FINAL
JUNE 2009 (N=25) GROUNDWATER, SURFACE-WATER, AND METHANE MONITORING REPORT

FOR

LONGSTREET ROAD MSW LANDFILL
NCDENR LANDFILL PERMIT #26-02

FORT BRAGG, NORTH CAROLINA

Prepared by:

US Army Corps of Engineers
Savannah District
Hazardous, Toxic & Radioactive Waste Section
CESAS-EN-GH
110 W. Oglethorpe Avenue
Savannah, GA 31401

October 2009

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SIGNATURE OF CERTIFIED PROFESSIONAL GEOLOGIST	
Kevin G. Haborak, P. G. Professional License Numbers: Georgia # 1683	Date

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LIST OF ACRONYMS

C&D	Construction and Demolition
COCs	Chemicals of Concern
DPW	Directorate of Public Works
IDW	Investigation Derived Waste
LCID	Land Clearing and Inert Debris
µg/L	Micrograms Per Liter
MSWLF	Municipal Solid Waste Landfill Facility
NC2L	North Carolina Administrative Code, Title 15A, Subchapter 2L
NCDENR	North Carolina Department of Environmental and Natural Resources
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
USACE	US Army Corps of Engineers
VOCs	Volatile Organic Compounds

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1.0 INTRODUCTION

This is the June 2009 Report for the groundwater and methane monitoring at the Longstreet Landfill (Figure 1) performed by the United States Army Corps of Engineers (USACE), Savannah District in June, 2009. The monitoring is required by the North Carolina Department of Environmental and Natural Resources (NCDENR) Solid Waste Management Division. This in the twenty-fifth (N=25) monitoring event for the site. This report summarizes the methods used for the groundwater and methane monitoring and presents the results of the sampling event.

1.1 Project Background

The Longstreet Road landfill is a Municipal Solid Waste Landfill Facility (MSWLF) located north of Longstreet Road at Fort Bragg in Cumberland County, North Carolina. Figure 1 is a map of the site location. The United States Army Corps of Engineers (USACE), Savannah District has been contracted by the Fort Bragg Directorate of Public Works (DPW) to conduct water quality and methane sampling for the Environmental Branch to satisfy the permit and Sampling and Analysis Plan (SAP) requirements. Groundwater, surface-water, and methane monitoring locations are shown on Figure 2. The current SAP, approved by NCDENR, includes sampling nine monitoring wells and two surface-water stations. The monitoring wells are SLMW-6, SLMW-7, SLMW-8, SLMW-9, SLMW-10, SLMW-11R, SLMW-12AR, SLMW-12BR, and SLMW-13, and the surface-water stations are SW-1 and SW-2. Monitoring well SLMW-11R is a replacement well that was installed in July 2008. The replacement well was installed because well SLMW-11 had been dry for several events. All sampling was conducted according to North Carolina Solid Waste Management Guidelines.

1.2 Project Scope

The scope for this project included collecting 9 groundwater samples for all Appendix I and triggered Appendix II constituents, collecting 2 surface-water monitoring samples for all Appendix I & II constituents, performing methane monitoring at 14 selected methane monitoring wells and 5 buildings on site, evaluating the analytical results, and reporting the results of the investigation. The groundwater sampling and data analyses included obtaining field parameter measurements (i.e. pH, temperature, etc.), measuring water levels at the monitoring well locations, determining groundwater flow directions, validating laboratory analytical data, performing statistical analysis for each detected constituent as required by NC regulations, and determining the concentration changes of chemicals of concern (COCs) with time.

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2.0 PROJECT HISTORY

2.1 Site Description

The MSWLF is located north of Longstreet Road at Fort Bragg in Cumberland County, North Carolina. Figures 1 and 2 show the site location and layout. The MSWLF is west of the main post and east of Cooleyconch Mountain. Cooleyconch Mountain is the prominent terrain feature west of the main post. A vehicle washing facility borders the site to the east, the Lamont Road LCID and C&D Landfills are approximately 1.5 miles east of the site (on the west side of Cooleyconch Mountain).

2.2 General Site Geology and Hydrology

Lithologic descriptions of soil borings and monitoring well borings from previous investigations at Fort Bragg indicate that in general Fort Bragg is underlain by alternating sands, silty sands, clayey sands, sandy clays, and clays, likely belonging to the Middendorf Formation. The sands and silty sands range in thickness from approximately 2 to 22 ft and are coarse grained. The clay units range in thickness from approximately 2 to 7 ft and are typically plastic.

2.3 Previous Investigation and Results

Several sampling events have been conducted at the Landfill. Initially, four monthly sampling events were conducted in July, August, September, and October 1996 by R,S & H Architect, Engineering, & Planning, Inc. Law & Company, Inc. conducted two sampling events in March and September, 1999 in conjunction with the installation of new wells. Then until 2005, sampling events were conducted by BPA Environmental & Engineering, Inc. The USACE has monitored the site since 2005.

The previous sampling event, held in November 2008 for Longstreet Landfill, was conducted by the USACE, Savannah District. Low levels of VOCs, SVOCs, pesticides and Appendix II inorganics were detected, but most detections were at

estimated levels and/or were below NC2L standards. Constituents found above the NC2L standards were: benzene, vinyl chloride, and dichlorobenzene

3.0 METHODS

3.1 Methane Monitoring

Methane monitoring was performed at 14 wells and 5 buildings. The monitoring included measuring levels of methane, carbon dioxide, and oxygen at each of the locations. The results of the monitoring are summarized in Table 1 and are also presented on Figure 3.

3.2 Water-Level Gauging

During this sampling event, USACE personnel measured the water levels in 9 monitoring wells. Measured water levels and calculated groundwater elevations are presented in Table 2. A Potentiometric map was developed based on the groundwater elevations; the map is presented as Figure 4. The map shows that the general direction of the groundwater flow at the Longstreet Landfill is towards the west-northwest.

3.3 Groundwater and Surface-Water Sampling

The groundwater sampling was conducted in accordance with the SAP for the Longstreet Road MSWLF (NCDENR Landfill Permit #26-02, which has been updated to reflect the most recent SAP). Groundwater samples were collected from nine monitoring wells and two surface-water stations. Water quality parameters pH, specific conductivity, temperature, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured during the purge cycle of each well and prior to sampling the surface-water stations. The measurements are summarized in Table 3.

The surface-water samples were collected using a peristaltic pump. The water to be collected for VOC analysis was not allowed to pass through the head of the pump, instead the tubing was filled and the the flow was reversed to fill the bottles. Groundwater samples were collected using a low-flow purge method with a bladder pump. Immediately before purging a well, the static water level below the top of the well casing and the total depth of the well were measured to the nearest 0.01 foot and recorded in the field notebook. The volume of water in the well was calculated based on the static

water level and the well construction information. Well volume calculations were placed in the field notebook. The inlet of the sampling pump was placed at the mid-point of the screened interval. This level was adjusted for wells where the static water level is within the well screen. The monitoring wells were purged using a variable-flow bladder pump at a rate of 500 ml/min or less.

The wells were purged until the water quality had stabilized or five purge volumes were removed. The wells were considered stable when the following requirements were met for three consecutive readings: turbidity values within 10% or lower than 10 Nephelometric Turbidity Units (NTUs), temperature values within a range of 0.5 degrees Celcius, pH readings within 0.1 Standard Units (SU), ORP values within a range of 10 milivolts (mV), and conductivity values within 3%, and DO values within 10%.

The rate of pumping was determined and noted in the field notebook. The purge rate was adjusted, as necessary, to avoid purging any well to dryness and to equal the recharge of the aquifer. All sampling equipment was protected from contaminated soil surfaces to prevent contamination of the samples (e.g., equipment may be placed on disposable polyethylene plastic sheeting). Groundwater samples were collected after purging was complete. The tubing was disconnected from the flow through cell and the samples were collected from the pump outlet. The samples were labeled and placed into an ice-filled cooler for preservation.

Groundwater sampling data (including sample number, location, quantity of water purged, field parameters, site conditions, etc.) were documented in the field notebook. Water samples for Resource Conservation and Recovery Act (RCRA) metal analyses were un-filtered. The results of the groundwater sampling are presented in Table 4 and on Figure 5. The groundwater sampling field data logs are presented in Appendix A.

3.4 Investigation Derived Wastes Handling

The investigation derived wastes (IDW), including the waste water from well purging and decontamination water, were containerized in 55-gallon drums. Those

drums were appropriately labeled, sealed, and staged within designated areas until analytical results had been received and reviewed. Based on the analytical results of the groundwater samples, the IDW was classified as non-hazardous. With the concurrence of the Fort Bragg Installation Restoration Program Manager, the IDW was disposed of at an appropriate disposal facility.

4.0 ANALYTICAL RESULTS AND STATISTICAL ANALYSIS

4.1 Analytical Data Summary

Groundwater samples were analyzed for VOCs, SVOCs, Pesticides, PCBs, Organophosphorus Pesticides, and Appendix II Inorganics. The surface-water samples were analyzed for all Appendix I and Appendix II constituents. The summary of detections of the COCs is presented in Table 4. Figure 5 shows the distribution of the detections and their concentrations from this sampling event. The reports of chemical data quality assessment prepared by the Project Chemist are included as Appendix B. The laboratory reports of analytical results are included as Appendix C. For comparison, the analytical results of previous investigations are also presented in the Statistical Analyses Summary Report included in Appendix D.

In accordance with North Carolina guidance, analytical results are compared to North Carolina Groundwater 2L Standards (NC2L standards). The analytical data of the first 2009 sampling event indicated that some VOCs and inorganics were detected at low levels, and most detections were below NC2L standards (Table 4). Five wells and one surface-water sample had detections exceeding the NC2L standards: wells SLMW-7, SLMW-8, SLMW-9, SLMW-10, SLMW-11R, and SW-1. The analytical results for each of those wells are discussed as follows:

- <u>Well SLMW-7</u>

  4-Methylphenol (p-cresol) was estimated at 12 µg/L, above the 2L standard of 3.5 µg/L. No other constituents were above their 2L standard.

- <u>Well SLMW-8</u>

  Three compounds were estimated or detected above the 2L standard as listed below:

Compound	2L	Concentration
Benzene	1 µg/L	3.6 J µg/L
Tetrachloroethene	0.7 µg/L	0.80 J µg/L
Vinyl Chloride	0.015 µg/L	12 µg/L

No other constituents were above their 2L standards.

- Well SLMW-9

  Three compounds were estimated or detected above the 2L standard as listed below:

Compound	2L	Concentration
Benzene	1 µg/L	1.9 µg/L
1,2-Dichloroethane	0.38 µg/L	0.44 J µg/L
Vinyl Chloride	0.015 µg/L	2 µg/L

  No other constituents were above their 2L standards.

- Well SLMW-10

  Three compounds were estimated or detected above the 2L standard as listed below:

Compound	2L	Concentration
1,2-Dichloropropane	0.56 µg/L	2.2 µg/L
Benzene	1.0 µg/L	1.0 µg/L
Vinyl Chloride	0.015 µg/L	1.3 µg/L

  No other constituents were above their 2L standard.

- Well SLMW-11R

  Tetrachloroethene was estimated at 2.3 µg/L. This is above the 2L standard of 0.7 µg/L. No other constituents were above their 2L standard.

- SW-1

  Three compounds were estimated or detected above the 2L standard as listed below:

Compound	2L	Concentration
Benzene	1.0 µg/L	1.7 J µg/L
Tetrachloroethene	0.7 µg/L	1.1 J µg/L
Vinyl Chloride	0.015 µg/L	2.8 µg/L

No other constituents were above their 2L standard.

Groundwater samples from all other monitoring wells had detections. However, all were below NC2L standards (Table4).

4.2 Statistical Analysis Results

A statistical test predicts the average behavior (distribution) of a random variable by comparing the means (normal distribution) or medians (lognormal and non-parametric distributions) of the compliance well data to background well data. Different statistical tests were used as appropriate for the different distributional patterns that occur within the data. Prior to testing for statistical significance, the distribution of each parameter was determined to be normal, lognormal, or non-normal.

If the data were non-normally distributed, or the fraction of nondetects exceeded 15% but were less than 90%, then the Kruskal-Wallis Test was applied. However, the Kruskal-Wallis test is prone to false positives. Therefore, additional statistical analyses were used to determine the validity of the positive results. If the fraction of non-detects exceeded 90%, then the Non-Parametric Prediction Limit was applied. Intra-well comparisons of data from a single well to previous data from the same well were performed to confirm if a trend of increasing concentration is occurring. The Mann-Kendall Trend Analysis and the Shewhart-CUSUM Control Chart statistical tests were selected for these additional analyses.

A detailed discussion of the statistical methods is presented in Appendix D. The results of the analysis indicated that the samples collected at the Longstreet Road Municipal Solid Waste Landfill did not exhibit any evidence of SSIs in the analytical results with the following exceptions: 1,1-dichloroethane data from MW-9 and chlorobenzene data from MW-8 represented SSIs. Future analytical results will be evaluated using the same procedures.

According to North Carolina Administrative Code Title 15A Chapter 13 Subchapter B Section 1634 paragraph f [15A NC3AC 13B.1634 (f)], assessment monitoring shall continue if Appendix II parameters are detected at statistically significant levels above background but below established groundwater protection standards. The SSIs identified for 1,1-dichloroethane and chlorobenzene do not exceed their respectively groundwater protection standard. Assessment monitoring will have to continue at the landfill due to the SSIs.

4.3 Methane Monitoring Results

The methane levels were measured at 19 locations at Longstreet. The results of the monitoring are summarized in Table 1 and are also presented on Figure 3. Six methane monitoring wells contained high levels of methane with one reading at or above 50% methane by volume. Methane vent flares were recommended for this landfill in the 2005 Report.

5.0 CONCLUSIONS AND RECOMMENATIONS

The annual monitoring program consists of two sampling events (this was the first) conducted six months apart. This was the N=25 sampling event for the Longstreet Road Landfill. Low levels of VOCs, SVOCs, pesticides and Appendix II inorganics were detected, but most detections were at estimated levels and/or were below NC2L standards. Benzene was detected above its NC2L standard at monitoring wells SLMW-8, SLMW-9, SLMW-10, and in SW-1. Vinyl chloride was detected above the NC2L standard at monitoring wells SLMW-8, SLMW-9, SLMW-10, and in SW-1.

According to the Statistical Analysis of groundwater Data (Appendix D), The results of the analysis indicated that the samples collected at the Longstreet Road Municipal Solid Waste Landfill did not exhibit any evidence of SSIs in the analytical results with the following exceptions: 1,1-dichloroethane data from MW-9 and chlorobenzene data from MW-8 represented SSIs. Future analytical results will be evaluated using the same procedures.

According to North Carolina Administrative Code Title 15A Chapter 13 Subchapter B Section 1634 paragraph f [15A NC3AC 13B.1634 (f)], assessment monitoring shall continue if Appendix II parameters are detected at statistically significant levels above background but below established groundwater protection standards. The SSIs identified for 1,1-dichloroethane and chlorobenzene do not exceed their respectively groundwater protection standard. Long-term monitoring should continue at the Longstreet Road Landfill because it is still an active site and NC Solid Waste Regulations require it.

The methane levels were measured at 20 locations at Longstreet. Six methane monitoring wells showed high levels of methane with only one reading at or above 50% methane by volume. Methane vent flares were recommended for this landfill in the 2005 Report.

6.0 REFERENCES

North Carolina Administrative Code, Title 15A, Department of Environment, Health, and Natural Resources, Division of Solid Waste, Management, Subchapter 13B, Solid Waste Management, Section .1600 (January 4, 1994).

North Carolina Administrative Code, Title 15A, Department of Environment, Health, and Natural Resources, Division of Solid Waste, Management, SubchapterNC2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993): from the Environmental Management Commission, Raleigh, North Carolina.

FIGURES

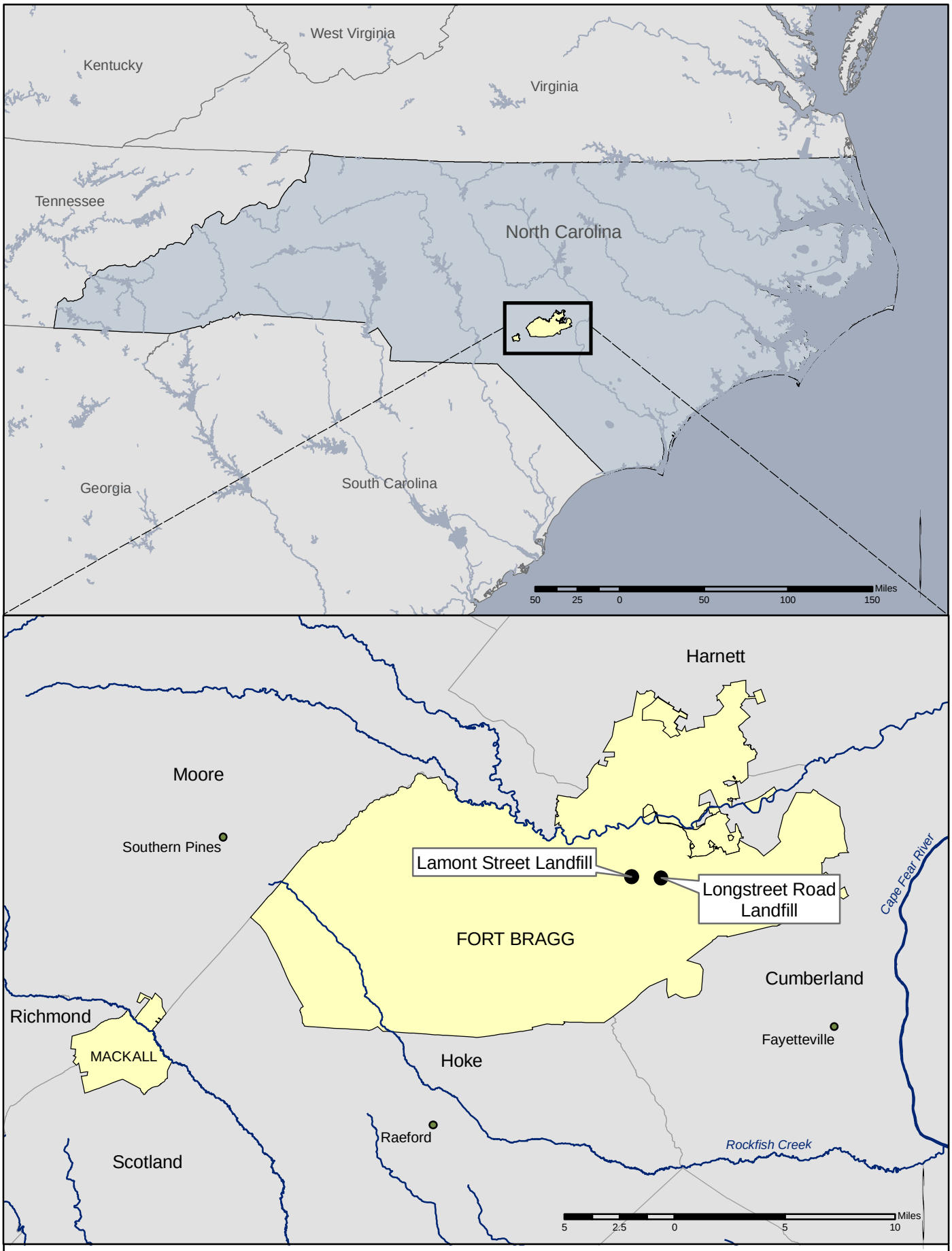

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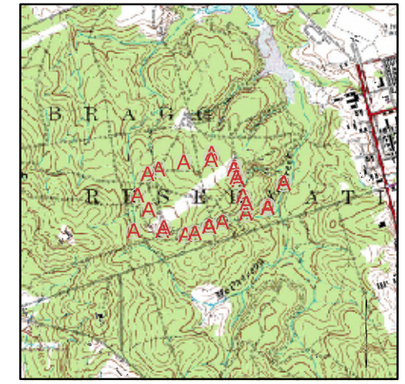
Figure 1

Site Map -- Ft. Bragg, NC



LEGEND

- METHANE SAMPLE
- SURFACE WATER SAMPLE
- MONITORING WELL
- STREAM
- PAVED ROAD
- DIRT ROAD
- WASH RACK AREA
- BUILDING
- SWMU AREA

1 inch equals 400 feet

0 200 400 800'

