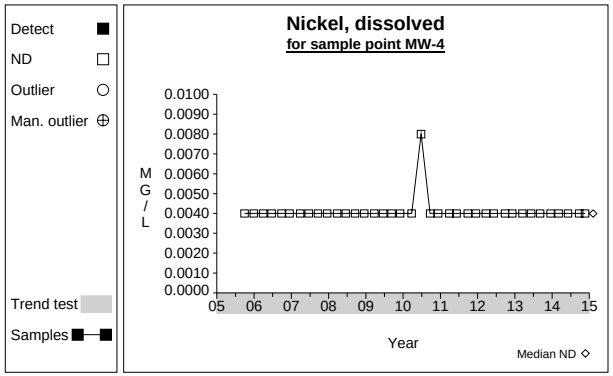
Graph 390



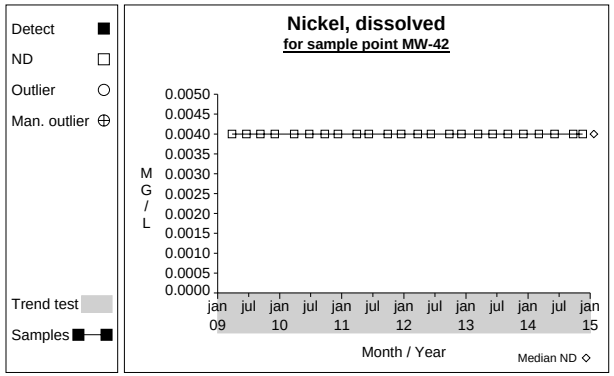
Graph 391



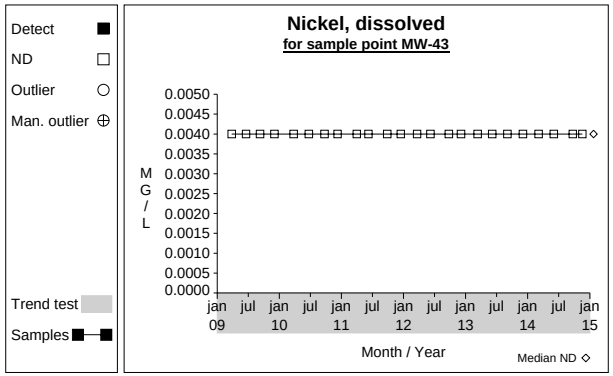
Graph 392



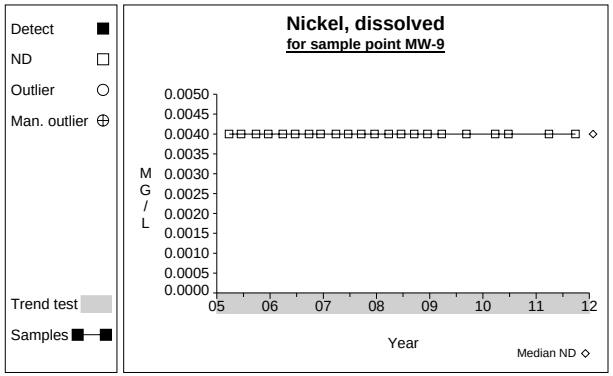
Graph 393



Graph 394

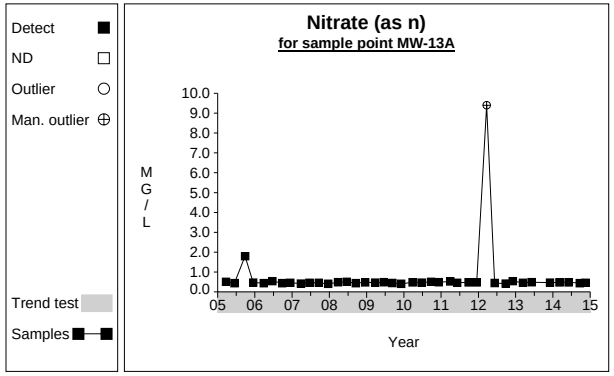


Graph 395

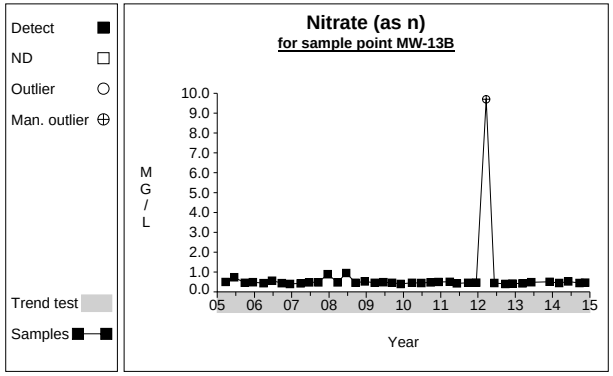


Graph 396

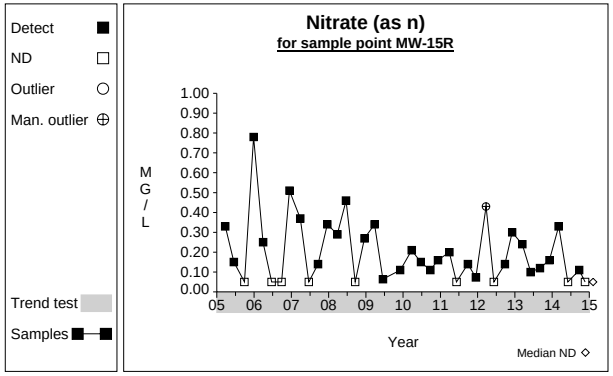
Time Series



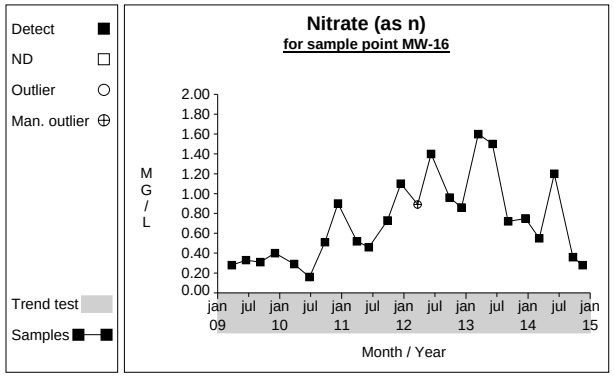
Graph 397



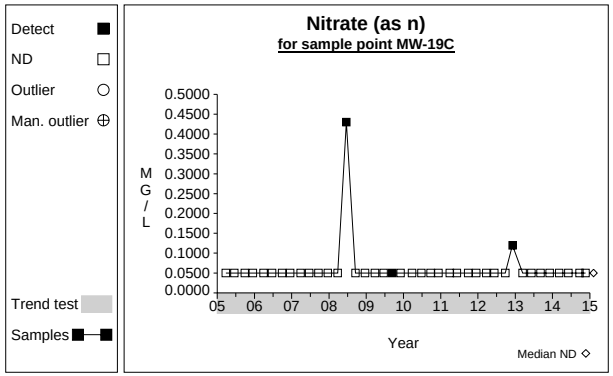
Graph 398



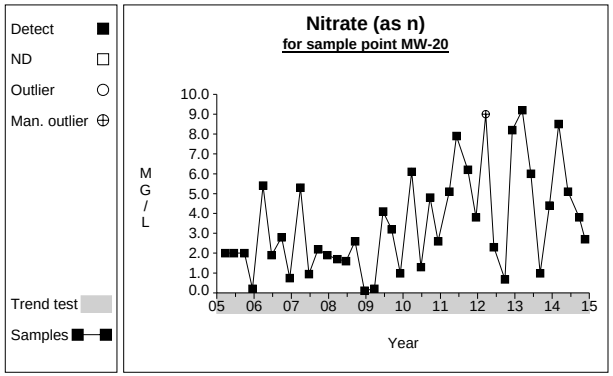
Graph 399



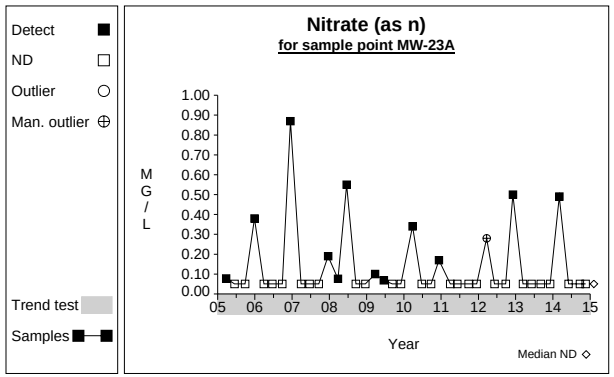
Graph 400



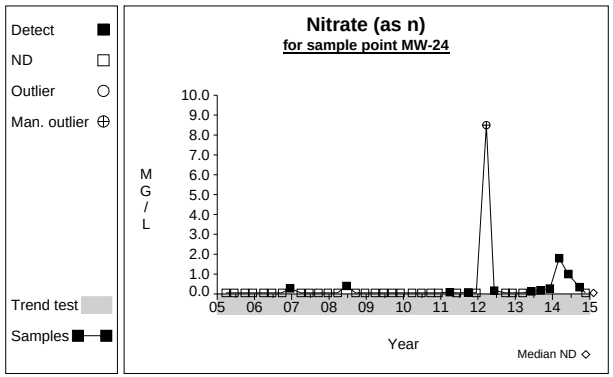
Graph 401



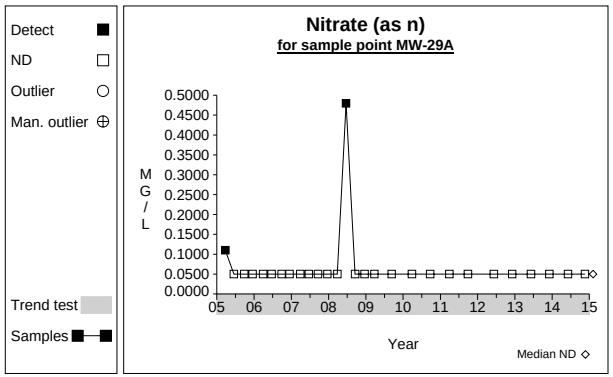
Graph 402



Graph 403

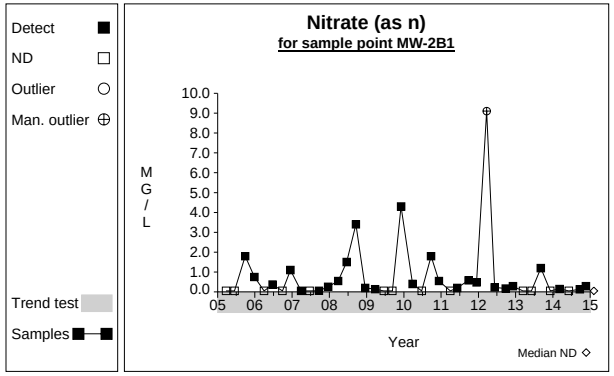


Graph 404

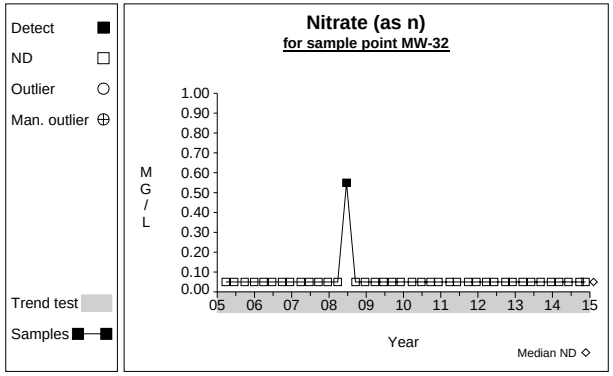


Graph 405

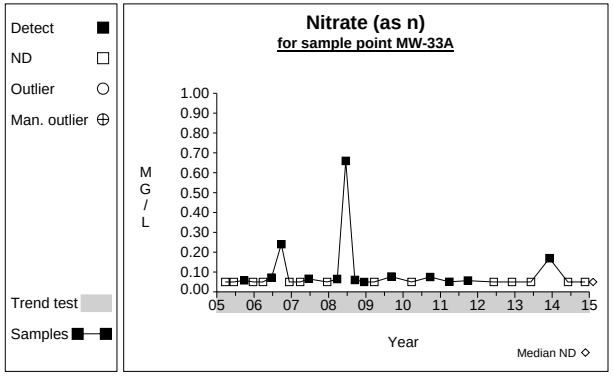
Time Series



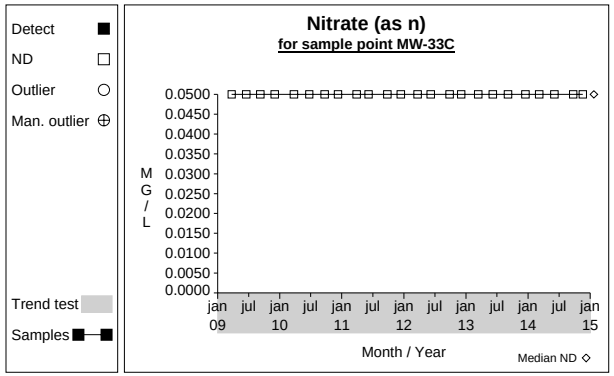
Graph 406



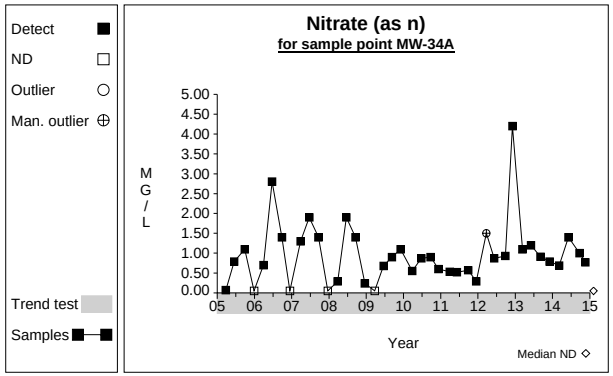
Graph 407



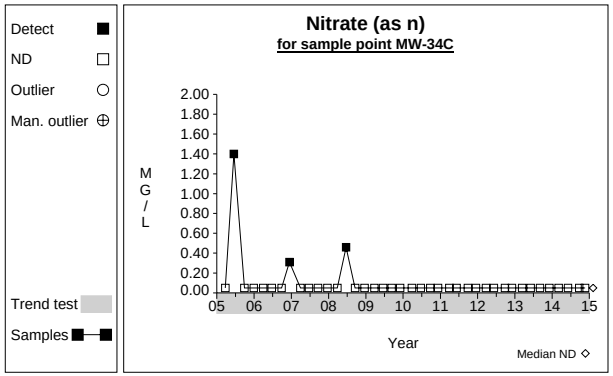
Graph 408



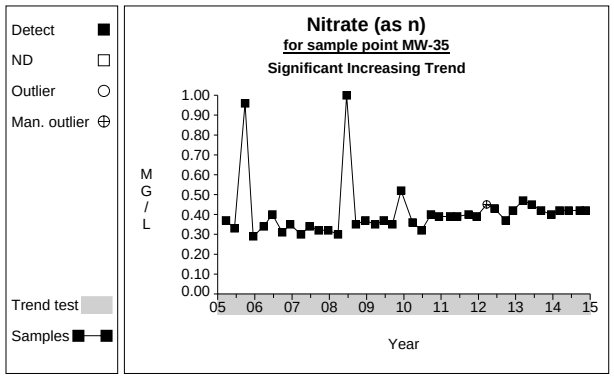
Graph 409



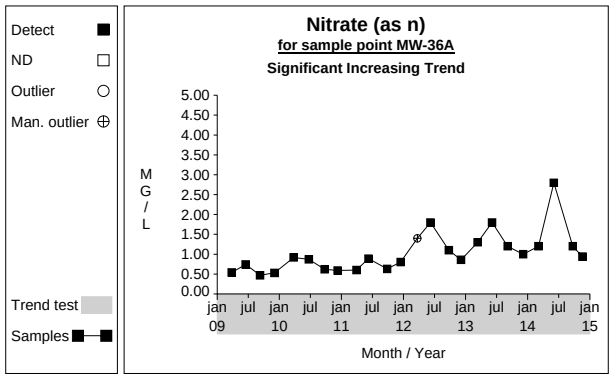
Graph 410



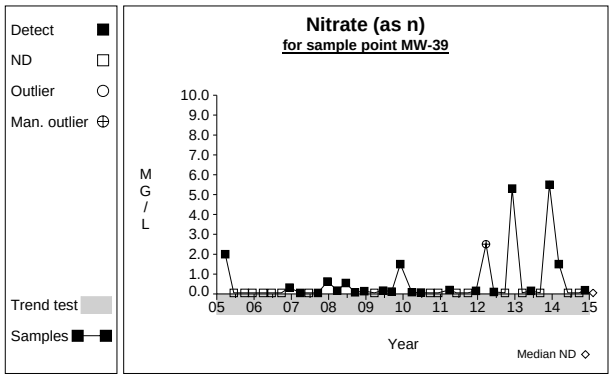
Graph 411



Graph 412

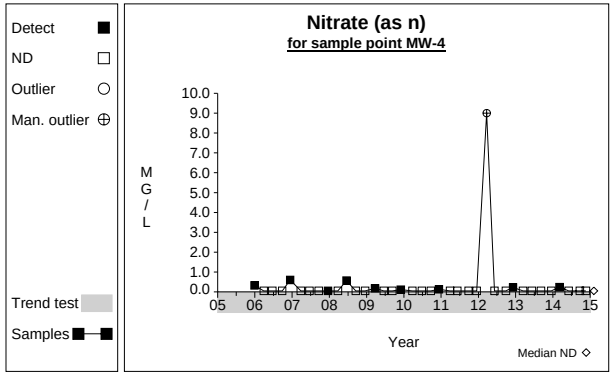


Graph 413

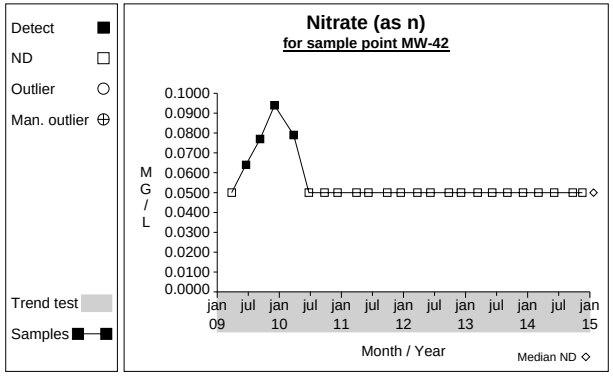


Graph 414

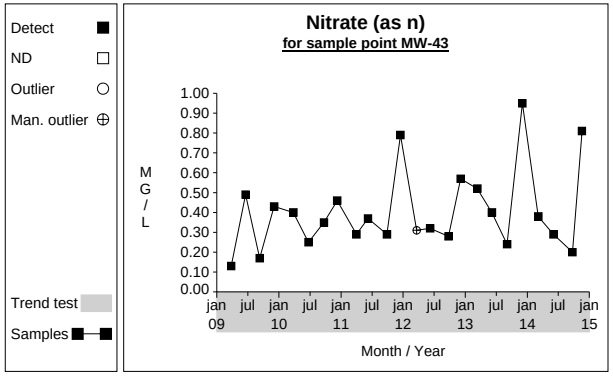
Time Series



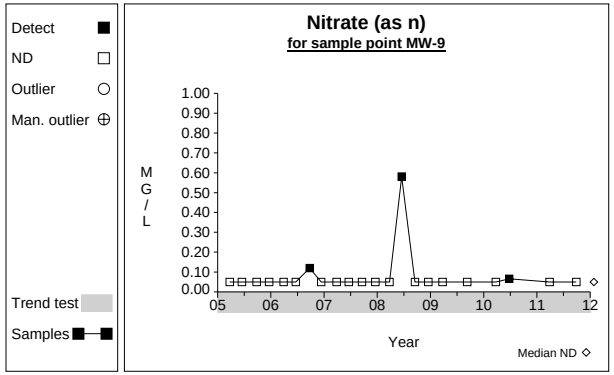
Graph 415



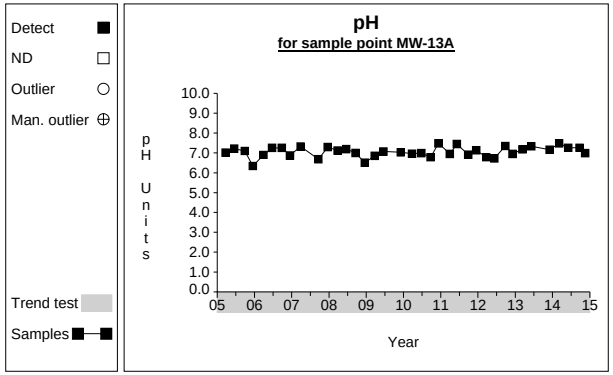
Graph 416



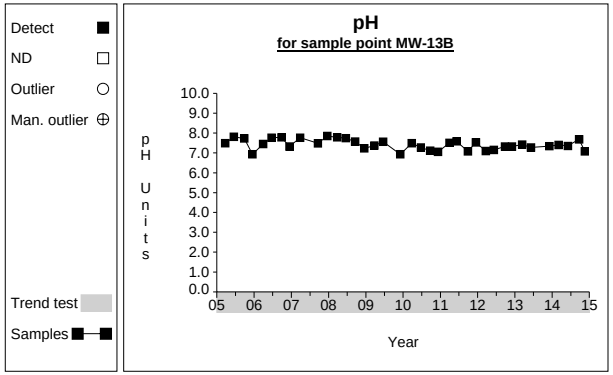
Graph 417



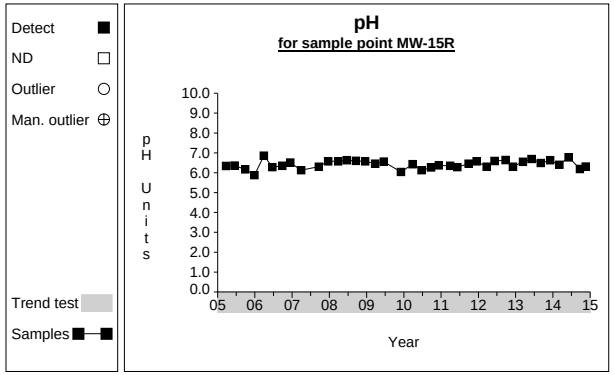
Graph 418



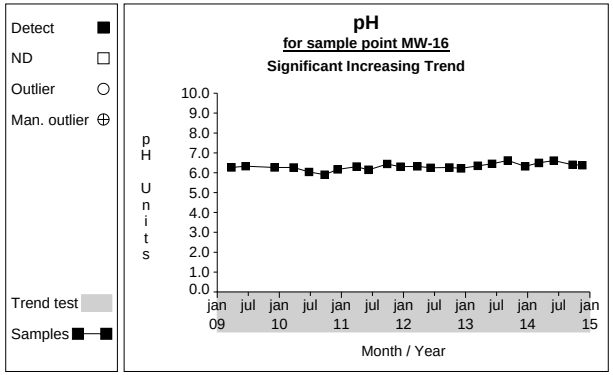
Graph 419



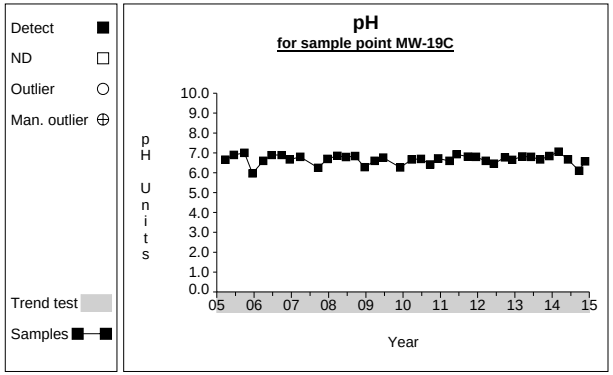
Graph 420



Graph 421

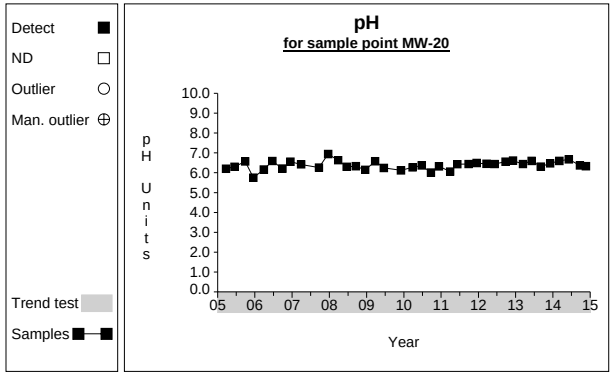


Graph 422

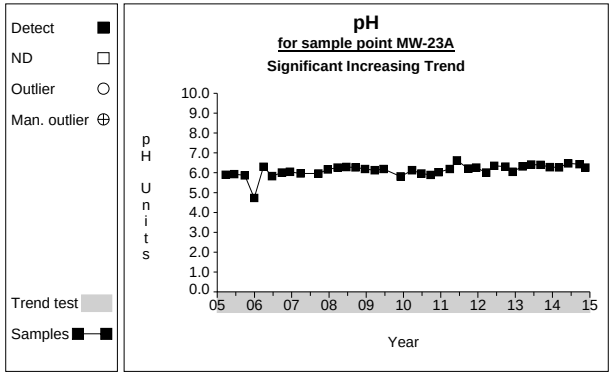


Graph 423

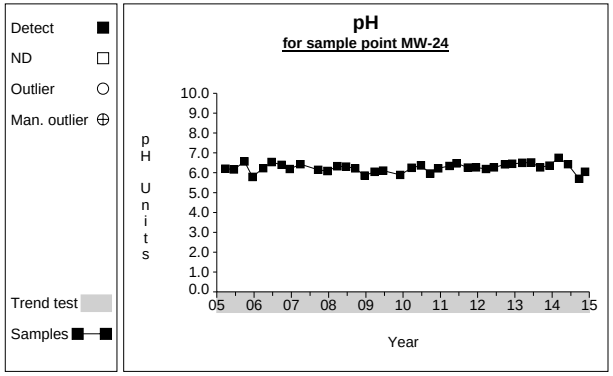
Time Series



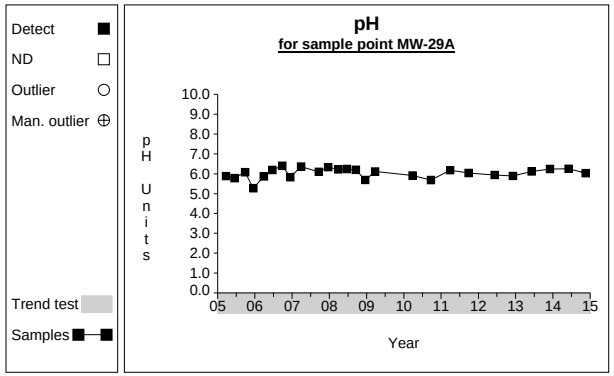
Graph 424



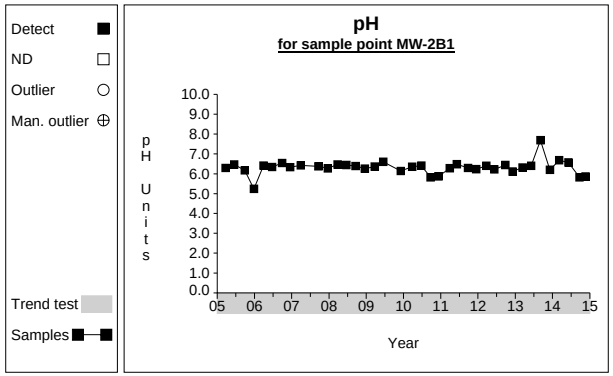
Graph 425



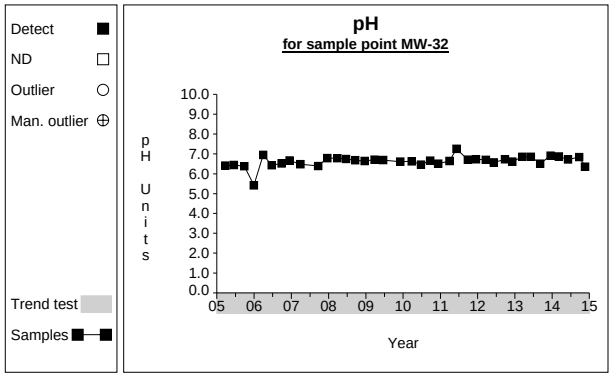
Graph 426



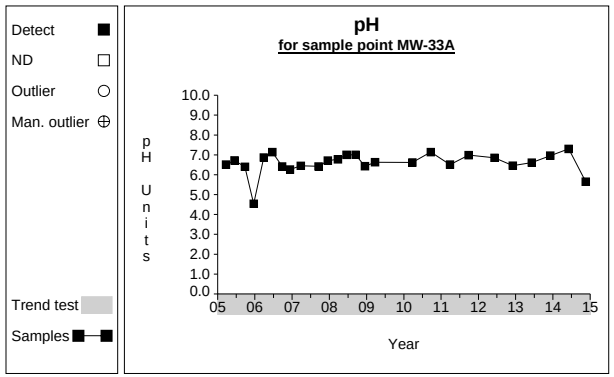
Graph 427



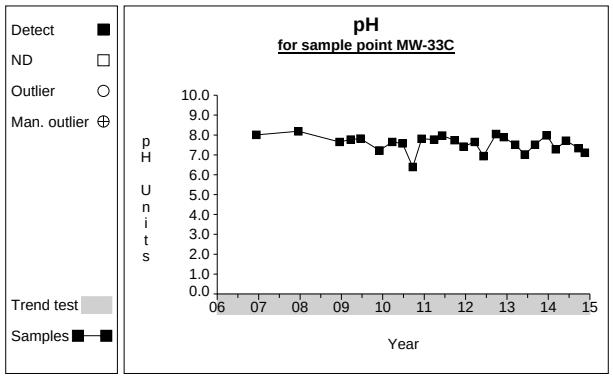
Graph 428



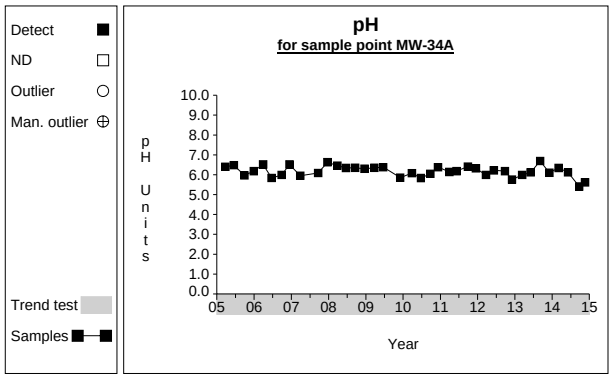
Graph 429



Graph 430

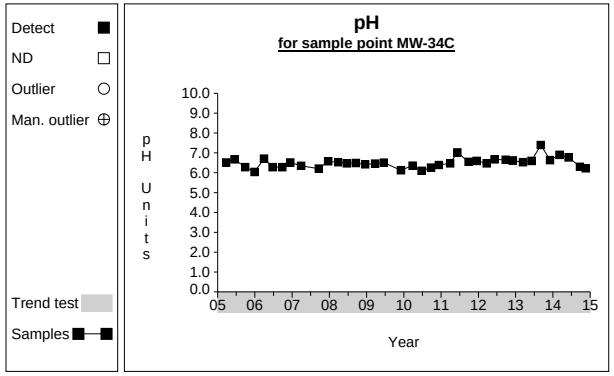


Graph 431

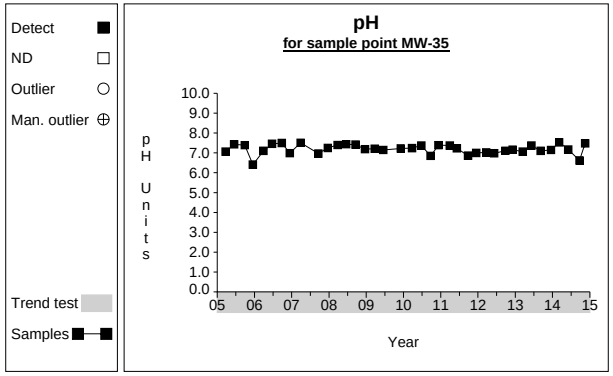


Graph 432

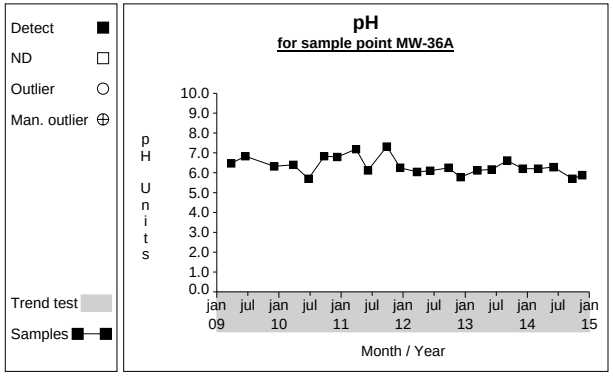
Time Series



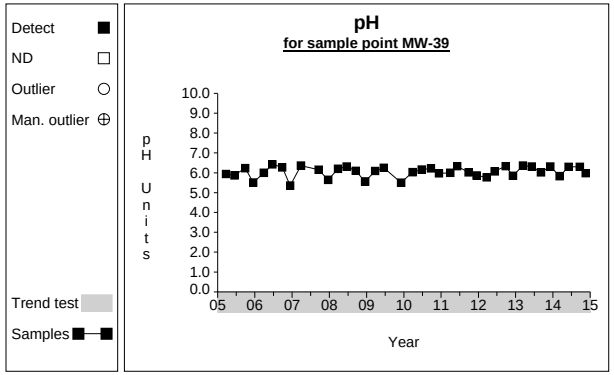
Graph 433



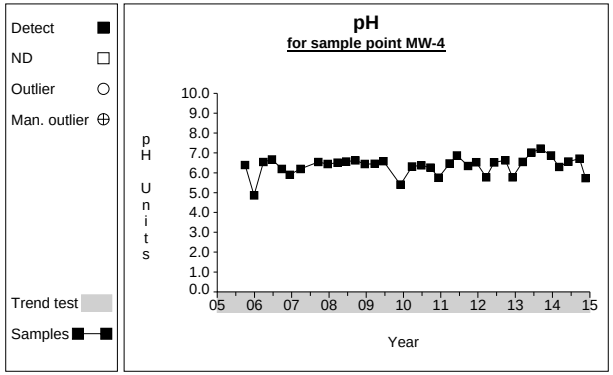
Graph 434



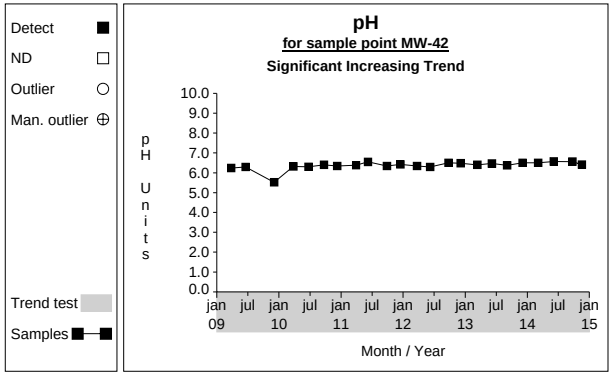
Graph 435



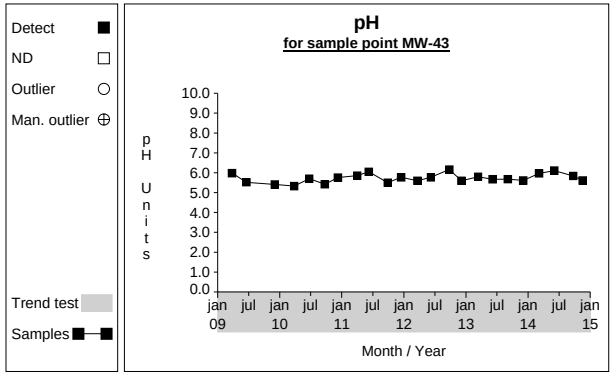
Graph 436



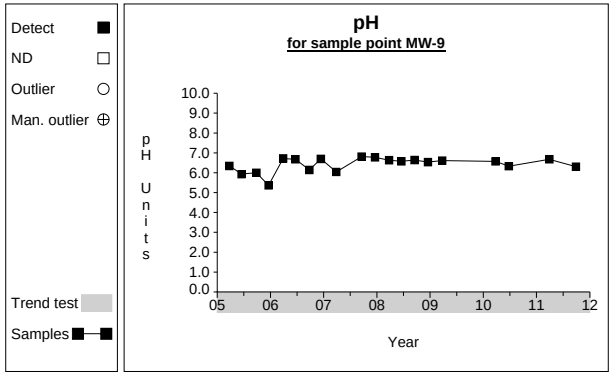
Graph 437



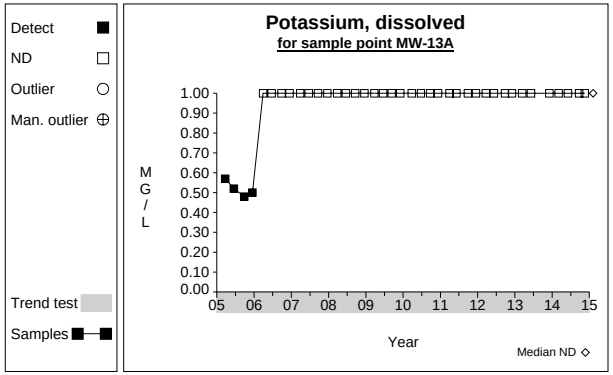
Graph 438



Graph 439

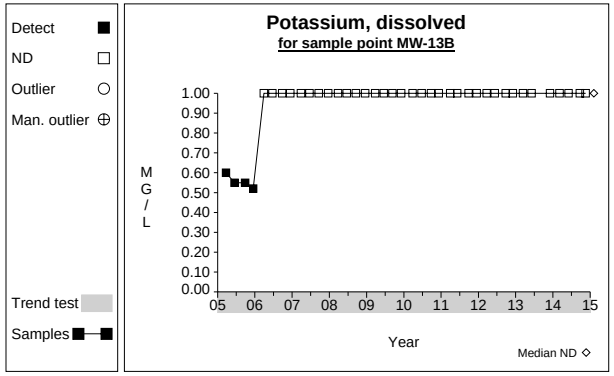


Graph 440

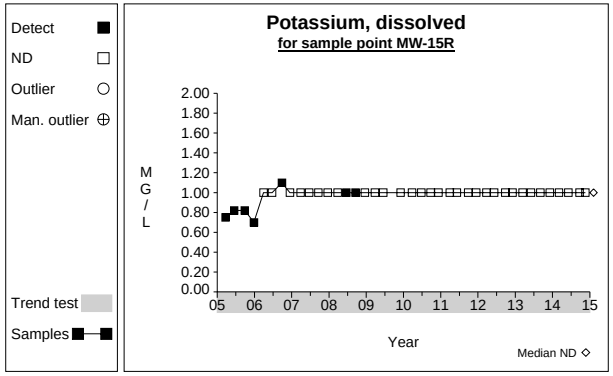


Graph 441

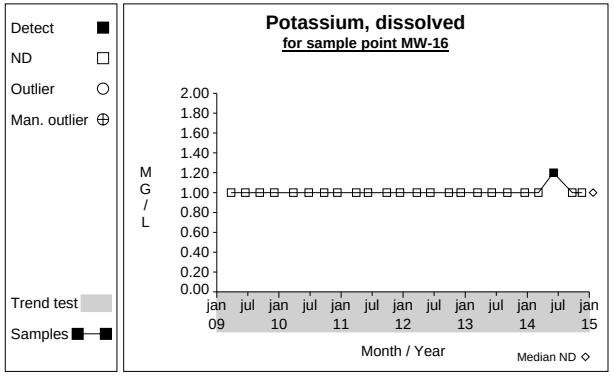
Time Series



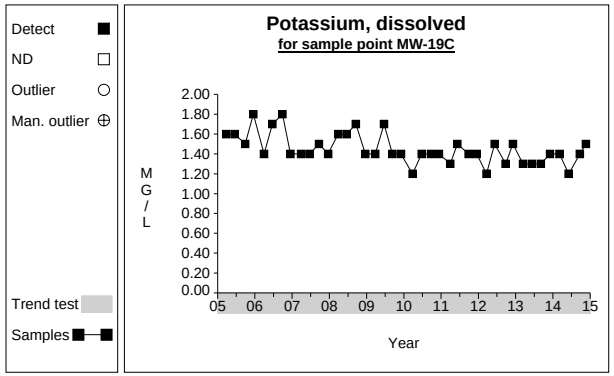
Graph 442



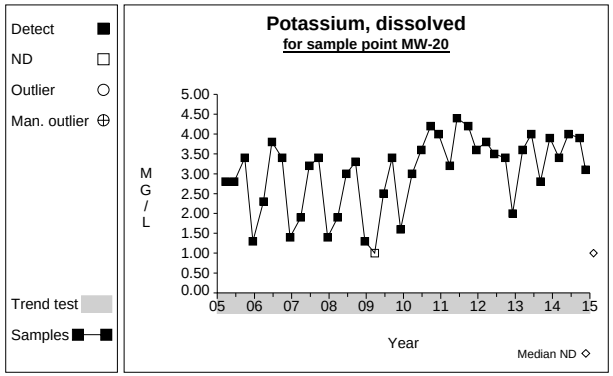
Graph 443



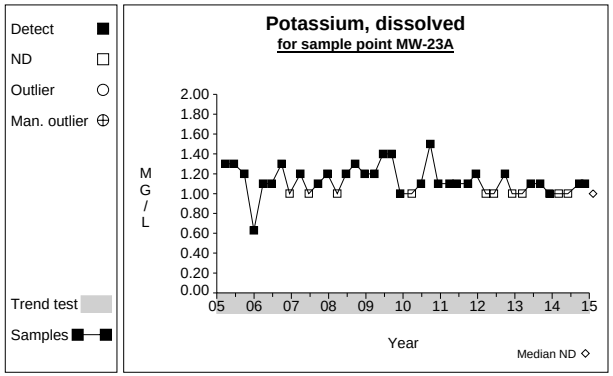
Graph 444



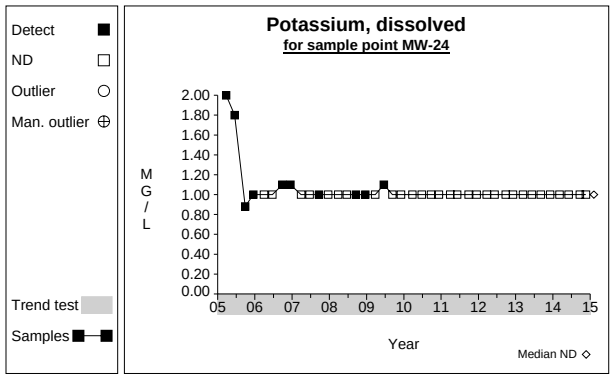
Graph 445



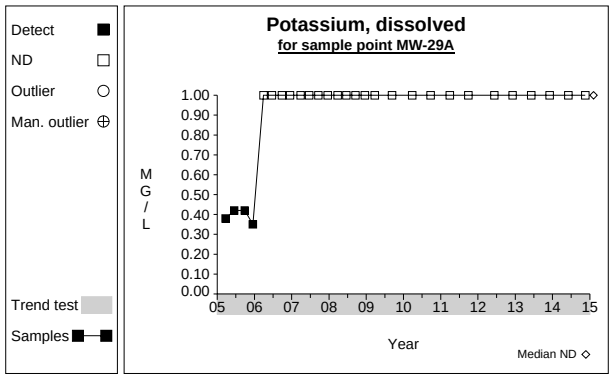
Graph 446



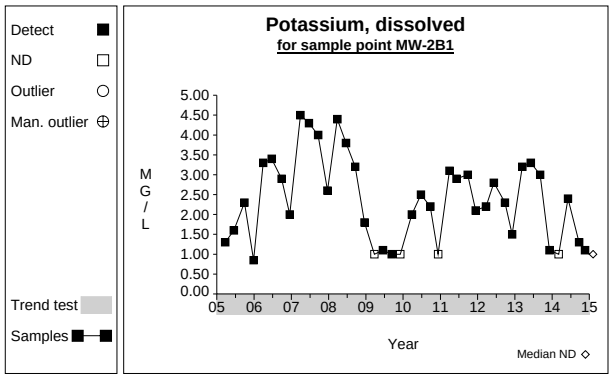
Graph 447



Graph 448

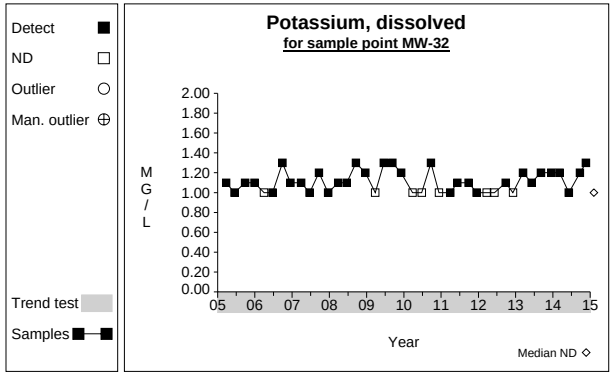


Graph 449

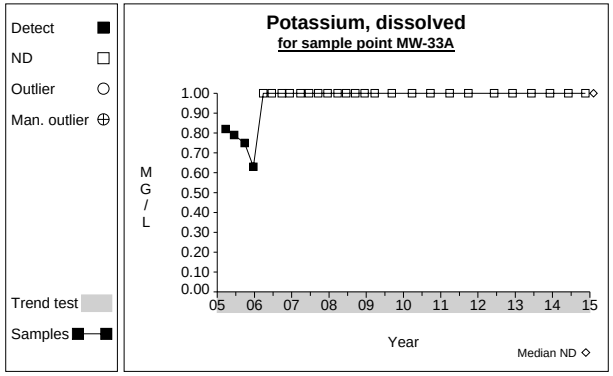


Graph 450

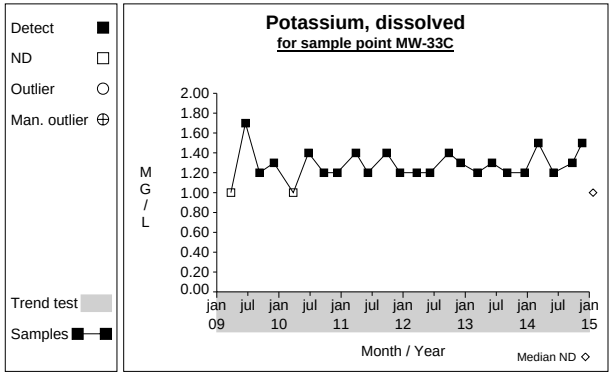
Time Series



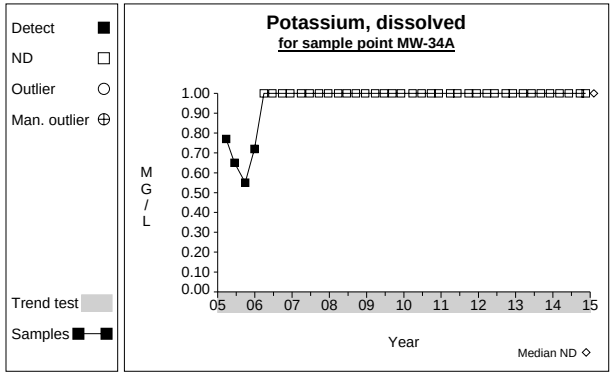
Graph 451



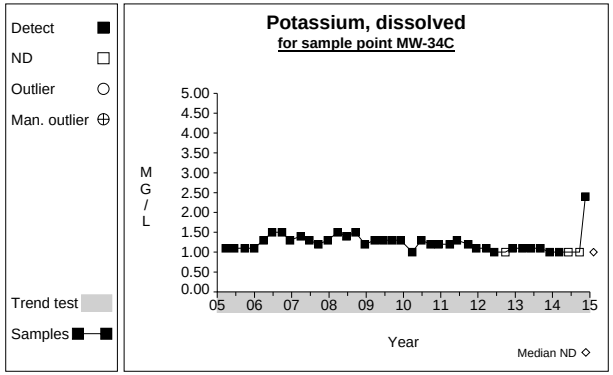
Graph 452



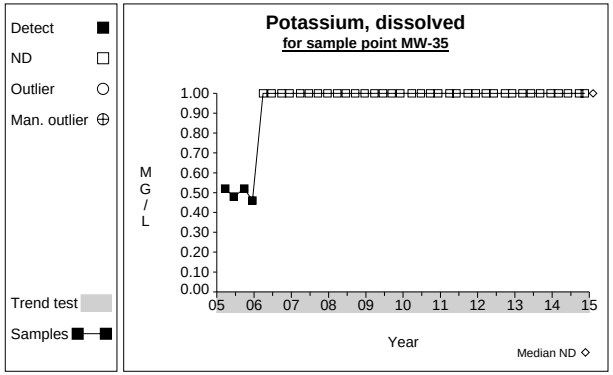
Graph 453



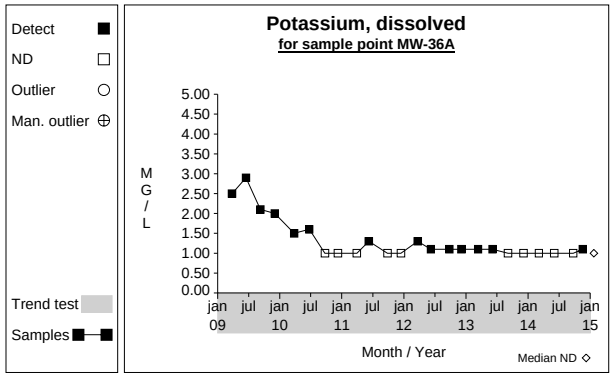
Graph 454



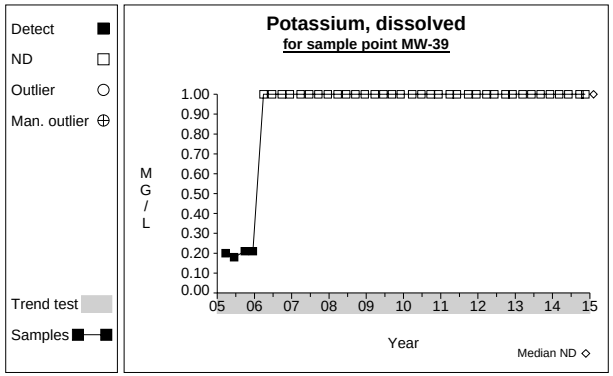
Graph 455



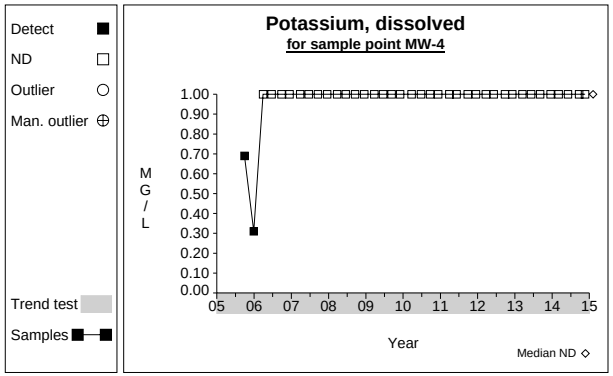
Graph 456



Graph 457

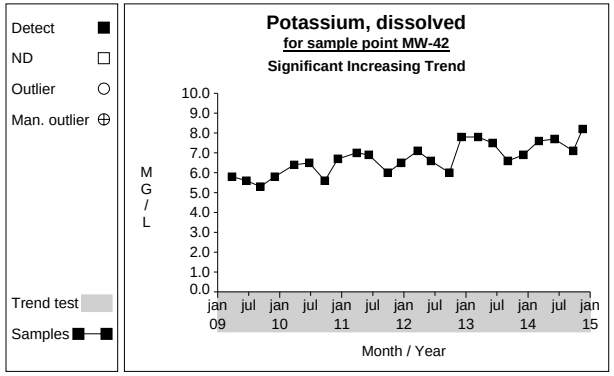


Graph 458

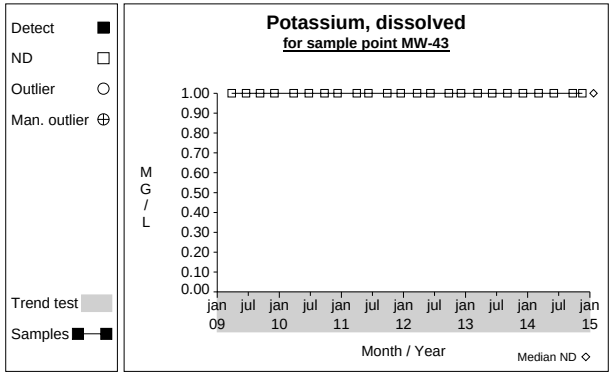


Graph 459

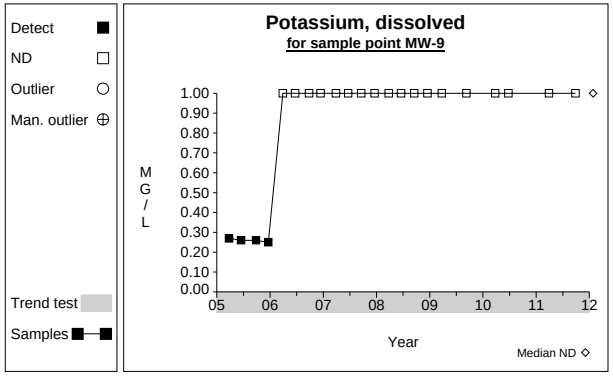
Time Series



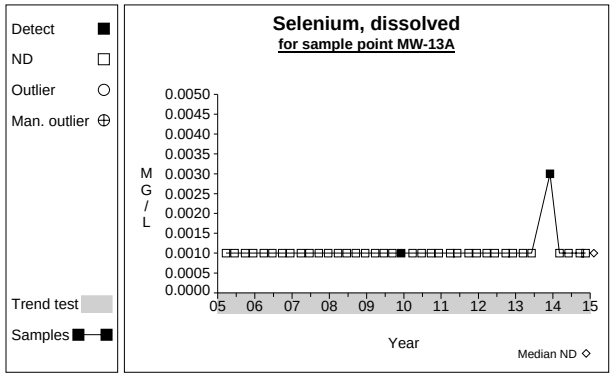
Graph 460



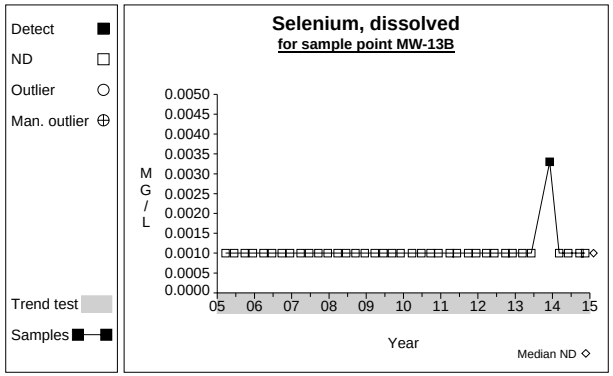
Graph 461



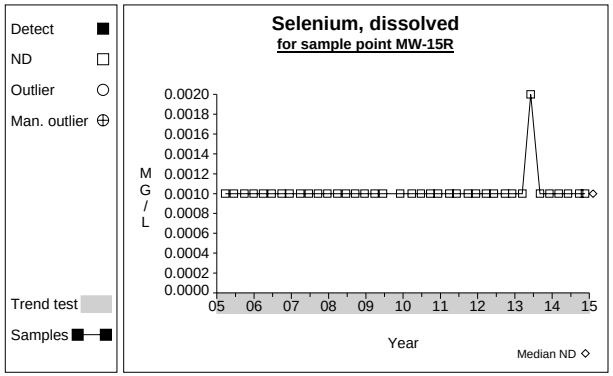
Graph 462



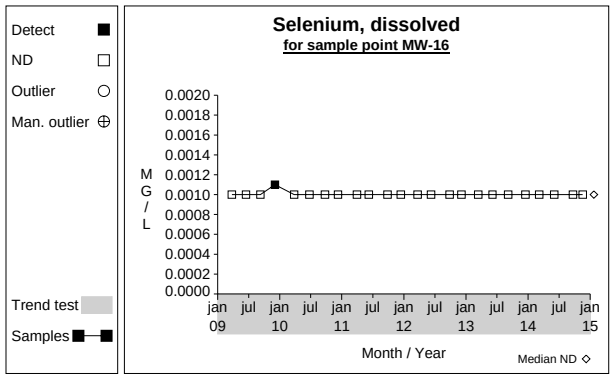
Graph 463



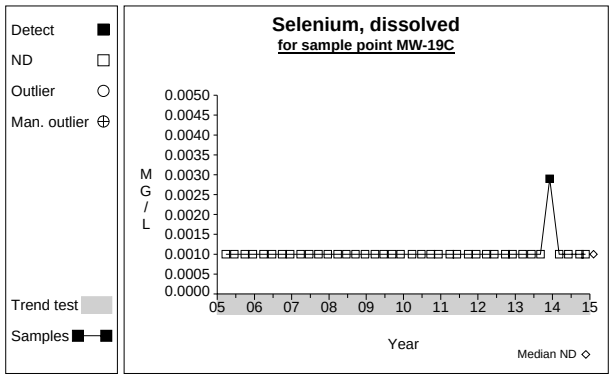
Graph 464



Graph 465



Graph 466



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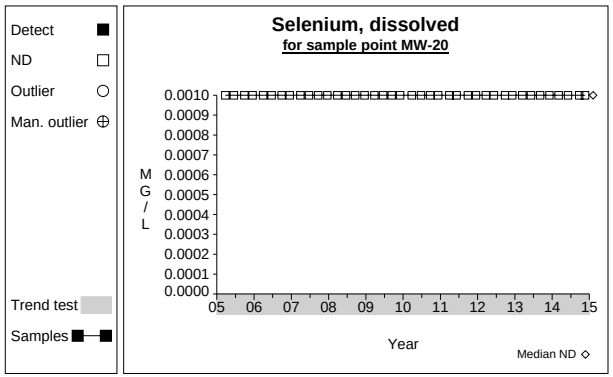
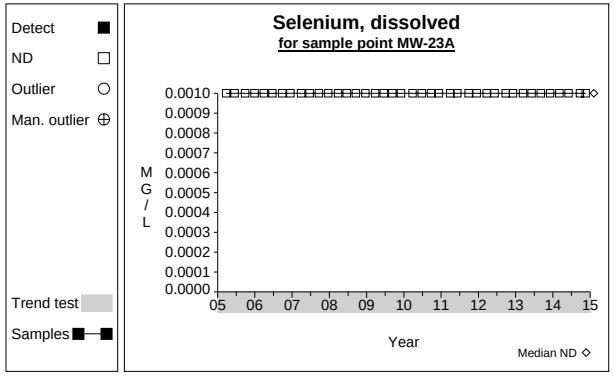
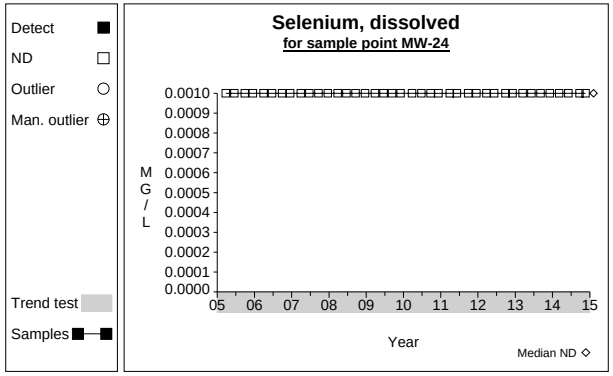