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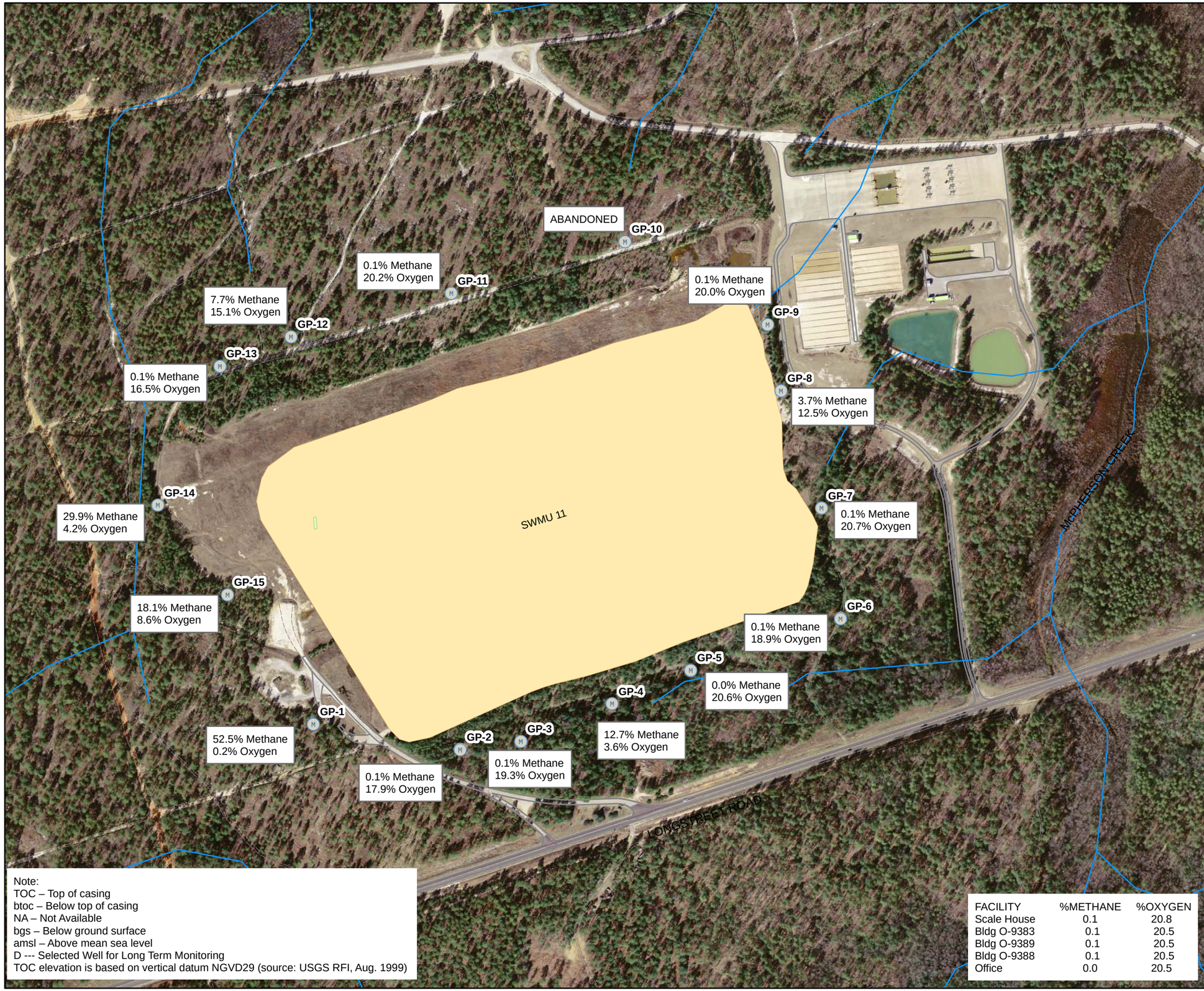
LONGSTREET RD LANDFILL, FORT BRAGG, NC

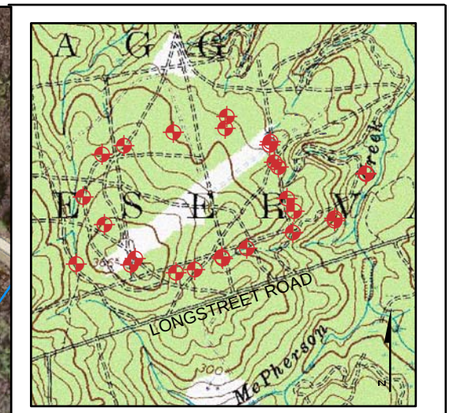
SITE MAP
LONGSTREET RD LANDFILL

DATE: OCT 2008 | FIGURE 2



Note:
TOC – Top of casing
btoc – Below top of casing
NA – Not Available
bgs – Below ground surface
amsl – Above mean sea level
D --- Selected Well for Long Term Monitoring
TOC elevation is based on vertical datum NGVD29 (source: USGS RFI, Aug. 1999)

FACILITY	%METHANE	%OXYGEN
Scale House	0.1	20.8
Bldg O-9383	0.1	20.5
Bldg O-9389	0.1	20.5
Bldg O-9388	0.1	20.5
Office	0.0	20.5



LEGEND

- METHANE SAMPLE
- STREAM
- BUILDING
- SWMU AREA
- ROAD
- TRAIL

1 inch = 400 feet

0 200 400 800'

N

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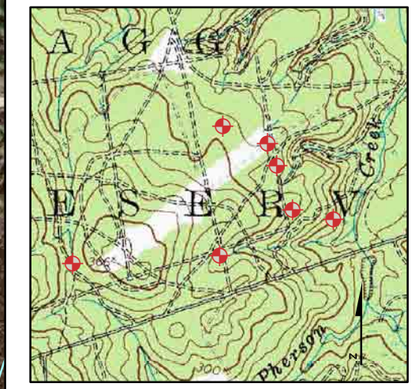
SAVANNAH, GEORGIA

METHANE MONITORING RESULTS

LONGSTREET LANDFILL
FT. BRAGG, NC

DATE: SEPT 2009 | FIGURE 3



LEGEND

- Groundwater Contour
- SWMU Area
- Longstreet Wells
- Stream

Note: Monitoring wells used for potentiometric surface are displayed with elevations in feet above MSL in parenthesis below the label.

1 inch = 367 feet

0 185 370 740'

N

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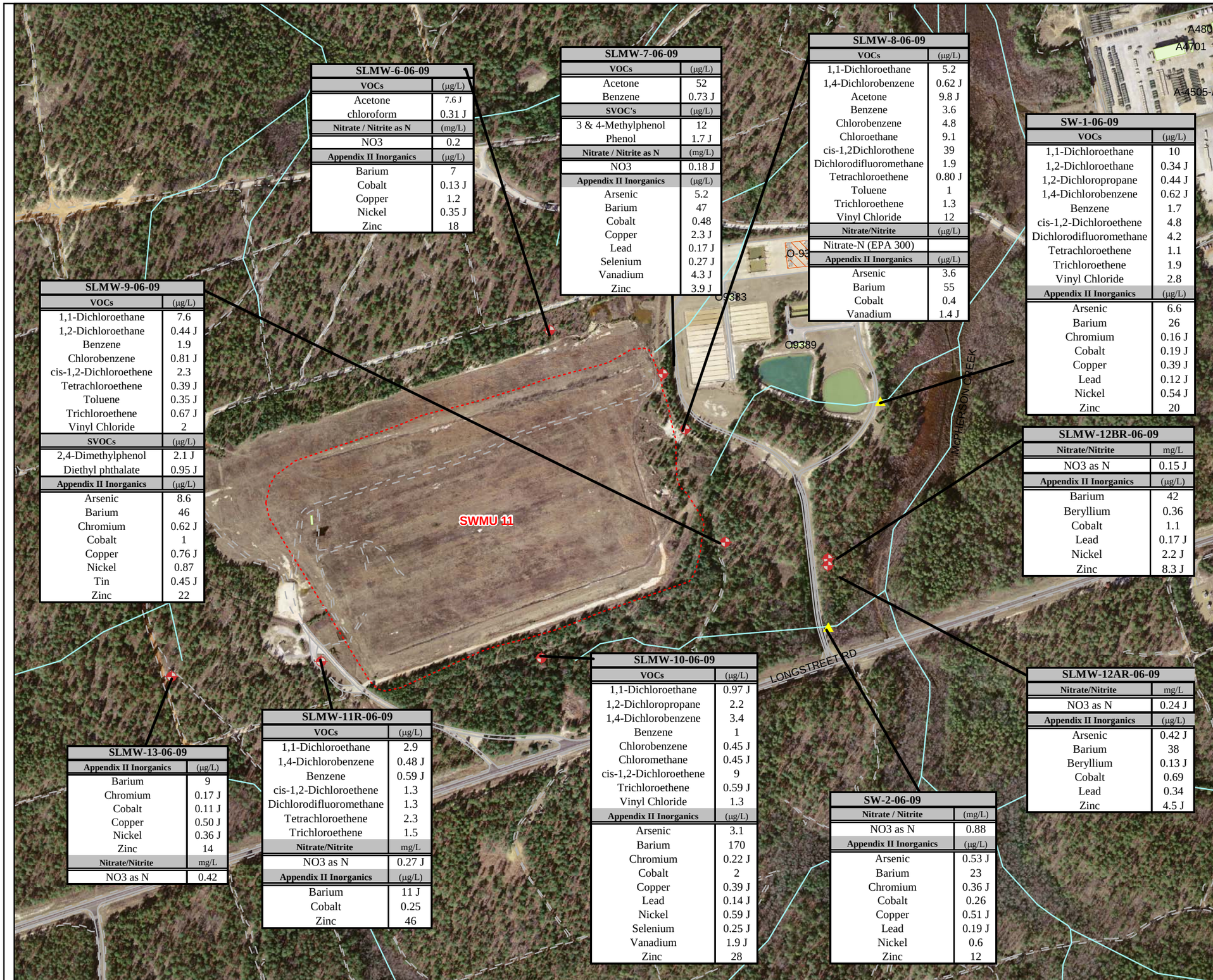
POTENTIOMETRIC MAP

DATE: SEPT 2009 | FIGURE 4



SLMW-6-06-09	
VOCs	**(µg/L)**
Acetone	7.6 J
chloroform	0.31 J
Nitrate / Nitrite as N	**(mg/L)**
NO3	0.2
Appendix II Inorganics	**(µg/L)**
Barium	7
Cobalt	0.13 J
Copper	1.2
Nickel	0.35 J
Zinc	18

SLMW-7-06-09	
VOCs	**(µg/L)**
Acetone	52
Benzene	0.73 J
SVOC's	**(µg/L)**
3 & 4-Methylphenol	12
Phenol	1.7 J
Nitrate / Nitrite as N	**(mg/L)**
NO3	0.18 J
Appendix II Inorganics	**(µg/L)**
Arsenic	5.2
Barium	47
Cobalt	0.48
Copper	2.3 J
Lead	0.17 J
Selenium	0.27 J
Vanadium	4.3 J
Zinc	3.9 J

SLMW-8-06-09	
VOCs	**(µg/L)**
1,1-Dichloroethane	5.2
1,4-Dichlorobenzene	0.62 J
Acetone	9.8 J
Benzene	3.6
Chlorobenzene	4.8
Chloroethane	9.1
cis-1,2Dichlorothene	39
Dichlorodifluoromethane	1.9
Tetrachloroethene	0.80 J
Toluene	1
Trichloroethene	1.3
Vinyl Chloride	12
Nitrate/Nitrite	**(µg/L)**
Nitrate-N (EPA 300)	
Appendix II Inorganics	**(µg/L)**
Arsenic	3.6
Barium	55
Cobalt	0.4
Vanadium	1.4 J

SW-1-06-09	
VOCs	**(µg/L)**
1,1-Dichloroethane	10
1,2-Dichloroethane	0.34 J
1,2-Dichloropropane	0.44 J
1,4-Dichlorobenzene	0.62 J
Benzene	1.7
cis-1,2-Dichloroethene	4.8
Dichlorodifluoromethane	4.2
Tetrachloroethene	1.1
Trichloroethene	1.9
Vinyl Chloride	2.8
Appendix II Inorganics	**(µg/L)**
Arsenic	6.6
Barium	26
Chromium	0.16 J
Cobalt	0.19 J
Copper	0.39 J
Lead	0.12 J
Nickel	0.54 J
Zinc	20

SLMW-9-06-09	
VOCs	**(µg/L)**
1,1-Dichloroethane	7.6
1,2-Dichloroethane	0.44 J
Benzene	1.9
Chlorobenzene	0.81 J
cis-1,2-Dichloroethene	2.3
Tetrachloroethene	0.39 J
Toluene	0.35 J
Trichloroethene	0.67 J
Vinyl Chloride	2
SVOCs	**(µg/L)**
2,4-Dimethylphenol	2.1 J
Diethyl phthalate	0.95 J
Appendix II Inorganics	**(µg/L)**
Arsenic	8.6
Barium	46
Chromium	0.62 J
Cobalt	1
Copper	0.76 J
Nickel	0.87
Tin	0.45 J
Zinc	22

SLMW-12BR-06-09	
Nitrate/Nitrite	**mg/L**
NO3 as N	0.15 J
Appendix II Inorganics	**(µg/L)**
Barium	42
Beryllium	0.36
Cobalt	1.1
Lead	0.17 J
Nickel	2.2 J
Zinc	8.3 J

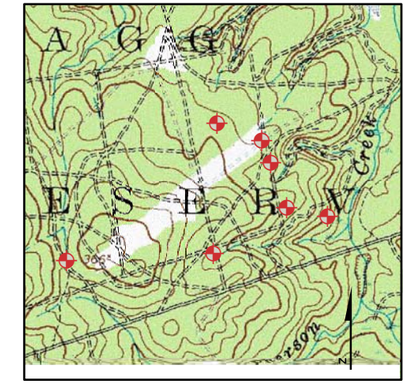
SLMW-10-06-09	
VOCs	**(µg/L)**
1,1-Dichloroethane	0.97 J
1,2-Dichloropropane	2.2
1,4-Dichlorobenzene	3.4
Benzene	1
Chlorobenzene	0.45 J
Chloromethane	0.45 J
cis-1,2-Dichloroethene	9
Trichloroethene	0.59 J
Vinyl Chloride	1.3
Appendix II Inorganics	**(µg/L)**
Arsenic	3.1
Barium	170
Chromium	0.22 J
Cobalt	2
Copper	0.39 J
Lead	0.14 J
Nickel	0.59 J
Selenium	0.25 J
Vanadium	1.9 J
Zinc	28

SLMW-12AR-06-09	
Nitrate/Nitrite	**mg/L**
NO3 as N	0.24 J
Appendix II Inorganics	**(µg/L)**
Arsenic	0.42 J
Barium	38
Beryllium	0.13 J
Cobalt	0.69
Lead	0.34
Zinc	4.5 J

SLMW-13-06-09	
Appendix II Inorganics	**(µg/L)**
Barium	9
Chromium	0.17 J
Cobalt	0.11 J
Copper	0.50 J
Nickel	0.36 J
Zinc	14
Nitrate/Nitrite	**mg/L**
NO3 as N	0.42

SLMW-11R-06-09	
VOCs	**(µg/L)**
1,1-Dichloroethane	2.9
1,4-Dichlorobenzene	0.48 J
Benzene	0.59 J
cis-1,2-Dichloroethene	1.3
Dichlorodifluoromethane	1.3
Tetrachloroethene	2.3
Trichloroethene	1.5
Nitrate/Nitrite	**mg/L**
NO3 as N	0.27 J
Appendix II Inorganics	**(µg/L)**
Barium	11 J
Cobalt	0.25
Zinc	46

SW-2-06-09	
Nitrate / Nitrite	**(mg/L)**
NO3 as N	0.88
Appendix II Inorganics	**(µg/L)**
Arsenic	0.53 J
Barium	23
Chromium	0.36 J
Cobalt	0.26
Copper	0.51 J
Lead	0.19 J
Nickel	0.6
Zinc	12



LEGEND

- MONITORING WELL
- SURFACE-WATER SAMPLE
- STREAM
- PAVED ROAD
- DIRT ROAD
- WASH RACK AREA
- BUILDING
- SWMU AREA

NOTE: Only detected analytes shown.
Well labels show total well depth below ground surface in parenthesis.
NA - Not Available
U - Target analytes were not detected above the reporting limits
J - Analyte was present but concentration is an estimated value.
B - Observed in Method Blank
Bold - Concentrations exceed NC 2L standards.
*IMAC - Interim maximum allowable concentration
**PRG based on carcinogenic factor.

1 inch = 522 feet

0 255 510 1,020'

N

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

LONGSTREET RD LANDFILL, FORT BRAGG, NC

GROUNDWATER
ANALYTICAL RESULTS

DATE: SEPT 2009 | FIGURE 5

TABLES

Table 1. Methane Monitoring Results
Longstreet Landfill, Ft. Bragg, NC

Well ID	Date Sampled	Time Sampled	%Methane by Volume	%Oxygen	%CO2
Gas-MW-1	06-13-09	13:10	52.5 %	0.2 %	40.8 %
Gas-MW-2	06-13-09	12:43	0.1 %	17.9 %	2.2 %
Gas-MW-3	06-13-09	12:46	0.1 %	19.3 %	0.8 %
Gas-MW-4	06-13-09	12:00	12.7 %	3.6 %	17.9 %
Gas-MW-5	06-13-09	12:04	0.0 %	20.6 %	0.0 %
Gas-MW-6	06-13-09	12:58	0.1 %	18.9 %	1.4 %
Gas-MW-7	06-13-09	12:54	0.1 %	20.7 %	0.0 %
Gas-MW-8	06-13-09	12:07	3.7 %	12.5 %	6.4 %
Gas-MW-9	06-13-09	12:10	0.1 %	20.0 %	0.3 %
Gas-MW-10**	06-13-09	N/A	N/A	N/A	N/A
Gas-MW-11	06-13-09	12:27	0.1 %	20.2 %	0.2 %
Gas-MW-12	06-13-09	12:30	7.7 %	15.1 %	8.1 %
Gas-MW-13	06-13-09	12:32	0.1 %	16.5 %	4.1 %
Gas-MW-14	06-13-09	13:20	29.9 %	4.2 %	21.8 %
Gas-MW-15	06-13-09	13:14	18.1 %	8.6 %	16.9 %
Scale House	06-13-09	13:07	0.1 %	20.8 %	0.0 %
Bldg O-9383	06-13-09	12:16	0.1 %	20.5 %	0.0 %
Bldg O-9389	06-13-09	12:19	0.1 %	20.5 %	0.0 %
Bldg O-9388	06-13-09	12:20	0.1 %	20.5 %	0.0 %
Office	06-13-09	12:15	0.0 %	20.5 %	0.0 %

Note:
TOC – Top of casing, btoc – Below top of casing, NA – Not Available
bgs – Below ground surface, amsl – Above mean sea level
Δ --- Selected Well for Long Term Monitoring
TOC elevation is based on vertical datum NGVD29 (source: USGS RFI, Aug. 1999)
* Erroneous reading not reported in table.
**MW10 Abandoned

Table 2. Groundwater Elevation Data
Longstreet Landfill, Ft. Bragg, NC

Well ID	TOC Elev. (ft. amsl)	Water Level (ft. btoc) 04/06	Water Elev. (ft. amsl) 04/06	Water Level (ft. btoc) 11/06	Water Elev. (ft. amsl) 11/06	Water Level (ft. btoc) 5/07to 6/07	Water Elev. (ft. amsl) 5/07to 6/07	Water Level (ft. btoc) 11/07	Water Elev. (ft. amsl) 11/07	Water Level (ft. btoc) 11/08	Water Elev. (ft. amsl) 11/08	Water Level (ft. btoc) 06/09	Water Elev. (ft.amsl) 06/09
SLMW-6	293.55	27.3	266.25	27.27	266.28	25.24	268.31	28.61	264.94	26.27	267.28	26.11	267.44
SLMW-7	290.5	20.69	269.81	21.48	269.02	20.03	270.47	22.45	268.05	20.76	269.74	20.59	269.91
SLMW-8	290.34	22.9	267.44	23.2	267.14	22.93	267.41	24.39	265.95	22.91	267.43	23.03	267.31
SLMW-9	289.54	39.2	250.34	39.57	249.97	37.3	252.24	39.29	250.25	38.31	251.23	37.3	252.24
SLMW-10	305.99	20.32	285.67	20.3	285.69	19.31	286.68	20.55	285.44	19.42	286.57	19.59	286.4
SLMW-11	357.8	78.36	279.44	78	279.8	74.83	282.97	77.48	280.32	78.96	278.84	77.62	280.18
SLMW-12AR	243.36	8.75	234.61	8.12	235.24	20.12	223.24	53.39	286.63	8.45	234.91	9.03	234.33
SLMW-12BR	243.42	9	234.42	9.1	234.32	9	234.42	9.45	233.91	9.23	234.19	8.09	235.33
SLMW-13	340.02	54.2	285.82	53.98	286.04	50.79	289.23	9.44	224.98	53.14	286.88	51.9	288.12

Note:

TOC – Top of casing, btoc – Below top of casing, NA – Not Available

bgs – Below ground surface, amsl – Above mean sea level NS – Not Surveyed

Δ --- Selected Well for Long Term Monitoring *Well & ground-water elevations unavailable at this time.