Graph 468

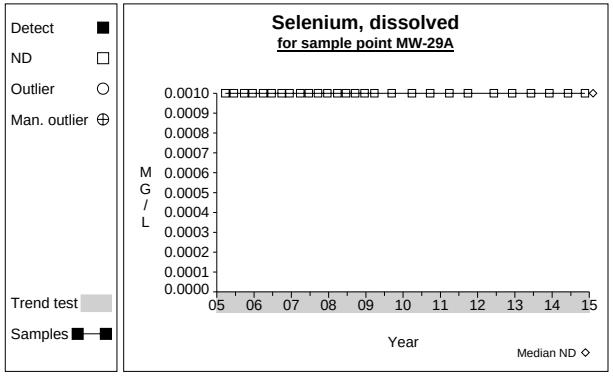
Time Series



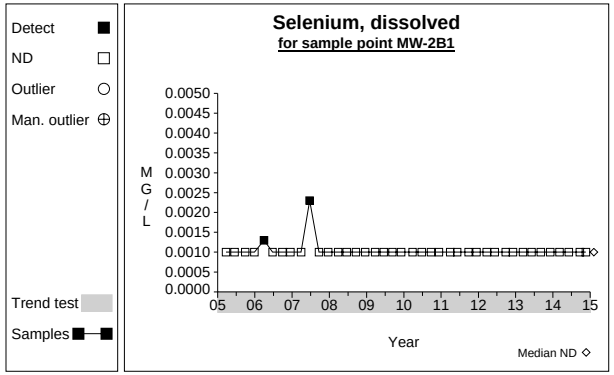
Graph 469



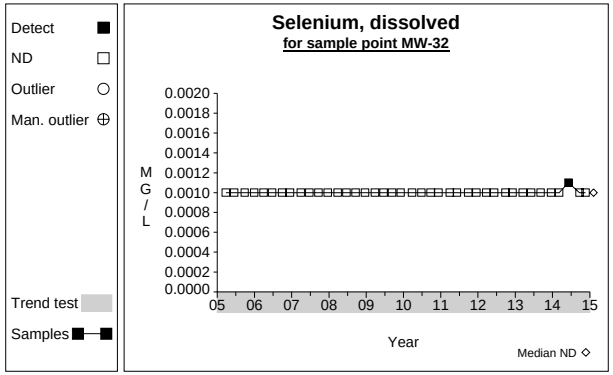
Graph 470



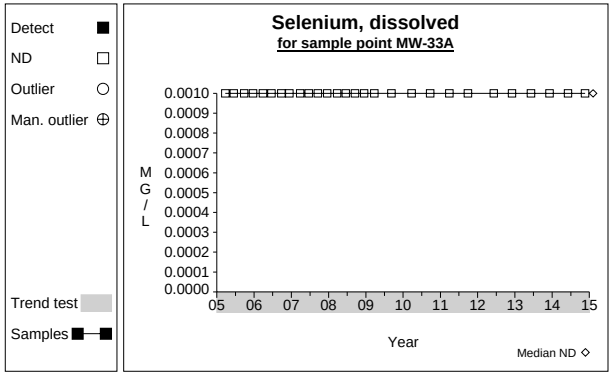
Graph 471



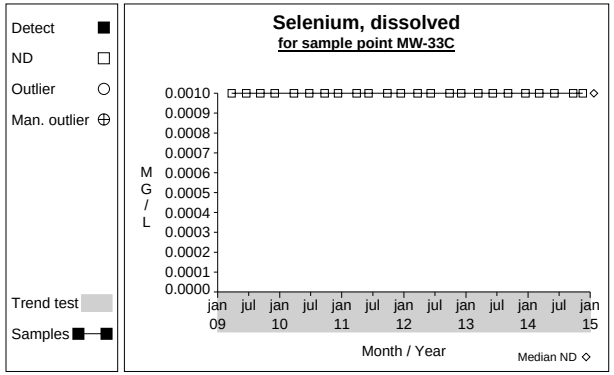
Graph 472



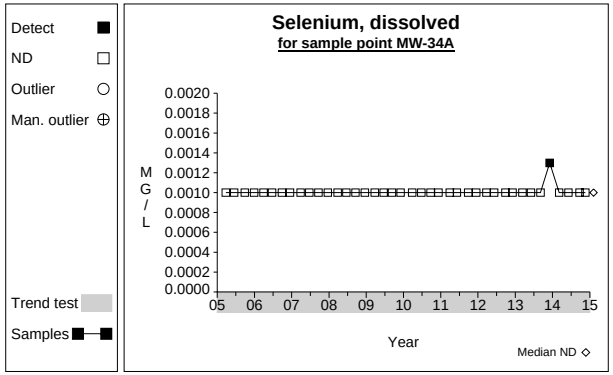
Graph 473



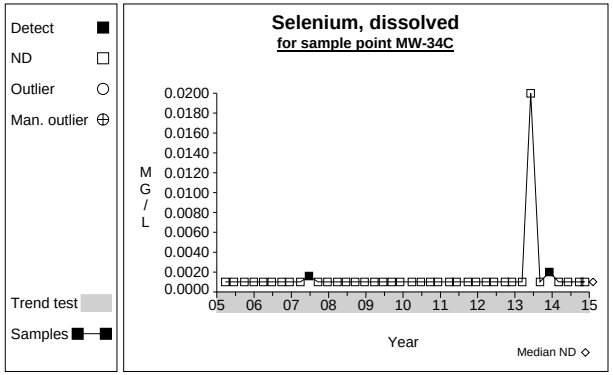
Graph 474



Graph 475

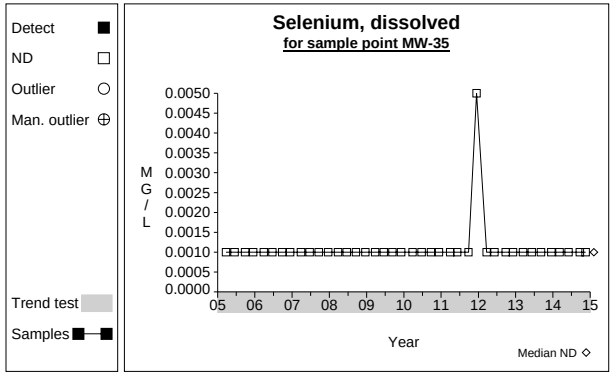


Graph 476

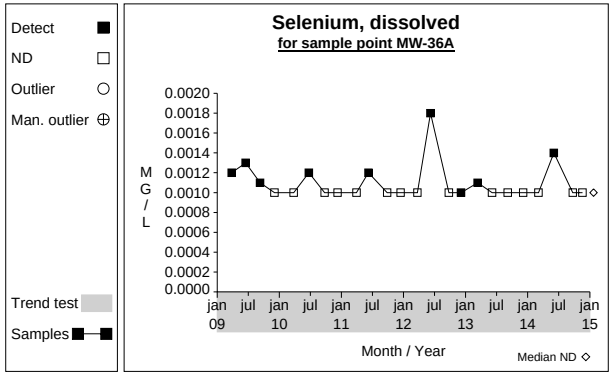


Graph 477

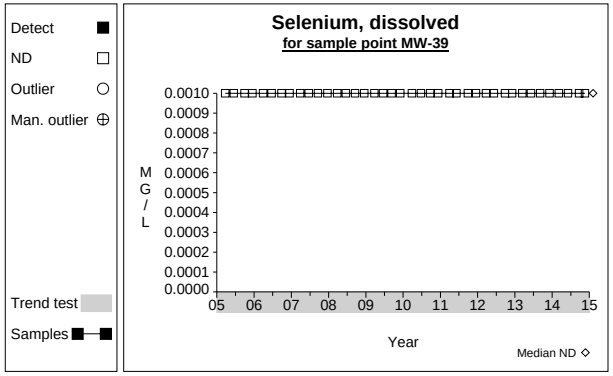
Time Series



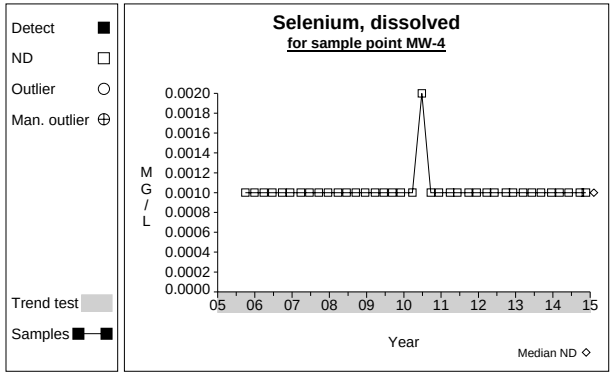
Graph 478



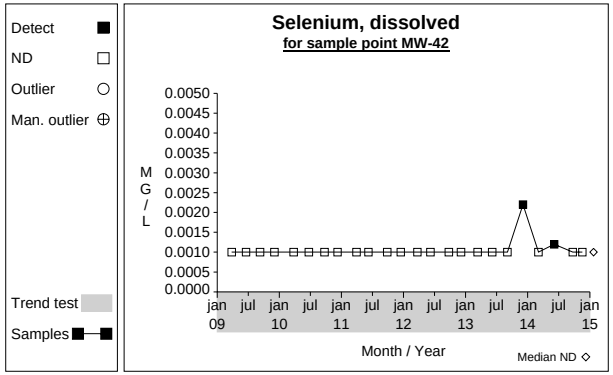
Graph 479



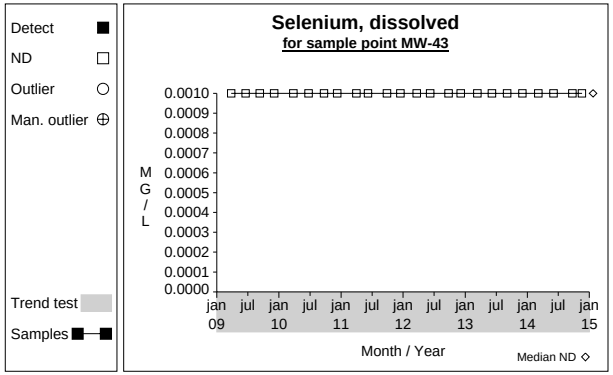
Graph 480



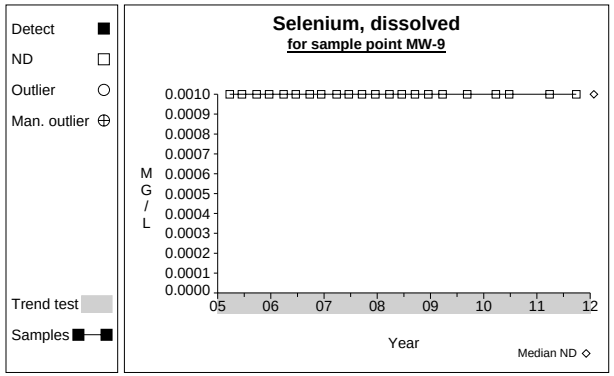
Graph 481



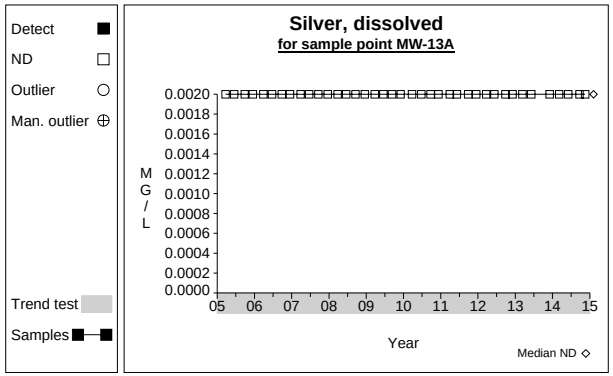
Graph 482



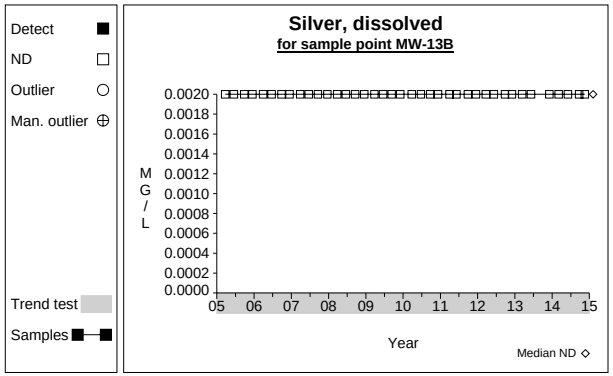
Graph 483



Graph 484

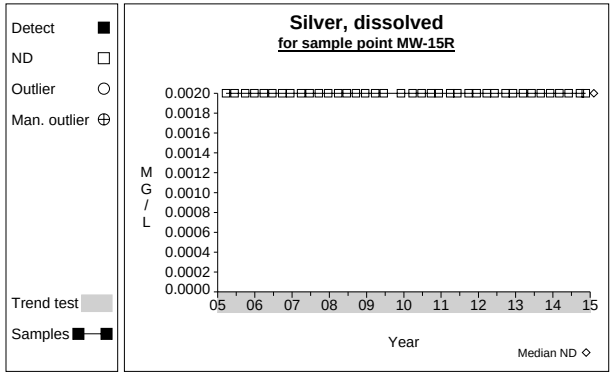


Graph 485

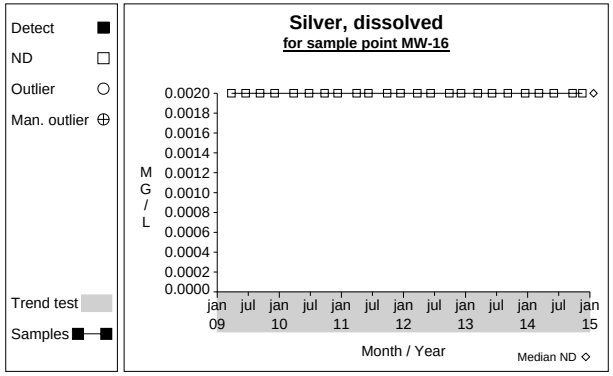


Graph 486

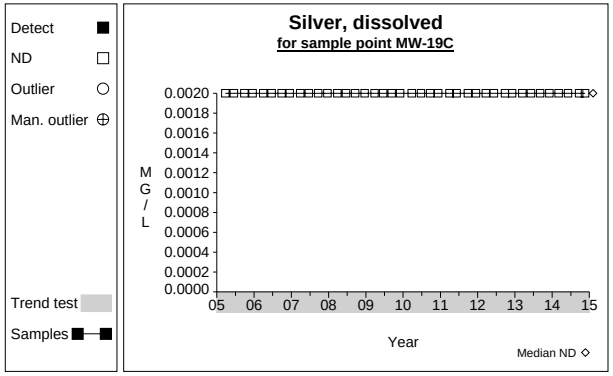
Time Series



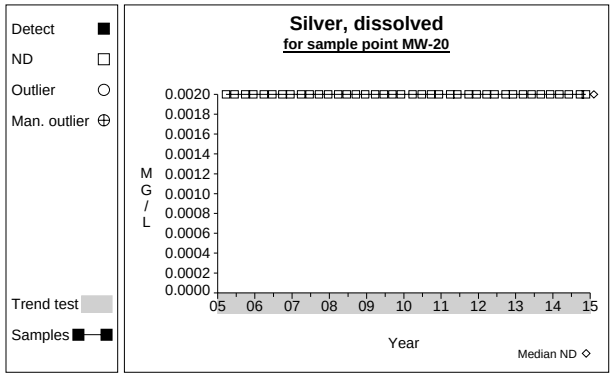
Graph 487



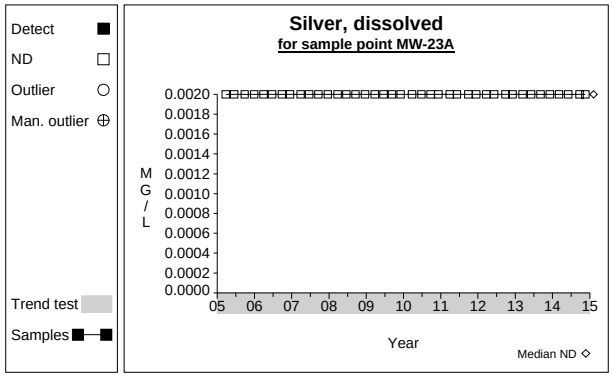
Graph 488



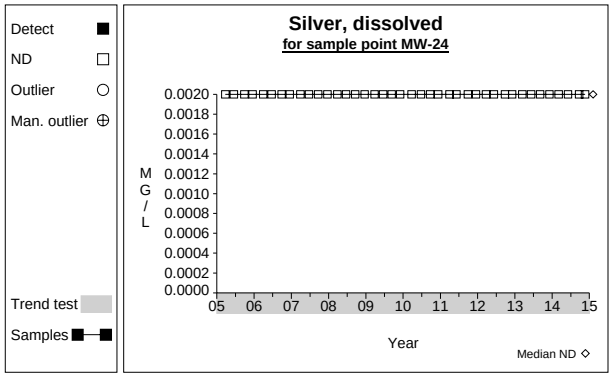
Graph 489



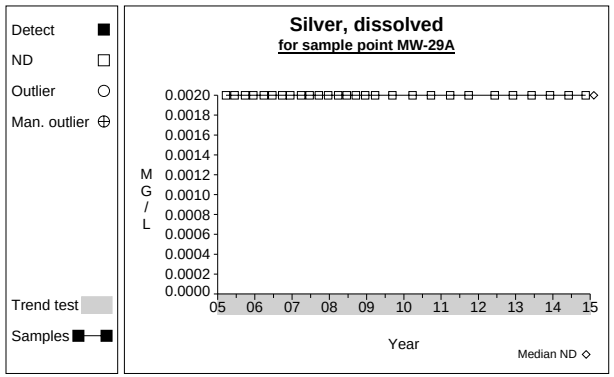
Graph 490



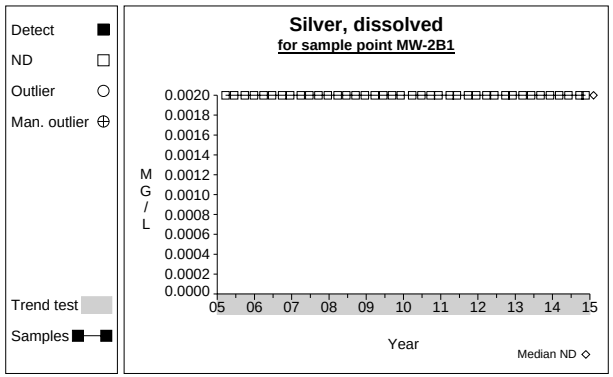
Graph 491



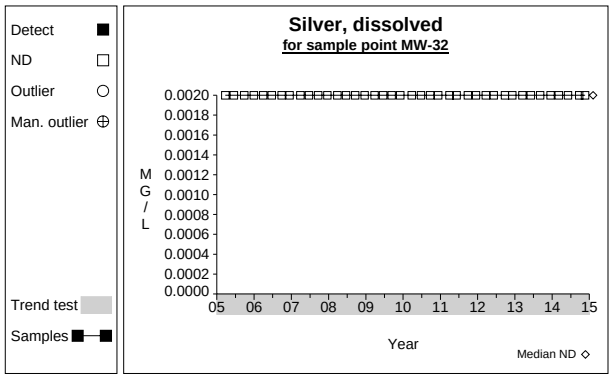
Graph 492



Graph 493

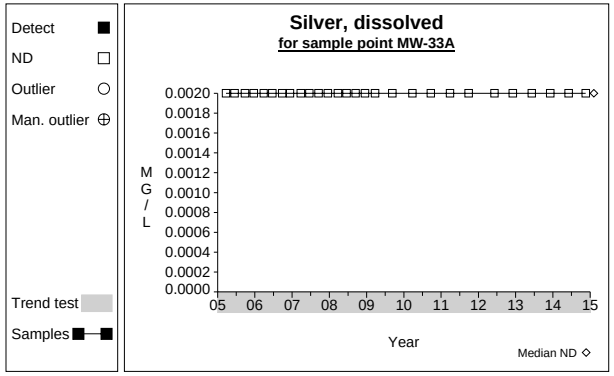


Graph 494

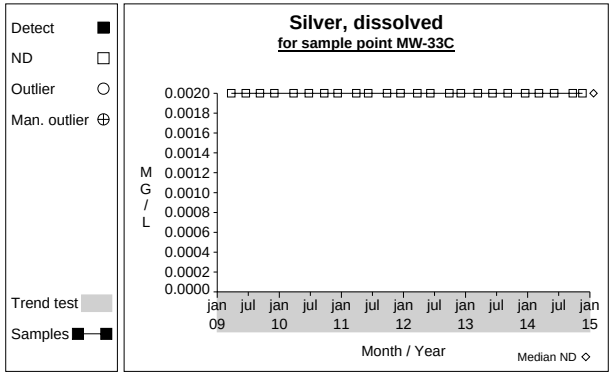


Graph 495

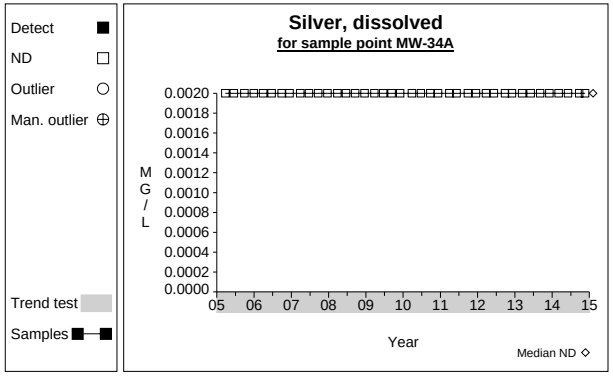
Time Series



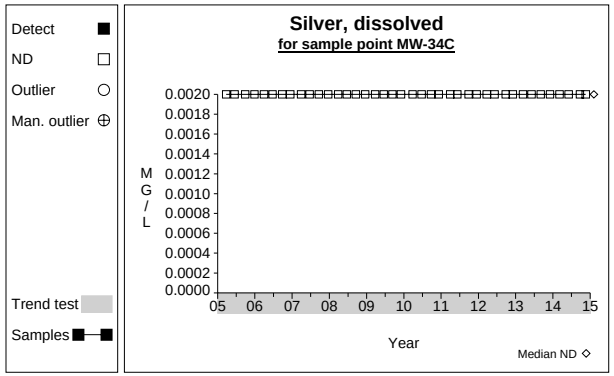
Graph 496



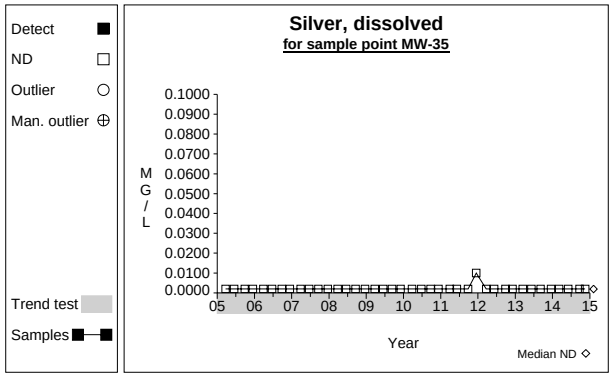
Graph 497



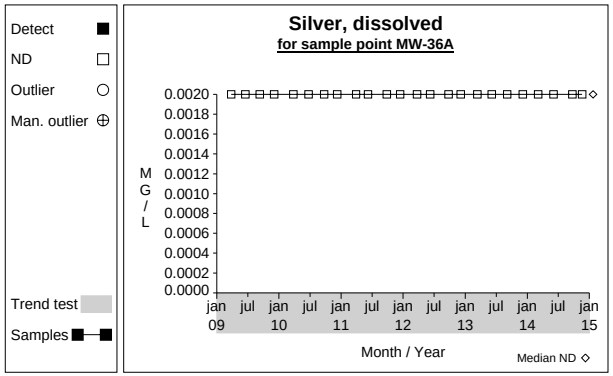
Graph 498



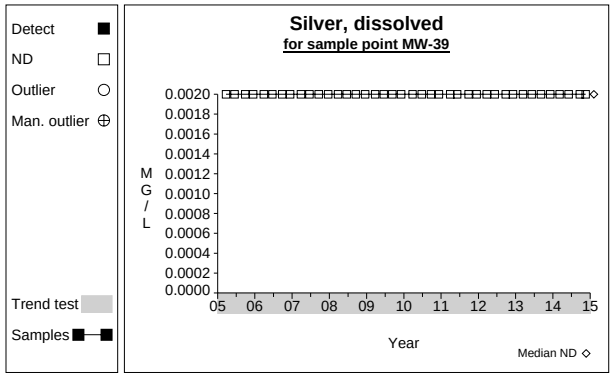
Graph 499



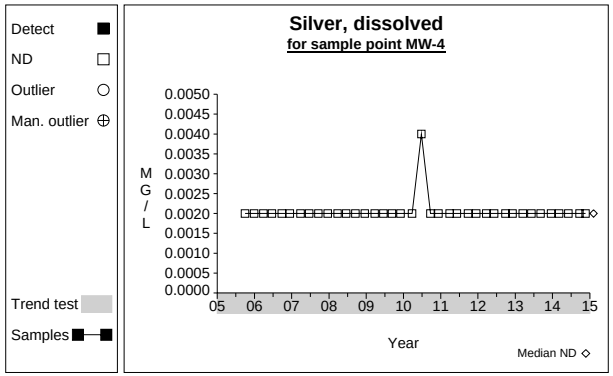
Graph 500



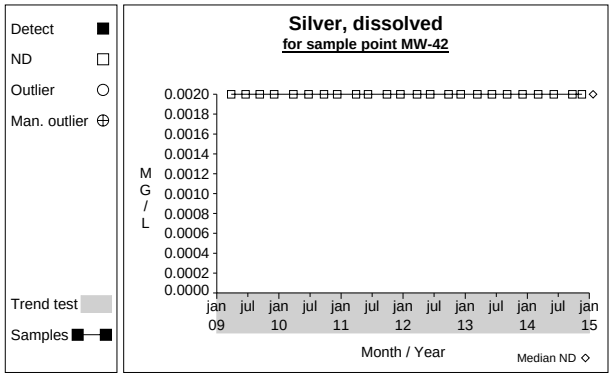
Graph 501



Graph 502

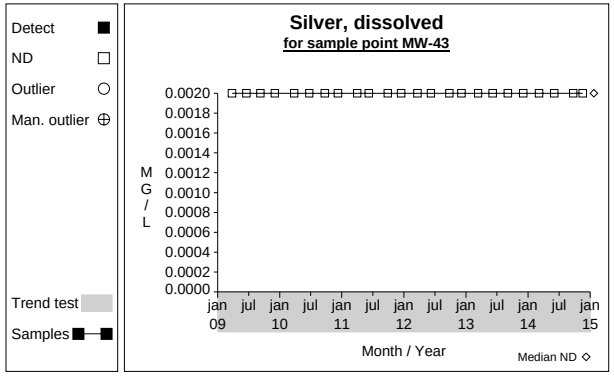


Graph 503

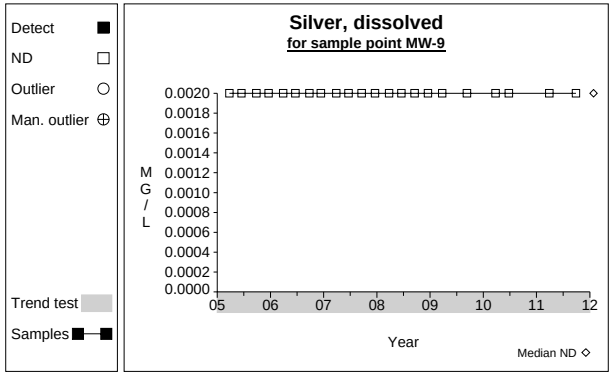


Graph 504

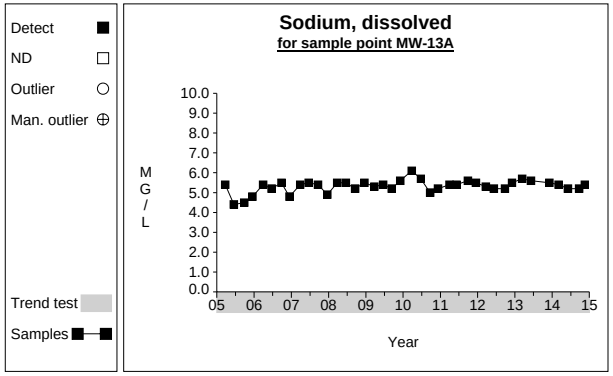
Time Series



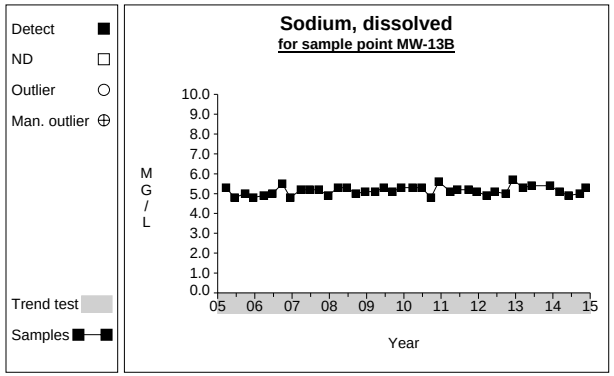
Graph 505



Graph 506



Graph 507



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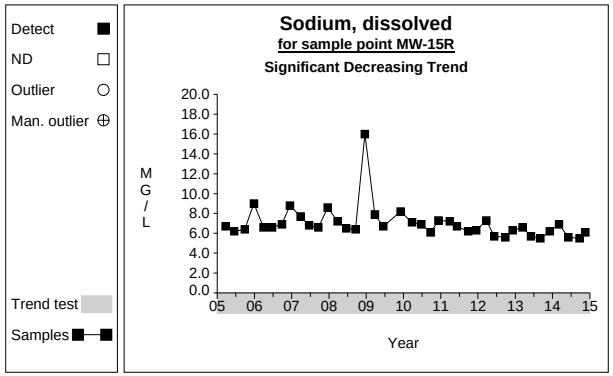
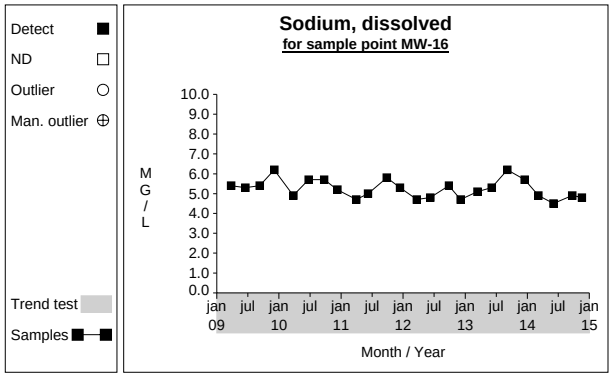
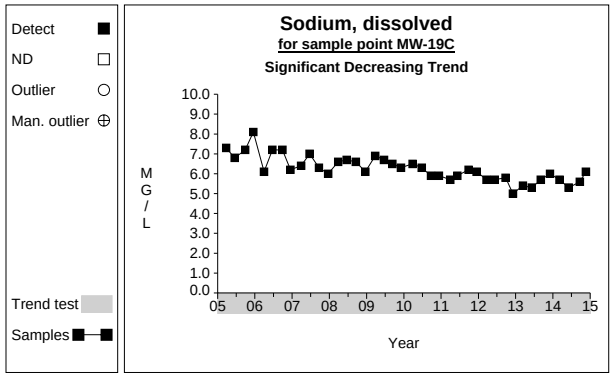