TOC elevation is based on vertical datum NGVD29 (source: USGS RFI, Aug. 1999)

Table 3. Field Parameter Measurements
Longstreet Landfill, Fort Bragg, NC

Well ID	Sample Identification	pH	Specific Conductivity (µs/cm)	Temperature (°C)	Turbidity (N.T.U.)	Dissolved Oxygen (mg/L)	ORP
SLMW-6	GW-SLMW-6-06-09	4.53	0.016	17.96	2.5	6.79	352
SLMW-7	GW-SLMW-7-06-09	5.95	0.265	20.08	4.1	4.19	-60
SLMW-8	GW-SLMW-8-06-09	6.10	0.547	21.62	2.3	5.35	-96
SLMW-9	GW-SLMW-9-06-09	6.18	0.564	20.26	5.3	0.0	-115
SLMW-10	GW-SLMW-10-06-09	6.05	0.656	19.17	4.7	0.04	-95
SLMW-11R	GW-SLMW-11-06-09	4.31	0.028	19.72	1.2	2.26	258
SLMW-12AR	GW-SLMW-12AR-06-09	5.34	0.078	21.50	7.6	3.41	134
SLMW-12BR	GW-SLMW-12BR-06-09	4.89	0.071	21.34	7.2	7.23	300
SLMW-13	GW-SLMW-13-06-09	4.44	0.017	17.96	7.3	8.08	346
SW-1	SW-1-06-09	5.99	0.243	21.18	28.7	4.49	-41
SW-2	SW-2-06-09	6.23	0.108	21.56	76.6	6.40	28

Note: N.T.U. --- Nephelometric Turbidity Unit; ORP --- Oxidation Reduction Potential
#Monitoring Wells Permanently Abandoned
*High turbidity has been a continuing problem with this well.

Table 4. Summary of GroundWater Detections Longstreet Landfill, Fort Bragg, NC

COMPOUNDS (µg/L)	Groundwater NC 2L Standard (ug/l)	EPA Drinking water MCL (ug/l)	Longstreet																							
			SLMW-6 04/05	SLMW-6 10/05	SLMW-6 4/06	SLMW-6 11/06	SLMW-6 05/07	SLMW-6 11/07	SLMW-6 11/08	SLMW-6 06/09	SLMW-7 04/05	SLMW-7 10/05	SLMW-7 4/06	SLMW-7 11/06	SLMW-7 05/07	SLMW-7 11/07	SLMW-7 11/08	SLMW-7 06/09	SLMW-8 04/05	SLMW-8 10/05	SLMW-8 4/06	SLMW-8 11/06	GW-SLMW-8 06/07	GW-SLMW-8 11/07	GW-SLMW-8 11/08	SLMW-8 06/09
VOCs (EPA 8260B)																										
1,1,2,2-tetrachloroethane	0.17	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-dichloroethane	700	810*	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.91 J	3.43	2.11	2.86	<2	4.11	3.08	5.2
1,2,3-trichloropropane	0.005	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-trimethylbenzene	350	15 *	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dibromo-3-chloropropane	0.025	0.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dibromoethane	0.0004	0.05	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dichloroethane	0.38	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dichloropropane	0.56	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,4-dichlorobenzene	75	75	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.28J	0.36J	0.43J	<2	0.28 J	0.31	0.62 J
2-butanone	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4-isopropyltoluene	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	700	NA	NA	2.2	<2	<2	<2	<2	<2	7.6 J	NA	6.97	<2	1.34J	<2	<2	24	52	NA	1.27J	<2	<2	<2	<2	9.72	9.8 J
acrolein	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
benzene	1	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.51J	0.68J	0.36J	**1.2**	0.50 J	1.01 J	0.73 J	**3.22**	**4.99**	**2.54**	**4.03**	**3.2**	**4.5**	**2.72**	**3.6**
carbon disulfide	700	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.24J	<2	<2	<2	<2
chlorobenzene	50	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.29 J	<2	1.78 J	2.75	1.69J	3.46	2.2	3.36	2.18	4.8
chloroethane	2800	4.6*	<2	<2	<2	<2	<2	<2	<2	<2	2.74	1.47J	2.27	0.72J	<2	0.98 J	1.23 J	<2	0.76 J	0.96J	0.30J	0.38J	<2	<2	1.10 J	9.1
chloroform	70	80	0.24 J	<2	<2	<2	<2	0.27 J	0.21 J	0.31 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane (methyl chloride)	2.6	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.13	<2	<2	<2	<2
cis-1,2-dichloroethene	70	70	<2	<2	<2	<2	<2	<2	<2	<2	0.21 J	<2	<2	<2	<2	0.24 J	<2	<2	55.9	**105**	42.5	42.4	25	60.9	35	39
dibromochloromethane	0.41	80	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dichlorodifluoromethane	1400	390*	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.61J	0.58J	<2	<2	<2	1.9
diisopropyl ether	70	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.43 J	<2	<2
isopropylbenzene	70	660*	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
m&p xylene	530#	10000#	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
methylene chloride (dichloromethane)	4.6	5	<2	<2	<2	<2	<2	0.21 J	<2	<2	<2	<2	<2	<2	<2	0.26	<2	<2	<2	<2	<2	0.75J	<2	0.43 J	<2	<2
MTBE	200	13*	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.54J	<2	0.21J	<2	0.39 J	<2	<2
naphthalene	21	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-xylene	530#	10000#	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.24 J	0.71J	0.41J	0.46J	<2	0.27 J	0.29	<2
sec-butylbenzene	70	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
tetrachloroethene	0.7	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**5.34**	**2.18**	**2.4**	**2.69**	<2	0.54 J	0.65	**0.80 J**
toluene	1000	1000	<2	<2	0.43J	<2	<2	<2	<2	<2	<2	0.26J	0.39J	0.51J	<2	0.27 J	0.29 J	<2	0.22 J	0.55J	0.58J	0.49J	1.2 J	0.85 J	1.34	1
trans-1,2-dichloroethene	70	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.28 J	0.52J	0.28J	3.65	<2	0.55 J	0.25	<2
trichloroethene	2.8	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.29	**6.66**	2.22	**3.54**	1.6	**4.18**	1.3	1.3
trichlorofluoromethane	2100	1300*	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	10.1	<2
vinyl chloride	0.015	2	<2	<2	<2	<2	<2	<2	<2	<2	**0.52 J**	**0.36J**	**0.64J**	**0.35J**	<2	<2	**0.58 J**	<2	**59**	**54.2**	**24.6**	**36.6**	**19**	**33.2**	**10.1**	**12**
SVOCs (EPA 8270C)																										
1,4-dichlorobenzene (para)	1.4	75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol (p-cresol)	3.5	180*	<10	<10	<10	<10	<10	<10	<10	<10	1.87 J	<10	**14.6**	<10	**13.5**	<10	38.3	**12**	**7.44 J**	<10	<10	<10	<10	<10	<10	<10
benzoic acid	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	8.4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10
benzyl alcohol	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
diethylphthalate	5000	29000*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.06J	<10	<10	<10	<10	<10	<10
di-n-butylphthalate	700	3600*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	2.5	6	<10	<10	3.62	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
phenol	300	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2.89 J	<10	4.42 J	1.7J	<10	<10	<10	<10	<10	<10	<10	<10
Pesticides (EPA 8081)																										
delta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.043	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
beta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-BHC	0.2	0.2	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	.0207J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
alpha-Chlordane*	0.1	2	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-Chlordane*	0.1	2	<.0505	<.0505	<.0505	0.0202J	0.0202J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Aldrin	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Dieldrin	0.0022	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Endosulfan I	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<.0505	<0.025	<0.025	<0.025	<0.025	0.0143 J	<.0505	<0.025	<.0505	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Heptachlor	0.0078	0.4	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
PCBs (EPA 8082)																										
No Detections																										
Organophosphorus Pesticides (EPA 8141A)																										
No Detections																										
Appendix II Inorganics (EPA 6010B/6020A)																										
Antimony	NA	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.516 J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	10	10	<2	<2	<2	<2	<2	<2	5.75	<2	5.76	8.44	9.41	4.84	9.45	12.3	5.37	5.2	5.17	6.67	4.63	3.32	5.92	5.85	1.05 J	3.6
Barium	2000	2000	5.7 J	5.5	<2	6.07	7.22	6.22	8	7	46.8	47.5	50	37.7	63.2	8.3	59.6	47	95.7	65.2	70	85.5	76.3	100	64.2	55
Beryllium	NA	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	44	<4	<4	<4	<4	<4	<4	<4	46.2	<4
Cadmium	5	5	<1	<1	<1	<1	<1	<1	<1	<1	5.8 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	50	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	< 50	<5	<5	<5	<5	<5	<5	<5	< 5
Cobalt	NA	NA	<1	<1	<1	<1	<1	<1	<1	0.13 J	<1	<1	<1	0.586J	<1	<1	<1	0.48	<1	<1	<1	1	<1	<1	<1	0.4
Copper	1000	1000	<1	<1	<1	<1	<1	5.16J	<1	1.2	<1	<1	<1	3.41J	10.8	7.06	6 J	2.3 J	<1	<1	<1	<1	<1	<1	<1	< 1
Lead	15	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.734 J	0.17 J	<1	<1	<1	<1	<1	<1	0.658 J	<1
Nickel	100	730*	<50	<50	<50	4.96	<50	<50	<50	0.35 J	<50	<50	<50	1.74J	<50	<50	16.4	<50	<50	<50	<50	<50	<50	<50	<50	< 50
Selenium	50	50	<2	<2	<2	<2	<2	<2	<2	<2	1.34 J	<2	1.34J	<2	<2	<2	<2	0.27 J	1.63 J	1.52J	1.04J	<2	<2	<2	<2	<2
Silver	18	100*	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Tin	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.0347	<5	<5	<5	<5	<5	<5	<5	0.317	<5
Vanadium	NA	260*	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	8.33	<30	16.2	4.3 J	<30	<30	<30	4.47J	12.0	21	9.1	1.4 J
Zinc	2100	5000	<60	<60	<60	<60	<60	<60	<60	18	<60	<60	<60	5J	73.8	<60	76.5	3.9 J	<60	<60	<60	6.59J	51.6	27J	27.7 J	<60
Other Analyses																										
Sulfide (EPA 376.1)	250,000	250,000	NA	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200
Cyanide (EPA 335.2)	154	200	NA	<20	<20	<20	14 J	<20	<20	<20	NA	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<20	<20	<20	<20	<20
Mercury	1.05	2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nitrate/Nitrite (SM 4500 - NO3-E)	10,000	10,000	NA	60	0.055	0.021J	36 J	43	58	200	NA	91	0.022J	0.058	74	30	<40	180 J	NA	332	<40	0.017J	35 J	<40	35 J	NA

COMPOUNDS (µg/L)	SLMW-9 10/05	SLMW-9 4/06	SLMW-9 11/06	GW-SLMW-9 06/07	GW-SLMW-9 11/07	GW-SLMW-9 11/08	SLMW-9 06/09	SLMW-10 04/05	SLM-DUP1 04/05	SLMW-10 10/05	SLMW-10 4/06	SLMW-10 Dup 4/06	SLMW-10 11/06	SLMW-10 05/07	SLMW-10 Dup 05/07	SLMW-10 11/07	SLMW-10 11/08	SLMW-10 DUP 11/08	SLMW-10 06/09	SLMW-11 04/05	SLMW-11 10/05	SLMW-11 4/06	SLMW-11 11/06	GW-SLMW-11 06/07
VOCs (EPA 8260B)																								
1,1,2,2-tetrachloroethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-dichloroethane	2.04	1.38J	1.39J	<2	3.170	3.11	7.6	1.25 J	1.41 J	1.6J	1.91J	1.85J	1.12J	<2	<2	1.35 J	0.92 J	0.9 J	0.97 J	3.86	2.18	1.68J	2.07	<2
1,2,3-trichloropropane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-trimethylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.43 J	<2	<2	<2	<2	<2	<2
1,2-dibromo-3-chloropropane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dibromoethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dichloroethane	<2	<2	<2	<2	<2	0.24 J	**0.44 J**	<2	<2	<2	**0.58J**	**0.61J**	<2	<2	<2	**0.42 J**	**0.48 J**	<2	<2	<2	<2	<2	<2	<2
1,2-dichloropropane	<2	<2	<2	<2	.23J	<2	<2	**2.12**	**2.28**	**3.32**	**3.97**	**3.72**	**2.93**	<2	<2	**3.78**	**3.27**	**3.09**	**2.2**	**1.3 J**	<2	0.5J	**0.6J**	<2
1,4-dichlorobenzene	0.54J	0.43J	0.4J	<2	.660J	<2	<2	2.75	2.63	3.99	5.6	4.7	3.9	4.1	3.4	5.99	<2	<2	3.4	<2	<2	<2	<2	<2
2-butanone	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.29J	<2
4-isopropyltoluene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	<2	<2	<2	<2	<2	<2	<2	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA	<2	<2	13.9	100
acrolein	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
benzene	**1.09J**	0.71J	0.8J	**2.2**	**1.54 J**	**1.35 J**	**1.9**	**1.8 J**	**1.72 J**	**1.32J**	**1.31J**	**1.24J**	0.96J	<2	<2	**1.38 J**	1.0 J	1.0 J	**1**	**4.58**	**1.54J**	0.83J	0.93J	**2.1**
carbon disulfide	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.54J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chlorobenzene	0.34J	0.25J	0.28J	1.1	0.740 J	0.65 J	0.81 J	0.33 J	0.35 J	0.43J	0.59J	0.50J	0.4J	<2	<2	0.59 J	0.62 J	0.61 J	0.45 J	<2	<2	<2	<2	<2
chloroethane	<2	<2	0.22J	<2	0.530 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.42J	0.56J	0.82J	<2
chloroform	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane (methyl chloride)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.45 J	<2	<2	<2	2.44	<2
cis-1,2-dichloroethene	1.26J	0.88J	0.71J	3.0	1.570 J	1.79 J	2.3	9.33	10	13.4	15.8	15.5	8.96	9.1	8.9	13.6	11.8	11.6	9	9.47	4.56	2.88	1.71J	5.7
dibromochloromethane	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dichlorodifluoromethane	<2	<2	<2	<2	<2	<2	<2	2.96	3.5	2.13	1.5J	1.18J	0.62J	<2	<2	<2	<2	<2	<2	4.85	0.8J	<2	0.68J	<2
diisopropyl ether	<2	<2	<2	<2	<2	<2	<2	0.54 J	0.56 J	1.04J	1.15J	1.22J	0.88J	<2	<2	1.13 J	<2	<2	<2	<2	<2	<2	<2	<2
isopropylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
m&p xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.64 J	<2	<2	0.23J	<2	<2	<2
methylene chloride (dichloromethane)	<2	<2	<2	<2	0.200 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.28 J	<2	<2	<2	<2	<2	<2	<2	<2
MTBE	0.39J	0.22J	<2	<2	<2	0.29 J	<2	0.2 J	0.2 J	0.37J	0.44J	0.42J	0.28J	<2	<2	0.39 J	0.57 J	0.54 J	<2	<2	<2	<2	<2	<2
naphthalene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.95 J	<2	<2	<2	<2	<2	<2
o-xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.33 J	<2	0.34 J	0.26J	<2	<2	<2
sec-butylbenzene	<2	<2	<2	<2	0.230 J	<2	<2	<2	<2	<2	0.28J	0.22J	0.21J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
tetrachloroethene	0.32J	0.29J	0.21J	<2	0.280 J	0.41 J	0.39 J	**0.75 J**	0.45 J	**0.71J**	**0.96J**	**0.74J**	0.55J	<2	<2	0.31 J	0.25 J	0.26 J	<2	**2.64**	0.46J	<2	0.49J	<2
toluene	<2	0.46J	<2	<2	0.200 J	0.33 J	0.35 J	<2	<2	<2	0.35J	0.55J	<2	<2	<2	<2	<2	0.24 J	<2	<2	<2	3.16	<2	<2
trans-1,2-dichloroethene	<2	<2	<2	<2	<2	<2	<2	0.24 J	0.23 J	0.24J	0.29J	0.30J	0.59J	<2	<2	0.28 J	0.21 J	0.22 J	<2	<2	<2	<2	<2	<2
trichloroethene	<2	0.45J	0.43J	0.6 J	0.740 J	0.6 J	0.67 J	0.88 J	1.01 J	1.15J	1.27J	1.29J	0.89J	<2	<2	1.00 J	0.91 J	0.89 J	0.59 J	**3.01**	1.28J	0.59J	0.96J	2.0
trichlorofluoromethane	0.53J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.28J	<2	<2	<2
vinyl chloride	**1.45J**	**0.69J**	**0.73J**	<2	**1.71 J**	**1.41 J**	**2**	**1.91 J**	**3.58**	**2.48**	**2.8**	**2.62**	**1.7**	<2	<2	**2.59 J**	**1.58 J**	**1.72 J**	**1.3**	**3.57**	**0.9J**	**0.78J**	**0.8J**	<2
SVOCs (EPA 8270C)																								
1,4-dichlorobenzene (para)	<10	<10	<10	<10	<10	0.54 J	<10	1.31 J	1.57 J	1.75J	2.79J	2.62J	**2.7J**	**1.94 J**	**1.75 J**	<10	**3.37 J**	**4.25 J**	<10	<10	<10	<10	<10	<10
4-methylphenol (p-cresol)	<10	<10	<10	<10	<10	<10	2.1 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.95 J	<10	<10	<10	<10	<10	<10
benzoic acid	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
benzyl alcohol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
diethylphthalate	<10	<10	<10	2.55 J	1.44 J	<10	0.95 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
di-n-butylphthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	5.02	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4.41	<10	<10
phenol	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**<10**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pesticides (EPA 8081)																								
delta-BHC	<.0505	<.0505	<.0505	<.0505	.015 PJ	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.124	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
beta-BHC	<.0505	<.0505	<.0505	<.0505	<.0505	0.065	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.123	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-BHC	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0496	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
alpha-Chlordane*	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.1**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-Chlordane*	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.11J**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Aldrin	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Dieldrin	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Endosulfan I	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Heptachlor	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.06J**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
PCBs (EPA 8082)																								
No Detections																								
Organophosphorus Pesticides (EPA 8141A)																								
No Detections																								
Appendix II Inorganics (EPA 6010B/6020A)																								
Antimony	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<1**
Arsenic	6.28	**11**	**11.4**	**10.8**	8.98	**13.8**	8.6	1.13 J	1.17 J	<2	1.31J	1.31J	1.88J	3.62	3.75	4.82	2.11	2.34	3.1	10.4	7.5	7.92	2.65	**25.5**
Barium	39	40	49.3	70.4	46.8	49	46	77.9	79.2	76.8	<2	110	123	139	129	118	0.15	0.151	170	28.8	19.1	30	116	50.0
Beryllium	<4	<4	<4	<4	<4	41	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	56.3	56.8	<4	<4	<4	<4	<4	<4
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.50J	<1	0.532 J	0.518 J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	<5	<5	<5	<5	<5	<5	0.62 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.22 J	<5	<5	<5	<5	4.61 J
Cobalt	<1	0.01J	1.25	<1	<1	3.11 J	1	<1	<1	<1	<1	<1	1.45	<1	1.29 J	3 J	5.7	6.1	2	<1	<1	0.01J	2.13	1.02 J
Copper	<1	0.01J	13.8	5.59 J	<5	<1	0.76 J	<1	<1	<1	<1	<1	<1	6.64 J	5.65 J	<1	<1	<1	0.39 J	<1	<1	0.01J	<1	9.94 J
Lead	<1	0.66J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.14 J	<1	<1	1.22	<1	<1
Nickel	<50	<50	<50	<50	<50	<50	0.87	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	0.59 J	<50	<50	<50	1.41J	<50
Selenium	1.83J	1.32J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.04J	<2	<2	<2	<2	<2	0.25 J	<2	<2	1.39J	1.12J	<2
Silver	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Tin	<5	<5	<5	<5	<5	0.0139 J	0.45 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.0116 J	<5	<5	<5	<5	<5	<5
Vanadium	<30	<30	<30	3.07 J	7.1	25	<30	<30	<30	<30	<30	<30	<30	3.77 J	4.23	9	39.4	39	1.9 J	<30	<30	<30	<30	5.32
Zinc	<60	<60	5.56J	56.6	25.6	<60	22	<60	<60	<60	<60	<60	<60	62.4	62.8	41 J	<60	<60	28	<60	<60	0.02J	<60	39.7
Other Analyses																								
Sulfide (EPA 376.1)	<200	<200	<200	<200	<200	<200	<200	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200
Cyanide (EPA 335.2)	<20	<20	<20	<20	<20	<20	<20	NA	NA	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<20	14 J
Mercury	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nitrate/Nitrite (SM 4500 - NO3-E)	<40	0.01J	0.015J	29 J	32	<40	<40	NA	NA	19	0.038J	0.038J	<40	38 J	49	86	84	65	NA	NA	51	0.018J	0.060	33 J

Note: NA -- Not Available; NS -- Not Sampled; U -- Target analytes were not detected above the reporting limits; J -- Analyte was present but concentration is an estimated value. **Bold**--Concentration exceeds NC 2L Std. * No MCL, used PRG. #Used total values. **Used values for Chlordane.