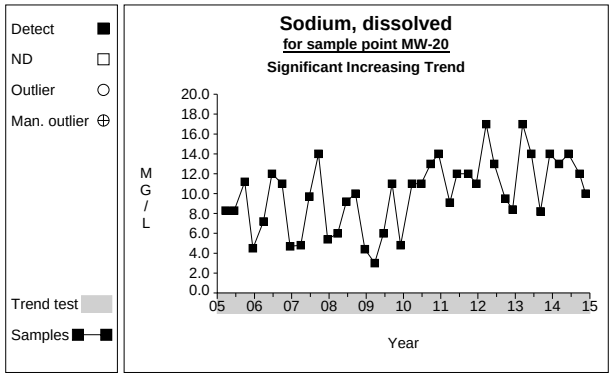
Graph 509



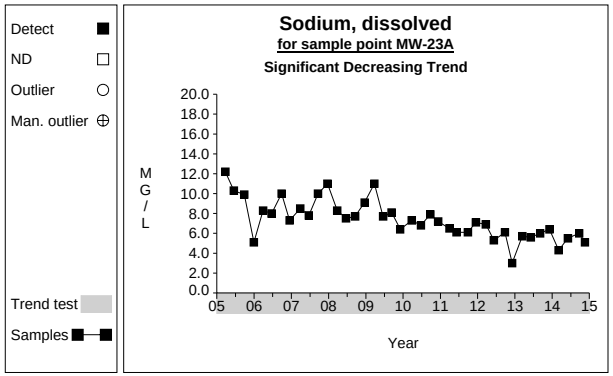
Graph 510



Graph 511

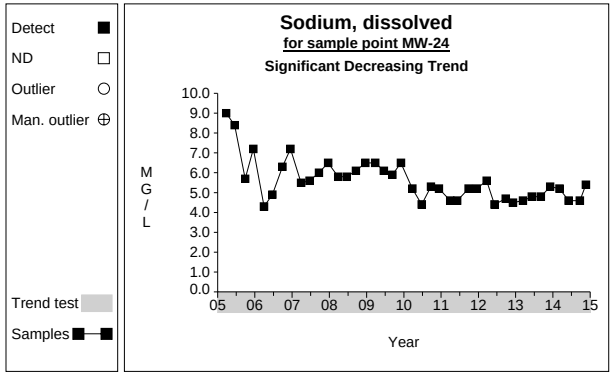


Graph 512

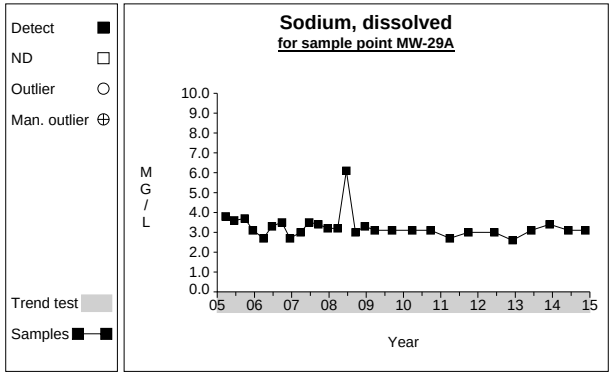


Graph 513

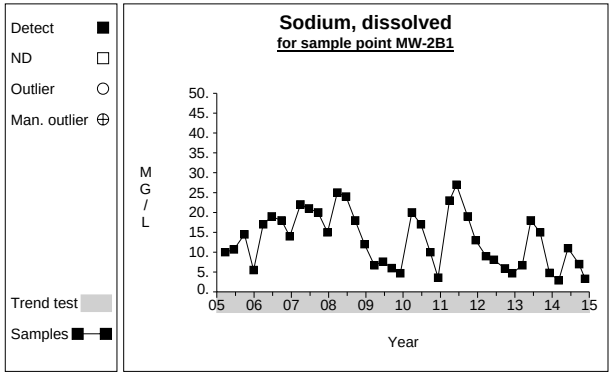
Time Series



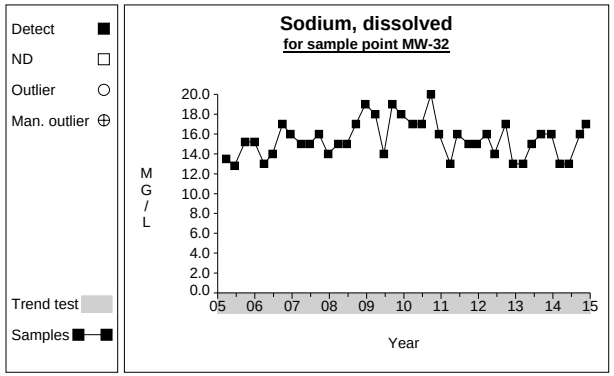
Graph 514



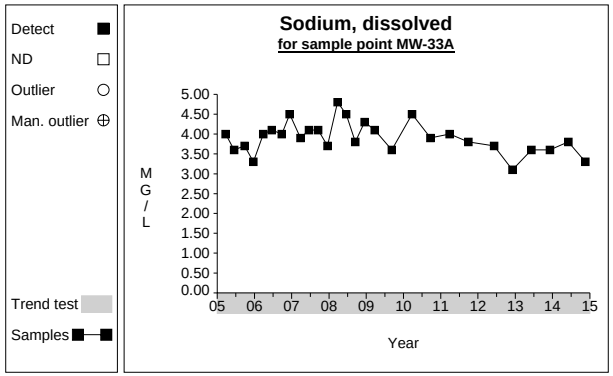
Graph 515



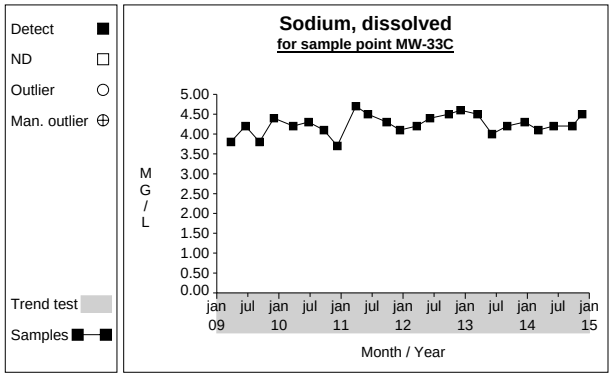
Graph 516



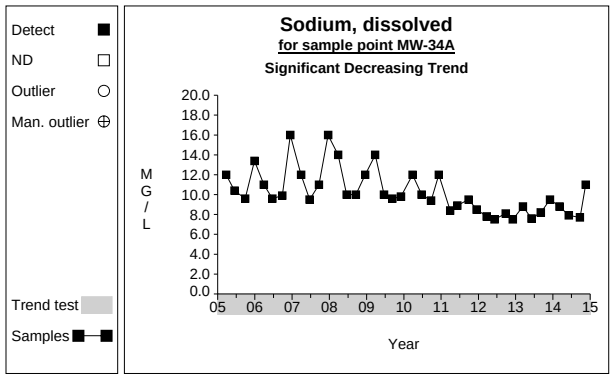
Graph 517



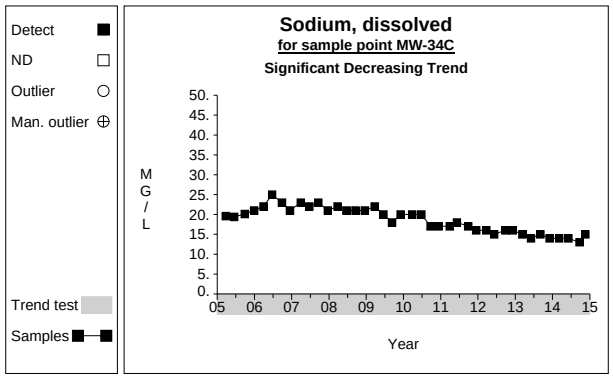
Graph 518



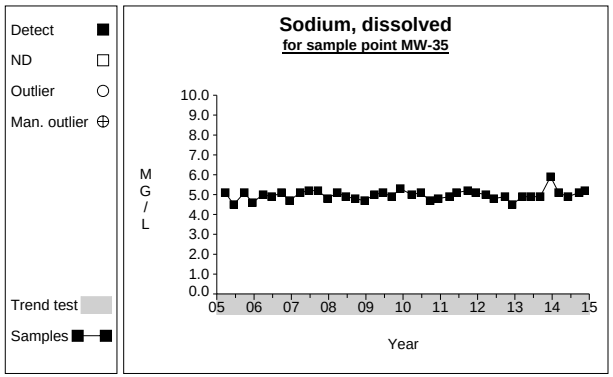
Graph 519



Graph 520

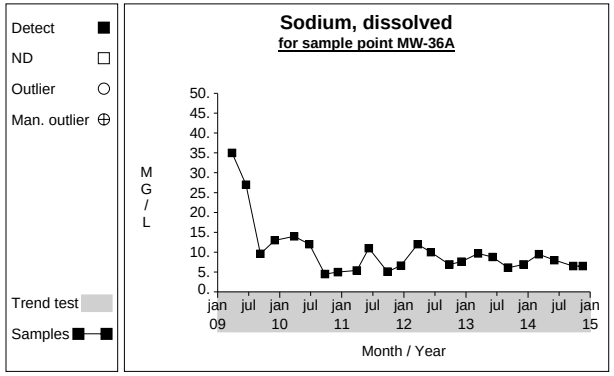


Graph 521

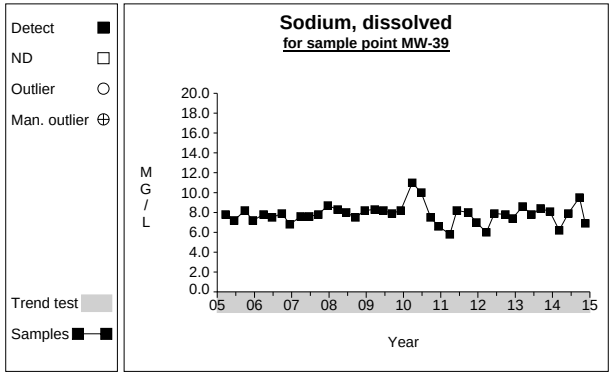


Graph 522

Time Series



Graph 523



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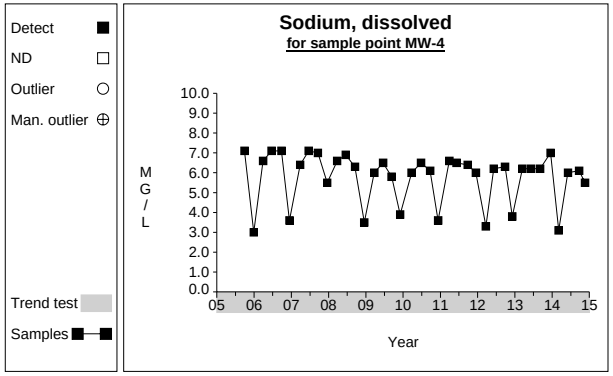
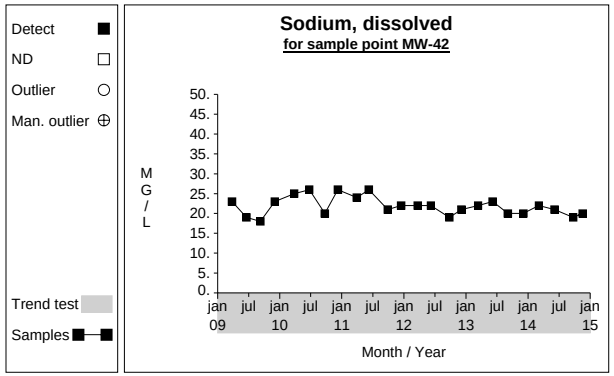


Graph 525



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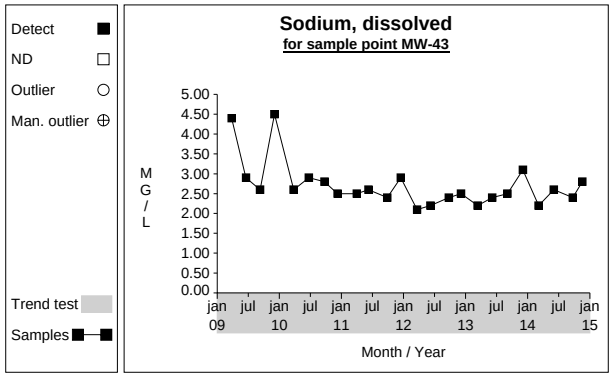

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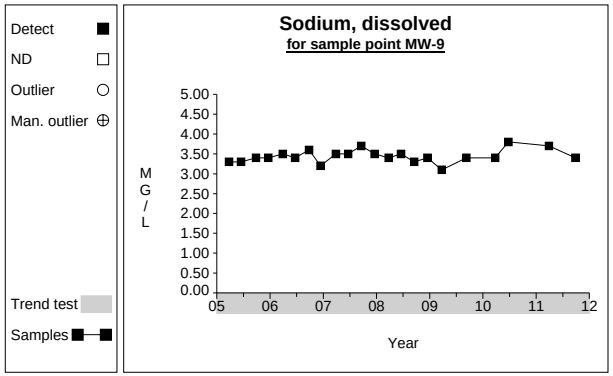

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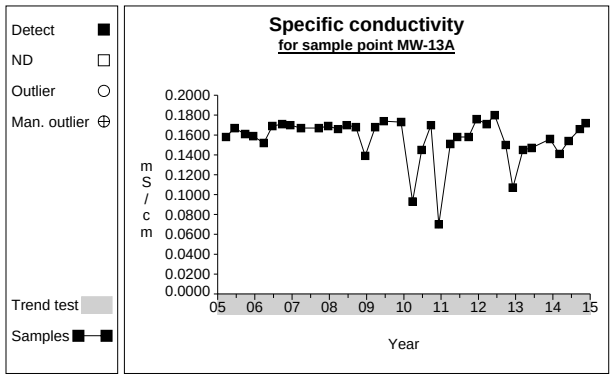

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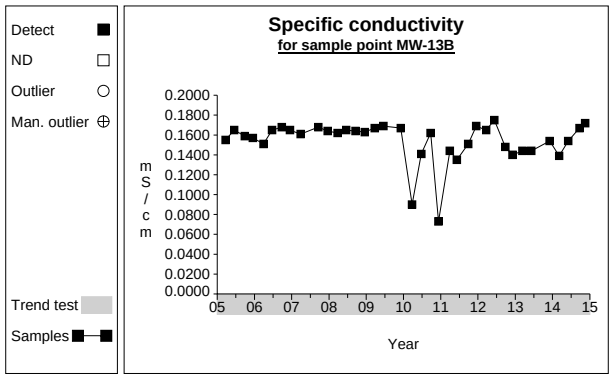

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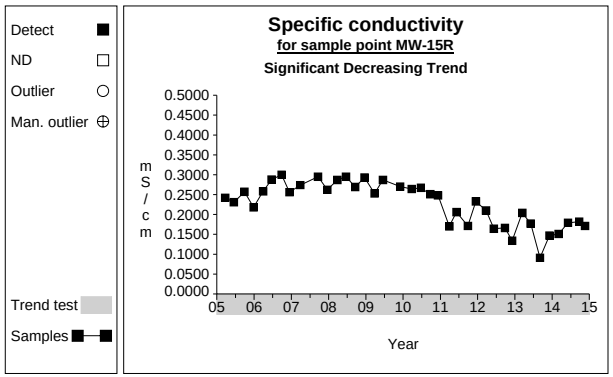
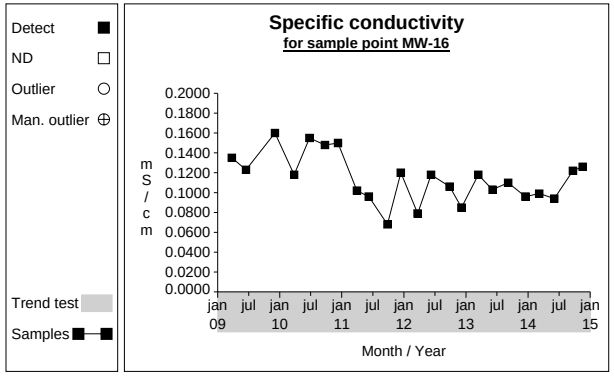


Graph 531

Time Series



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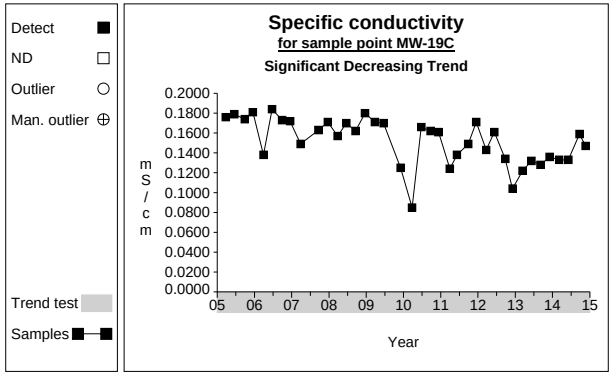

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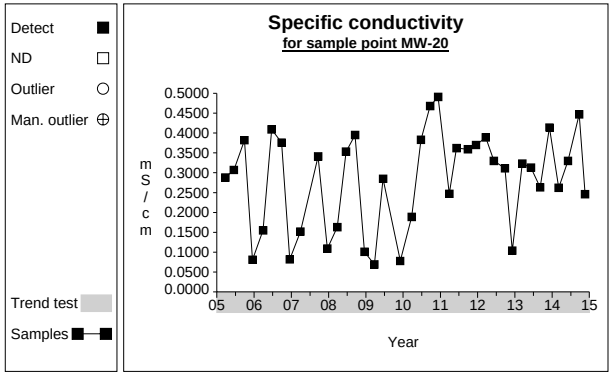

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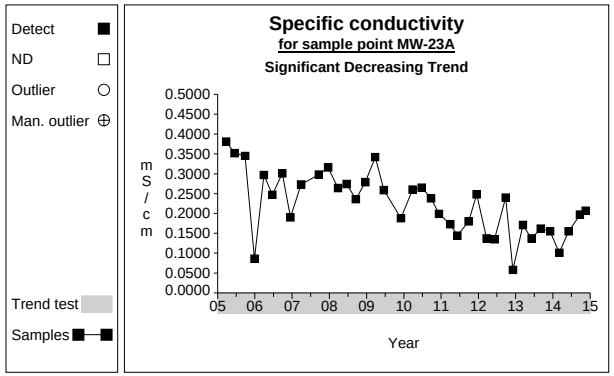
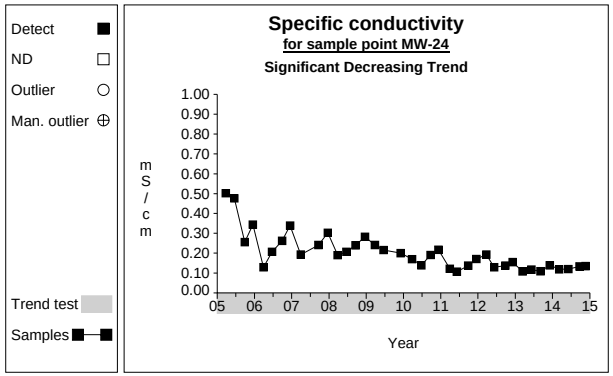
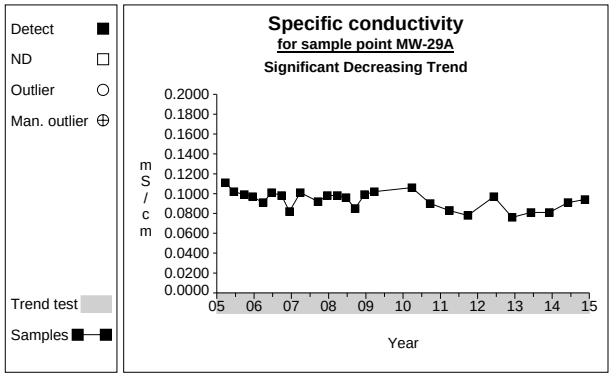


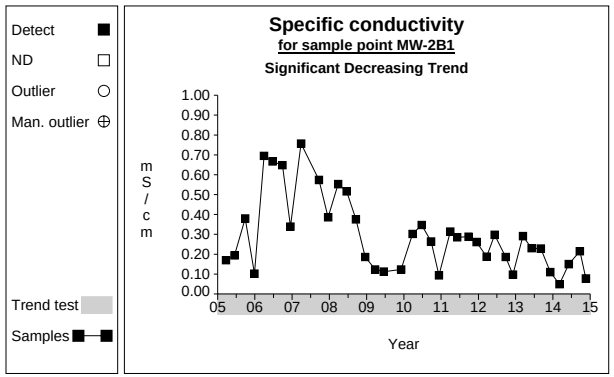
Graph 535



Graph 536



Graph 537



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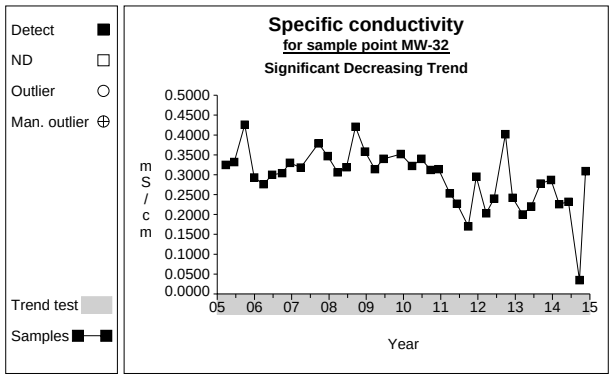
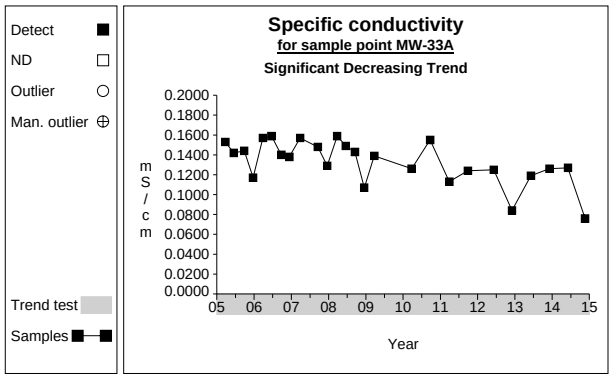
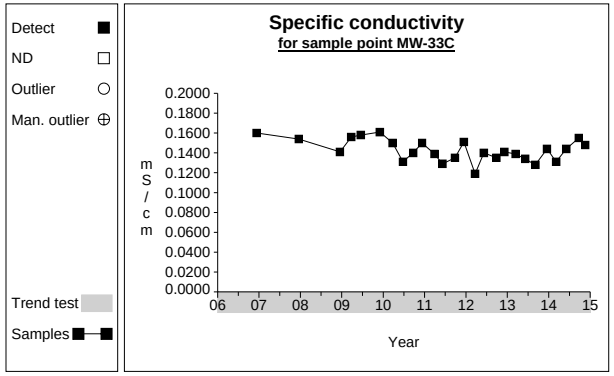


Graph 539

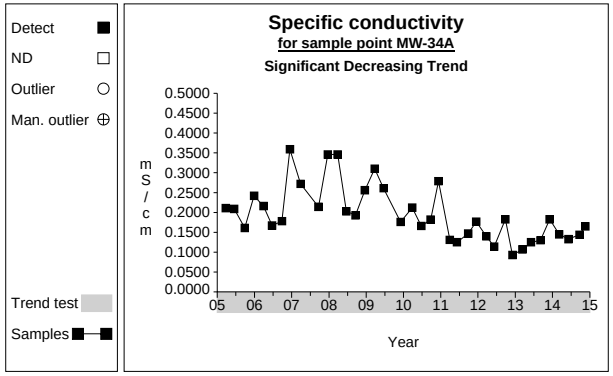


Graph 540

Time Series



Graph 541



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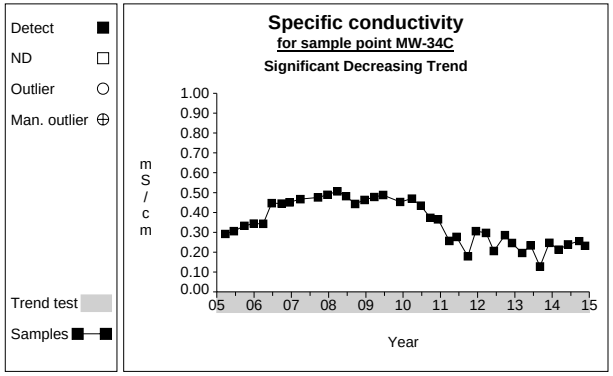

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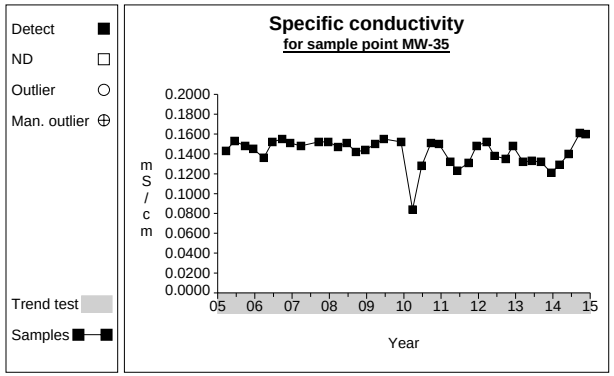

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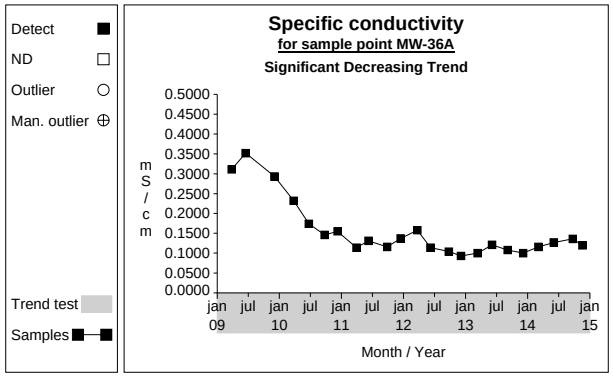

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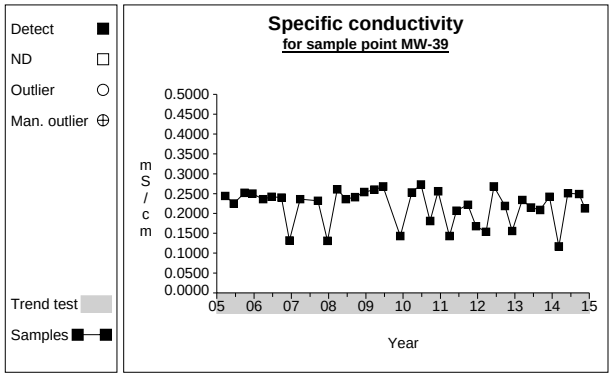

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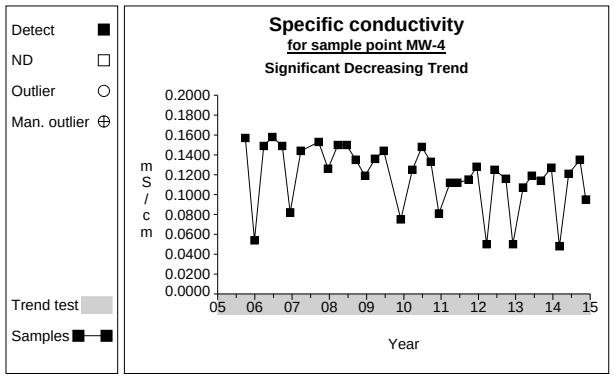
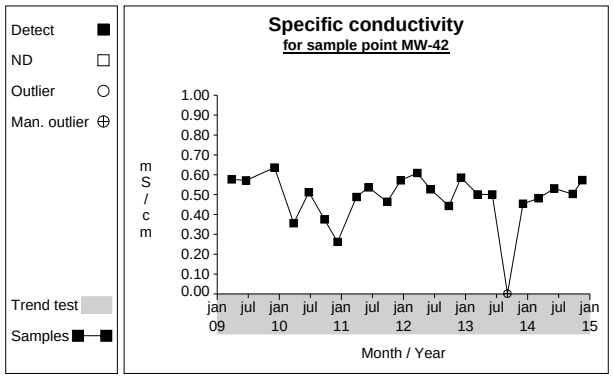


Graph 547



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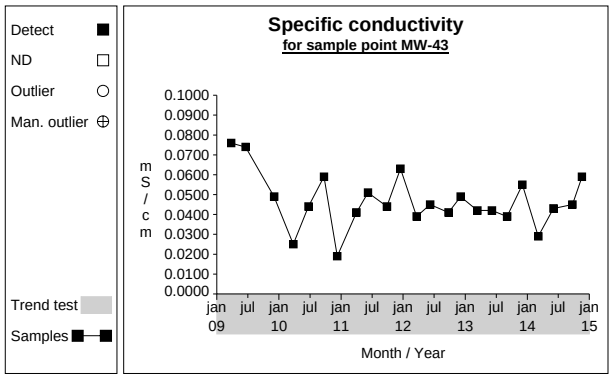
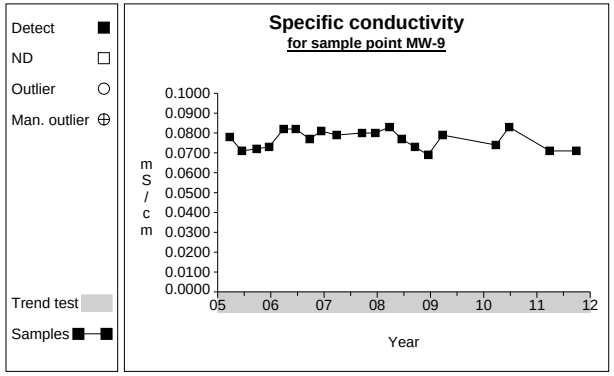
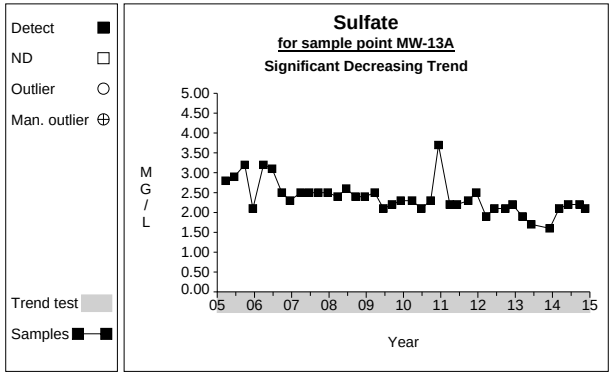


Graph 549

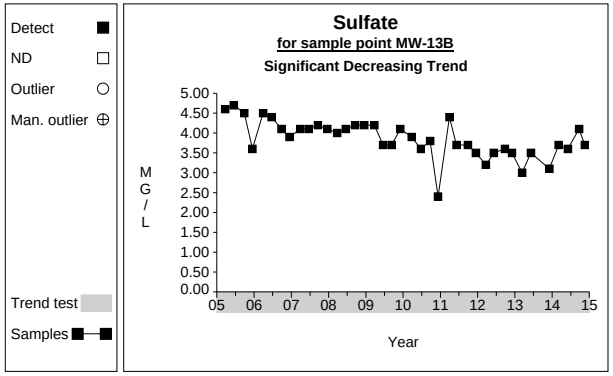
Time Series



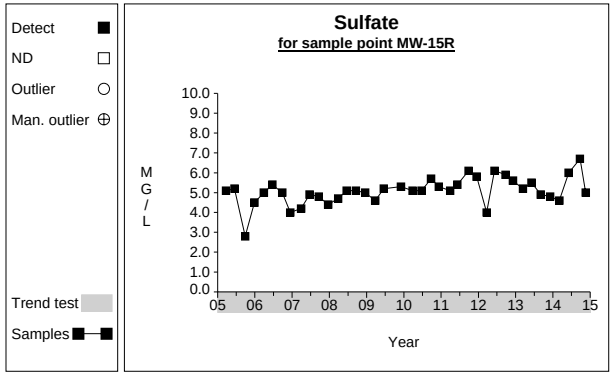
Graph 550



Graph 551



Graph 552



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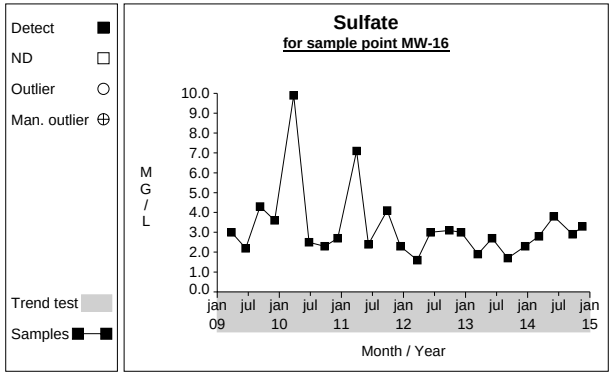

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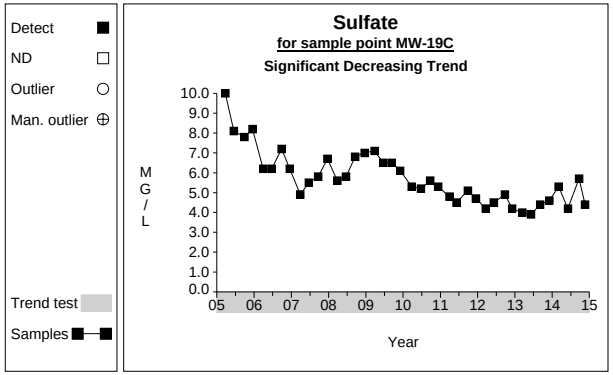

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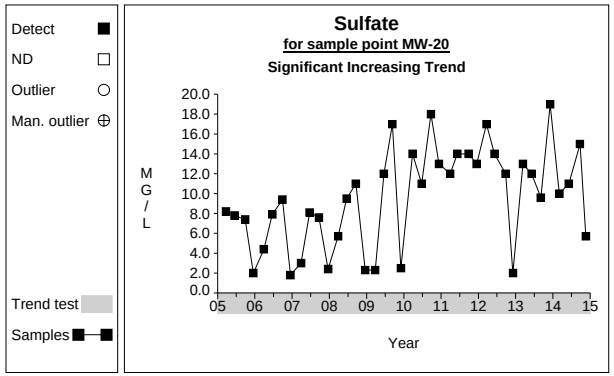

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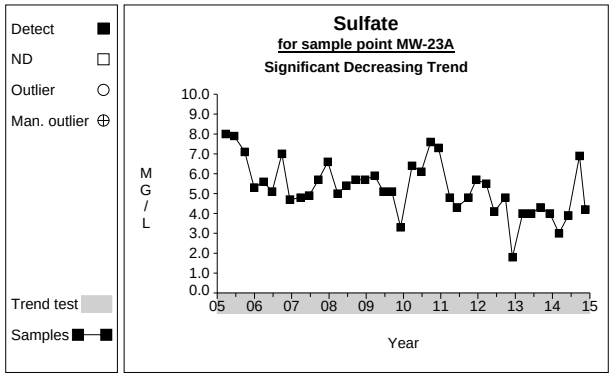
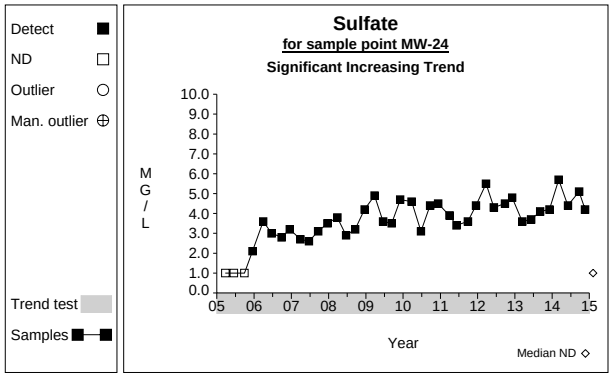
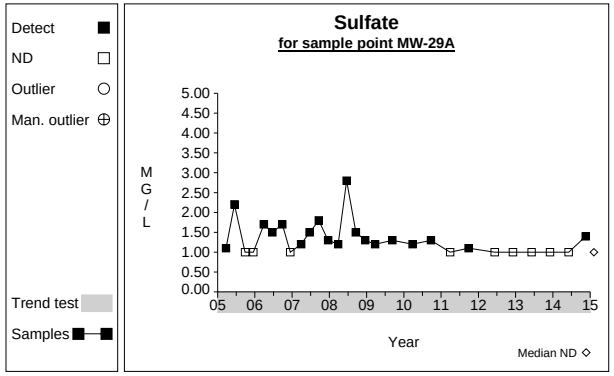