											Longstreet																																												
COMPOUNDS (µg/L)	Groundwater NC 2L Standard (ug/l)	EPA Drinking water MCL (ug/l)	GW-SLMW-11 11/07	GW-SLMW-11R 11/08	SLMW-11R 06-09	SLMW-12A 04/05	SLMW-12B 04/05	SLMW-12AR 04/05	SLMW-12AR 10/05	SLMW-12AR Dup 10/05	SLMW-12AR 4/06	SLMW-12AR 11/06	SLMW-12AR 05/07	SLMW-12AR 11/07	SLMW-12AR-DUP 11/07	SLMW-12AR11/08	SLMW-12AR 06/09	SLMW-12BR 04/05	SLMW-12BR Dup 04/05	SLMW-12BR 10/05	SLMW-12BR 4/06	SLMW-12BR 11/06	SLMW-12BR 05/07	SLMW-12BR 11/07	SLMW-12BR 11/08	SLMW-12BR 06/09	SLMW-13 04/05	SLMW-13 10/05	SLMW-13 4/06	SLMW-13 11/06	GW-SLMW-13 06/07	GW-SLMW-13 11/07	GW-SLMW-13 11/08	SLMW-13 06/09	SW-1 04/05	SW-1 10/05	SW-1 4/06	SW-1 11/06	SW-1 06/07	SW-1 11/07	SW-1 11/08	SW-1 06/09	SW-2 04/05	SW-2 10/05	SW-2 4/06	SW-2 11/06	SW-2 06/07	SW-2 11/07	SW-2 11/08	SW-2 06/09	GW-Blank 11/06	GW-Blank 05/07	GW-Blank 06/07	GW-Blank 11/07	GW-Blank 11/08
VOCs (EPA 8260B)																																																							
1,1,2,2-tetrachloroethane	0.17	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-dichloroethane	700	810*	4.05	0.56 J	2.9	<2	4.25	<2	1.21J	1.22J	1.39J	0.83J	<2	1.15 J	1.0 J	0.62 J	<2	1.41J	1.39J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	7.64	7.8	3.93	7.7	7.36	7.73	10	<2	<2	<2	<2	<2	0.20 J	0.31 J	<2	<2	<2	<2	<2	<2
1,2,3-trichloropropane	0.005	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-trimethylbenzene	350	15 *	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dibromo-3-chloropropane	0.025	0.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dibromoethane	0.0004	0.05	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dichloroethane	0.38	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.41J	<2	<2	<2	<2	0.34 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-dichloropropane	0.56	5	**.950 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.23 J	<2	<2	0.42J	0.45J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.44 J	0.058 J	0.44 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,4-dichlorobenzene	75	75	0.300 J	<2	0.48 J	<2	1.11 J	<2	1.05J	0.94J	1.14J	0.84J	<2	0.78 J	0.67 J	0.49 J	<2	1.07J	1.15J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.76J	0.96J	0.51J	<2	0.71 J	<2	0.62 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-butanone	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.78J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4-isopropyltoluene	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.21 J	<2	<2	<2	<2	<2	<2
acetone	700	NA	100	<2	<2	NA	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	NA	NA	<2	<2	<2	<2	<2	<2	<2	NA	<2	<2	<2	<2	<2	<2	<2	NA	<2	<2	<2	<2	<2	<2	<2	NA	3.5	<2	<2	<2	4.29 J	<2	<2	8.6 J	<2	<2	<2	8.6 J
acrolein	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.59J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
benzene	1	5	**1.30 J**	<2	0.59 J	<2	<2	<2	**1.03J**	0.95J	**1.04J**	0.76J	<2	0.84 J	0.72 J	0.53 J	<2	**1.11J**	**1.15J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**1.59J**	**1.72J**	0.87J	**1.6**	**1.45 J**	**1.88 J**	**1.7**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	700	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.28J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chlorobenzene	50	100	<2	<2	<2	<2	1.01 J	<2	0.57J	0.53J	0.62J	0.53J	<2	0.56 J	0.51 J	0.4 J	<2	0.58J	0.6J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.35J	0.37J	<2	<2	0.22 J	0.42 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	2800	4.6*	.200 J	<2	<2	<2	0.4 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.51J	0.52J	0.23J	<2	0.38 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	70	80	<2	0.22 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.43 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane (methyl chloride)	2.6	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.05	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.51J	0.52J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-dichloroethene	70	70	3.24	<2	1.3	<2	10.7	<2	2.9	2.58	3.19	1.09J	<2	1.22 J	1.08 J	0.83 J	<2	3.79	4.02	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.02	5.01	1.79J	6.1	4.73	5.24	4.8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	0.41	80	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dichlorodifluoromethane	1400	390*	0.410 J	1.64 J	1.3	<2	3.73	<2	5.11	5.15	4.41	3.61	<2	1.81 J	1.78 J	<2	<2	10.2	11.6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	10.4	7.07	5.78	8.4	5.77	5.1	4.2	<2	<2	<2	<2	<2	<2	0.23 J	<2	<2	<2	<2	<2	<2
diisopropyl ether	70	NA	.0280 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
isopropylbenzene	70	660*	<2	<2	<2	<2	0.5 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.2J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
m&p xylene	530#	10000#	0.510 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
methylene chloride (dichloromethane)	4.6	5	0.230 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.21 J	0.27 J	<2	<2	<2	<2	<2	<2	<2	<2	0.25 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.30 J	<2	<2	<2	<2	<2	<2	<2	0.22 J	<2	<2	<2	<2	<2	<2	<2
MTBE	200	13*	<2	<2	<2	<2	<2	<2	0.32J	0.35J	0.31J	<2	<2	0.22 J	0.21 J	<2	<2	0.36J	0.38J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.2J	0.86J	<2	<2	0.56 J	0.66 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
naphthalene	21	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-xylene	530#	10000#	0.470 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
sec-butylbenzene	70	NA	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.20 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
tetrachloroethene	0.7	5	0.380J	0.4 J	**2.3**	<2	0.42 J	<2	0.32J	0.3J	0.35J	<2	<2	<2	<2	<2	<2	0.4J	0.38J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**1.41J**	**1.36J**	**0.77J**	<2	**0.88 J**	**1.32 J**	**1.1**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
toluene	1000	1000	0.550 J	<2	<2	<2	<2	<2	<2	<2	0.37J	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.24J	<2	<2	<2	<2	<2	<2	<2	1.15J	<2	<2	<2	<2	<2	<2	<2	0.42J	<2	<2	<2	<2	<2	<2	<2	1.62J	<2	<2	<2	<2	<2	0.22J	<2	<2	<2	<2
trans-1,2-dichloroethene	70	100	<2	<2	<2	<2	0.22 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.27J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trichloroethene	2.8	5	1.01 J	0.29 J	1.5	<2	2.14	<2	0.64J	0.52J	0.55J	0.35J	<2	0.45 J	0.37 J	0.23 J	<2	0.71J	0.68J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.36	2.21	1.12J	<2	2.14	2.3	1.9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trichlorofluoromethane	2100	1300*	<2	0.2 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0.59J	0.54J	<2	<2	0.30 J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	0.015	2	**0.48 J**	<2	<2	<2	**5.41**	<2	**2.08**	**1.82J**	**2.44**	**1.17**	<2	**0.97 J**	**0.77 J**	**0.52 J**	<2	**3.25**	**3.5**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**2.78**	**3.52**	**1.89J**	<2	**3.24**	**2.98**	**2.8**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SVOCs (EPA 8270C)																																																							
1,4-dichlorobenzene (para)	1.4	75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.98J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.91 J	<10	<10	<10	<10	<10	**1.87 J**	<10	<10	<10	<10	<10	<10	<10	<10
4-methylphenol (p-cresol)	3.5	180*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**13.1**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
benzoic acid	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
benzyl alcohol	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	6.48 J
diethylphthalate	5000	29000*	<10	<10	<10	<10	3.49 J	<10	1.51J	1.23J	<10	1.15J	1.28 J	<10	<10	<10	<10	1.46J	2.2J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2.81J	3.19J	2.02J	2.51 J	1.79 J	1.98	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
di-n-butylphthalate	700	3600*	<10	<10	<10	<10	<10	1.06J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	2.5	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.35J	<10	<10	<10	<10	<10	<10	1.44 J	<10	<10
phenol	300	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pesticides (EPA 8081)																																																							
delta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
beta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.042	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.03	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-BHC	0.2	0.2	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
alpha-Chlordane*	0.1	2	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0306J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-Chlordane*	0.1	2	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0255J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0354J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Aldrin	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.095	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0918	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.0306J	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.131	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Dieldrin	0.0022	NA	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.0505J**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.0306J**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505
Endosulfan I	NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Heptachlor	0.0078	0.4	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	0.125	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.0255J**	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	<.0505	**0.0101J**	<.0505	<.0505	<.0505	<.0505
PCBs (EPA 8082)																																																							
No Detections																																																							
Organophosphorus Pesticides (EPA 8141A)																																																							
No Detections																																																							
Appendix II Inorganics (EPA 6010B/6020A)																																																							
Antimony	NA	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	10	10	4.87	<2	<2	<2	1.95 J	<2	2.02	1.61J	<2	1.05J	1.05 J	<2	<2	<2	0.42 J	1.26J	1.61J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.11 J	<2	<2	<2	<2	2.37	3.89	5.69	**14.0**	**27.7**	**14.4**	6.6	<2	1.09J	1.08J	<2	1.18 J	1.85 J	5.79	0.53 J	<2	<2	<2	<2	<2
Barium	2000	2000	33.7	10.5	11 J	36	40.1	43.4	27.7	27.7	30	33.2	34.1	42.0	41.0	44.8	38	27.2	28.4	35	30	34.5	41.5	41	43.2	42	8.7 J	<2	5	5.43	10.9	7	8.3	9	10.2	31.7	20	22	35.0	21	28	26	10.3	15.6	10	11.6	9.3	20	22	23	<2	<2	<2	<2	<2
Beryllium	NA	4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.13 J	<4	<4	<4	<4	<4	<4	<4	<4	0.36	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	19	<4	<4	<4	<4	<4	<4	<4	<4	0.36 J	<4	<4	<4	<4	<4
Cadmium	5	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.774J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	50	100	<5	<5	< 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	< 5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.17 J	<5	<5	<5	<5	<5	<5	<5	0.16 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	NA	NA	<1	<1	0.25	<1	<1	<1	<1	<1	<1	0.698J	<1	<1	<1	<1	< 1	<1	<1	<1	<1	1.46	<1	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	0.11 J	<1	<1	<1	<1	<1	<1	<1	0.19 J	<1	<1	<1	<1	<1	<1	<1	0.26	<1	<1	<1	<1	<1
Copper	1000	1000	8.4	<1	< 1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	< 1	<1	<1	<1	<1	<1	<1	6 JB	<1	< 1	<1	<1	<1	<1	<1	<1	<1	0.50 J	<1	<1	<1	<1	<1	7.68 J	<1	0.39 J	<1	<1	<1	<1	<1	5.4	<1	0.51 J	<1	<1	<1	<1	<1
Lead	15	15	<1	0.636 J	<1	<1	<1	0.611	<1	<1	0.50J	<1	0.819 J	<1	<1	0.738 J	0.34	<1	<1	0.623J	0.50J	<1	<1	<1	2.72	0.17 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.08	<1	<1	1.85	<1	<1	0.12 J	<1	<1	2.36	0.56J	<1	<1	<1	0.19 J	<1	<1	<1	<1	0.631 J
Nickel	100	730*	<50	<50	< 50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	< 50	<50	<50	<50	<50	2.29	<50	4 J	<50	2.2 J	<50	<50	<50	1.27J	<50	<50	<50	0.36 J	<50	22.9J	<50	<50	<50	<50	<50	0.54 J	<50	<50	<50	<50	<50	<50	<50	0.6	<50	<50	<50	<50	<50
Selenium	50	50	<2	<2	<2	<2	1.89 J	<2	1.54J	2.24	<2	<2	<2	<2	<2	<2	<2	1.48J	1.46J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	1.07J	1.16J	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Silver	18	100*	<30	5.7 J	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	10.1J	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Tin	NA	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vanadium	NA	260*	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	10.1J	<30	<30	13.1	11	11	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc	2100	5000	<60	<60	46	<60	<60	21.4	<60	<60	<60	<60	12.6 J	<60	<60	<60	4.5 J	99.7	<60	<60	<60	6.33J	<60	<60	<60	8.3 J	<60	<60	<60	10.3	<60	<60	<60	14	<60	55.3J	<60	5.73J	117	42 J	<60	20	37.1 J	<60	0.02J	34.5	24.5 J	<60	<60	12	<60	<60	<60	<60	<60
Other Analyses																																																							
Sulfide (EPA 376.1)	250,000	250,000	<200	<200	<200	NA	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	NA	NA	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Cyanide (EPA 335.2)	154	200	<20	<20	<20	NA	NA	NA	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	NA	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<20	18 J	<20	<20	<20	NA	<20	<20	<20	18 J	<20	<20	<20	<20	<20	<20	<20	<20
Mercury	1.05	2	<0.20	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.12 J	<20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nitrate/Nitrite (SM 4500 - NO3-E)	10,000	10,000	45	130	270 J	NA	NA	NA	25J	<40	0.033J	0.276	217	398	336	244	240 J	NA	NA	48	0.033J	0.022J	20 J	52	146	150 J	NA	36J	0.068	0.094	140	387	151	420	NA	78	0.058J	0.03J	11 J	<40	541	NA	NA	<40	0.331J	0.492	68	<40	<40	880	0.031J	<40	<40	<40	67

COMPOUNDS (µg/L)	Groundwater NC 2L Standard (ug/l)	EPA Drinking water MCL (ug/l)	Trip Blank 11/06	Trip Blank 05/07	Trip Blank 06/07	Trip Blank 11/07	Trip Blank 11/08
VOCs (EPA 8260B)							
1,1,2,2-tetrachloroethane	0.17	NA	<2	<2	<2	<2	<2
1,1-dichloroethane	700	810*	<2	<2	<2	<2	<2
1,2,3-trichloropropane	0.005	NA	<2	<2	<2	<2	<2
1,2,4-trimethylbenzene	350	15 *	<2	<2	<2	<2	<2
1,2-dibromo-3-chloropropane	0.025	0.2	<2	<2	<2	<2	<2
1,2-dibromoethane	0.0004	0.05	<2	<2	<2	<2	<2
1,2-dichloroethane	0.38	5	<2	<2	<2	<2	<2
1,2-dichloropropane	0.56	5	<2	<2	<2	<2	<2
1,4-dichlorobenzene	75	75	<2	<2	<2	<2	<2
2-butanone	NA	NA	<2	<2	<2	<2	<2
4-isopropyltoluene	NA	NA	<2	<2	<2	<2	<2
acetone	700	NA	2.23	<2	<2	<2	<2
acrolein	NA	NA	<2	<2	<2	<2	<2
benzene	1	5	<2	<2	<2	<2	<2
carbon disulfide	700	NA	<2	<2	<2	<2	<2
chlorobenzene	50	100	<2	<2	<2	<2	<2
chloroethane	2800	4.6*	<2	<2	<2	<2	<2
chloroform	70	80	<2	<2	<2	<2	<2
chloromethane (methyl chloride)	2.6	NA	<2	<2	<2	<2	<2
cis-1,2-dichloroethene	70	70	<2	<2	<2	<2	<2
dibromochloromethane	0.41	80	<2	<2	<2	<2	<2
dichlorodifluoromethane	1400	390*	<2	<2	<2	<2	<2
diisopropyl ether	70	NA	<2	<2	<2	<2	<2
isopropylbenzene	70	660*	<2	<2	<2	<2	<2
m&p xylene	530#	10000#	<2	<2	<2	<2	<2
methylene chloride (dichloromethane)	4.6	5	<2	<2	<2	0.23 J	<2
MTBE	200	13*	<2	<2	<2	<2	<2
naphthalene	21	NA	<2	<2	<2	<2	<2
o-xylene	530#	10000#	<2	<2	<2	<2	<2
sec-butylbenzene	70	NA	<2	<2	<2	<2	<2
tetrachloroethene	0.7	5	<2	<2	<2	<2	<2
toluene	1000	1000	<2	<2	<2	<2	<2
trans-1,2-dichloroethene	70	100	<2	<2	<2	<2	<2
trichloroethene	2.8	5	<2	<2	<2	<2	<2
trichlorofluoromethane	2100	1300*	<2	<2	<2	<2	<2
vinyl chloride	0.015	2	<2	<2	<2	<2	<2
SVOCs (EPA 8270C)							
1,4-dichlorobenzene (para)	1.4	75	<10	<10	<10	<10	<10
4-methylphenol (p-cresol)	3.5	180*	<10	<10	<10	<10	<10
benzoic acid	NA	NA	<10	<10	<10	<10	<10
benzyl alcohol	NA	NA	<10	<10	<10	<10	<10
diethylphthalate	5000	29000*	<10	<10	<10	<10	<10
di-n-butylphthalate	700	3600*	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	2.5	6	<10	<10	<10	<10	<10
phenol	300	NA	<10	<10	<10	<10	<10
Pesticides (EPA 8081)							
delta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505
beta-BHC	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-BHC	0.2	0.2	<.0505	<.0505	<.0505	<.0505	<.0505
alpha-Chlordane*	0.1	2	<.0505	<.0505	<.0505	<.0505	<.0505
gamma-Chlordane*	0.1	2	<.0505	<.0505	<.0505	<.0505	<.0505
Aldrin	NA	NA	<.0505	<.0505	<.0505	<.0505	<.0505
Dieldrin	0.0022	NA	<.0505	<.0505	<.0505	<.0505	<.0505
Endosulfan I	NA	NA	<0.025	<0.025	<0.025	<0.025	<.0505
Heptachlor	0.0078	0.4	<.0505	<.0505	<.0505	<.0505	<.0505
PCBs (EPA 8082)							
No Detections							
Organophosphorus Pesticides (EPA 8141A)							
No Detections							
Appendix II Inorganics (EPA 6010B/6020A)							
Antimony	NA	6	<1	<1	<1	<1	<1
Arsenic	10	10	<2	<2	<2	<2	<2
Barium	2000	2000	<2	113	<2	<2	<10
Beryllium	NA	4	<4	<4	<4	<4	<4
Cadmium	5	5	<1	<1	<1	<1	<1
Chromium	50	100	<5	<5	<5	<5	<20
Cobalt	NA	NA	<1	<1	<1	<1	<2
Copper	1000	1000	<1	<1	<1	5.04 J	<20
Lead	15	15	<1	<1	<1	<1	<1
Nickel	100	730*	<50	<50	<50	<50	<50
Selenium	50	50	<2	<2	<2	<2	<2
Silver	18	100*	<30	<30	<30	<30	<30
Tin	NA	NA	<5	<5	<5	<5	<5
Vanadium	NA	260*	<30	<30	<30	<30	<20
Zinc	2100	5000	<60	<60	<60	<60	<60
Other Analyses							
Sulfide (EPA 376.1)	250,000	250,000	<200	<200	<200	<200	<200
Cyanide (EPA 335.2)	154	200	<20	39	<20	<20	<20
Mercury	1.05	2	<0.20	<0.20	<0.20	<0.20	<20
Nitrate/Nitrite (SM 4500 - NO3-E)	10,000	10,000	<40	69	<40	<40	139

APPENDICES

APPENDIX A

GROUNDWATER SAMPLING LOGS

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/16/09 TIME: 1315
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-6-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): N/A (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): N/A (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = N/A (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 21 (minutes) Purge time: 1254
Amount Purged= 2.8 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1254	1259	1302	1305	1308	
pH	4.77	4.67	4.60	4.59	4.53	
Sp. Cond	0.016	0.016	0.016	0.016	0.016	
Temp. °C	18.11	18.05	18	17.87	17.96	
Turbidity	102	9.2	3.8	3.2	2.5	
DO	8.51	7.29	7.00	6.82	6.79	
ORP	306	332	342	347	352	

5. COMMENTS: None

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/14/09 TIME: 1255
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-7-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☒ Peristaltic Pump
☐ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. **WATER LEVEL DATA**
MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. **WELL EVACUATION DATA**
Well Depth (wd): 25.00 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 20.59 (ft) Diameter (d): 0.167 (ft)
Well Volume = $(5.904 \times d^2 (wd\text{-}dw))$ = 0.7 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 18 (minutes) Purge time: 1500
Amount Purged= 2.4 (gallons)

4. **FIELD PARAMETERS**

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1500	1503	1506	1509	1512	1515	1518
pH	5.89	5.94	5.96	5.94	5.95	5.92	5.95
Sp. Cond	0.298	0.308	0.311	0.288	0.266	0.259	0.265
Temp. °C	20.64	20.36	20.35	20.08	19.94	19.98	20.08
Turbidity	6.0	5.5	5.4	5.9	4.4	4.1	4.1
DO	1.64	3.72	2.96	2.96	3.97	4.71	4.19
ORP	-68	-71	-72	-66	-57	-55	-60

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/14/09 TIME: 1215

SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-8-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☒ Peristaltic Pump
☐ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 25.00 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 23.03 (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = 0.3 (gallons)
Flow Rate : 200 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 20 (minutes) Purge time: 1420
Amount Purged= 1.1 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1420	1428	1431	1435	1440	
pH	6.06	6.07	6.07	6.10	6.10	
Sp. Cond	0.631	0.583	0.518	0.523	0.547	
Temp. °C	24.62	21.64	22	21.91	21.62	
Turbidity	12.2	8.2	8.7	7.1	2.3	
DO	5.30	4.57	5.38	5.06	5.35	
ORP	-91	-82	-83	-93	-96	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/16/09 TIME: 0825
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-9-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 45.00 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 37.30 (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = 1.3 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 37 (minutes) Purge time: 748
Amount Purged= 4.9 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	748	811	814	817	820	
pH	6.22	6.19	6.19	6.18	6.18	
Sp. Cond	0.534	0.553	0.557	0.565	0.564	
Temp. °C	19.21	19.53	19.95	20.20	20.26	
Turbidity	> 999	10	9	6.4	5.3	
DO	0	0	0	0	0	
ORP	-134	-129	-122	-125	-115	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/16/09 TIME: 1415
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-10-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice

ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☒ YES ☐ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 25.00 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 19.59 (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = 0.9 (gallons)
Flow Rate : 200 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 13 (minutes) Purge time: 1402
Amount Purged= 0.7 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1402	1405	1408	1411		
pH	6.02	6.03	6.05	6.05		
Sp. Cond	0.650	0.648	0.648	0.656		
Temp. °C	19.35	19.22	19.20	19.17		
Turbidity	9.8	9.5	9.3	4.7		
DO	0.45	0.17	0.05	0.04		
ORP	-85	-87	-92	-95		

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/15/09 TIME: 1540
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-11R-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate

OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 82.20 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 77.62 (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = 0.8 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 31 (minutes) Purge time: 1509
Amount Purged= 4.1 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1509	1527	1530	1533	1536	
pH	4.53	4.38	4.33	4.33	4.31	
Sp. Cond	0.048	0.029	0.028	0.028	0.028	
Temp. °C	20.77	19.81	19.95	19.91	19.72	
Turbidity	576	3.6	5.9	1.1	1.2	
DO	6.02	2.45	2.35	2.30	2.26	
ORP	215	242	248	257	258	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/14/09 TIME: 0910
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-12AR-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13

SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐ YES ☒ NO DUPLICATE SAMPLE: ☐ YES ☒ NO

2. WATER LEVEL DATA

MEASURING POINT: ☒ Top of casing ☐ Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 20.12 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 9.03 (ft) Diameter (d): 0.167 (ft)
Well Volume = ($5.904 \times d^2$ (wd-dw)) = 1.8 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 52 (minutes) Purge time: 1548
Amount Purged= 6.9 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1548	1631	1634	1637	1640	
pH	4.69	5.21	5.29	5.32	5.34	
Sp. Cond	0.047	0.074	0.075	0.076	0.078	
Temp. °C	21.68	22.37	21.80	21.49	21.50	
Turbidity	> 999	9.2	9.4	8.5	7.6	
DO	5.08	3.22	3.24	3.38	3.41	
ORP	303	148	140	136	134	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/14/09 TIME: 0800
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-12BR-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO

SAMPLES FILTERED: ☐YES ☒NO DUPLICATE SAMPLE: ☐YES ☒NO

2. **WATER LEVEL DATA**

MEASURING POINT: ☒Top of casing ☐Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. **WELL EVACUATION DATA**

Well Depth (wd): 65.00 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 9.23 (ft) Diameter (d): 0.167 (ft)
Well Volume = (5.904 × d^2 (wd-dw)) = 9.1 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 13 (minutes) Purge time: 747
Amount Purged= 1.7 (gallons)

4. **FIELD PARAMETERS**

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1648	1652	1655	1658	1701	
pH	5.19	4.98	4.90	4.90	4.89	
Sp. Cond	0.071	0.071	0.071	0.070	0.071	
Temp. °C	20.95	21.14	21.14	21.19	21.34	
Turbidity	5.9	6.2	5.4	5.2	7.2	
DO	5.39	5.39	6.21	6.92	7.23	
ORP	248	276	290	295	300	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/16/09 TIME: 1045
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: GW-SLMW-13-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☒ YES ☐ NO
SAMPLES FILTERED: ☐YES ☒NO DUPLICATE SAMPLE: ☐YES ☒NO

2. **WATER LEVEL DATA**

MEASURING POINT: ☒Top of casing ☐Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. WELL EVACUATION DATA

Well Depth (wd): 59.48 (ft) Diameter (d): 2.00 (in)
Depth to Water (dw): 51.90 (ft) Diameter (d): 0.167 (ft)
Well Volume = (5.904 × d^2 (wd-dw)) = 1.2 (gallons)
Flow Rate : 500 (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: 23 (minutes) Purge time: 1022
Amount Purged= 3.0 (gallons)

4. FIELD PARAMETERS

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1022	1034	1037	1040	1043	
pH	4.94	4.49	4.49	4.44	4.44	
Sp. Cond	0.018	0.017	0.017	0.017	0.017	
Temp. °C	18.49	18.02	17.98	17.91	17.96	
Turbidity	42.3	8.5	7.3	5.6	7.3	
DO	9.85	8.08	8.17	8.14	8.08	
ORP	254	327	337	345	346	

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/16/09 TIME: 1530
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: SW-1-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☐ YES ☒ NO
SAMPLES FILTERED: ☐YES ☒NO DUPLICATE SAMPLE: ☐YES ☐NO

2. WATER LEVEL DATA

MEASURING POINT: ☒Top of casing ☐Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. **WELL EVACUATION DATA**

Well Depth (wd): N/A (ft) Diameter (d): N/A (in)
Depth to Water (dw): N/A (ft) Diameter (d): N/A (ft)
Well Volume = (5.904 × d^2 (wd-dw)) = N/A (gallons)
Flow Rate : N/A (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: N/A (minutes) Purge time: N/A
Amount Purged= N/A (gallons)

4. **FIELD PARAMETERS**

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1530					
pH	5.99					
Sp. Cond	0.243					
Temp. °C	21.18					
Turbidity	28.7					
DO	4.49					
ORP	-41					

5. COMMENTS:

	U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT GEOLOGY and HYDROGEOLOGY	GROUND WATER FIELD DATA LOG

1. CLIENT: Ft Bragg, NC
DATE: 06/19/09 TIME: 1500
SAMPLED BY: Kevin Haborak
WEATHER CONDITIONS:

Location: Longstreet Landfill	**Sample ID: SW-2-06-09**

PRESERVATIVE: HCl, HNO_3, H_2SO_4, NaOH, NaOH/ZnAc, Ice
ANALYSES REQUESTED: SVOC 8270, Pesticide 8081, PCB 8082, Organophosphorus 8141, VOC 8260, App II Metals, Cyanide, Sulfide, Nitrate
OF CONTAINERS:13
SAMPLING METHOD: ☐ Peristaltic Pump
☒ Bladder Pump LOW FLOW: ☐ YES ☒ NO
SAMPLES FILTERED: ☐YES ☒NO DUPLICATE SAMPLE: ☒YES ☐NO

2. **WATER LEVEL DATA**

MEASURING POINT: ☒Top of casing ☐Other:
METHOD OF MEASUREMENT: Water Level Indicator

3. **WELL EVACUATION DATA**

Well Depth (wd): N/A (ft) Diameter (d): N/A (in)
Depth to Water (dw): N/A (ft) Diameter (d): N/A (ft)
Well Volume = (5.904 × d^2 (wd-dw)) = N/A (gallons)
Flow Rate : N/A (ml/min) Purge vol: N/A (gallons)
Length of Time Purged: N/A (minutes) Purge time: N/A
Amount Purged= N/A (gallons)

4. **FIELD PARAMETERS**

INSTRUMENT	CALIBRATED
pH Meter –Horiba U-22	☒
Conductivity Meter - Horiba U-22	☒
Temperature – Horiba U-22	☒
Turbidity Meter – Hach 2100 P	☒
DO Meter – Horiba U-22	☒
ORP Meter – Horiba U-22	☒
CO_2– Hach Digital Titrator	☐

Time	1500					
pH	6.23					
Sp. Cond	0.108					
Temp. °C	21.56					
Turbidity	76.6					
DO	6.40					
ORP	28					

5. COMMENTS:

APPENDIX B

DATA VALIDATION REPORTS

Subject: Chemical Data Quality Assessment for Ft. Bragg, North Carolina, Longstreet Landfill June 2009 Groundwater Sampling

Introduction
The data for these samples were evaluated using guidelines established in the Environmental Protection Agency's National Functional Guidelines for Data Review and the Environmental Quality-Chemical Quality Assurance for Hazardous, Toxic and Radioactive Waste (HTRW) Projects (EM-200-1-6). *Test America (Savannah) performed the analysis and provided an analytical report. The job number is: 680-48180-1*

Sampling Procedures
The samples were received by the lab on June 16, 2009 in good condition. All holding times and extraction times were met for the samples. The samples were delivered at a temperature below four degress Celcius (^{o}C) and no problems were noted by TA for the pH of the samples. No non-conformances were noted for the COC.

No qualifications are necessary.

Analytical Procedures
The Delivery Order and the COC specify the analytical methods used by the Laboratory. The samples were analyzed for Appendix I metals by SW846 6020/3030C, Appendix II volatile organic compounds (VOCs) by SW846 8260B/5030B, Appendix II semi-volatile organic compounds (SVOCs) by SW846 8270CB/3520C, Appendix II organophosphorous pesticides (OPs) by SW846 8081A/3520C, polychlorinated biphenyls (PCBs) by SW846 8082/3520C, Appendix II herbicides (Herb) by SW846 8151, mercury (Hg) by SW846 7470A, and Appendix II inorganics (nitrate, sulfide, and cyanide) by various methods.

Inorganics

Holding Times
Holding Times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. When the holding time is exceeded, there is generally a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

Data Review Results
The holding and extraction times times were met for all samples for each of the inorganics methods.

No qualifications are necessary.

Method Blanks
Method Blanks are analyzed and evaluated with samples to determine the existence and magnitude of possible laboratory created contamination. If blank contamination is found, samples need to be closely examined for the same contaminants. If the contaminants are

not detected in the samples, then there is little need for concern. The following approach is used when the blank contaminant is also reported in the sample:

- If the sample result is at least ten times that in the blank, then the likely contribution to the sample from the laboratory environment is at most 10% and the possible contamination is negligible.

- If the sample result is at least five times but less than ten times the blank result, the compound is probably present in the samples, but the numerical result should be considered an upper limit of the true concentration.

- If the sample result is below five times the level in the blank, there is no adequate means by which to judge whether the sample result is attributable to laboratory contamination. When this occurs, the sample data is qualified as being the result of laboratory contamination.

Data Review Results
The method blank for metals contained detections for copper (Cu) and nickel (Ni) that were above the MDL but below the RL, as such these detections were flagged as estimated. The concentration of Cu detected is 0.22 μg/L and the MDL is 0.20 μg/L; concentration of Ni detected is 0.25 μg/L and the MDL is 0.20 μg/L.

The positive results for Cu and Ni in the associated samples which are less than five times the value observed in the blank should be flagged U. The concentrations of Cu and Ni in the associated samples that were greater than five times but less than ten times the value observed in the blank should be flagged J.

Equipment Blanks
The purpose of Equipment Blanks is to monitor the effectiveness of the cleaning procedure used for the decontamination of sampling equipment in the field and the possibility of contamination at one site being carried over to another sampling site. When disposable-sampling equipment is used, Equipment Blanks serve to monitor the cleanliness of these items. Equipment Blanks are collected at a rate of 5% per samples collected.

The proper way to prepare an effective Equipment Blank is to take a quantity of analyte-free water to the sampling site, rinse the equipment with the analyte-free water directly into the sample container, add preservatives, and then treat as a regular sample. At least one Equipment Blank should be prepared for each type of analyte group collected with each item of equipment.

Data Review Results

One rinsate blanks was submitted with the samples. Tentative detections (above the MDL but below the RL) were reported for chromium (Cr), Cu, Ni, and tin (Sn), a positive detection was reported for barium (Ba).

Tin was only detected in the blank. Detections of the other analytes in the associated samples that are less than five times the value observed in the blank should be flagged as U. Detections that are greater than five times but less than ten times the blank concentration should be flagged J.

Field Duplicate Sample Analysis

Duplicate samples are analyzed to evaluate the overall precision for both the field and the laboratory. Precision is the measure of the Relative Percent Difference (RPD) between the analytical results for duplicate samples. It is expected that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical soil field duplicate samples. The RPD control limit for soil samples for this project was set at less than 50% for results that were five times the reporting limit. For aqueous duplicates, if the sample results are greater than five times the reporting limit, the acceptance criteria for the RPD is 20% or less. If the sample results are less than five times the reporting limit, the duplicate acceptance is evaluated on the sample results rather than the RPD. There are no guidelines for data qualification based on poor field duplicate precision. Professional judgment was used to determine whether to qualify the data. Field duplicate samples are collected at a rate of 10% per samples collected and are sent to the laboratory as blind duplicates.

Data Review Results

Table 1: Comparison of Field Duplicates for Metals Analyses

Field Duplicate Pair	Parameter	Original Result ppb	Duplicate Result ppb	RPD	RPD Limits
SLMW-12AR-06-09	Arsenic	0.42 J	0.42 J	NA	<20%
SLMW-DUP-1	Barium	38	39	3%	<20%
	Beryllium	0.13 J	0.11 J	NA	<20%
	Chromium	0.30 J	0.39 J	NA	<20%
	Cobalt	0.69	0.72	NA	<20%
	Copper	0.37 J	0.79 J	NA	<20%
	Lead	0.34	0.35	NA	<20%
	Nickel	1.1	1.0	NA	<20%
	Zinc	4.5 J	< 10	NA	<20%
	Nitrate	0.24 J	0.26 J	NA	<20%

Notes:

NA = The analyte was not detected at a level that was at least five times the reporting limits in at least one of the replicate samples.

J = Detected at estimated levels.

Ten analytes were identified in at least one of the replicate samples. Only one analyte, barium, was positively identified in the in the replicates samples at a level that was greater than five times the reporting limit. The RPD for this analyte was within established guidelines.

No qualifications are necessary.

Matrix Spike Sample Analysis

The purpose of Matrix Spike analysis is to provide information about the effects that the sample matrix exerts on the digestion and the analytical methodology. The potential sample bias may be estimated by noting the degree to which the MS concentration was lowered or elevated in the spike analysis. However, this bias should serve only as an approximation since sample specific problems may be the cause of the discrepancy, especially in soil samples. The control limits for Matrix Spike recoveries for TAL metals have been established at 75-125% recovery. The RPD for Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs established by the laboratory is less than 20%. When recoveries are below 30%, the reported results are qualified as biased low (L) and the reporting limits are rejected (R). When the spike recoveries fall between 30-75%, the reported results and reporting limits are qualified as biased low (L, UL) for the parent sample. When spike recoveries exceed 125%, the reported results are qualified as biased high (K), but the reporting limits are not affected. When the sample result is greater than four times the spike concentration, the spike recovery limits do not apply.

Data Review Results

One MS/MSD pair was submitted for analysis. The percent recoveries and RPD were within established guidelines for each of the analytes.

No qualifications are necessary.

Laboratory Control Sample Analysis

The Laboratory Control Sample (LCS) and LCS duplicate (LCSD) are used to monitor the efficiency of the digestion procedure and analytical instrument operation. The inability of the laboratory to successfully analyze a LCS/LCSD is indicative of an analytical problem related to the digestion/sample preparation procedures and/or instrument operations. The laboratory established control limits for LCS/LCSD recoveries and RPD are presented in the analytical report.

Data Review Results

One LCS was associated with each method. Each of the analytes was included in the respective LCS and the LCS percent recoveries were within established control limits.

No qualifications are necessary.

Data Qualification Summary

These data are acceptable and can be considered as representative of the samples collected in the field. However, the following qualifications should be made to the data.

Table 2: Qualification of Appendix I metals Data		
Sample	**Parameter**	**Qualification Flag**

SLMW-12BR-06-09	Ni	J
	Cu	U
SLMW-12AR-06-09	Cr	U
	Cu	U
	Ni	U
SLMW-8-06-09	Cr	U
	Cu	U
	Ni	U
SLMW-7-06-09	Cr	U
	Cu	J
	Ni	U
SLMW-Dup-1	Cr	U
	Cu	U
	Ni	U
SLMW-11R-06-09	Cr	U
	Cu	U
	Ni	U
	Ba	J

Organics

Holding Times

Holding Times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. When the holding time is exceeded, there is generally a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

Data Review Results

The holding and extraction times were met for all samples for each of the organics methods.

No qualifications are necessary.

Method Blanks

Method Blanks are analyzed and evaluated with samples to determine the existence and magnitude of possible laboratory created contamination. If blank contamination is found, samples need to be closely examined for the same contaminants. If the contaminants are not detected in the samples, then there is little need for concern. The following approach is used when the blank contaminant is also reported in the sample:

- If the sample result is at least ten times that in the blank, then the likely contribution to the sample from the laboratory environment is at most 10% and the possible contamination is negligible.

- If the sample result is at least five times but less than ten times the blank result, the compound is probably present in the samples, but the numerical result should be considered an upper limit of the true concentration.

- If the sample result is below five times the level in the blank, there is no adequate means by which to judge whether the sample result is attributable to laboratory contamination. When this occurs, the sample data is qualified as being the result of laboratory contamination.

Data Review Results
The method blank for SVOCs contained tentative detections for 2-acetylaminofluorene, 3-methylcholanthrene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene that were above the MDL but below the RL, as such these detections were flagged as estimated.

The positive results for these analytes in the associated samples which are less than five times the value observed in the blank should be flagged U. The concentrations of these analytes in the associated samples that were greater than five times but less than ten times the value observed in the blank should be flagged J.

Equipment Blanks
The purpose of Equipment Blanks is to monitor the effectiveness of the cleaning procedure used for the decontamination of sampling equipment in the field and the possibility of contamination at one site being carried over to another sampling site. When disposable-sampling equipment is used, Equipment Blanks serve to monitor the cleanliness of these items. Equipment Blanks are collected at a rate of 5% per samples collected.

The proper way to prepare an effective Equipment Blank is to take a quantity of analyte-free water to the sampling site, rinse the equipment with the analyte-free water directly into the sample container, add preservatives, and then treat as a regular sample. At least one Equipment Blank should be prepared for each type of analyte group collected with each item of equipment.

Data Review Results
One rinsate blank was submitted with the samples. The blank was non-detect for the target analytes.

No qualifications are necessary.

Trip Blank
Trip Blanks are an integral and essential part of any quality control process. The trip blank is designed to detect any contaminants that may have been introduced from the time the samples left the laboratory to the time the samples returned to the laboratory

Data Review Results There were not any detectable contaminates in the trip blank.

No qualifications are necessary.