Graph 557

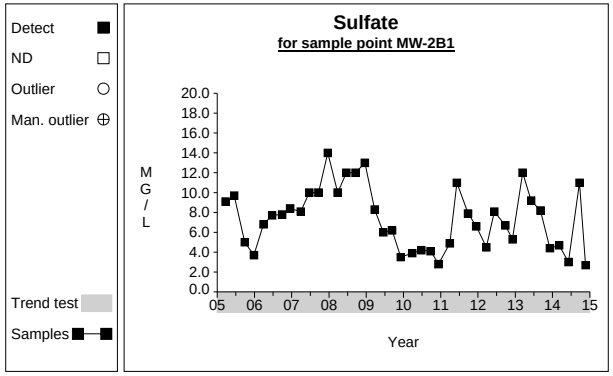


Graph 558

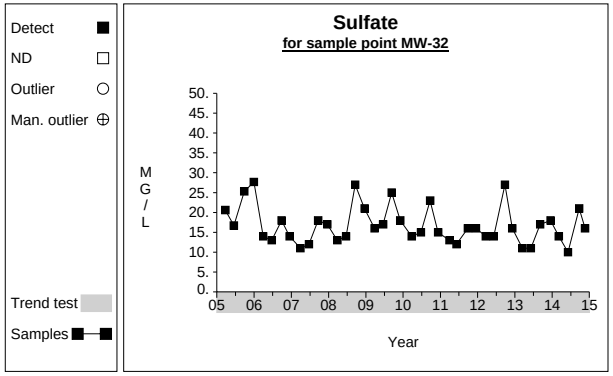
Time Series



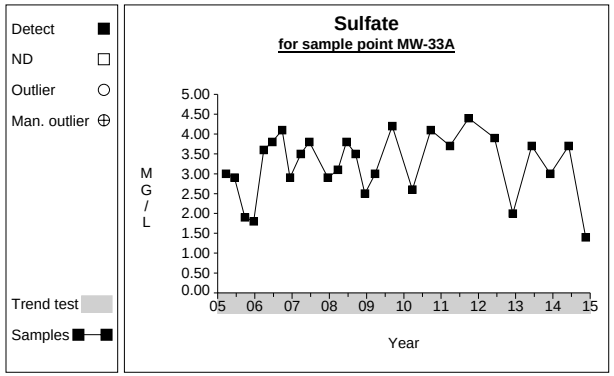
Graph 559



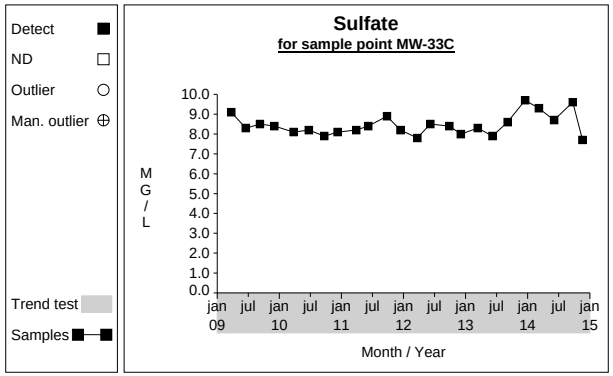
Graph 560



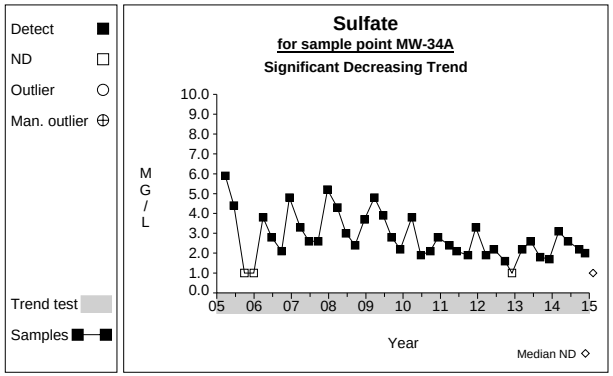
Graph 561



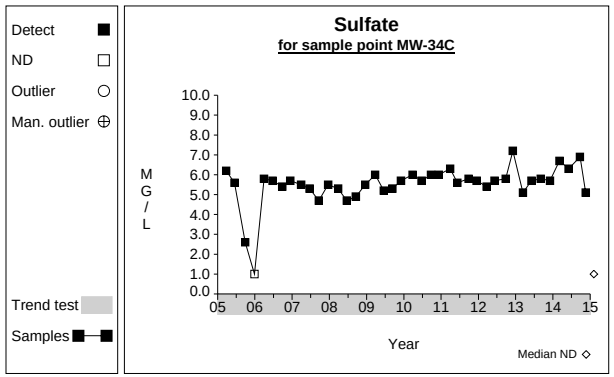
Graph 562



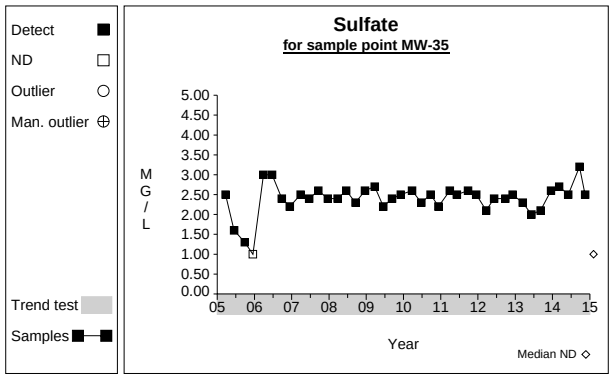
Graph 563



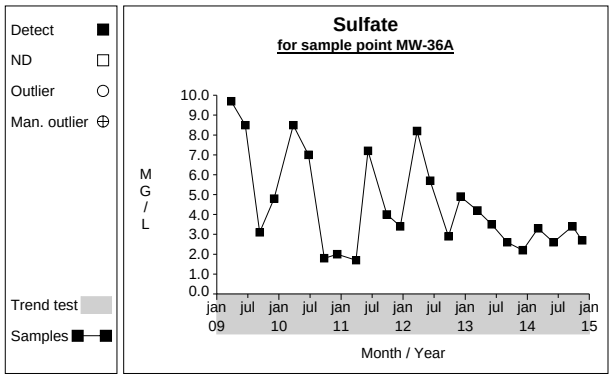
Graph 564



Graph 565

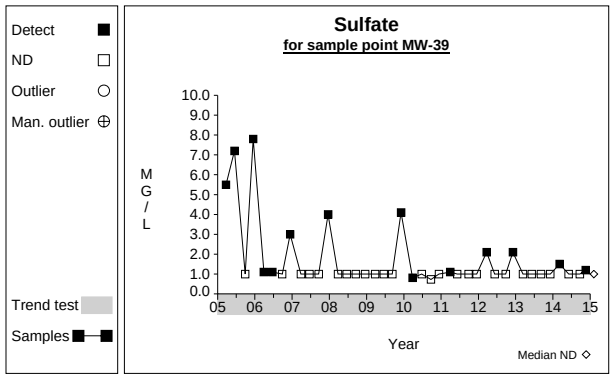


Graph 566

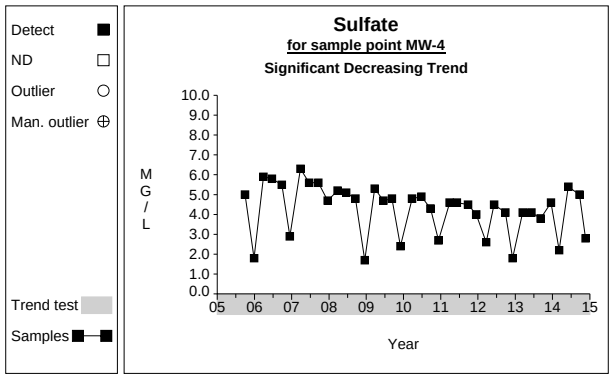


Graph 567

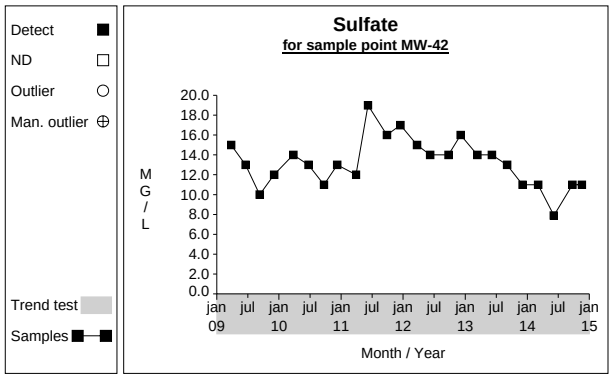
Time Series



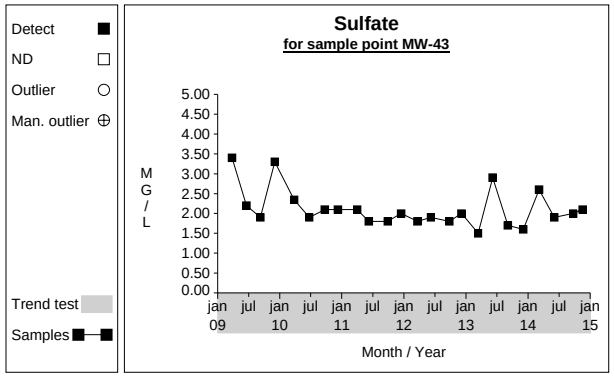
Graph 568



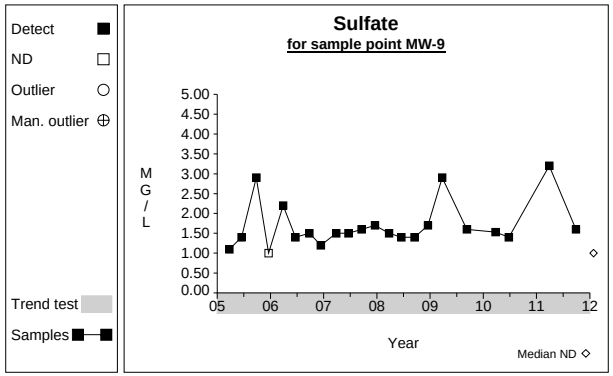
Graph 569



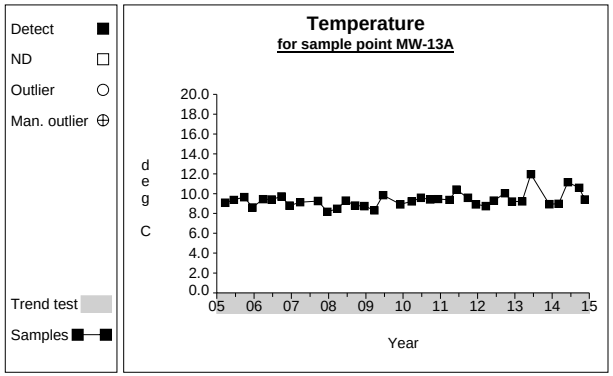
Graph 570



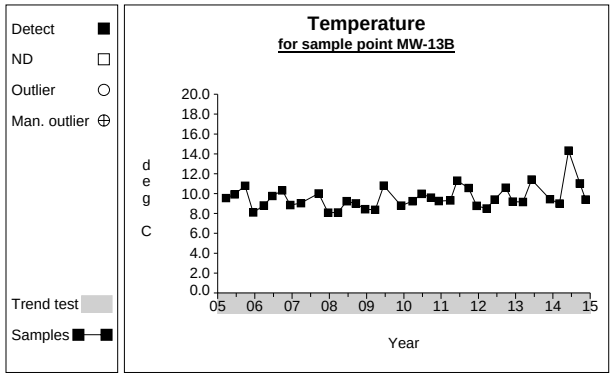
Graph 571



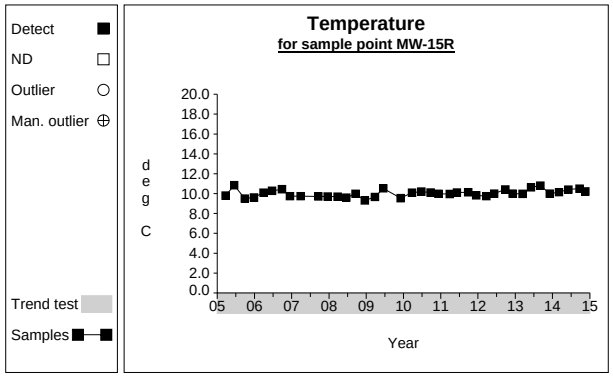
Graph 572



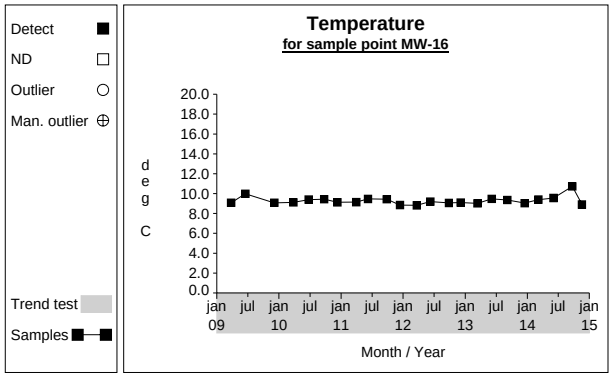
Graph 573



Graph 574

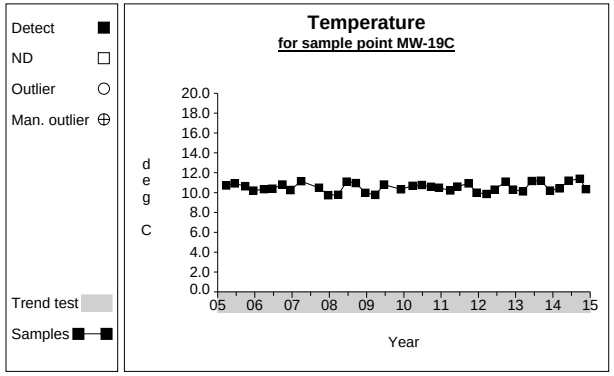


Graph 575

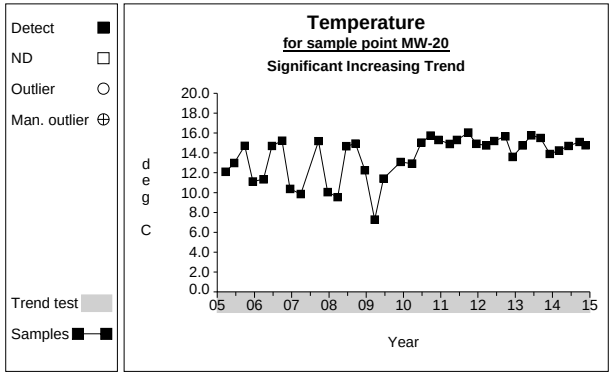


Graph 576

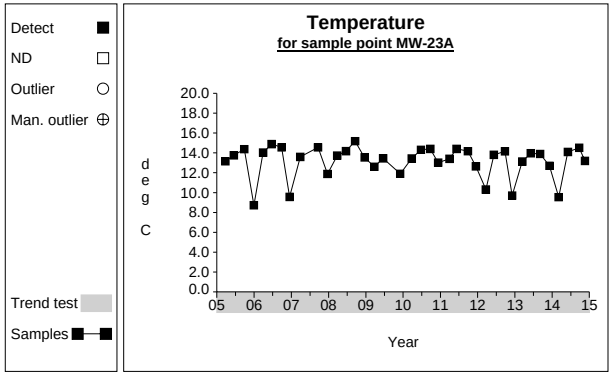
Time Series



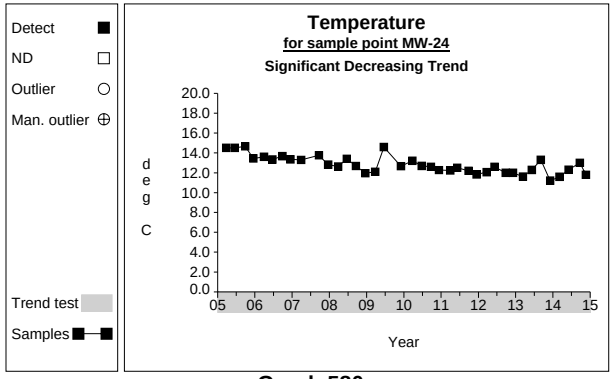
Graph 577



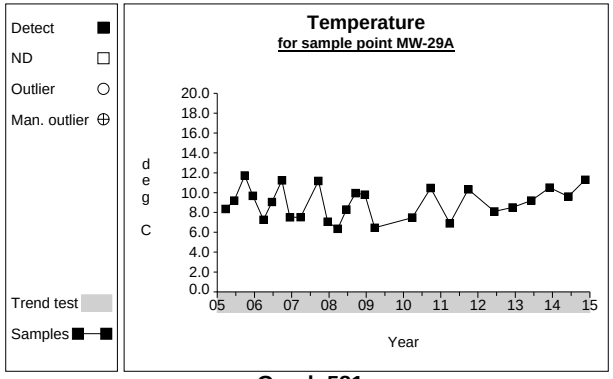
Graph 578



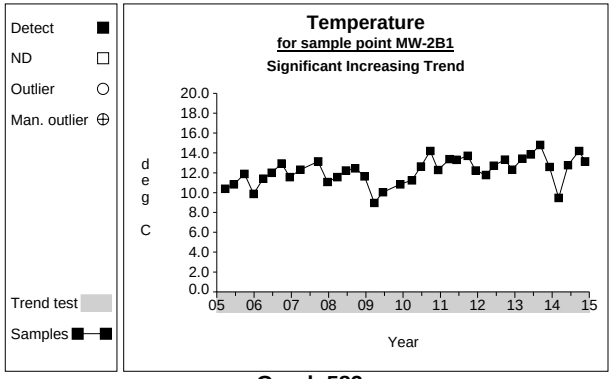
Graph 579



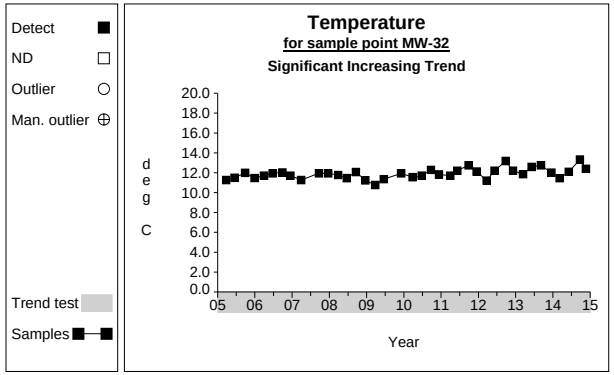
Graph 580



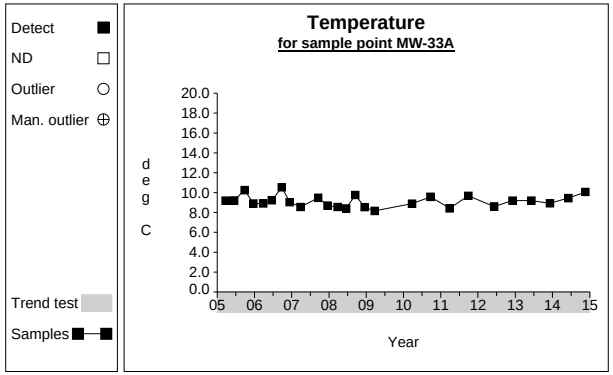
Graph 581



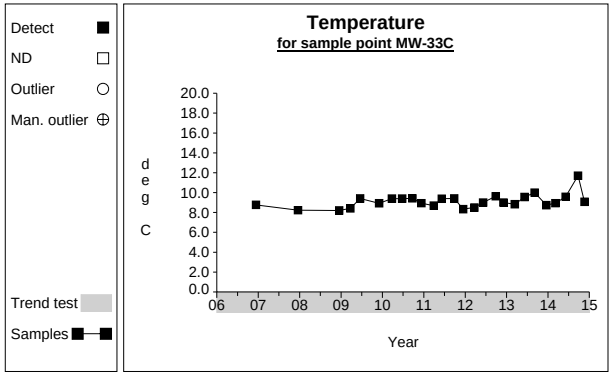
Graph 582



Graph 583

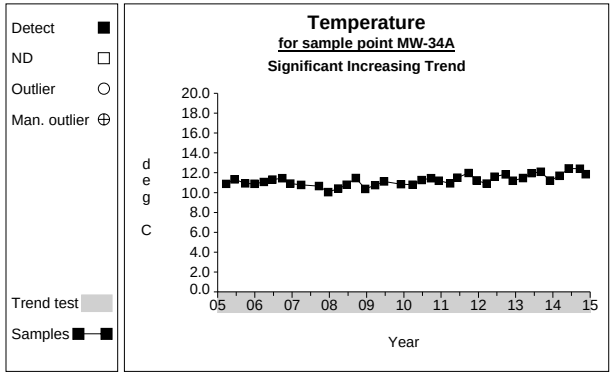


Graph 584

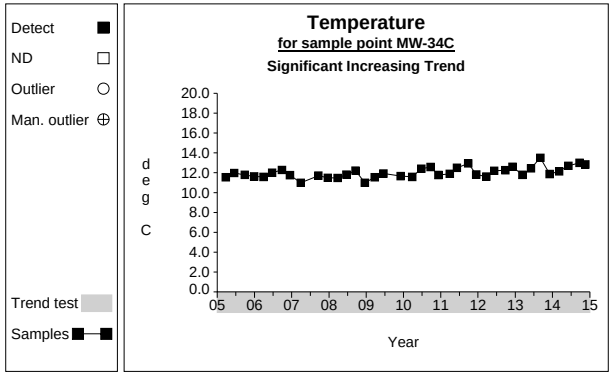


Graph 585

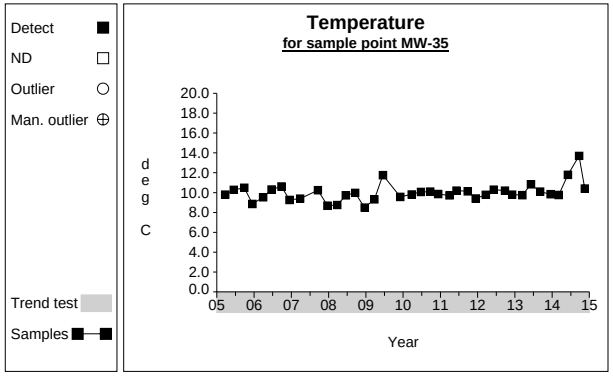
Time Series



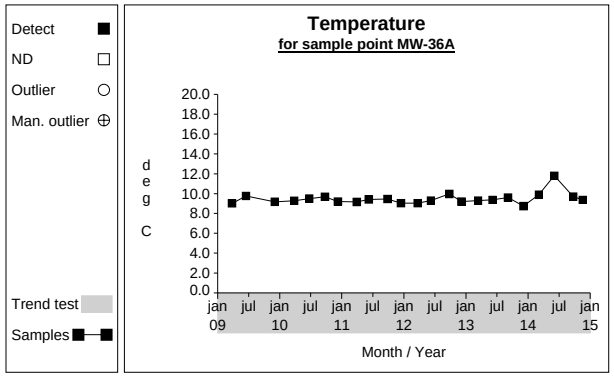
Graph 586



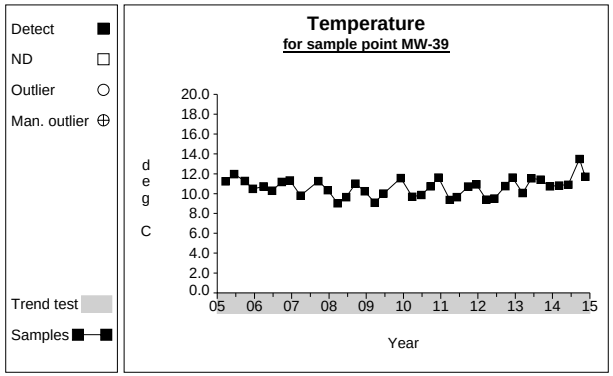
Graph 587



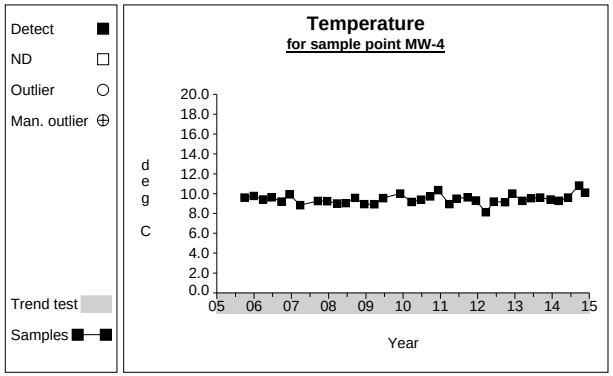
Graph 588



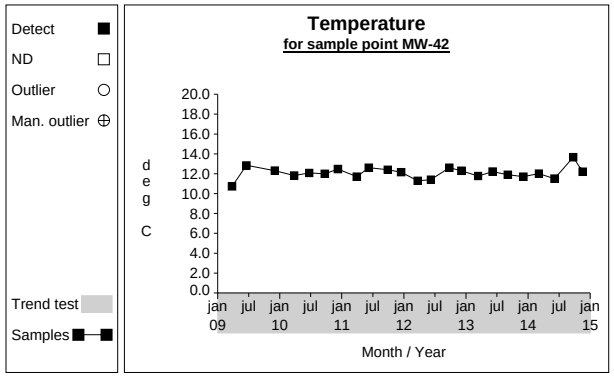
Graph 589



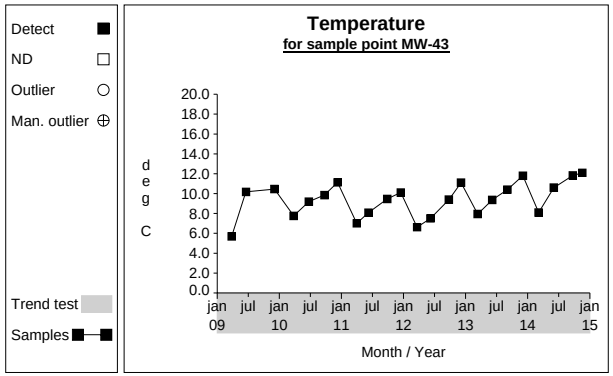
Graph 590



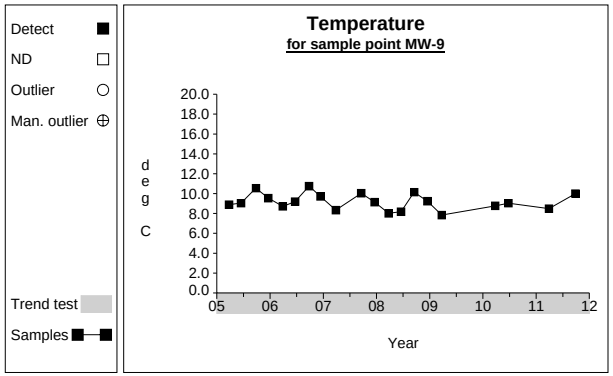
Graph 591



Graph 592

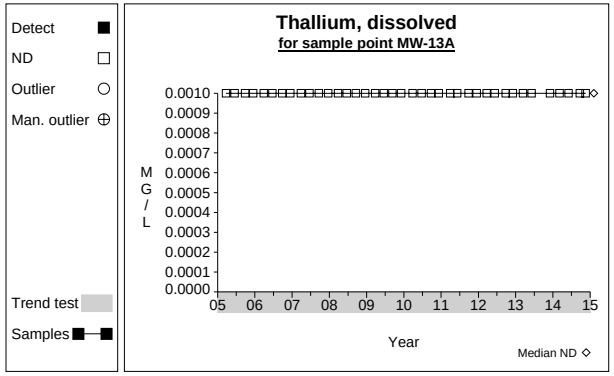


Graph 593

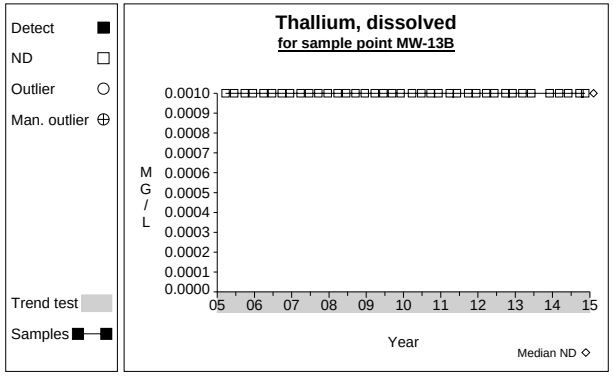


Graph 594

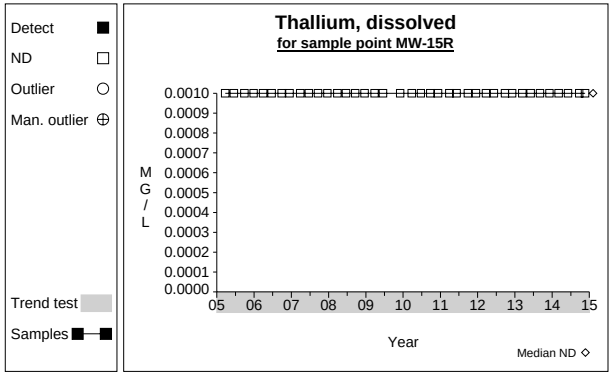
Time Series



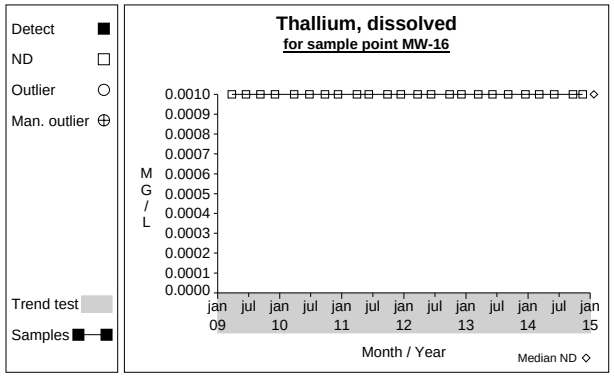
Graph 595



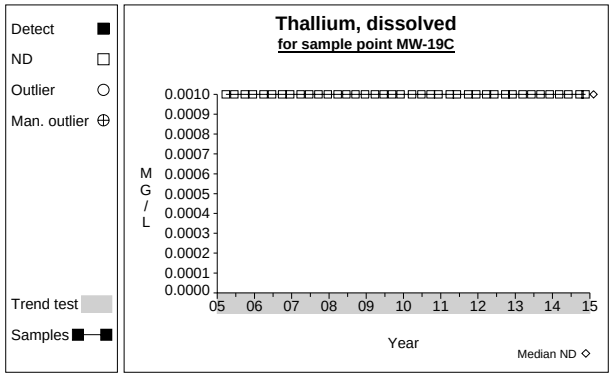
Graph 596



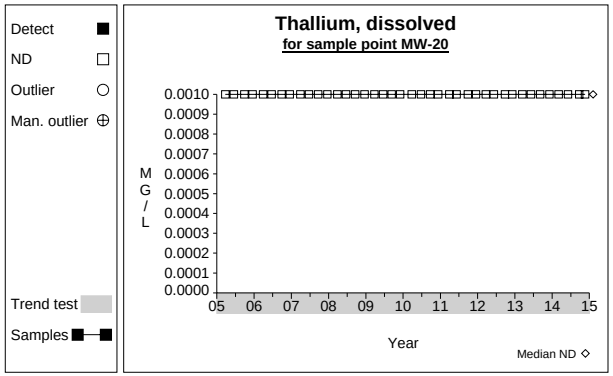
Graph 597



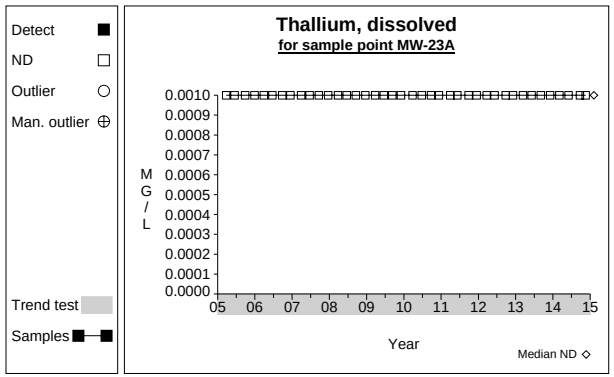
Graph 598



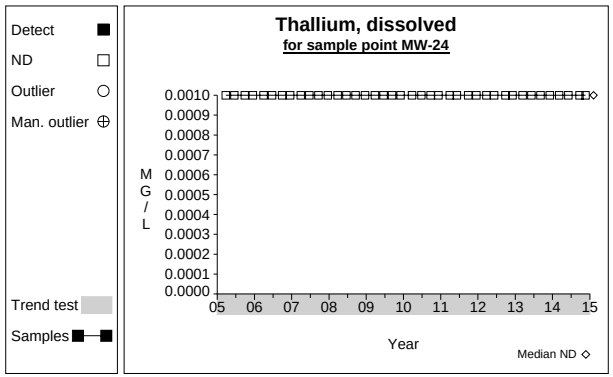
Graph 599



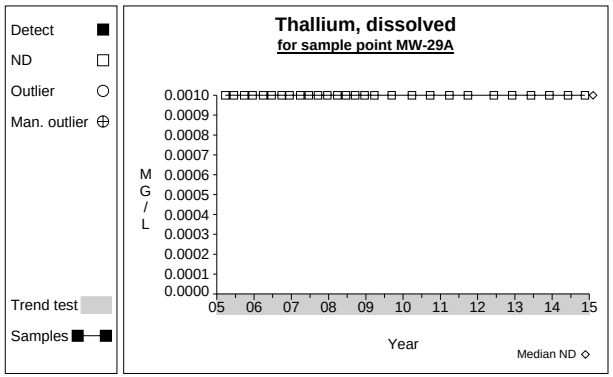
Graph 600



Graph 601

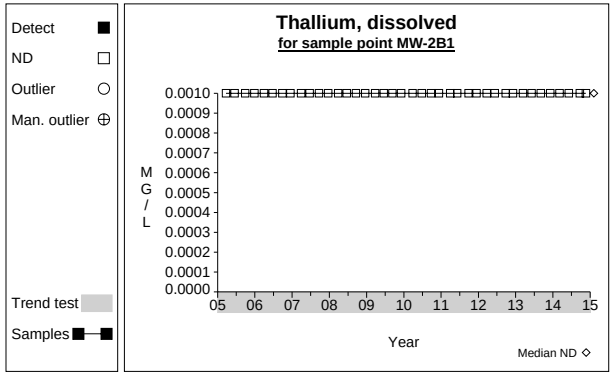


Graph 602

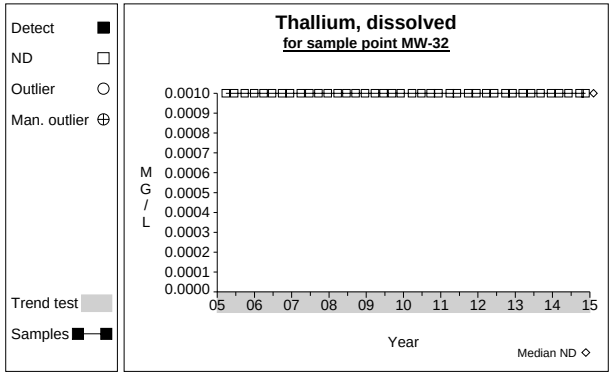


Graph 603

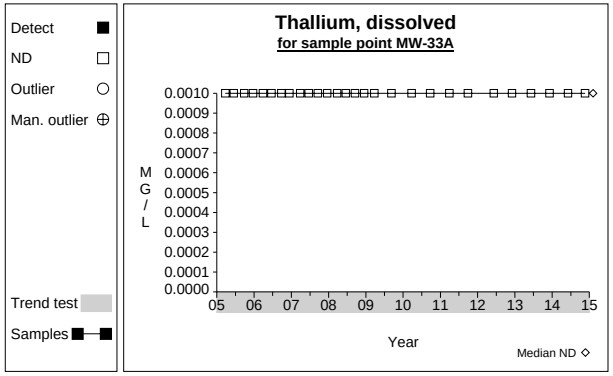
Time Series



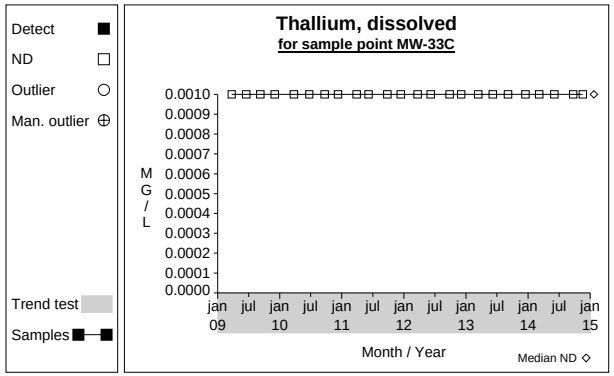
Graph 604



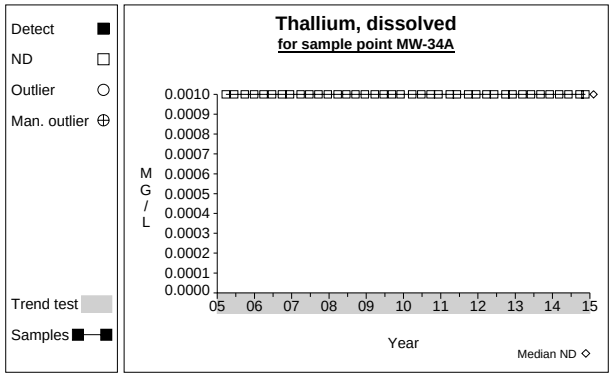
Graph 605



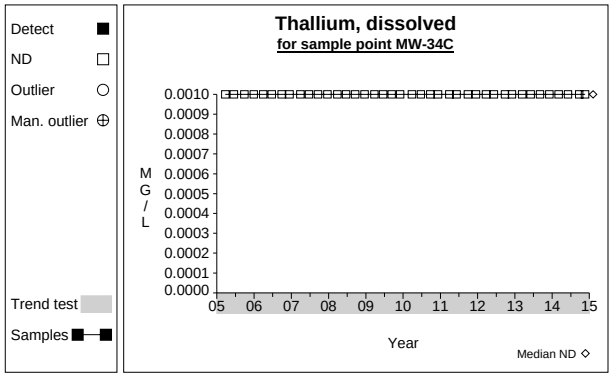
Graph 606



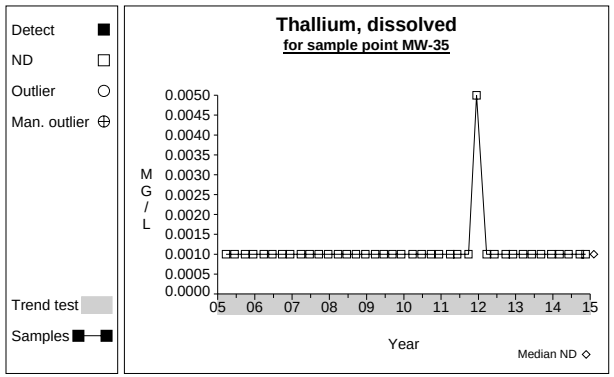
Graph 607



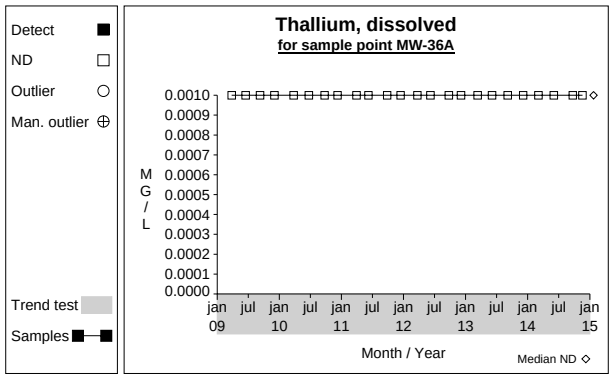
Graph 608



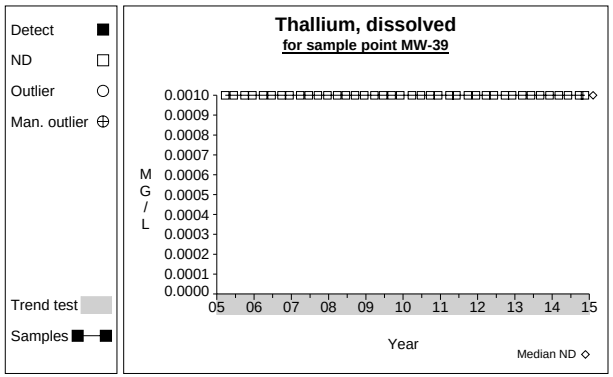
Graph 609



Graph 610

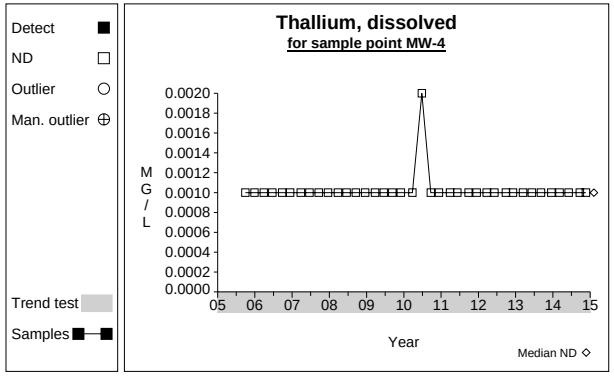


Graph 611

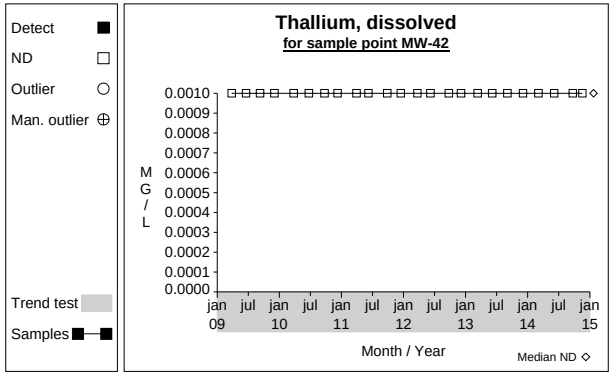


Graph 612

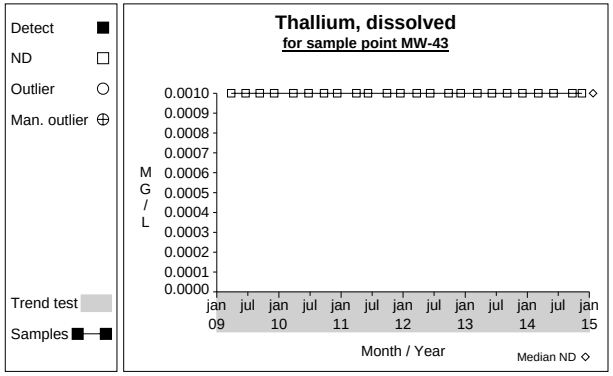
Time Series



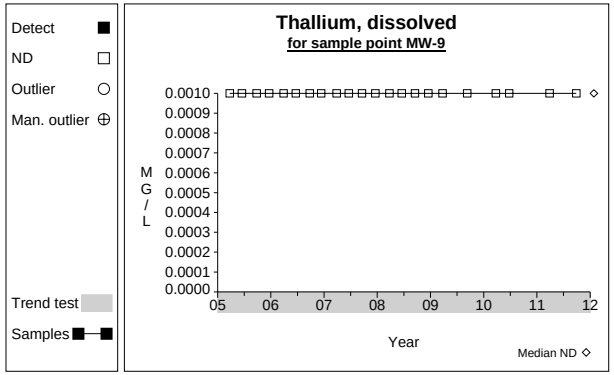
Graph 613



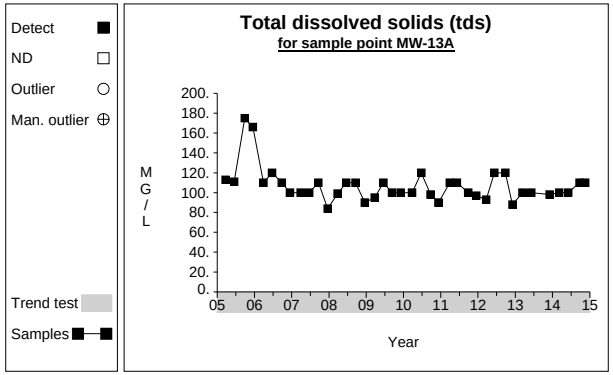
Graph 614



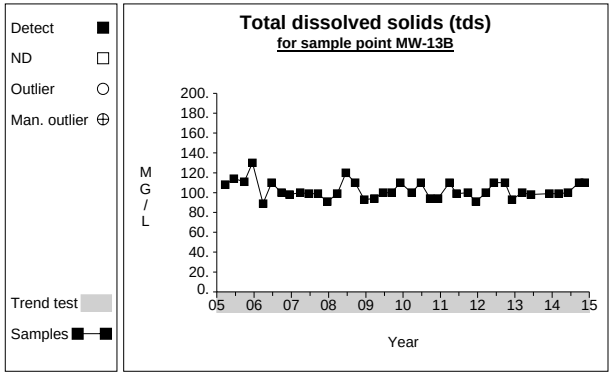
Graph 615



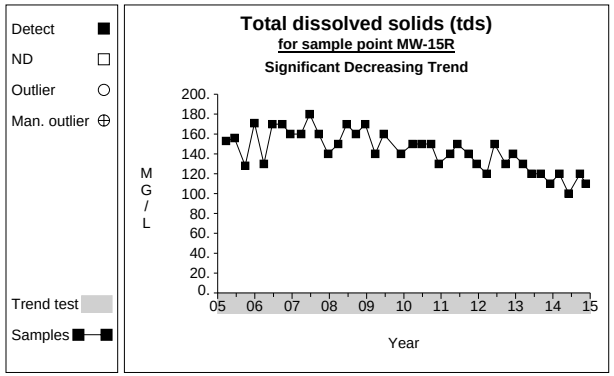
Graph 616



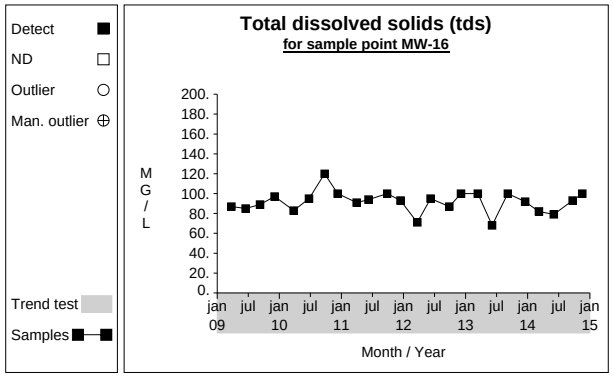
Graph 617



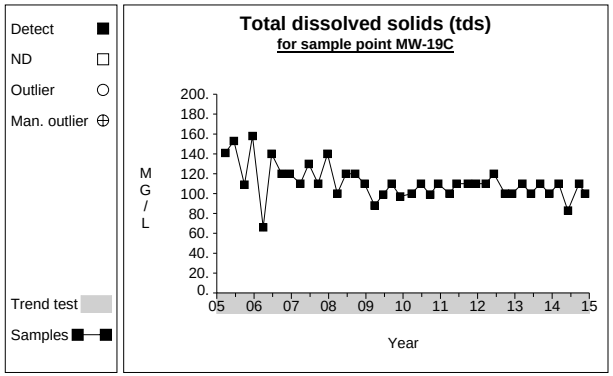
Graph 618



Graph 619

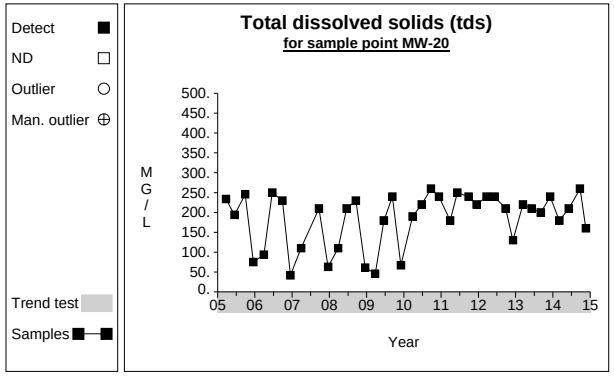


Graph 620

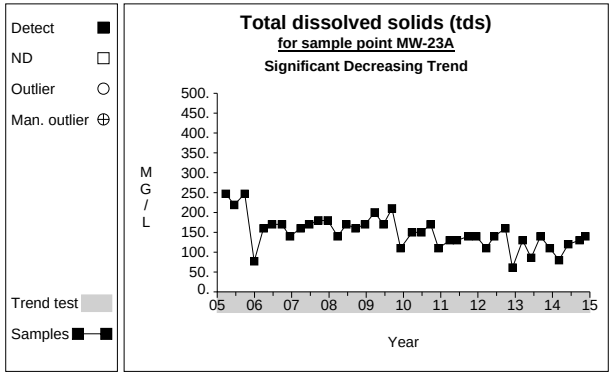


Graph 621

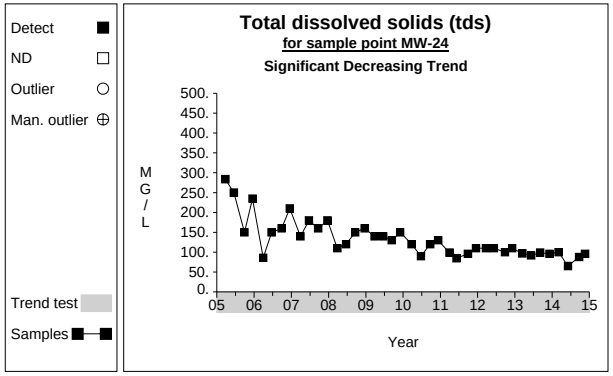
Time Series



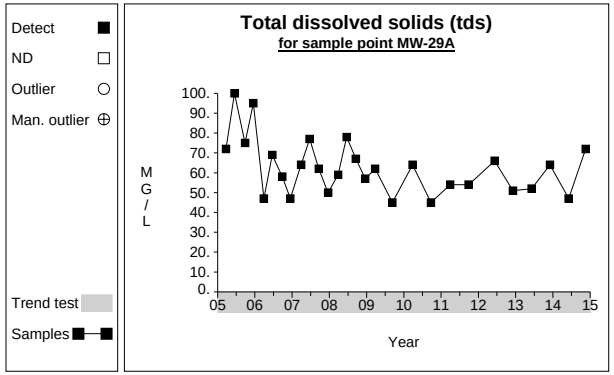
Graph 622



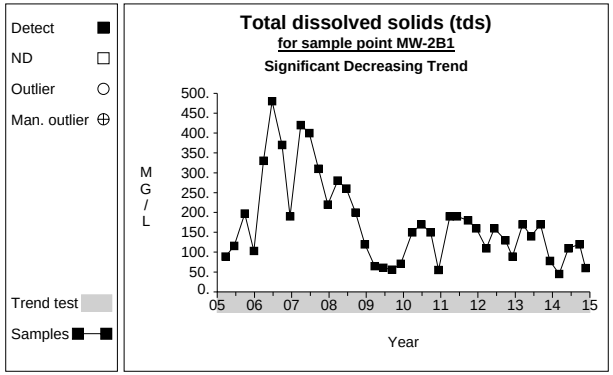
Graph 623



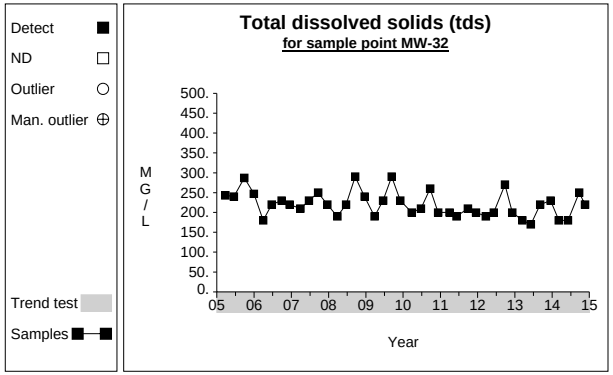
Graph 624



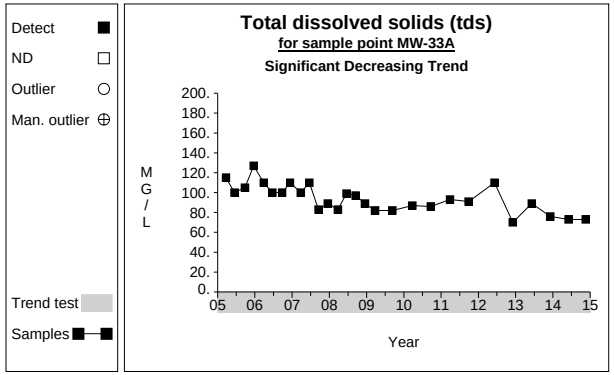
Graph 625



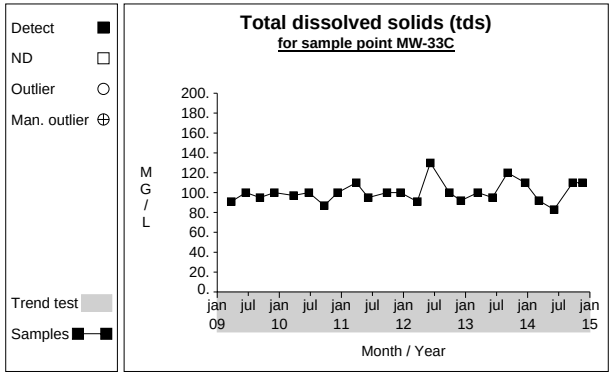
Graph 626



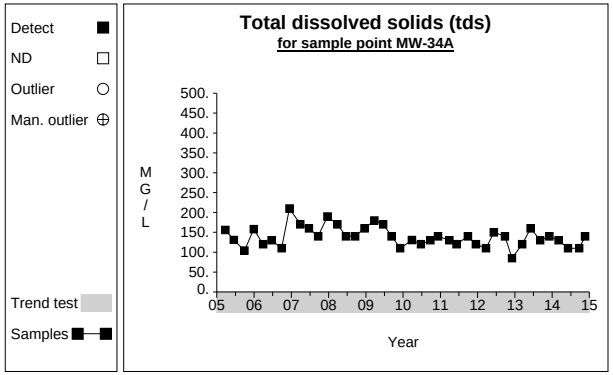
Graph 627



Graph 628

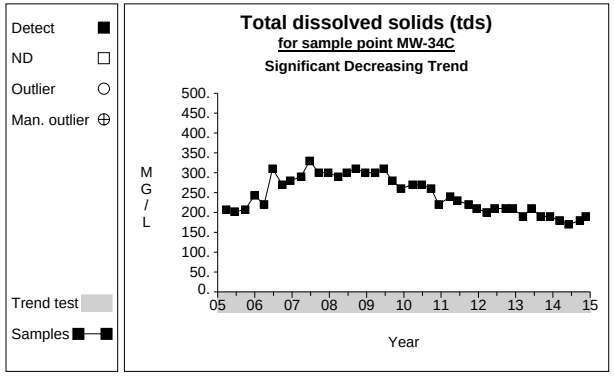


Graph 629

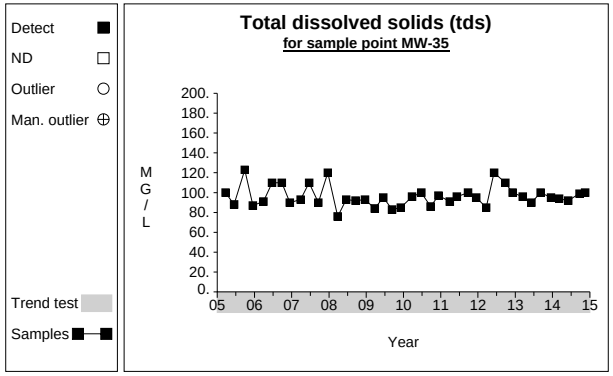


Graph 630

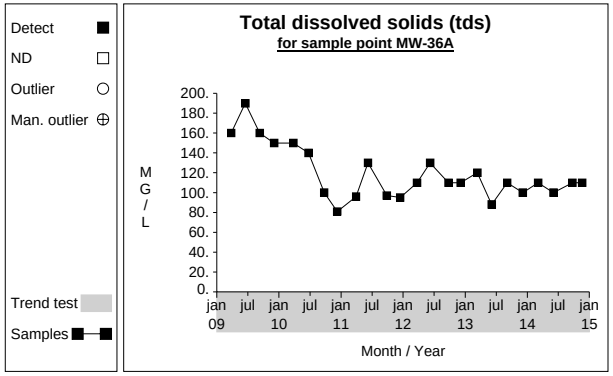
Time Series



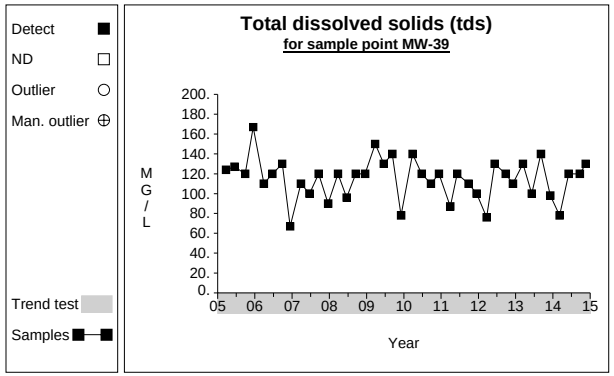
Graph 631



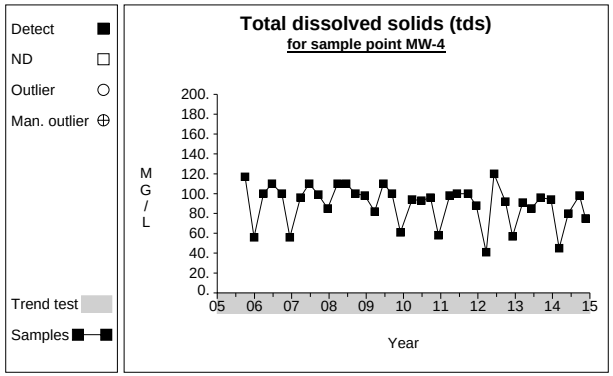
Graph 632



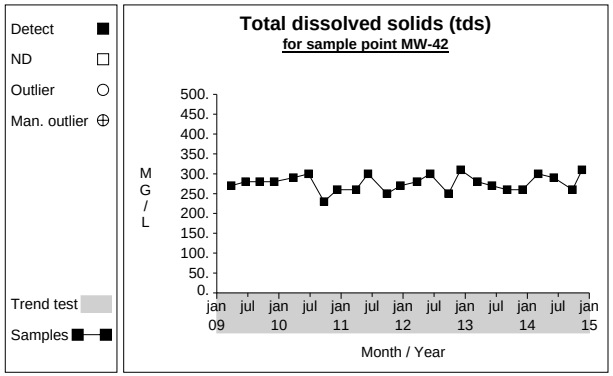
Graph 633



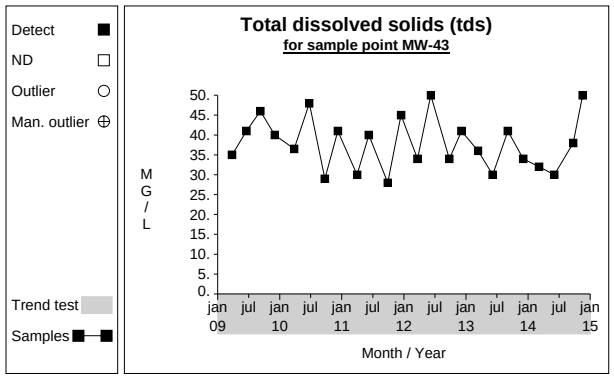
Graph 634



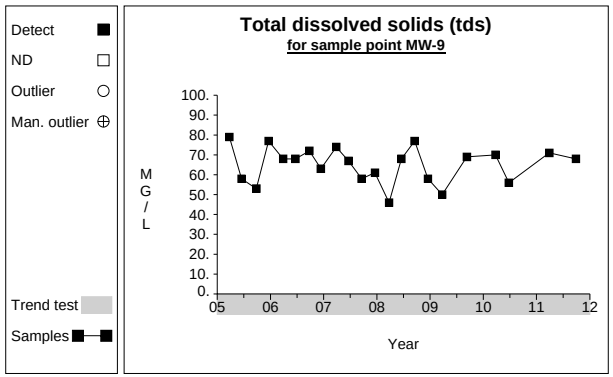
Graph 635



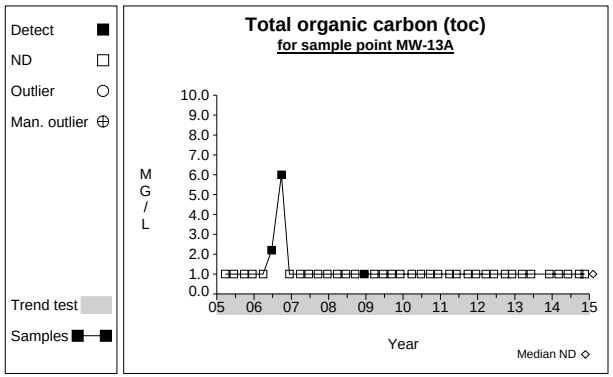
Graph 636



Graph 637

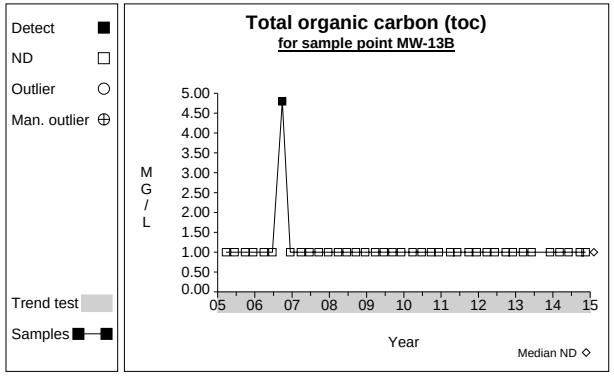


Graph 638

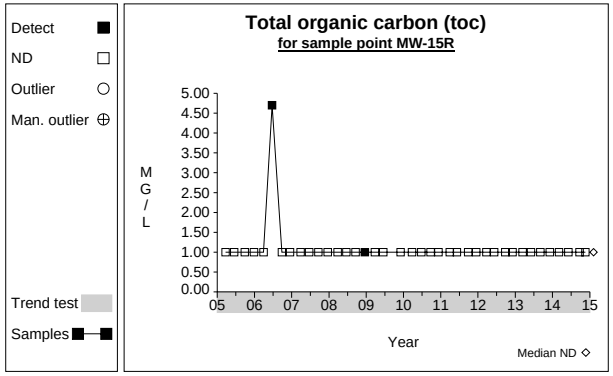


Graph 639

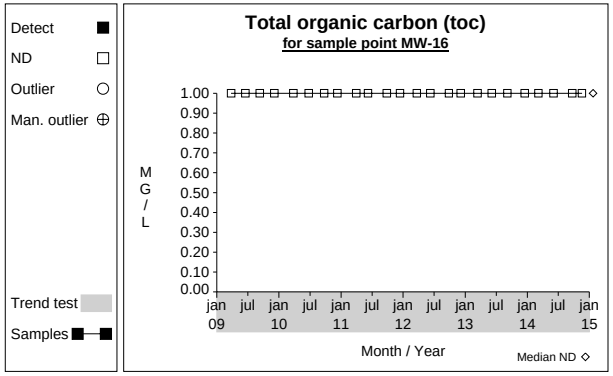
Time Series



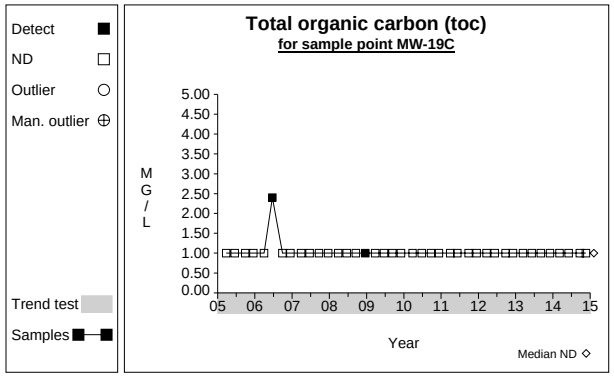
Graph 640



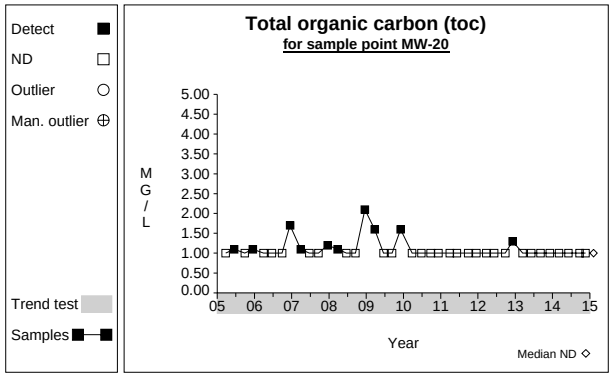
Graph 641



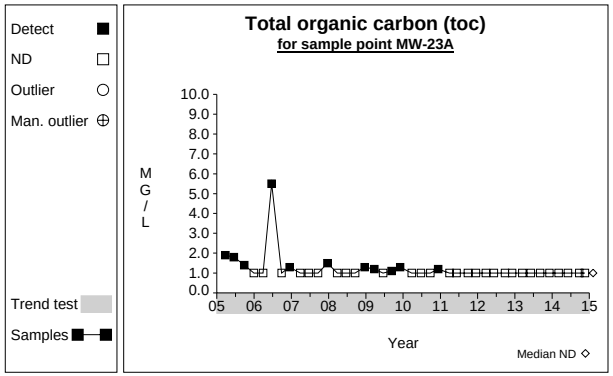
Graph 642



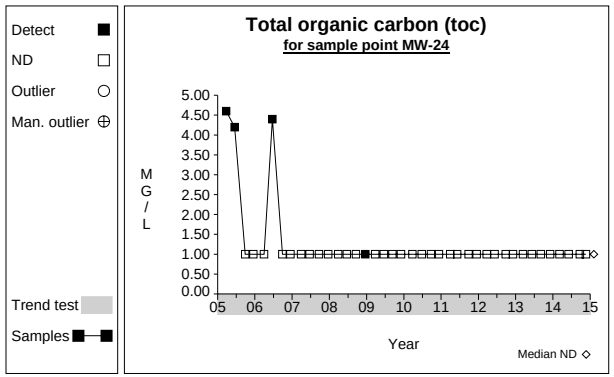
Graph 643



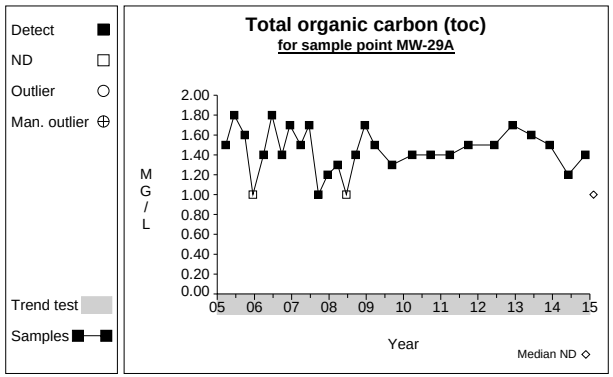
Graph 644