Field Duplicate Sample Analysis
Duplicate samples are analyzed to evaluate the overall precision for both the field and the laboratory. Precision is the measure of the Relative Percent Difference (RPD) between the analytical results for duplicate samples. It is expected that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical soil field duplicate samples. For aqueous duplicates, if the sample results are greater than five times the reporting limit, the acceptance criteria for the RPD is 20% or less. If the sample results are less than five times the reporting limit, the duplicate acceptance is evaluated on the sample results rather than the RPD. There are no guidelines for data qualification based on poor field duplicate precision. Professional judgement was used to determine whether to qualify the data. Field duplicate samples are collected at a rate of 10% per samples collected and are sent to the laboratory as blind duplicates.

Data Review Results

Table 3: Comparison of Field Duplicates for VOC Analyses

Field Duplicate Pair	Parameter	Original Result ppb	Duplicate Result ppb	RPD	RPD Control Limits
SLMW-12AR-06-09	3-methylcholanthrene	0.56 JB	< 10	NA	<20%
SLMW-DUP-1	benzo[a]pyrene	0.62 JB	< 10	NA	<20%
	Benzo[g,h,i]perylene	1.2 JB	< 10	NA	<20%
	Dibenz(a,h)anthracene	1.1 JB	< 10	NA	<20%
	Indeno[1,2,3-cd]pyrene	1.1 JB	< 10	NA	<20%

Notes:

NA = The analyte was not detected at a level that was at least five times the reporting limits in at least one of the replicate samples.
J = Detected at estimated levels.
B=Blank contamination.

Five analytes were tentatively identified in the parent sample. These analytes were also detected in the method blank. The analytes were non-detect in the duplicate sample. Due to the low analyte concentrations and contamination issues, a significant analysis could not be performed.

No qualifications are necessary.

Matrix Spike Sample Analysis
The purpose of Matrix Spike analysis is to provide information about the effects that the sample matrix exerts on the digestion and the analytical methodology. The potential sample bias may be estimated by noting the degree to which the MS concentration was

lowered or elevated in the spike analysis. However, this bias should serve only as an approximation since sample specific problems may be the cause of the discrepancy, especially in soil samples. The control limits for Matrix Spike recoveries for TAL metals have been established at 75-125% recovery. The RPD for Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs established by the laboratory is less than 20%. When recoveries are below 30%, the reported results are qualified as biased low (L) and the reporting limits are rejected (R). When the spike recoveries fall between 30-75%, the reported results and reporting limits are qualified as biased low (L, UL) for the parent sample. When spike recoveries exceed 125%, the reported results are qualified as biased high (K), but the reporting limits are not affected. When the sample result is greater than four times the spike concentration, the spike recovery limits do not apply.

Data Review Results

An MS/MSD pair was submitted with the samples. The percent recoveries for 1-naphthylamine, methyl methanesulfonate, and p-phenylene diamine were outside of control limits (biased low) in the MS/MSD pair for SVOCs. The associated LCS was also out of control limits for each of the analytes. The percent recovery for 3,3'-dichlorobenzidine was outside of control limits biased low for the MS and the RPD for the MS/MSD pair was outside of control limits. The associated LCS was within control limits.

The recoveries for monochrotophos and merphos in the OP MS were biased low and the RPDs for merphos, monochrotophos, and mevinphos were outside of control limits. The associated LCS was within control limits for monochrotophos and mevinphos.

The percent recoveries and the RPDs were within guidelines for the other methods.

The results for merphos, 1-naphthylamine, methyl methanesulfonate, and p-phenylene diamine should be flagged UJ.

Laboratory Control Sample Analysis

The Laboratory Control Sample (LCS) and LCS duplicate (LCSD) are used to monitor the efficiency of the digestion procedure and analytical instrument operation. The inability of the laboratory to successfully analyze a LCS/LCSD is indicative of an analytical problem related to the digestion/sample preparation procedures and/or instrument operations. The laboratory established control limits for LCS/LCSD recoveries and RPD are presented in the analytical report.

Data Review Results

One LCS was associated with the samples for each method. The recoveries for bis(2-chlorethoxy)methane and o,o',o"-Triethylphosphorothioate in the SVOC LCS were biased high. The associated samples were non-detect for these analytes.

The recoveries for p-phenylene diamine, methyl methanesulfonate, methapyrilene, famphur, and 1-naphthylamine were biased low. The associated MS/MSD pair was within control limits for famphur and methapyrilene.

The recovery for merphos in the OP LCS was biased low.

The percent recoveries and the RPDs (if applicable) were within guidelines for the other methods.

The quantitation limits for merphos, 1-naphthylamine, methyl methanesulfonate, and p-phenylene diamine should be flagged UJ.

Surrogate Spike Recovery
Laboratory performance for individual samples is measured by the use of surrogate spikes. Surrogates are compounds added to every sample at the beginning of the sample preparation to monitor the success of the preparation of the sample on an individual basis. Surrogate compounds are selected based on their ability to mimic the behavior of specific target analytes held to be particularly sensitive to sample preparation. Unusually low or high surrogate recoveries may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target analytes. Method and matrix-specific control limits have been established by the laboratory to monitor surrogate recovery.

Data Review Results
The surrogate recoveries were reviewed for the organics analyses. The recoveries were within established control limits.

No qualifications are necessary.

Data Qualification Summary
These data are acceptable and can be considered as representative of the samples collected in the field. However, the following qualifications should be made to the data.

Table 4: Qualification of Appendix I metals Data

Sample	Parameter	Qualification Flag
SLMW-12BR-06-09	2-Acetylaminofluorene	U
	3-Methylcholanthrene	U
	Benzo[a]pyrene	U
	Benzo[b]fluoranthene	U
	Benzo[g,h,i]perylene	U
	Benzo[k]fluoranthene	U
	Dibenz(a,h)anthracene	U
	Indeno[1,2,3-cd]pyrene	U
SLMW-12AR-06-09	3-Methylcholanthrene	U
	Benzo[a]pyrene	U
	Benzo[g,h,i]perylene	U
	Dibenz(a,h)anthracene	U

	Indeno[1,2,3-cd]pyrene	U
SLMW-8-06-09	Benzo[g,h,i]perylene	U
	Dibenz(a,h)anthracene	U
SLMW-7-06-09	Benzo[g,h,i]perylene	U
	Dibenz(a,h)anthracene	U
All	Merphos	UJ
	1-Naphthylamine	UJ
	Methyl methanesulfonate	UJ
	p-Phenylene diamine	UJ

Kevin G. Haborak
Geophysicist
HTRW Section

Subject: Chemical Data Quality Assessment for Ft. Bragg, North Carolina, Longstreet Landfill June 2009 Groundwater Sampling

Introduction
The data for these samples were evaluated using guidelines established in the Environmental Protection Agency's National Functional Guidelines for Data Review and the Environmental Quality-Chemical Quality Assurance for Hazardous, Toxic and Radioactive Waste (HTRW) Projects (EM-200-1-6). *Test America (Savannah) performed the analysis and provided an analytical report. The job number is: 680-48237-1*

Sampling Procedures
The samples were received by the lab on June 16, 2009 in good condition. All holding times and extraction times were met for the samples. The samples were delivered at a temperature below four degress Celcius (^{o}C) and no problems were noted by TA for the pH of the samples. No non-conformances were noted for the COC.

No qualifications are necessary.

Analytical Procedures
The Delivery Order and the COC specify the analytical methods used by the Laboratory. The samples were analyzed for Appendix I metals by SW846 6020/3030C, Appendix II volatile organic compounds (VOCs) by SW846 8260B/5030B, Appendix II semi-volatile organic compounds (SVOCs) by SW846 8270CB/3520C, Appendix II organophosphorous pesticides (OPs) by SW846 8081A/3520C, polychlorinated biphenyls (PCBs) by SW846 8082/3520C, Appendix II herbicides (Herb) by SW846 8151, mercury (Hg) by SW846 7470A, and Appendix II inorganics (nitrate, sulfide, and cyanide) by various methods.

Inorganics

Holding Times
Holding Times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. When the holding time is exceeded, there is generally a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

Data Review Results
The holding and extraction times times were met for all samples for each of the inorganics methods.

No qualifications are necessary.

Method Blanks
Method Blanks are analyzed and evaluated with samples to determine the existence and magnitude of possible laboratory created contamination. If blank contamination is found, samples need to be closely examined for the same contaminants. If the contaminants are

not detected in the samples, then there is little need for concern. The following approach is used when the blank contaminant is also reported in the sample:

- If the sample result is at least ten times that in the blank, then the likely contribution to the sample from the laboratory environment is at most 10% and the possible contamination is negligible.

- If the sample result is at least five times but less than ten times the blank result, the compound is probably present in the samples, but the numerical result should be considered an upper limit of the true concentration.

- If the sample result is below five times the level in the blank, there is no adequate means by which to judge whether the sample result is attributable to laboratory contamination. When this occurs, the sample data is qualified as being the result of laboratory contamination.

Data Review Results
The method blank for metals contained a detection for tin (Sn) that was above the MDL but below the RL, as such this detection was flagged as estimated. The concentration of Sn detected is 0.44 μg/L and the MDL is 0.40 μg/L.

Tin was tentatively identified in sample SLMW-9-06-09 at a level of 0.45 μg/L. This diction should be flagged U.

Equipment Blanks
The purpose of Equipment Blanks is to monitor the effectiveness of the cleaning procedure used for the decontamination of sampling equipment in the field and the possibility of contamination at one site being carried over to another sampling site. When disposable-sampling equipment is used, Equipment Blanks serve to monitor the cleanliness of these items. Equipment Blanks are collected at a rate of 5% per samples collected.

The proper way to prepare an effective Equipment Blank is to take a quantity of analyte-free water to the sampling site, rinse the equipment with the analyte-free water directly into the sample container, add preservatives, and then treat as a regular sample. At least one Equipment Blank should be prepared for each type of analyte group collected with each item of equipment.

Data Review Results
A rinsate blanks was not submitted with the samples.

No qualifications are necessary.

Field Duplicate Sample Analysis

Duplicate samples are analyzed to evaluate the overall precision for both the field and the laboratory. Precision is the measure of the Relative Percent Difference (RPD) between the analytical results for duplicate samples. It is expected that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical soil field duplicate samples. The RPD control limit for soil samples for this project was set at less than 50% for results that were five times the reporting limit. For aqueous duplicates, if the sample results are greater than five times the reporting limit, the acceptance criteria for the RPD is 20% or less. If the sample results are less than five times the reporting limit, the duplicate acceptance is evaluated on the sample results rather than the RPD. There are no guidelines for data qualification based on poor field duplicate precision. Professional judgment was used to determine whether to qualify the data. Field duplicate samples are collected at a rate of 10% per samples collected and are sent to the laboratory as blind duplicates.

Data Review Results
Replicate samples were not submitted.

No qualifications are necessary.

Matrix Spike Sample Analysis
The purpose of Matrix Spike analysis is to provide information about the effects that the sample matrix exerts on the digestion and the analytical methodology. The potential sample bias may be estimated by noting the degree to which the MS concentration was lowered or elevated in the spike analysis. However, this bias should serve only as an approximation since sample specific problems may be the cause of the discrepancy, especially in soil samples. The control limits for Matrix Spike recoveries for TAL metals have been established at 75-125% recovery. The RPD for Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs established by the laboratory is less than 20%. When recoveries are below 30%, the reported results are qualified as biased low (L) and the reporting limits are rejected (R). When the spike recoveries fall between 30-75%, the reported results and reporting limits are qualified as biased low (L, UL) for the parent sample. When spike recoveries exceed 125%, the reported results are qualified as biased high (K), but the reporting limits are not affected. When the sample result is greater than four times the spike concentration, the spike recovery limits do not apply.

Data Review Results
An MS/MSD pair was not submitted for analysis.

No qualifications are necessary.

Laboratory Control Sample Analysis
The Laboratory Control Sample (LCS) and LCS duplicate (LCSD) are used to monitor the efficiency of the digestion procedure and analytical instrument operation. The inability of the laboratory to successfully analyze a LCS/LCSD is indicative of an analytical problem related to the digestion/sample preparation procedures and/or

instrument operations. The laboratory established control limits for LCS/LCSD recoveries and RPD are presented in the analytical report.

Data Review Results
One LCS/LCSD was associated with each method. Each of the analytes was included in the respective LCS/LCSD pair and the percent recoveries and RPD were within established control limits.

No qualifications are necessary.

Data Qualification Summary
These data are acceptable and can be considered as representative of the samples collected in the field. However, the following qualifications should be made to the data.

Table 1: Qualification of Appendix I metals Data		
Sample	**Parameter**	**Qualification Flag**
SLMW-9-06-09	Sn	U

Organics

Holding Times
Holding Times are established and monitored to ensure analytical results accurately represent analyte concentrations in a sample at the time of collection. When the holding time is exceeded, there is generally a loss of the analyte due to a variety of mechanisms, such as deposition on the sample container walls or precipitation.

Data Review Results
The holding and extraction times were met for all samples for each of the organics methods.

No qualifications are necessary.

Method Blanks
Method Blanks are analyzed and evaluated with samples to determine the existence and magnitude of possible laboratory created contamination. If blank contamination is found, samples need to be closely examined for the same contaminants. If the contaminants are not detected in the samples, then there is little need for concern. The following approach is used when the blank contaminant is also reported in the sample:

- If the sample result is at least ten times that in the blank, then the likely contribution to the sample from the laboratory environment is at most 10% and the possible contamination is negligible.

- If the sample result is at least five times but less than ten times the blank result, the compound is probably present in the samples, but the numerical result should be considered an upper limit of the true concentration.

- If the sample result is below five times the level in the blank, there is no adequate means by which to judge whether the sample result is attributable to laboratory contamination. When this occurs, the sample data is qualified as being the result of laboratory contamination.

Data Review Results
The method blank for SVOCs contained tentative detections for 2-acetylaminofluorene, 3-methylcholanthrene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene that were above the MDL but below the RL, as such these detections were flagged as estimated. The associated samples were non-detect for these analytes.

No qualifications are necessary.

Equipment Blanks
The purpose of Equipment Blanks is to monitor the effectiveness of the cleaning procedure used for the decontamination of sampling equipment in the field and the possibility of contamination at one site being carried over to another sampling site. When disposable-sampling equipment is used, Equipment Blanks serve to monitor the cleanliness of these items. Equipment Blanks are collected at a rate of 5% per samples collected.

The proper way to prepare an effective Equipment Blank is to take a quantity of analyte-free water to the sampling site, rinse the equipment with the analyte-free water directly into the sample container, add preservatives, and then treat as a regular sample. At least one Equipment Blank should be prepared for each type of analyte group collected with each item of equipment.

Data Review Results
A rinsate blank was not submitted with the samples.

No qualifications are necessary.

Trip Blank
Trip Blanks are an integral and essential part of any quality control process. The trip blank is designed to detect any contaminants that may have been introduced from the time the samples left the laboratory to the time the samples returned to the laboratory

Data Review Results
A trip blank was not provided by TA, so no trip blank was submitted for analysis.

No qualifications are necessary.

Field Duplicate Sample Analysis
Duplicate samples are analyzed to evaluate the overall precision for both the field and the laboratory. Precision is the measure of the Relative Percent Difference (RPD) between the analytical results for duplicate samples. It is expected that soil field duplicates will exhibit greater variance than water field duplicates due to the difficulties associated with collecting identical soil field duplicate samples. For aqueous duplicates, if the sample results are greater than five times the reporting limit, the acceptance criteria for the RPD is 20% or less. If the sample results are less than five times the reporting limit, the duplicate acceptance is evaluated on the sample results rather than the RPD. There are no guidelines for data qualification based on poor field duplicate precision. Professional judgement was used to determine whether to qualify the data. Field duplicate samples are collected at a rate of 10% per samples collected and are sent to the laboratory as blind duplicates.

Data Review Results
Replicate samples were not submitted for analysis.

No qualifications are necessary.

Matrix Spike Sample Analysis
The purpose of Matrix Spike analysis is to provide information about the effects that the sample matrix exerts on the digestion and the analytical methodology. The potential sample bias may be estimated by noting the degree to which the MS concentration was lowered or elevated in the spike analysis. However, this bias should serve only as an approximation since sample specific problems may be the cause of the discrepancy, especially in soil samples. The control limits for Matrix Spike recoveries for TAL metals have been established at 75-125% recovery. The RPD for Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs established by the laboratory is less than 20%. When recoveries are below 30%, the reported results are qualified as biased low (L) and the reporting limits are rejected (R). When the spike recoveries fall between 30-75%, the reported results and reporting limits are qualified as biased low (L, UL) for the parent sample. When spike recoveries exceed 125%, the reported results are qualified as biased high (K), but the reporting limits are not affected. When the sample result is greater than four times the spike concentration, the spike recovery limits do not apply.

Data Review Results
An MS/MSD pair was not submitted with the samples.

No qualifications are necessary.

Laboratory Control Sample Analysis
The Laboratory Control Sample (LCS) and LCS duplicate (LCSD) are used to monitor the efficiency of the digestion procedure and analytical instrument operation. The inability of the laboratory to successfully analyze a LCS/LCSD is indicative of an

analytical problem related to the digestion/sample preparation procedures and/or instrument operations. The laboratory established control limits for LCS/LCSD recoveries and RPD are presented in the analytical report.

Data Review Results
One LCS was associated with the samples for each method. The recoveries for bis(2-chlorethoxy)methane and o,o',o"-Triethylphosphorothioate in the SVOC LCS were biased high. The associated samples were non-detect for these analytes.

The recoveries for p-phenylene diamine, methyl methanesulfonate, famphur, and 1-naphthylamine were biased low.

The recovery for merphos in the OP LCS was biased low.

The percent recoveries and the RPDs (if applicable) were within guidelines for the other analytes.

The quantitation limits for merphos, p-phenylene diamine, methyl methanesulfonate, famphur, and 1-naphthylamine should be flagged UJ.

Surrogate Spike Recovery
Laboratory performance for individual samples is measured by the use of surrogate spikes. Surrogates are compounds added to every sample at the beginning of the sample preparation to monitor the success of the preparation of the sample on an individual basis. Surrogate compounds are selected based on their ability to mimic the behavior of specific target analytes held to be particularly sensitive to sample preparation. Unusually low or high surrogate recoveries may indicate some deficiency in the analytical system or that some matrix effects exist, resulting in low or high sample results for target analytes. Method and matrix-specific control limits have been established by the laboratory to monitor surrogate recovery.

Data Review Results
The surrogate recoveries were reviewed for the organics analyses. The recoveries were within established control limits.

No qualifications are necessary.

Data Qualification Summary
These data are acceptable and can be considered as representative of the samples collected in the field. However, the following qualifications should be made to the data.

Table 2: Qualification of Appendix I metals Data

Sample	Parameter	Qualification Flag
All	Merphos	UJ
	1-Naphthylamine	UJ
	Methyl methanesulfonate	UJ
	p-Phenylene diamine	UJ

	Famphur	UJ

Kevin G. Haborak
Geophysicist
HTRW Section

APPENDIX C

CHAIN OF CUSTODY AND LABORATORY ANALYTICAL REPORTS

(Electronic Only)

ANALYTICAL REPORT

Job Number: 680-48237-1

Job Description: Longstreet LF

For:
U.S. Army Corps of Engineers
PO BOX 889
Savannah, GA 31402-0889

Attention: Mr. Kevin Haborak

Approved for release.
Terry Hornsby
Project Manager I
7/2/2009 10:50 AM

Terry Hornsby
Project Manager I
terry.hornsby@testamericainc.com
07/02/2009

cc: Mr. Judson Smith

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
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Job Narrative
680-J48237-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The laboratory control sample (LCS) for batch 140820 exceeded control limits for the following analytes: famphur, methyl methansulfonate, and p-phenylenediamine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270C: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 140820 had 3 analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8141A: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for one analyte to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 680-140966 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

METHOD / ANALYST SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL
SW846 8270C	Nguyen, Thuong	TN
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8141A	Kellar, Joshua	JK
SW846 8151A	Kellar, Joshua	JK
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Reeves, Lorene	LR
MCAWW 300.0	Campbell, Sophia M	SMC
MCAWW 335.4	McDonald, Debbie	DM
SW846 9034	Vasquez, Juana	JV

SAMPLE SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-48237-1	SLMW-9-06-09	Water	06/16/2009 0825	06/17/2009 1250
680-48237-2	SLMW-13-06-09	Water	06/16/2009 1045	06/17/2009 1250
680-48237-3	SLMW-6-06-09	Water	06/16/2009 1315	06/17/2009 1250
680-48237-4	SLMW-10-9-06-09	Water	06/16/2009 1415	06/17/2009 1250
680-48237-5	SW-2-06-09	Water	06/16/2009 1500	06/17/2009 1250
680-48237-6	SW-1-06-09	Water	06/16/2009 1530	06/17/2009 1250
680-48237-7	Trip Blank	Water	06/16/2009 0000	06/17/2009 1250

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1

Client Matrix: Water

Date Sampled: 06/16/2009 0825

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1806

Date Prepared: 06/23/2009 1806

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0345.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	7.6		0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.44	J	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	1.9		0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.81	J	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	2.3		0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1

Client Matrix: Water

Date Sampled: 06/16/2009 0825

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1806

Date Prepared: 06/23/2009 1806

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0345.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.39	J	0.15	1.0
Toluene	0.35	J	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.67	J	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	2.0		0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	104	75 - 120

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2 | Date Sampled: 06/16/2009 1045
Client Matrix: Water | Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B | Analysis Batch: 680-141154 | Instrument ID: GC/MS Volatiles - P
Preparation: 5030B | Lab File ID: p0347.d
Dilution: 1.0 | Initial Weight/Volume: 5 mL
Date Analyzed: 06/23/2009 1836 | Final Weight/Volume: 5 mL
Date Prepared: 06/23/2009 1836

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2

Client Matrix: Water

Date Sampled: 06/16/2009 1045

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1836

Date Prepared: 06/23/2009 1836

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0347.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	102	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1906

Date Prepared: 06/23/2009 1906

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0349.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	7.6	J	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.31	J	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1906

Date Prepared: 06/23/2009 1906

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0349.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4

Client Matrix: Water

Date Sampled: 06/16/2009 1415

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1936

Date Prepared: 06/23/2009 1936

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0351.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.97	J	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	2.2		0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	3.4		0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	1.0		0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.45	J	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.45	J	0.33	1.0
cis-1,2-Dichloroethene	9.0		0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4

Client Matrix: Water

Date Sampled: 06/16/2009 1415

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 1936

Date Prepared: 06/23/2009 1936

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0351.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.59	J	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	1.3		0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	106	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 2006

Date Prepared: 06/23/2009 2006

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0353.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 2006

Date Prepared: 06/23/2009 2006

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0353.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	103	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 2035

Date Prepared: 06/23/2009 2035

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0355.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	10		0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.34	J	0.10	1.0
1,2-Dichloropropane	0.44	J	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.62	J	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	1.7		0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	4.8		0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	4.2		0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/23/2009 2035

Date Prepared: 06/23/2009 2035

Analysis Batch: 680-141154

Instrument ID: GC/MS Volatiles - P

Lab File ID: p0355.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	1.1		0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	1.9		0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	2.8		0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	104	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-48237-7

Client Matrix: Water

Date Sampled: 06/16/2009 0000

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/22/2009 1330

Date Prepared: 06/22/2009 1330

Analysis Batch: 680-141053

Instrument ID: GC/MS Volatiles - P C2

Lab File ID: p0296.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	5.1	J	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 680-48237-7

Client Matrix: Water

Date Sampled: 06/16/2009 0000

Date Received: 06/17/2009 1250

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/22/2009 1330

Date Prepared: 06/22/2009 1330

Analysis Batch: 680-141053

Instrument ID: GC/MS Volatiles - P C2

Lab File ID: p0296.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1 | Date Sampled: 06/16/2009 0825
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5017a.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1710 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	10
1,3,5-Trinitrobenzene	5.2	U	5.2	16
1,3-Dinitrobenzene	0.59	U	0.59	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.52	U Q	0.52	10
2,3,4,6-Tetrachlorophenol	0.52	U	0.52	10
2,4,5-Trichlorophenol	0.83	U	0.83	10
2,4,6-Trichlorophenol	0.52	U	0.52	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	2.1	J	1.1	10
2,4-Dinitrophenol	10	U	10	52
2,4-Dinitrotoluene	0.52	U	0.52	10
2,6-Dichlorophenol	0.52	U	0.52	10
2,6-Dinitrotoluene	0.52	U	0.52	10
2-Acetylaminofluorene	0.58	U	0.58	10
2-Chloronaphthalene	0.52	U	0.52	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.52	U	0.52	10
2-Methylphenol	0.67	U	0.67	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.2	U	5.2	52
2-Nitrophenol	5.2	U	5.2	16
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	21
3,3'-Dimethylbenzidine	0.52	U	0.52	21
3-Methylcholanthrene	0.52	U	0.52	10
3-Nitroaniline	2.9	U	2.9	52
4,6-Dinitro-2-methylphenol	5.2	U	5.2	52
4-Aminobiphenyl	0.52	U	0.52	10
4-Bromophenyl phenyl ether	0.52	U	0.52	10
4-Chloro-3-methylphenol	0.54	U	0.54	10
4-Chloroaniline	5.0	U	5.0	21
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.1	U	2.1	52
4-Nitrophenol	10	U	10	52
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.52	U	0.52	10
Acenaphthylene	0.52	U	0.52	10
Acetophenone	0.52	U	0.52	10
Anthracene	0.52	U	0.52	10
Benzo[a]anthracene	0.52	U	0.52	10
Benzo[a]pyrene	0.52	U	0.52	10
Benzo[b]fluoranthene	0.70	U	0.70	10
Benzo[g,h,i]perylene	0.70	U	0.70	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1 | Date Sampled: 06/16/2009 0825
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5017a.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1710 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.52	U	0.52	10
Benzyl alcohol	0.83	U	0.83	10
Bis(2-chloroethoxy)methane	0.52	U Q	0.52	10
Bis(2-chloroethyl)ether	0.61	U	0.61	10
Bis(2-ethylhexyl) phthalate	0.98	U	0.98	10
bis(chloroisopropyl) ether	0.52	U	0.52	10
Butyl benzyl phthalate	0.77	U	0.77	10
Chrysene	0.52	U	0.52	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.52	U	0.52	10
Dibenzofuran	0.52	U	0.52	10
Diethyl phthalate	0.95	J	0.52	10
Dimethoate	0.66	U	0.66	10
Dimethyl phthalate	5.2	U	5.2	16
Di-n-butyl phthalate	0.52	U	0.52	10
Di-n-octyl phthalate	0.79	U	0.79	10
Disulfoton	0.99	U	0.99	10
Ethyl methanesulfonate	0.58	U	0.58	10
Ethyl Parathion	0.85	U	0.85	10
Famphur	0.57	U Q	0.57	10
Fluoranthene	0.52	U	0.52	10
Fluorene	0.52	U	0.52	10
Hexachlorobenzene	0.52	U	0.52	10
Hexachlorobutadiene	5.2	U	5.2	16
Hexachlorocyclopentadiene	5.2	U	5.2	16
Hexachloroethane	0.52	U	0.52	10
Hexachloropropene	0.52	U	0.52	10
Indeno[1,2,3-cd]pyrene	0.90	U	0.90	10
Isophorone	0.52	U	0.52	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.2	U	5.2	2100
Methyl methanesulfonate	0.52	U Q	0.52	10
Methyl parathion	0.78	U	0.78	10
Naphthalene	0.52	U	0.52	10
Nitrobenzene	0.52	U	0.52	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.52	U	0.52	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.52	U	0.52	10
N-Nitrosodiphenylamine	0.76	U	0.76	10
N-Nitrosomethylethylamine	5.2	U	5.2	16
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1
Client Matrix: Water

Date Sampled: 06/16/2009 0825
Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/29/2009 1710
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5017a.d
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.82	U Q	0.82	10
o-Toluidine	0.52	U	0.52	10
p-Dimethylamino azobenzene	0.63	U	0.63	10
Pentachlorobenzene	0.59	U	0.59	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.2	U	5.2	52
Phenacetin	0.52	U	0.52	10
Phenanthrene	0.52	U	0.52	10
Phenol	0.52	U	0.52	10
Phorate	0.85	U	0.85	10
p-Phenylene diamine	10	U Q	10	2100
Pronamide	1.0	U	1.0	10
Pyrene	0.52	U	0.52	10
Safrole	0.52	U	0.52	10
Sulfotepp	0.52	U	0.52	10
Thionazin	0.52	U	0.52	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	81	40 - 139
2-Fluorobiphenyl	73	50 - 113
2-Fluorophenol	77	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	75	38 - 116
Terphenyl-d14	77	10 - 121

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2 | Date Sampled: 06/16/2009 1045
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5019.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1758 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	10
1,3,5-Trinitrobenzene	5.2	U	5.2	16
1,3-Dinitrobenzene	0.59	U	0.59	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.52	U Q	0.52	10
2,3,4,6-Tetrachlorophenol	0.52	U	0.52	10
2,4,5-Trichlorophenol	0.83	U	0.83	10
2,4,6-Trichlorophenol	0.52	U	0.52	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	52
2,4-Dinitrotoluene	0.52	U	0.52	10
2,6-Dichlorophenol	0.52	U	0.52	10
2,6-Dinitrotoluene	0.52	U	0.52	10
2-Acetylaminofluorene	0.58	U	0.58	10
2-Chloronaphthalene	0.52	U	0.52	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.52	U	0.52	10
2-Methylphenol	0.67	U	0.67	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.2	U	5.2	52
2-Nitrophenol	5.2	U	5.2	16
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	21
3,3'-Dimethylbenzidine	0.52	U	0.52	21
3-Methylcholanthrene	0.52	U	0.52	10
3-Nitroaniline	2.9	U	2.9	52
4,6-Dinitro-2-methylphenol	5.2	U	5.2	52
4-Aminobiphenyl	0.52	U	0.52	10
4-Bromophenyl phenyl ether	0.52	U	0.52	10
4-Chloro-3-methylphenol	0.54	U	0.54	10
4-Chloroaniline	5.0	U	5.0	21
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.1	U	2.1	52
4-Nitrophenol	10	U	10	52
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.52	U	0.52	10
Acenaphthylene	0.52	U	0.52	10
Acetophenone	0.52	U	0.52	10
Anthracene	0.52	U	0.52	10
Benzo[a]anthracene	0.52	U	0.52	10
Benzo[a]pyrene	0.52	U	0.52	10
Benzo[b]fluoranthene	0.70	U	0.70	10
Benzo[g,h,i]perylene	0.70	U	0.70	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2 | Date Sampled: 06/16/2009 1045
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5019.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1758 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.52	U	0.52	10
Benzyl alcohol	0.83	U	0.83	10
Bis(2-chloroethoxy)methane	0.52	U Q	0.52	10
Bis(2-chloroethyl)ether	0.61	U	0.61	10
Bis(2-ethylhexyl) phthalate	0.98	U	0.98	10
bis(chloroisopropyl) ether	0.52	U	0.52	10
Butyl benzyl phthalate	0.77	U	0.77	10
Chrysene	0.52	U	0.52	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.52	U	0.52	10
Dibenzofuran	0.52	U	0.52	10
Diethyl phthalate	0.52	U	0.52	10
Dimethoate	0.66	U	0.66	10
Dimethyl phthalate	5.2	U	5.2	16
Di-n-butyl phthalate	0.52	U	0.52	10
Di-n-octyl phthalate	0.79	U	0.79	10
Disulfoton	0.99	U	0.99	10
Ethyl methanesulfonate	0.58	U	0.58	10
Ethyl Parathion	0.85	U	0.85	10
Famphur	0.57	U Q	0.57	10
Fluoranthene	0.52	U	0.52	10
Fluorene	0.52	U	0.52	10
Hexachlorobenzene	0.52	U	0.52	10
Hexachlorobutadiene	5.2	U	5.2	16
Hexachlorocyclopentadiene	5.2	U	5.2	16
Hexachloroethane	0.52	U	0.52	10
Hexachloropropene	0.52	U	0.52	10
Indeno[1,2,3-cd]pyrene	0.90	U	0.90	10
Isophorone	0.52	U	0.52	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.2	U	5.2	2100
Methyl methanesulfonate	0.52	U Q	0.52	10
Methyl parathion	0.78	U	0.78	10
Naphthalene	0.52	U	0.52	10
Nitrobenzene	0.52	U	0.52	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.52	U	0.52	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.52	U	0.52	10
N-Nitrosodiphenylamine	0.76	U	0.76	10
N-Nitrosomethylethylamine	5.2	U	5.2	16
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2

Client Matrix: Water

Date Sampled: 06/16/2009 1045

Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/29/2009 1758

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5019.d

Initial Weight/Volume: 960 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.82	U Q	0.82	10
o-Toluidine	0.52	U	0.52	10
p-Dimethylamino azobenzene	0.63	U	0.63	10
Pentachlorobenzene	0.59	U	0.59	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.2	U	5.2	52
Phenacetin	0.52	U	0.52	10
Phenanthrene	0.52	U	0.52	10
Phenol	0.52	U	0.52	10
Phorate	0.85	U	0.85	10
p-Phenylene diamine	10	U Q	10	2100
Pronamide	1.0	U	1.0	10
Pyrene	0.52	U	0.52	10
Safrole	0.52	U	0.52	10
Sulfotepp	0.52	U	0.52	10
Thionazin	0.52	U	0.52	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	82	40 - 139
2-Fluorobiphenyl	81	50 - 113
2-Fluorophenol	86	36 - 110
Nitrobenzene-d5	90	45 - 112
Phenol-d5	81	38 - 116
Terphenyl-d14	90	10 - 121

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3 | Date Sampled: 06/16/2009 1315
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5020.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1822 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	10
1,3,5-Trinitrobenzene	5.2	U	5.2	16
1,3-Dinitrobenzene	0.59	U	0.59	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.52	U Q	0.52	10
2,3,4,6-Tetrachlorophenol	0.52	U	0.52	10
2,4,5-Trichlorophenol	0.83	U	0.83	10
2,4,6-Trichlorophenol	0.52	U	0.52	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	52
2,4-Dinitrotoluene	0.52	U	0.52	10
2,6-Dichlorophenol	0.52	U	0.52	10
2,6-Dinitrotoluene	0.52	U	0.52	10
2-Acetylaminofluorene	0.58	U	0.58	10
2-Chloronaphthalene	0.52	U	0.52	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.52	U	0.52	10
2-Methylphenol	0.67	U	0.67	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.2	U	5.2	52
2-Nitrophenol	5.2	U	5.2	16
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	21
3,3'-Dimethylbenzidine	0.52	U	0.52	21
3-Methylcholanthrene	0.52	U	0.52	10
3-Nitroaniline	2.9	U	2.9	52
4,6-Dinitro-2-methylphenol	5.2	U	5.2	52
4-Aminobiphenyl	0.52	U	0.52	10
4-Bromophenyl phenyl ether	0.52	U	0.52	10
4-Chloro-3-methylphenol	0.54	U	0.54	10
4-Chloroaniline	5.0	U	5.0	21
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.1	U	2.1	52
4-Nitrophenol	10	U	10	52
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.52	U	0.52	10
Acenaphthylene	0.52	U	0.52	10
Acetophenone	0.52	U	0.52	10
Anthracene	0.52	U	0.52	10
Benzo[a]anthracene	0.52	U	0.52	10
Benzo[a]pyrene	0.52	U	0.52	10
Benzo[b]fluoranthene	0.70	U	0.70	10
Benzo[g,h,i]perylene	0.70	U	0.70	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3 | Date Sampled: 06/16/2009 1315
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5020.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1822 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.52	U	0.52	10
Benzyl alcohol	0.83	U	0.83	10
Bis(2-chloroethoxy)methane	0.52	U Q	0.52	10
Bis(2-chloroethyl)ether	0.61	U	0.61	10
Bis(2-ethylhexyl) phthalate	0.98	U	0.98	10
bis(chloroisopropyl) ether	0.52	U	0.52	10
Butyl benzyl phthalate	0.77	U	0.77	10
Chrysene	0.52	U	0.52	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.52	U	0.52	10
Dibenzofuran	0.52	U	0.52	10
Diethyl phthalate	0.52	U	0.52	10
Dimethoate	0.66	U	0.66	10
Dimethyl phthalate	5.2	U	5.2	16
Di-n-butyl phthalate	0.52	U	0.52	10
Di-n-octyl phthalate	0.79	U	0.79	10
Disulfoton	0.99	U	0.99	10
Ethyl methanesulfonate	0.58	U	0.58	10
Ethyl Parathion	0.85	U	0.85	10
Famphur	0.57	U Q	0.57	10
Fluoranthene	0.52	U	0.52	10
Fluorene	0.52	U	0.52	10
Hexachlorobenzene	0.52	U	0.52	10
Hexachlorobutadiene	5.2	U	5.2	16
Hexachlorocyclopentadiene	5.2	U	5.2	16
Hexachloroethane	0.52	U	0.52	10
Hexachloropropene	0.52	U	0.52	10
Indeno[1,2,3-cd]pyrene	0.90	U	0.90	10
Isophorone	0.52	U	0.52	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.2	U	5.2	2100
Methyl methanesulfonate	0.52	U Q	0.52	10
Methyl parathion	0.78	U	0.78	10
Naphthalene	0.52	U	0.52	10
Nitrobenzene	0.52	U	0.52	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.52	U	0.52	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.52	U	0.52	10
N-Nitrosodiphenylamine	0.76	U	0.76	10
N-Nitrosomethylethylamine	5.2	U	5.2	16
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/29/2009 1822

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5020.d

Initial Weight/Volume: 960 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.82	U Q	0.82	10
o-Toluidine	0.52	U	0.52	10
p-Dimethylamino azobenzene	0.63	U	0.63	10
Pentachlorobenzene	0.59	U	0.59	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.2	U	5.2	52
Phenacetin	0.52	U	0.52	10
Phenanthrene	0.52	U	0.52	10
Phenol	0.52	U	0.52	10
Phorate	0.85	U	0.85	10
p-Phenylene diamine	10	U Q	10	2100
Pronamide	1.0	U	1.0	10
Pyrene	0.52	U	0.52	10
Safrole	0.52	U	0.52	10
Sulfotepp	0.52	U	0.52	10
Thionazin	0.52	U	0.52	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	74	40 - 139
2-Fluorobiphenyl	75	50 - 113
2-Fluorophenol	81	36 - 110
Nitrobenzene-d5	84	45 - 112
Phenol-d5	76	38 - 116
Terphenyl-d14	88	10 - 121

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4 | Date Sampled: 06/16/2009 1415
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5018.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1734 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	10
1,3,5-Trinitrobenzene	5.2	U	5.2	16
1,3-Dinitrobenzene	0.59	U	0.59	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.52	U Q	0.52	10
2,3,4,6-Tetrachlorophenol	0.52	U	0.52	10
2,4,5-Trichlorophenol	0.83	U	0.83	10
2,4,6-Trichlorophenol	0.52	U	0.52	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	52
2,4-Dinitrotoluene	0.52	U	0.52	10
2,6-Dichlorophenol	0.52	U	0.52	10
2,6-Dinitrotoluene	0.52	U	0.52	10
2-Acetylaminofluorene	0.58	U	0.58	10
2-Chloronaphthalene	0.52	U	0.52	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.52	U	0.52	10
2-Methylphenol	0.67	U	0.67	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.2	U	5.2	52
2-Nitrophenol	5.2	U	5.2	16
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	21
3,3'-Dimethylbenzidine	0.52	U	0.52	21
3-Methylcholanthrene	0.52	U	0.52	10
3-Nitroaniline	2.9	U	2.9	52
4,6-Dinitro-2-methylphenol	5.2	U	5.2	52
4-Aminobiphenyl	0.52	U	0.52	10
4-Bromophenyl phenyl ether	0.52	U	0.52	10
4-Chloro-3-methylphenol	0.54	U	0.54	10
4-Chloroaniline	5.0	U	5.0	21
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.1	U	2.1	52
4-Nitrophenol	10	U	10	52
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.52	U	0.52	10
Acenaphthylene	0.52	U	0.52	10
Acetophenone	0.52	U	0.52	10
Anthracene	0.52	U	0.52	10
Benzo[a]anthracene	0.52	U	0.52	10
Benzo[a]pyrene	0.52	U	0.52	10
Benzo[b]fluoranthene	0.70	U	0.70	10
Benzo[g,h,i]perylene	0.70	U	0.70	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4 | Date Sampled: 06/16/2009 1415
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5018.d
Dilution: 1.0 | Initial Weight/Volume: 960 mL
Date Analyzed: 06/29/2009 1734 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.52	U	0.52	10
Benzyl alcohol	0.83	U	0.83	10
Bis(2-chloroethoxy)methane	0.52	U Q	0.52	10
Bis(2-chloroethyl)ether	0.61	U	0.61	10
Bis(2-ethylhexyl) phthalate	0.98	U	0.98	10
bis(chloroisopropyl) ether	0.52	U	0.52	10
Butyl benzyl phthalate	0.77	U	0.77	10
Chrysene	0.52	U	0.52	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.52	U	0.52	10
Dibenzofuran	0.52	U	0.52	10
Diethyl phthalate	0.52	U	0.52	10
Dimethoate	0.66	U	0.66	10
Dimethyl phthalate	5.2	U	5.2	16
Di-n-butyl phthalate	0.52	U	0.52	10
Di-n-octyl phthalate	0.79	U	0.79	10
Disulfoton	0.99	U	0.99	10
Ethyl methanesulfonate	0.58	U	0.58	10
Ethyl Parathion	0.85	U	0.85	10
Famphur	0.57	U Q	0.57	10
Fluoranthene	0.52	U	0.52	10
Fluorene	0.52	U	0.52	10
Hexachlorobenzene	0.52	U	0.52	10
Hexachlorobutadiene	5.2	U	5.2	16
Hexachlorocyclopentadiene	5.2	U	5.2	16
Hexachloroethane	0.52	U	0.52	10
Hexachloropropene	0.52	U	0.52	10
Indeno[1,2,3-cd]pyrene	0.90	U	0.90	10
Isophorone	0.52	U	0.52	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.2	U	5.2	2100
Methyl methanesulfonate	0.52	U Q	0.52	10
Methyl parathion	0.78	U	0.78	10
Naphthalene	0.52	U	0.52	10
Nitrobenzene	0.52	U	0.52	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.52	U	0.52	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.52	U	0.52	10
N-Nitrosodiphenylamine	0.76	U	0.76	10
N-Nitrosomethylethylamine	5.2	U	5.2	16
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4