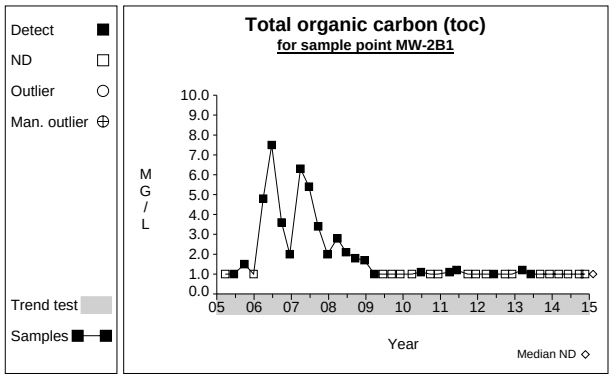
Graph 645



Graph 646

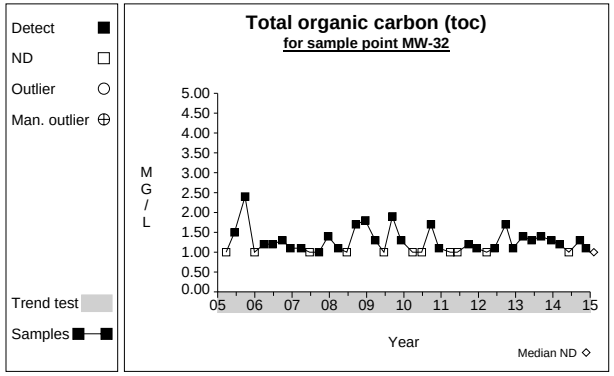


Graph 647

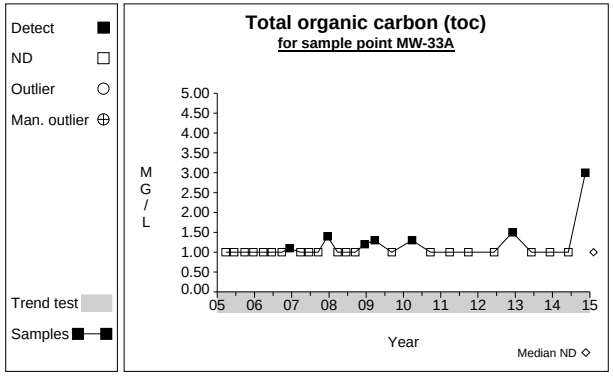


Graph 648

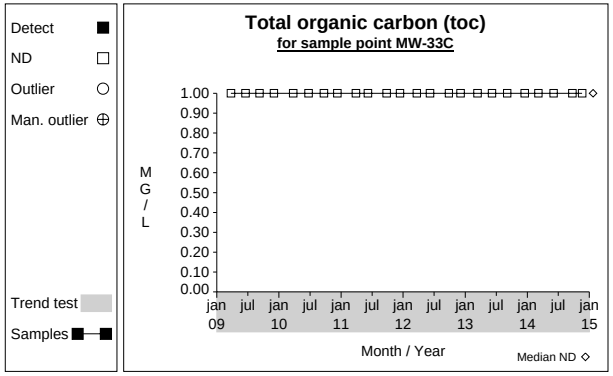
Time Series



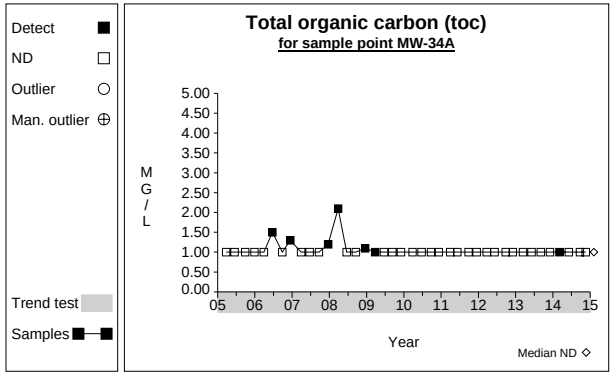
Graph 649



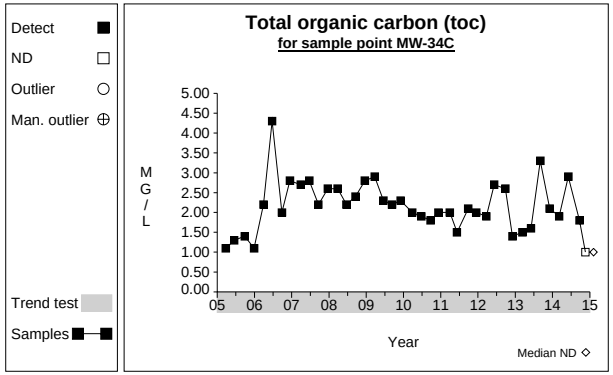
Graph 650



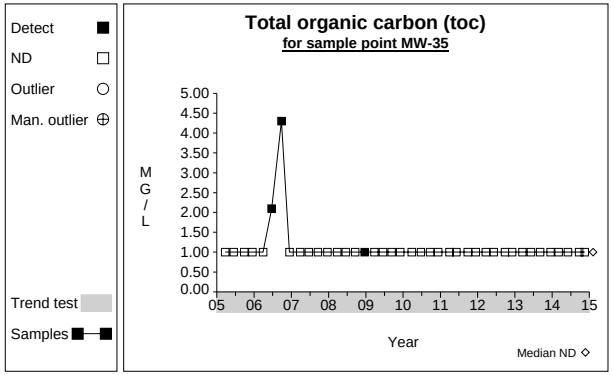
Graph 651



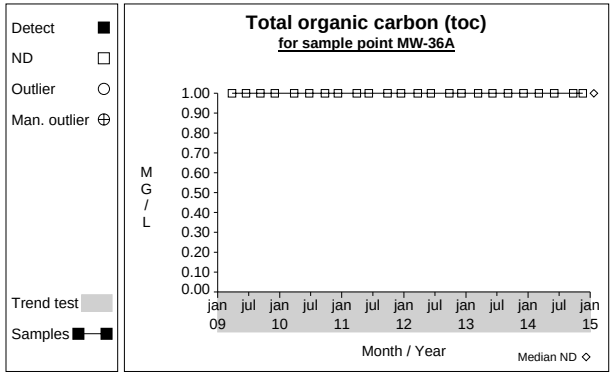
Graph 652



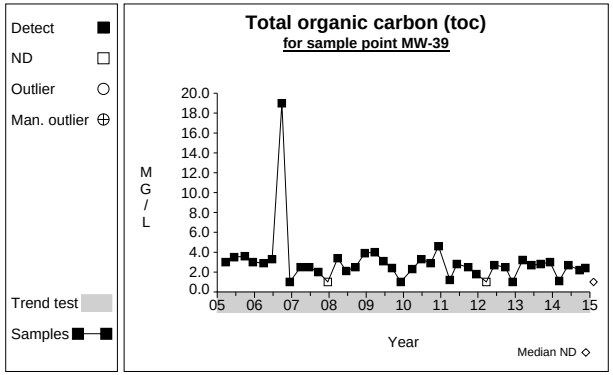
Graph 653



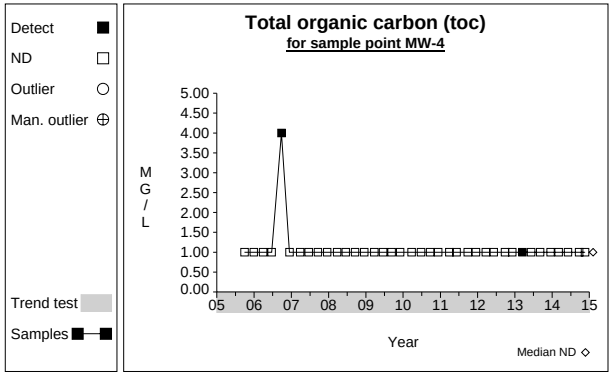
Graph 654



Graph 655

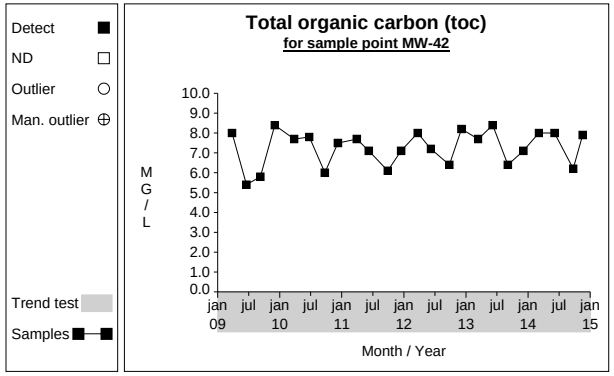


Graph 656

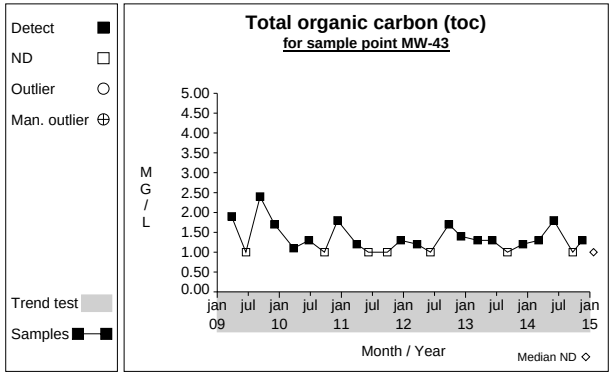


Graph 657

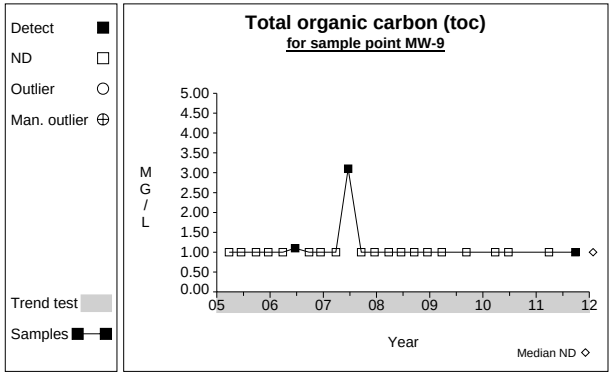
Time Series



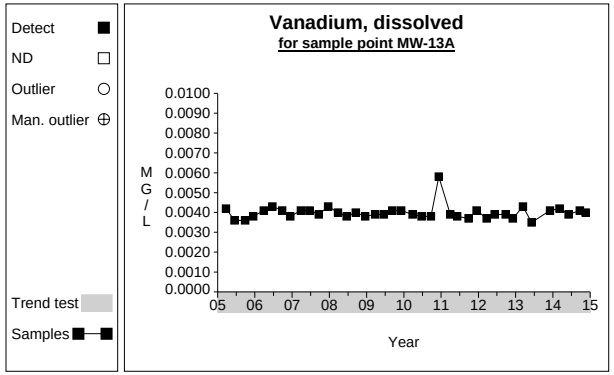
Graph 658



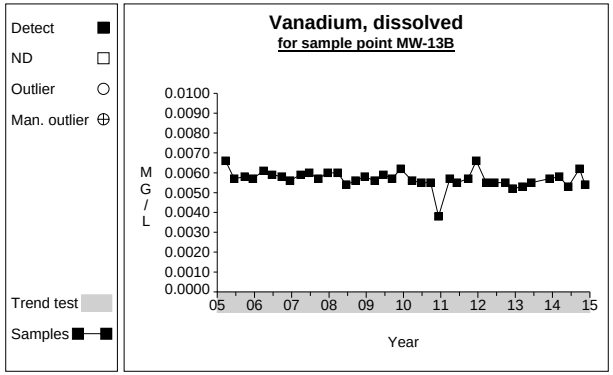
Graph 659



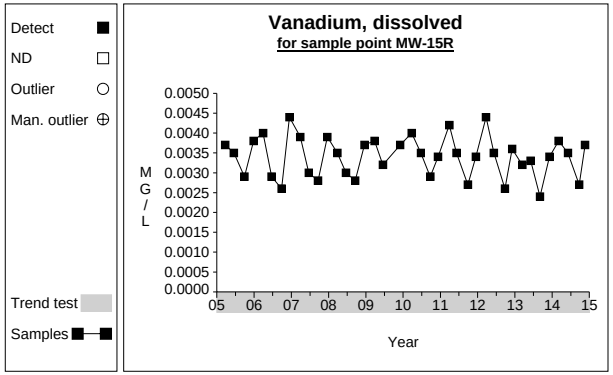
Graph 660



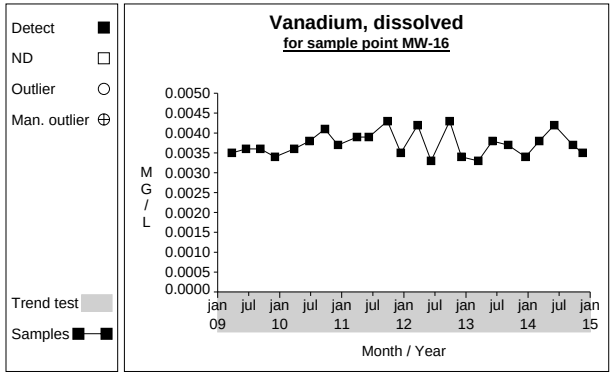
Graph 661



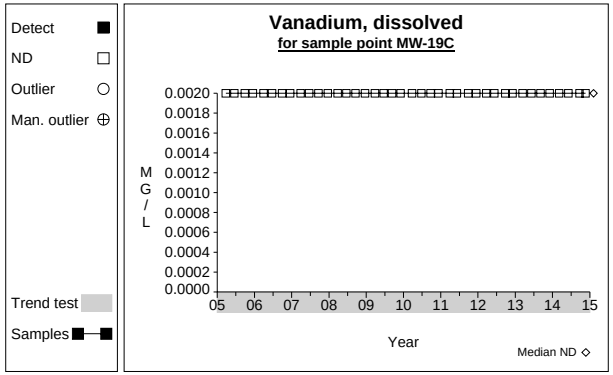
Graph 662



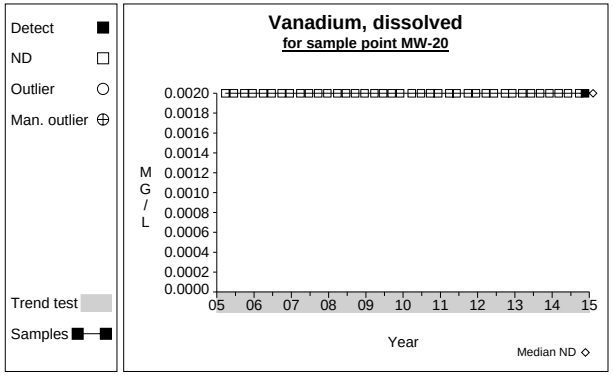
Graph 663



Graph 664

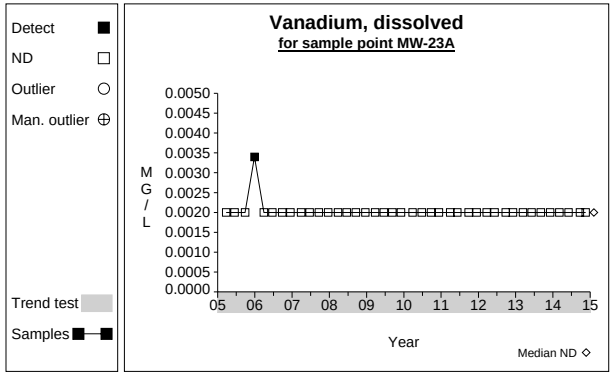


Graph 665

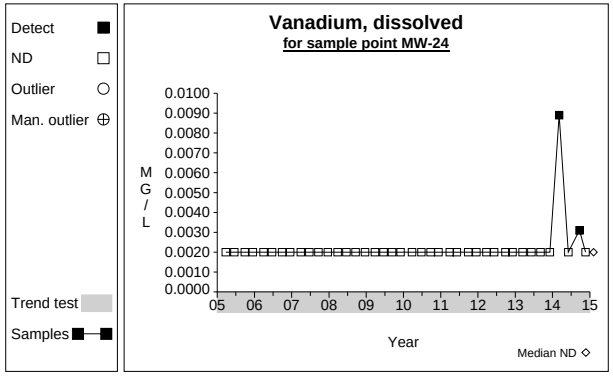


Graph 666

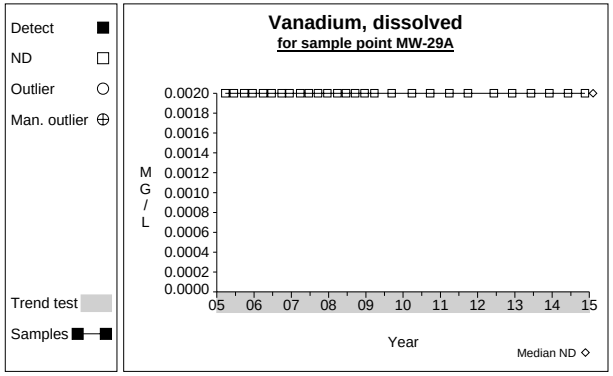
Time Series



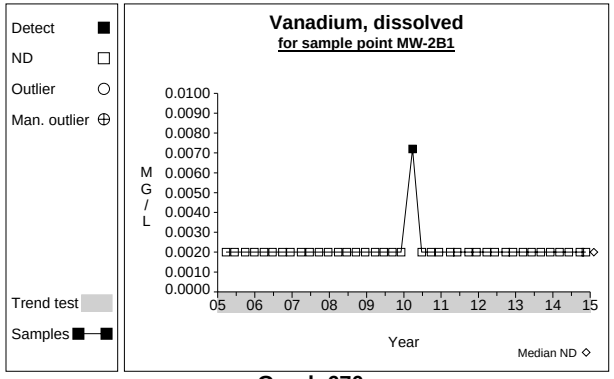
Graph 667



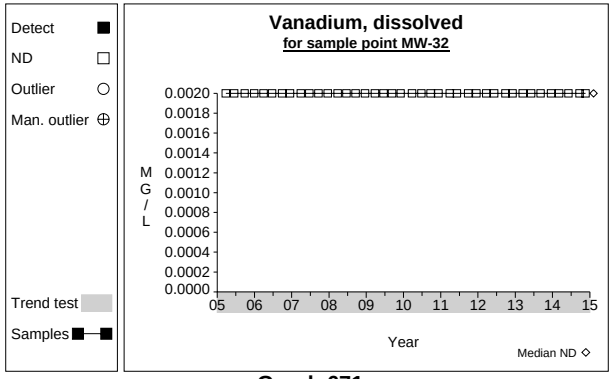
Graph 668



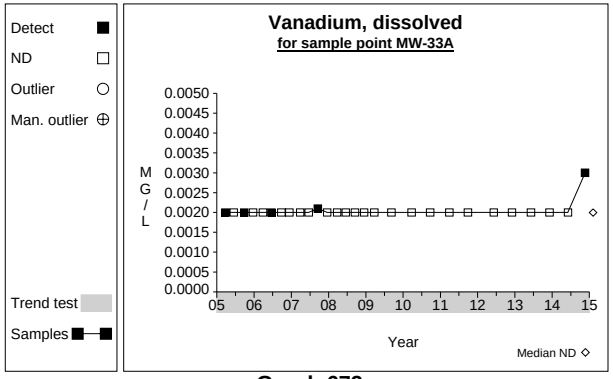
Graph 669



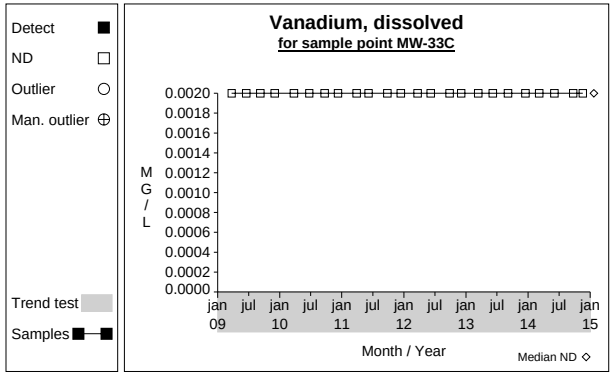
Graph 670



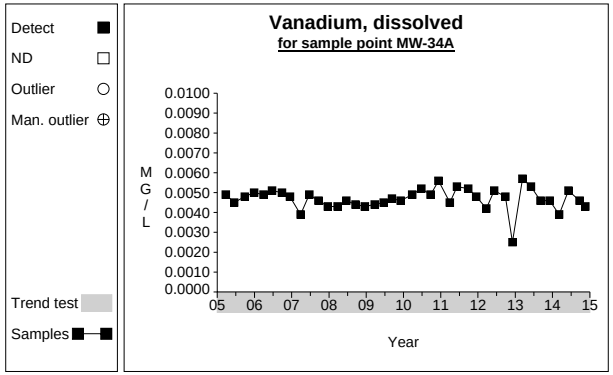
Graph 671



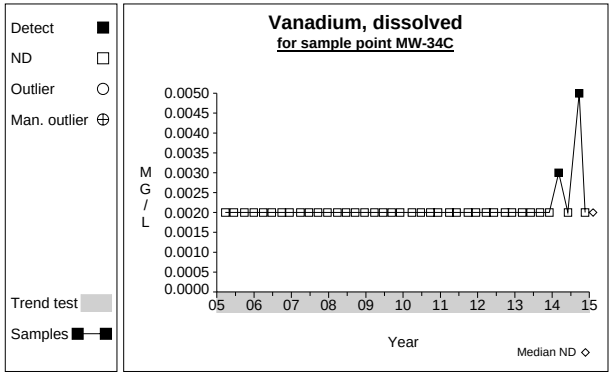
Graph 672



Graph 673

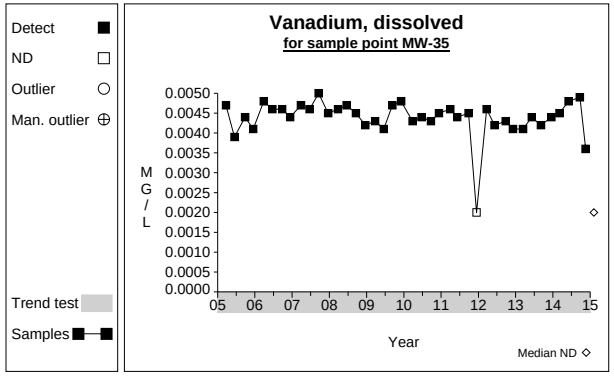


Graph 674

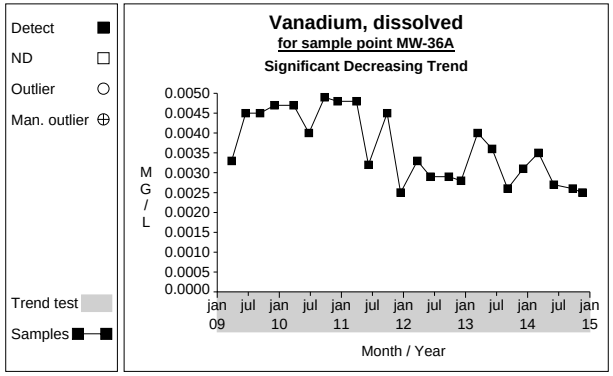


Graph 675

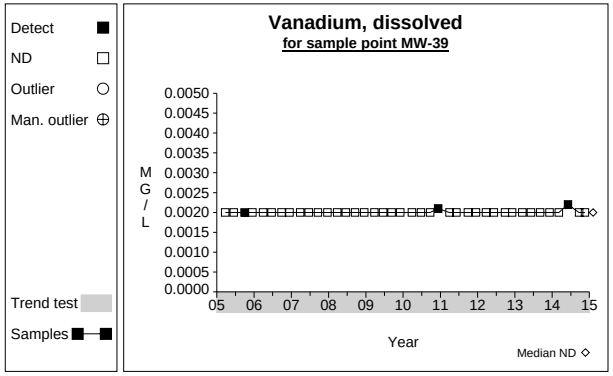
Time Series



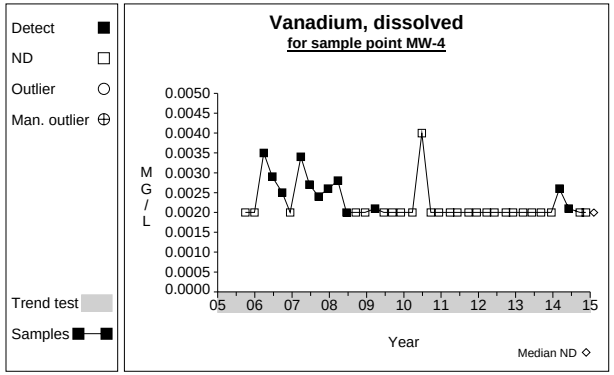
Graph 676



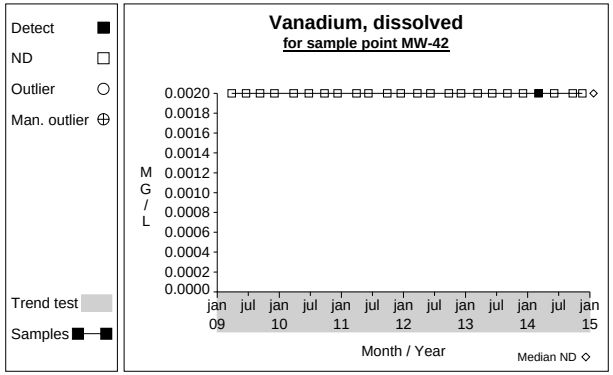
Graph 677



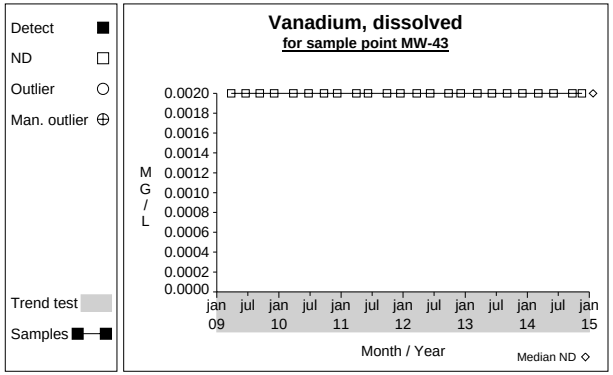
Graph 678



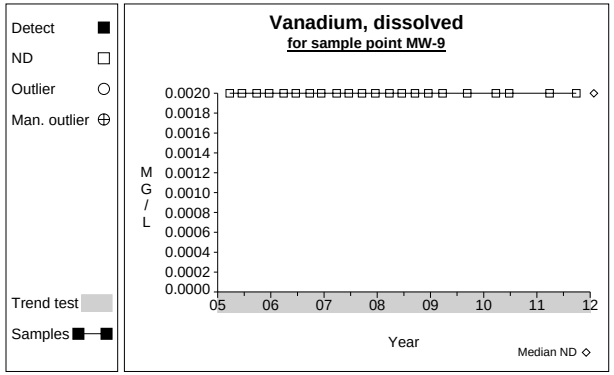
Graph 679



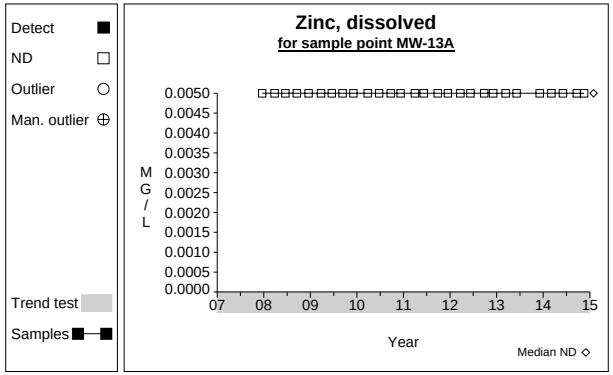
Graph 680



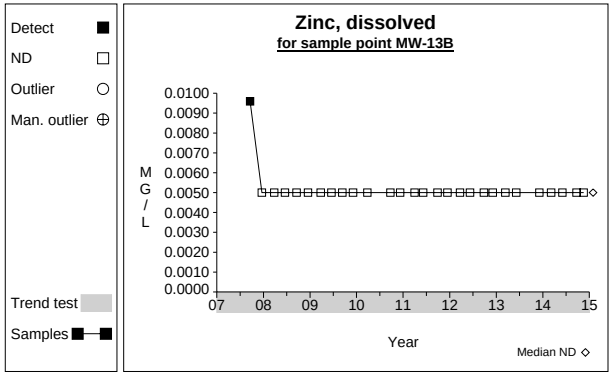
Graph 681



Graph 682

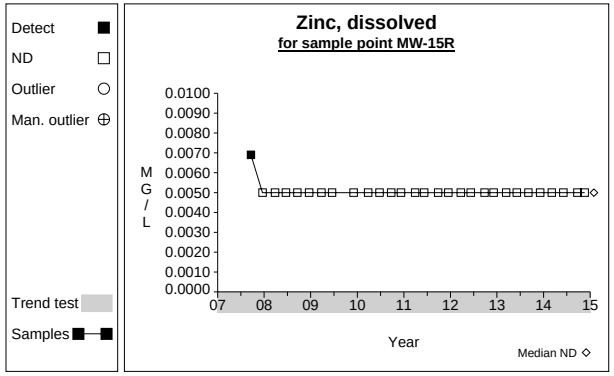


Graph 683

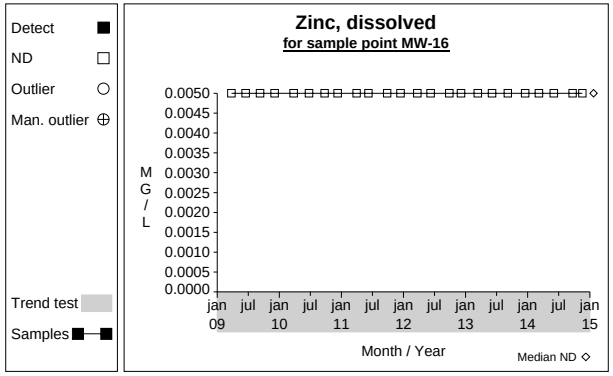


Graph 684

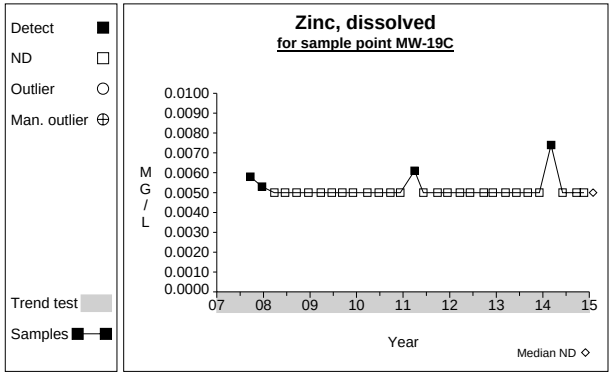
Time Series



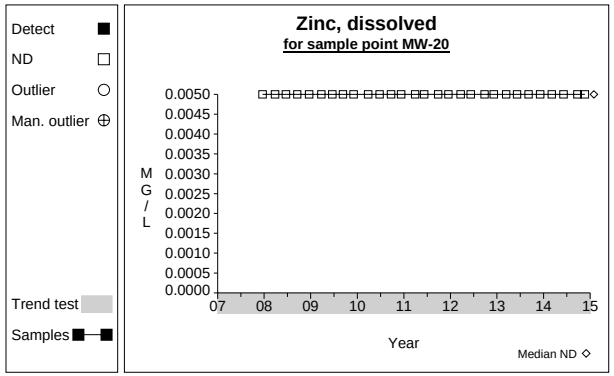
Graph 685



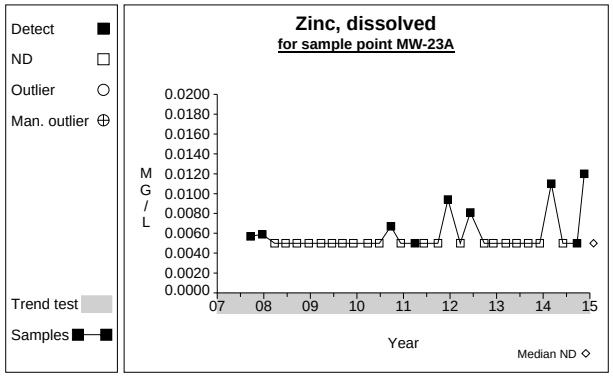
Graph 686



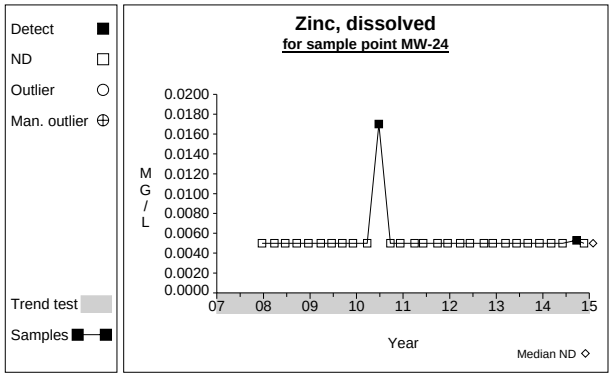
Graph 687



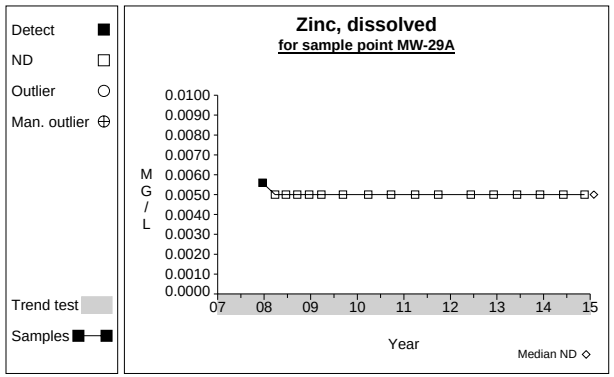
Graph 688



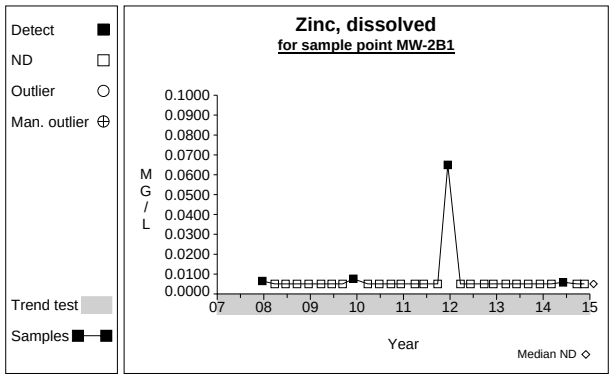
Graph 689



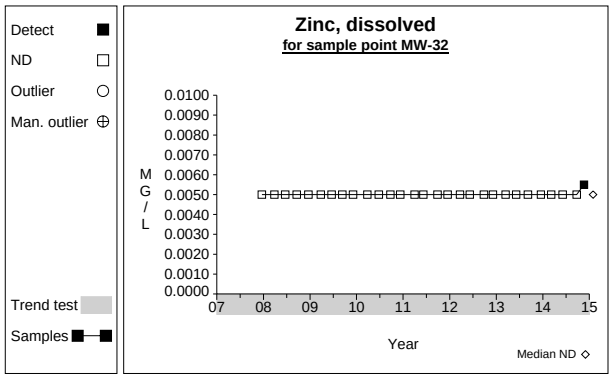
Graph 690



Graph 691

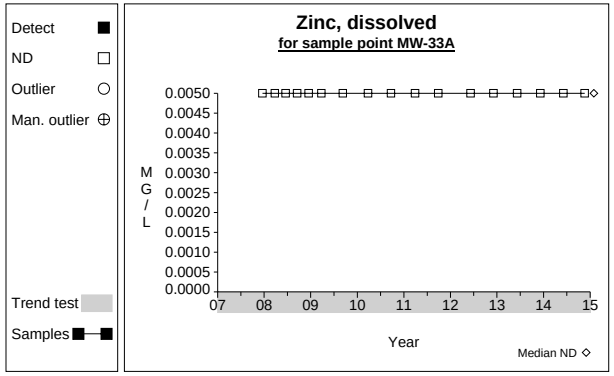


Graph 692

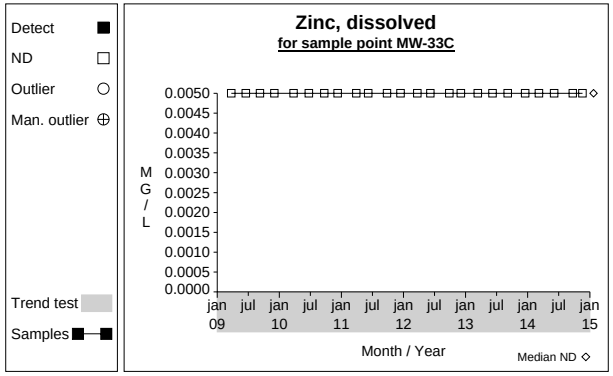


Graph 693

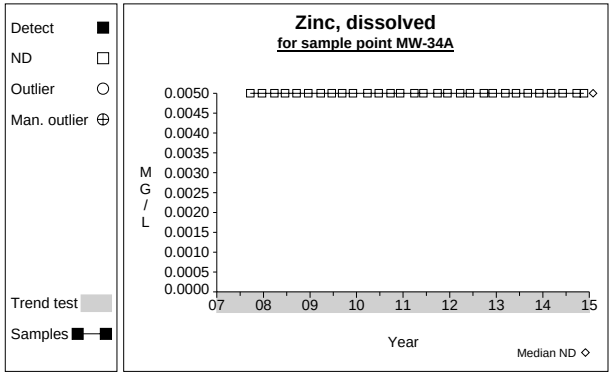
Time Series



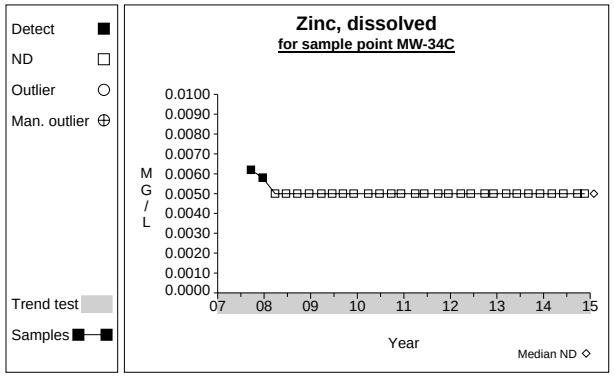
Graph 694



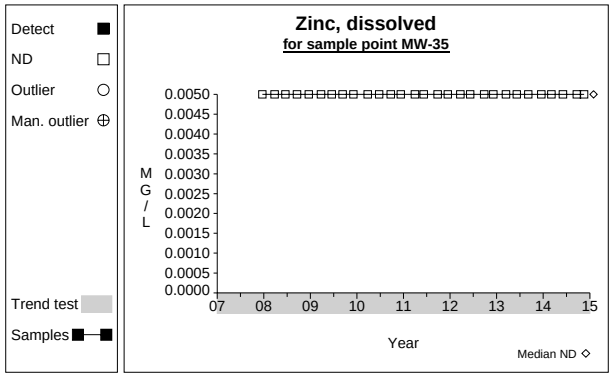
Graph 695



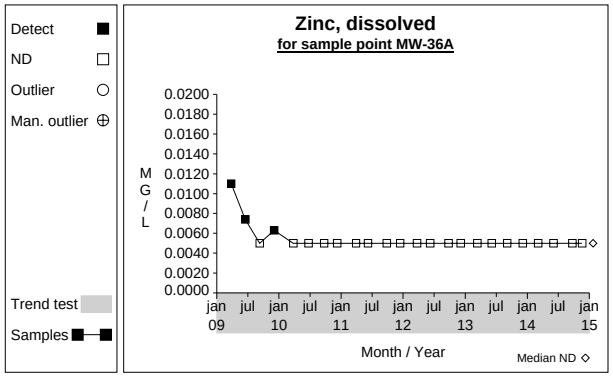
Graph 696



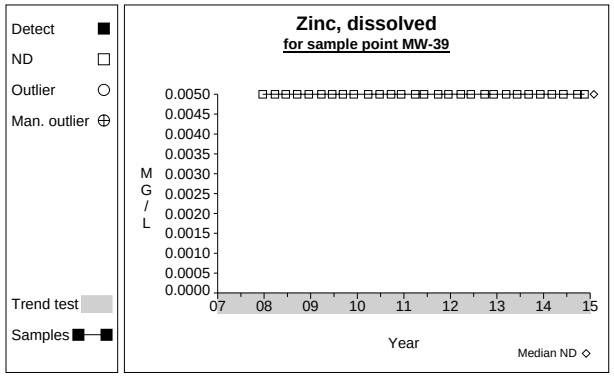
Graph 697



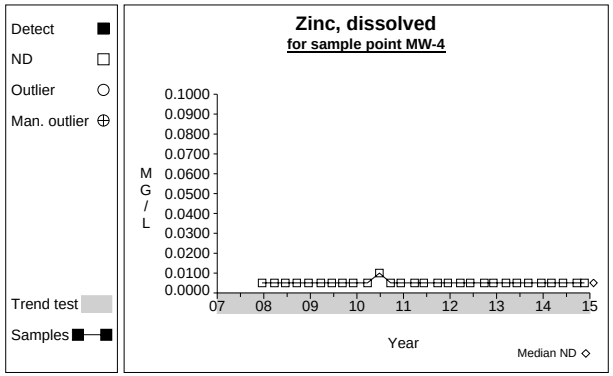
Graph 698



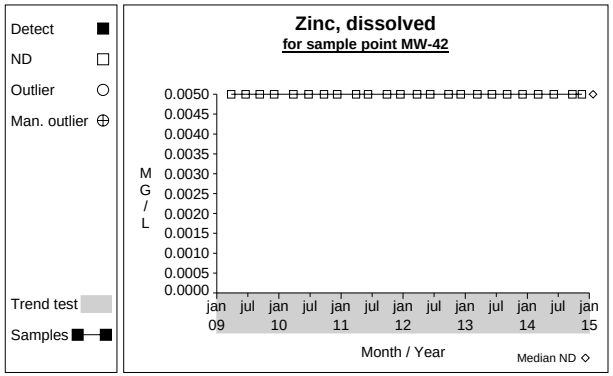
Graph 699



Graph 700

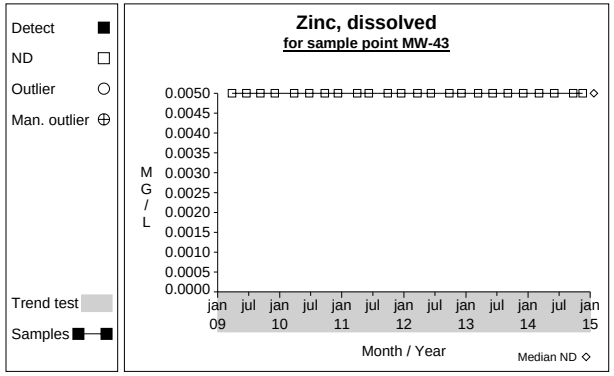


Graph 701

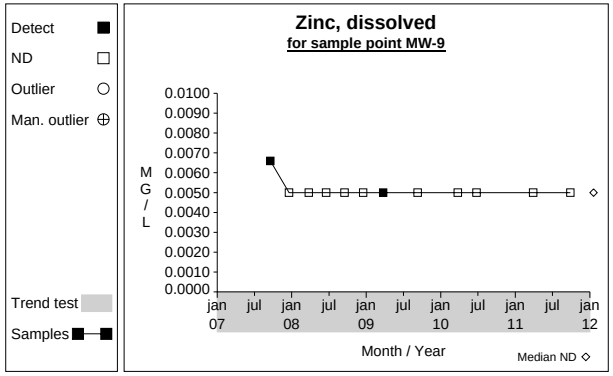


Graph 702

Time Series



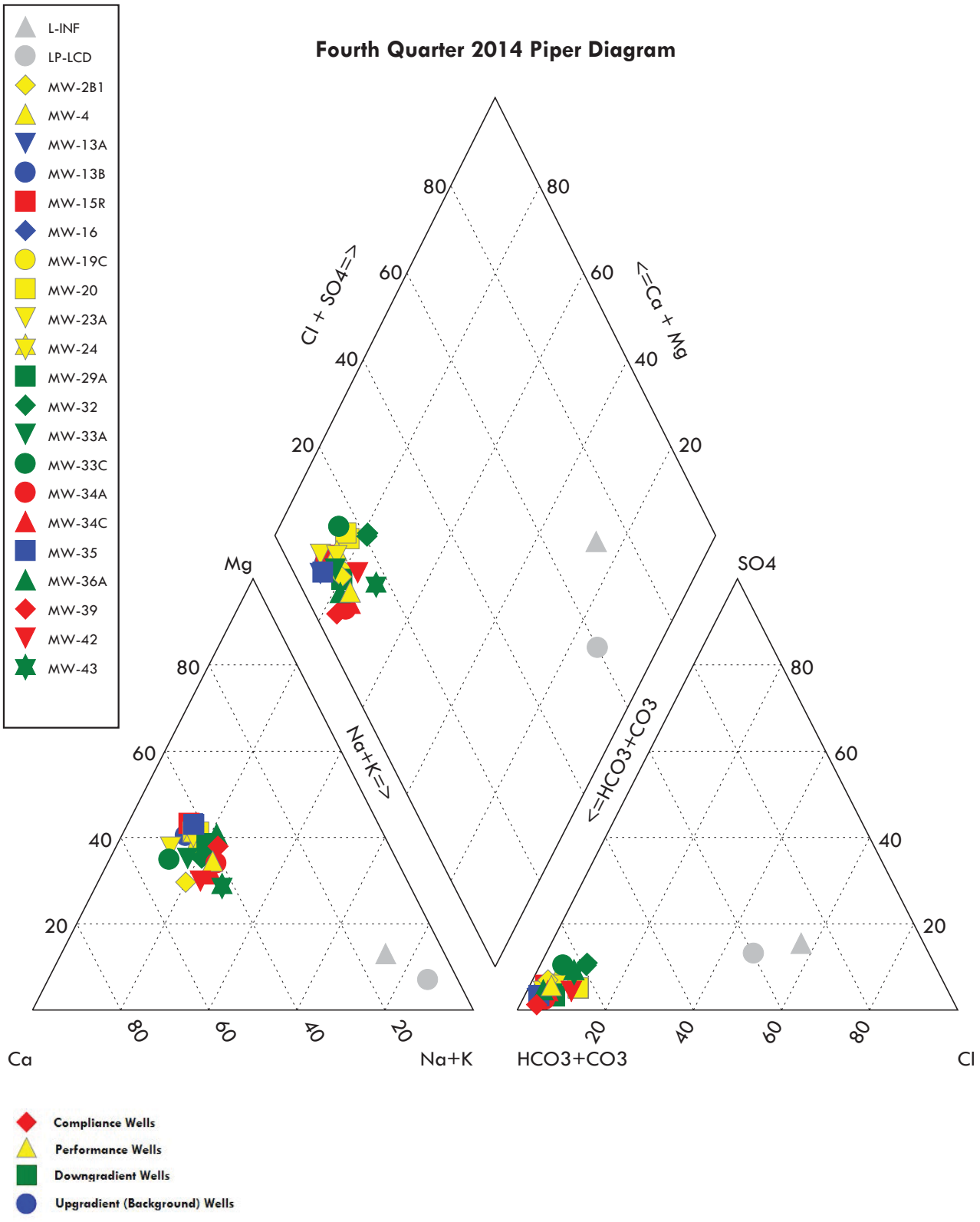
Graph 703



Graph 704

APPENDIX D

FOURTH QUARTER 2014
GROUNDWATER GEOCHEMICAL EVALUATION



DESCRIPTION: Piper Diagram, Fourth Quarter 2014 Monitoring Report

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-13A
Sample Date 11/17/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.4	0.235
K	0.02258	<1	<0.0256
Ca	0.04990	15	0.749
Mg	0.8229	9.3	0.765
	Sum of Cations		1.774

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.9	0.0536
SO4	0.02082	2.1	0.04375
NO3	0.01613	0.46	0.00742
HCO3	0.01639	94.8	1.554
	Sum of Anions		1.66
	Sum of Ions		3.43
	Balance (% Difference)		3.375

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-13B
Sample Date 11/17/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.3	0.2305
K	0.02258	<1	<0.0256
Ca	0.04990	16	0.798
Mg	0.8229	8.7	0.716
	Sum of Cations		1.77

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.1	0.0592
SO4	0.02082	3.7	0.0771
NO3	0.01613	0.47	0.00758
HCO3	0.01639	94.8	1.554
	Sum of Anions		1.698
	Sum of Ions		3.47
	Balance (% Difference)		2.1

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-15R
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	6.1	0.2653
K	0.02258	<1	<0.0256
Ca	0.04990	18	0.898
Mg	0.8229	11	0.905
	Sum of Cations		2.094

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.3	0.0649
SO4	0.02082	5	0.1042
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	100.8	1.652
	Sum of Anions		1.822
	Sum of Ions		3.92
	Balance (% Difference)		6.96

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-16
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	4.8	0.2088
K	0.02258	<1	<0.0256
Ca	0.04990	11	0.549
Mg	0.8229	6.4	0.527
	Sum of Cations		1.31

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.5	0.0423
SO4	0.02082	3.3	0.0688
NO3	0.01613	0.28	0.00452
HCO3	0.01639	68.4	1.12
	Sum of Anions		1.237
	Sum of Ions		2.547
	Balance (% Difference)		2.88

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-19C
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	6.1	0.2653
K	0.02258	1.5	0.0384
Ca	0.04990	14	0.699
Mg	0.8229	7.2	0.592
	Sum of Cations		1.595

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.6	0.0733
SO4	0.02082	4.4	0.0917
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	84	1.377
	Sum of Anions		1.542
	Sum of Ions		3.14
	Balance (% Difference)		1.668

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-20
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	10	0.435
K	0.02258	3.1	0.0793
Ca	0.04990	25	1.248
Mg	0.8229	15	1.234
	Sum of Cations		2.996

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	9.5	0.268
SO4	0.02082	5.7	0.1188
NO3	0.01613	2.7	0.04355
HCO3	0.01639	120	1.967
	Sum of Anions		2.397
	Sum of Ions		5.39
	Balance (% Difference)		11.1

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-20
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	8.4	0.3654
K	0.02258	3	0.0767
Ca	0.04990	24	1.198
Mg	0.8229	14	1.152
	Sum of Cations		2.79

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	9.3	0.2623
SO4	0.02082	5.7	0.1188
NO3	0.01613	2.6	0.0419
HCO3	0.01639	118.8	1.947
	Sum of Anions		2.37
	Sum of Ions		5.16
	Balance (% Difference)		8.17

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-23A
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.1	0.222
K	0.02258	1.1	0.02813
Ca	0.04990	20	0.998
Mg	0.8229	9.2	0.757
	Sum of Cations		2.005

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.7	0.0762
SO4	0.02082	4.2	0.0875
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	112.8	1.85
	Sum of Anions		2.013
	Sum of Ions		4.02
	Balance (% Difference)		-0.2004

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-24
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.4	0.235
K	0.02258	<1	<0.0256
Ca	0.04990	14	0.699
Mg	0.8229	8	0.658
	Sum of Cations		1.617

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.8	0.079
SO4	0.02082	4.2	0.0875
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	74.4	1.22
	Sum of Anions		1.387
	Sum of Ions		3.004
	Balance (% Difference)		7.68

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-29A
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	3.1	0.1348
K	0.02258	<1	<0.0256
Ca	0.04990	6.5	0.3244
Mg	0.8229	3.7	0.3045
	Sum of Cations		0.79

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.2	0.062
SO4	0.02082	1.4	0.02917
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	49.2	0.806
	Sum of Anions		0.898
	Sum of Ions		1.688
	Balance (% Difference)		-6.47

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-2B1
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	3.3	0.1435
K	0.02258	1.1	0.02813
Ca	0.04990	8.7	0.434
Mg	0.8229	3.1	0.255
	Sum of Cations		0.861

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1	0.0282
SO4	0.02082	2.7	0.0563
NO3	0.01613	0.29	0.00468
HCO3	0.01639	44.4	0.728
	Sum of Anions		0.817
	Sum of Ions		1.678
	Balance (% Difference)		2.63

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-32
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	17	0.74
K	0.02258	1.3	0.03325
Ca	0.04990	32	1.597
Mg	0.8229	16	1.317
	Sum of Cations		3.686

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	12	0.3385
SO4	0.02082	16	0.3333
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	156	2.557
	Sum of Anions		3.23
	Sum of Ions		6.92
	Balance (% Difference)		6.61

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-32
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	17	0.74
K	0.02258	1.4	0.0358
Ca	0.04990	33	1.647
Mg	0.8229	16	1.317
	Sum of Cations		3.74

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	12	0.3385
SO4	0.02082	17	0.354
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	156	2.557
	Sum of Anions		3.25
	Sum of Ions		6.99
	Balance (% Difference)		6.99

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-33A
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	3.3	0.1435
K	0.02258	<1	<0.0256
Ca	0.04990	9.1	0.454
Mg	0.8229	4.1	0.3374
	Sum of Cations		0.96

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.7	0.04795
SO4	0.02082	1.4	0.02917
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	43.2	0.708
	Sum of Anions		0.786
	Sum of Ions		1.747
	Balance (% Difference)		10.0

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-33C
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	4.5	0.1957
K	0.02258	1.5	0.0384
Ca	0.04990	18	0.898
Mg	0.8229	7.4	0.609
	Sum of Cations		1.74

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.8	0.079
SO4	0.02082	7.7	0.1604
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	79.2	1.298
	Sum of Anions		1.538
	Sum of Ions		3.28
	Balance (% Difference)		6.19

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-34A
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	11	0.478
K	0.02258	<1	<0.0256
Ca	0.04990	17	0.848
Mg	0.8229	8.5	0.7
	Sum of Cations		2.05

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	3	0.0846
SO4	0.02082	2	0.0417
NO3	0.01613	0.77	0.01242
HCO3	0.01639	94.8	1.554
	Sum of Anions		1.692
	Sum of Ions		3.744
	Balance (% Difference)		9.6

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-34C
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	15	0.652
K	0.02258	2.4	0.0614
Ca	0.04990	25	1.248
Mg	0.8229	11	0.905
	Sum of Cations		2.867

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	4	0.1128
SO4	0.02082	5.1	0.1063
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	132	2.163
	Sum of Anions		2.383
	Sum of Ions		5.25
	Balance (% Difference)		9.2

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-35
Sample Date 11/17/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.2	0.226
K	0.02258	<1	<0.0256
Ca	0.04990	14	0.699
Mg	0.8229	8.7	0.716
	Sum of Cations		1.666

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.8	0.0508
SO4	0.02082	2.5	0.0521
NO3	0.01613	0.42	0.00677
HCO3	0.01639	88.8	1.455
	Sum of Anions		1.565
	Sum of Ions		3.23
	Balance (% Difference)		3.136

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-36A
Sample Date 11/19/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	6.5	0.283
K	0.02258	1.1	0.02813
Ca	0.04990	11	0.549
Mg	0.8229	7.2	0.592
	Sum of Cations		1.452

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.5	0.0423
SO4	0.02082	2.7	0.0563
NO3	0.01613	0.94	0.01516
HCO3	0.01639	67.2	1.101
	Sum of Anions		1.215
	Sum of Ions		2.667
	Balance (% Difference)		8.9

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-39
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	6.9	0.3
K	0.02258	<1	<0.0256
Ca	0.04990	11	0.549
Mg	0.8229	6.5	0.535
	Sum of Cations		1.41

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	2.7	0.0762
SO4	0.02082	1.2	0.025
NO3	0.01613	0.19	0.003065
HCO3	0.01639	117.6	1.927
	Sum of Anions		2.03
	Sum of Ions		3.44
	Balance (% Difference)		-18.08

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-4
Sample Date 11/20/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	5.5	0.239
K	0.02258	<1	<0.0256
Ca	0.04990	9.4	0.469
Mg	0.8229	4.7	0.387
	Sum of Cations		1.12

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.8	0.0508
SO4	0.02082	2.8	0.0583
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	56.4	0.924
	Sum of Anions		1.034
	Sum of Ions		2.155
	Balance (% Difference)		4.01

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-42
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	20	0.87
K	0.02258	8.2	0.2097
Ca	0.04990	44	2.196
Mg	0.8229	17	1.4
	Sum of Cations		4.67

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	19	0.536
SO4	0.02082	11	0.229
NO3	0.01613	<0.05	<0.000806
HCO3	0.01639	276	4.52
	Sum of Anions		5.29
	Sum of Ions		9.96
	Balance (% Difference)		-6.17

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location MW-43
Sample Date 11/18/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	2.8	0.1218
K	0.02258	<1	<0.0256
Ca	0.04990	4.4	0.2196
Mg	0.8229	1.8	0.148
	Sum of Cations		0.515

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	1.5	0.0423
SO4	0.02082	2.1	0.04375
NO3	0.01613	0.81	0.01306
HCO3	0.01639	25.2	0.413
	Sum of Anions		0.512
	Sum of Ions		1.027
	Balance (% Difference)		0.286

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location L-INF
Sample Date 12/9/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	460	20.0
K	0.02258	69	1.765
Ca	0.04990	79	3.94
Mg	0.8229	47	3.87
	Sum of Cations		29.6

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	540	15.23
SO4	0.02082	200	4.17
NO3	0.01613	48	0.774
HCO3	0.01639	456	7.47
	Sum of Anions		27.65
	Sum of Ions		57.2
	Balance (% Difference)		3.386

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

CATION/ANION BALANCE

Location LP-LCD
Sample Date 12/9/2014

CATIONS

Major Ions	Conversion Factor	mg/L	meq/L
Na	0.04350	790	34.36
K	0.02258	72	1.84
Ca	0.04990	57	2.844
Mg	0.8229	36	2.96
	Sum of Cations		42.0

ANIONS

Major Ions	Conversion Factor	mg/L	meq/L
Cl	0.02821	660	18.6
SO4	0.02082	250	5.21
NO3	0.01613		
HCO3	0.01639	960.0	15.73
	Sum of Anions		39.56
	Sum of Ions		81.6
	Balance (% Difference)		3.01

DESCRIPTION: Fourth Quarter 2014 Cation-Anion Balance

	PROJECT: Olympic View Sanitary Landfill	PROJECT NO: 04204027.18
	CLIENT: Waste Management - Closed Sites	DATE: March 2015

APPENDIX E

LANDFILL GAS MONITORING RESULTS

Table E1. Historical Results of Methane (CH_4) Measurements
2014 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
12/29/2014	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
2014 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
12/29/2014	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
2014 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
12/29/2014	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