Client Matrix: Water

Date Sampled: 06/16/2009 1415

Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/29/2009 1734

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5018.d

Initial Weight/Volume: 960 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.82	U Q	0.82	10
o-Toluidine	0.52	U	0.52	10
p-Dimethylamino azobenzene	0.63	U	0.63	10
Pentachlorobenzene	0.59	U	0.59	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.2	U	5.2	52
Phenacetin	0.52	U	0.52	10
Phenanthrene	0.52	U	0.52	10
Phenol	0.52	U	0.52	10
Phorate	0.85	U	0.85	10
p-Phenylene diamine	10	U Q	10	2100
Pronamide	1.0	U	1.0	10
Pyrene	0.52	U	0.52	10
Safrole	0.52	U	0.52	10
Sulfotepp	0.52	U	0.52	10
Thionazin	0.52	U	0.52	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	76	40 - 139
2-Fluorobiphenyl	70	50 - 113
2-Fluorophenol	70	36 - 110
Nitrobenzene-d5	76	45 - 112
Phenol-d5	67	38 - 116
Terphenyl-d14	67	10 - 121

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5 | Date Sampled: 06/16/2009 1500
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5021.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/29/2009 1846 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	0.57	U	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	0.51	U	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	0.51	U	0.51	10
Benzo[b]fluoranthene	0.68	U	0.68	10
Benzo[g,h,i]perylene	0.68	U	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5 | Date Sampled: 06/16/2009 1500
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5021.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/29/2009 1846 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.51	U	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.51	U	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	0.51	U	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	0.88	U	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/29/2009 1846

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5021.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	77	40 - 139
2-Fluorobiphenyl	74	50 - 113
2-Fluorophenol	76	36 - 110
Nitrobenzene-d5	82	45 - 112
Phenol-d5	75	38 - 116
Terphenyl-d14	74	10 - 121

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6 | Date Sampled: 06/16/2009 1530
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5022.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/29/2009 1910 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	3.0	J	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	0.57	U	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	0.51	U	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	0.51	U	0.51	10
Benzo[b]fluoranthene	0.68	U	0.68	10
Benzo[g,h,i]perylene	0.68	U	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6 | Date Sampled: 06/16/2009 1530
Client Matrix: Water | Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141696 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5022.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/29/2009 1910 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.51	U	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.51	U	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	1.7	J	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	0.88	U	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/29/2009 1910

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141696

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5022.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	80	40 - 139
2-Fluorobiphenyl	77	50 - 113
2-Fluorophenol	79	36 - 110
Nitrobenzene-d5	86	45 - 112
Phenol-d5	77	38 - 116
Terphenyl-d14	72	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1
Client Matrix: Water

Date Sampled: 06/16/2009 0825
Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/25/2009 1909
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25021.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U Q	0.50	5.0

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	55	35 - 120
DCB Decachlorobiphenyl	36	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2

Client Matrix: Water

Date Sampled: 06/16/2009 1045

Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1929

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25022.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	71	35 - 120
DCB Decachlorobiphenyl	88	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1948

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25023.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	70	35 - 120
DCB Decachlorobiphenyl	68	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4
Client Matrix: Water

Date Sampled: 06/16/2009 1415
Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 0000
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141459
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25036.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	55	35 - 120
DCB Decachlorobiphenyl	27	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0020

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141459

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25037.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U	0.50	5.0

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	66	35 - 120
DCB Decachlorobiphenyl	49	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0039

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141459

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25038.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U	0.50	5.0

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	51	35 - 120
DCB Decachlorobiphenyl	41	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1

Client Matrix: Water

Date Sampled: 06/16/2009 0825

Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0151

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25042.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U Q	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	92	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2
Client Matrix: Water

Date Sampled: 06/16/2009 1045
Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 0216
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25043.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	74	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0241

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25044.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	73	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4

Client Matrix: Water

Date Sampled: 06/16/2009 1415

Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0509

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141468

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25050.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	68	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0534

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141468

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25051.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U Q	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	78	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0558

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141468

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25052.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U Q	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	83	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1

Client Matrix: Water

Date Sampled: 06/16/2009 0825

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2013

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22017.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	88	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2

Client Matrix: Water

Date Sampled: 06/16/2009 1045

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2031

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22018.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	97	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3

Client Matrix: Water

Date Sampled: 06/16/2009 1315

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2050

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22019.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	101	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4

Client Matrix: Water

Date Sampled: 06/16/2009 1415

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2109

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22020.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	80	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5

Client Matrix: Water

Date Sampled: 06/16/2009 1500

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2128

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22021.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	99	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6

Client Matrix: Water

Date Sampled: 06/16/2009 1530

Date Received: 06/17/2009 1250

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 2146

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22022.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	86	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1
Client Matrix: Water

Date Sampled: 06/16/2009 0825
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1626
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	8.6		0.40	1.0
Barium	46		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.62	J	0.16	1.0
Cobalt	1.0		0.078	0.23
Copper	0.76	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.87		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.45	J	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	22		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1930
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2
Client Matrix: Water

Date Sampled: 06/16/2009 1045
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1632
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.0
Barium	9.0		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.17	J	0.16	1.0
Cobalt	0.11	J	0.078	0.23
Copper	0.50	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.36	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	14		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1933
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3
Client Matrix: Water

Date Sampled: 06/16/2009 1315
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1639
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.0
Barium	7.0		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.16	U	0.16	1.0
Cobalt	0.13	J	0.078	0.23
Copper	1.2		0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.35	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	18		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1936
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4
Client Matrix: Water

Date Sampled: 06/16/2009 1415
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1646
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	3.1		0.40	1.0
Barium	170		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.22	J	0.16	1.0
Cobalt	2.0		0.078	0.23
Copper	0.39	J	0.21	1.0
Lead	0.14	J	0.080	0.30
Nickel	0.59	J	0.20	0.60
Selenium	0.25	J	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.9	J	1.4	5.9
Zinc	28		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1939
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5
Client Matrix: Water

Date Sampled: 06/16/2009 1500
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1653
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.53	J	0.40	1.0
Barium	23		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.36	J	0.16	1.0
Cobalt	0.26		0.078	0.23
Copper	0.51	J	0.21	1.0
Lead	0.19	J	0.080	0.30
Nickel	0.60		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	12		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1941
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6
Client Matrix: Water

Date Sampled: 06/16/2009 1530
Date Received: 06/17/2009 1250

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1659
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	6.6		0.40	1.2
Barium	26		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.16	J	0.16	1.0
Cobalt	0.19	J	0.078	0.23
Copper	0.39	J	0.21	1.0
Lead	0.12	J	0.080	0.30
Nickel	0.54	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	20		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1949
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

General Chemistry

Client Sample ID: **SLMW-9-06-09**

Lab Sample ID: 680-48237-1
Client Matrix: Water

Date Sampled: 06/16/2009 0825
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.10	U	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2057			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SLMW-13-06-09**

Lab Sample ID: 680-48237-2
Client Matrix: Water

Date Sampled: 06/16/2009 1045
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.42	J	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2122			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

General Chemistry

Client Sample ID: **SLMW-6-06-09**

Lab Sample ID: 680-48237-3
Client Matrix: Water

Date Sampled: 06/16/2009 1315
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.20	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2134			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SLMW-10-9-06-09**

Lab Sample ID: 680-48237-4
Client Matrix: Water

Date Sampled: 06/16/2009 1415
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.10	U	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2211			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

General Chemistry

Client Sample ID: **SW-2-06-09**

Lab Sample ID: 680-48237-5
Client Matrix: Water

Date Sampled: 06/16/2009 1500
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.88		mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2236			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SW-1-06-09**

Lab Sample ID: 680-48237-6
Client Matrix: Water

Date Sampled: 06/16/2009 1530
Date Received: 06/17/2009 1250

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.10	U	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140711	Date Analyzed		06/17/2009 2326			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

DATA REPORTING QUALIFIERS

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
GC Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
General Chemistry		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-141053

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-141053/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1227
Date Prepared: 06/22/2009 1227

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq222.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-141053

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-141053/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1227
Date Prepared: 06/22/2009 1227

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq222.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	75 - 120
Dibromofluoromethane	100	75 - 121
Toluene-d8 (Surr)	102	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141053

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-141053/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1028
Date Prepared: 06/22/2009 1028

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq214.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-141053/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1058
Date Prepared: 06/22/2009 1058

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq216.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	105	100	81 - 128	5	30		
1,1,1-Trichloroethane	101	99	76 - 127	2	30		
1,1,2,2-Tetrachloroethane	95	92	69 - 129	3	30		
1,1,2-Trichloroethane	96	97	75 - 121	0	30		
1,1-Dichloroethane	104	101	74 - 127	2	30		
1,1-Dichloroethene	107	103	62 - 141	4	30		
1,1-Dichloropropene	102	102	77 - 122	1	30		
1,2,3-Trichloropropane	91	89	70 - 130	1	30		
1,2,4-Trichlorobenzene	92	93	60 - 135	0	30		
1,2-Dibromo-3-Chloropropane	83	85	49 - 140	3	30		
1,2-Dichlorobenzene	91	88	79 - 124	3	30		
1,2-Dichloroethane	90	92	66 - 132	2	30		
1,2-Dichloropropane	94	96	73 - 124	1	30		
1,3-Dichlorobenzene	92	92	78 - 125	0	30		
1,3-Dichloropropane	95	96	75 - 120	2	30		
1,4-Dichlorobenzene	93	91	81 - 122	3	30		
2,2-Dichloropropane	118	113	55 - 157	4	30		
2-Butanone (MEK)	94	92	33 - 157	2	30		
2-Hexanone	91	90	34 - 161	2	30		
4-Methyl-2-pentanone (MIBK)	90	90	40 - 151	1	30		
Acetone	93	92	17 - 175	1	50		
Benzene	100	100	77 - 119	0	30		
Bromoform	100	98	62 - 133	2	30		
Bromomethane	94	93	12 - 184	1	50		
Carbon disulfide	107	106	55 - 131	0	30		
Carbon tetrachloride	110	109	71 - 135	1	30		
Chlorobenzene	95	93	85 - 116	2	30		
Chlorobromomethane	87	88	10 - 150	1	30		
Chlorodibromomethane	99	98	75 - 133	1	30		
Chloroethane	90	91	40 - 165	1	50		
Chloroform	102	98	82 - 120	4	30		
Chloromethane	107	106	48 - 142	1	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141053

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-141053/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1028
Date Prepared: 06/22/2009 1028

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq214.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-141053/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1058
Date Prepared: 06/22/2009 1058

Analysis Batch: 680-141053
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq216.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	104	103	69 - 134	1	30		
cis-1,3-Dichloropropene	101	99	76 - 126	2	30		
Dibromomethane	90	92	78 - 119	2	30		
Dichlorobromomethane	101	99	78 - 127	2	30		
Dichlorodifluoromethane	124	122	34 - 154	1	30		
Ethylbenzene	99	96	86 - 116	4	30		
Ethylene Dibromide	96	94	80 - 121	2	30		
Methylene Chloride	106	103	70 - 125	2	30		
Styrene	92	93	82 - 122	1	30		
Tetrachloroethene	97	96	76 - 126	2	30		
Toluene	100	101	81 - 117	1	30		
trans-1,2-Dichloroethene	105	102	72 - 131	3	30		
trans-1,3-Dichloropropene	100	99	73 - 128	1	30		
Trichloroethene	98	96	84 - 115	2	30		
Trichlorofluoromethane	99	97	58 - 149	2	50		
Vinyl acetate	104	102	10 - 217	2	30		
Vinyl chloride	109	109	59 - 144	0	50		
Xylenes, Total	99	96	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	95	75 - 120
Dibromofluoromethane	96	96	75 - 121
Toluene-d8 (Surr)	99	99	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-141154

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-141154/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1338
Date Prepared: 06/23/2009 1338

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq237.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-141154

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-141154/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1338
Date Prepared: 06/23/2009 1338

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq237.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	88	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	105	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141154

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-141154/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1040
Date Prepared: 06/23/2009 1040

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq227.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-141154/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1208
Date Prepared: 06/23/2009 1208

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq231.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	101	107	81 - 128	6	30		
1,1,1-Trichloroethane	98	106	76 - 127	8	30		
1,1,2,2-Tetrachloroethane	91	96	69 - 129	5	30		
1,1,2-Trichloroethane	94	102	75 - 121	8	30		
1,1-Dichloroethane	98	98	74 - 127	0	30		
1,1-Dichloroethene	103	98	62 - 141	6	30		
1,1-Dichloropropene	96	101	77 - 122	5	30		
1,2,3-Trichloropropane	85	87	70 - 130	2	30		
1,2,4-Trichlorobenzene	83	80	60 - 135	3	30		
1,2-Dibromo-3-Chloropropane	85	97	49 - 140	14	30		
1,2-Dichlorobenzene	86	86	79 - 124	0	30		
1,2-Dichloroethane	93	103	66 - 132	11	30		
1,2-Dichloropropane	97	104	73 - 124	7	30		
1,3-Dichlorobenzene	88	88	78 - 125	0	30		
1,3-Dichloropropane	95	102	75 - 120	7	30		
1,4-Dichlorobenzene	89	87	81 - 122	2	30		
2,2-Dichloropropane	114	109	55 - 157	4	30		
2-Butanone (MEK)	81	88	33 - 157	9	30		
2-Hexanone	83	91	34 - 161	9	30		
4-Methyl-2-pentanone (MIBK)	83	97	40 - 151	15	30		
Acetone	83	91	17 - 175	9	50		
Benzene	96	101	77 - 119	5	30		
Bromoform	95	113	62 - 133	18	30		
Bromomethane	131	114	12 - 184	14	50		
Carbon disulfide	101	97	55 - 131	4	30		
Carbon tetrachloride	107	123	71 - 135	14	30		
Chlorobenzene	91	93	85 - 116	3	30		
Chlorobromomethane	91	105	10 - 150	15	30		
Chlorodibromomethane	97	110	75 - 133	13	30		
Chloroethane	105	105	40 - 165	0	50		
Chloroform	98	98	82 - 120	1	30		
Chloromethane	99	100	48 - 142	1	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141154

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-141154/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1040
Date Prepared: 06/23/2009 1040

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq227.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-141154/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/23/2009 1208
Date Prepared: 06/23/2009 1208

Analysis Batch: 680-141154
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P
Lab File ID: pq231.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	100	98	69 - 134	1	30		
cis-1,3-Dichloropropene	97	109	76 - 126	12	30		
Dibromomethane	92	103	78 - 119	11	30		
Dichlorobromomethane	99	111	78 - 127	11	30		
Dichlorodifluoromethane	111	109	34 - 154	1	30		
Ethylbenzene	96	94	86 - 116	3	30		
Ethylene Dibromide	90	100	80 - 121	11	30		
Methylene Chloride	106	106	70 - 125	0	30		
Styrene	94	93	82 - 122	1	30		
Tetrachloroethene	93	90	76 - 126	3	30		
Toluene	97	99	81 - 117	2	30		
trans-1,2-Dichloroethene	101	97	72 - 131	3	30		
trans-1,3-Dichloropropene	96	110	73 - 128	13	30		
Trichloroethene	96	99	84 - 115	3	30		
Trichlorofluoromethane	105	100	58 - 149	5	50		
Vinyl acetate	95	99	10 - 217	5	30		
Vinyl chloride	102	97	59 - 144	4	50		
Xylenes, Total	94	92	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	91	90	75 - 120
Dibromofluoromethane	97	96	75 - 121
Toluene-d8 (Surr)	98	104	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-140820/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 1944
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5980.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.51	U	0.51	10
1,3,5-Trinitrobenzene	5.0	U	5.0	15
1,3-Dinitrobenzene	0.57	U	0.57	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.50	U	0.50	10
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	10
2,4,5-Trichlorophenol	0.80	U	0.80	10
2,4,6-Trichlorophenol	0.50	U	0.50	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	50
2,4-Dinitrotoluene	0.50	U	0.50	10
2,6-Dichlorophenol	0.50	U	0.50	10
2,6-Dinitrotoluene	0.50	U	0.50	10
2-Acetylaminofluorene	0.82	J	0.56	10
2-Chloronaphthalene	0.50	U	0.50	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.50	U	0.50	10
2-Methylphenol	0.64	U	0.64	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.0	U	5.0	50
2-Nitrophenol	5.0	U	5.0	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.2	U	3.2	20
3,3'-Dimethylbenzidine	0.50	U	0.50	20
3-Methylcholanthrene	1.4	J	0.50	10
3-Nitroaniline	2.8	U	2.8	50
4,6-Dinitro-2-methylphenol	5.0	U	5.0	50
4-Aminobiphenyl	0.50	U	0.50	10
4-Bromophenyl phenyl ether	0.50	U	0.50	10
4-Chloro-3-methylphenol	0.52	U	0.52	10
4-Chloroaniline	4.8	U	4.8	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	50
4-Nitrophenol	10	U	10	50
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.50	U	0.50	10
Acenaphthylene	0.50	U	0.50	10
Acetophenone	0.50	U	0.50	10
Anthracene	0.50	U	0.50	10
Benzo[a]anthracene	0.50	U	0.50	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-140820/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 1944
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5980.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
Benzo[a]pyrene	1.6	J	0.50	10
Benzo[b]fluoranthene	1.3	J	0.67	10
Benzo[g,h,i]perylene	1.7	J	0.67	10
Benzo[k]fluoranthene	1.2	J	0.50	10
Benzyl alcohol	0.80	U	0.80	10
Bis(2-chloroethoxy)methane	0.50	U	0.50	10
Bis(2-chloroethyl)ether	0.59	U	0.59	10
Bis(2-ethylhexyl) phthalate	0.94	U	0.94	10
bis(chloroisopropyl) ether	0.50	U	0.50	10
Butyl benzyl phthalate	0.74	U	0.74	10
Chrysene	0.50	U	0.50	10
Diallate	0.35	U	0.35	10
Dibenz(a,h)anthracene	1.7	J	0.50	10
Dibenzofuran	0.50	U	0.50	10
Diethyl phthalate	0.50	U	0.50	10
Dimethoate	0.63	U	0.63	10
Dimethyl phthalate	5.0	U	5.0	15
Di-n-butyl phthalate	0.50	U	0.50	10
Di-n-octyl phthalate	0.76	U	0.76	10
Disulfoton	0.95	U	0.95	10
Ethyl methanesulfonate	0.56	U	0.56	10
Ethyl Parathion	0.82	U	0.82	10
Famphur	0.55	U	0.55	10
Fluoranthene	0.50	U	0.50	10
Fluorene	0.50	U	0.50	10
Hexachlorobenzene	0.50	U	0.50	10
Hexachlorobutadiene	5.0	U	5.0	15
Hexachlorocyclopentadiene	5.0	U	5.0	15
Hexachloroethane	0.50	U	0.50	10
Hexachloropropene	0.50	U	0.50	10
Indeno[1,2,3-cd]pyrene	1.7	J	0.86	10
Isophorone	0.50	U	0.50	10
Isosafrole	0.31	U	0.31	10
Methapyrilene	5.0	U	5.0	2000
Methyl methanesulfonate	0.50	U	0.50	10
Methyl parathion	0.75	U	0.75	10
Naphthalene	0.50	U	0.50	10
Nitrobenzene	0.50	U	0.50	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.50	U	0.50	10
N-Nitrosodimethylamine	1.2	U	1.2	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 680-140820/14-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 1944
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5980.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.50	U	0.50	10
N-Nitrosodiphenylamine	0.73	U	0.73	10
N-Nitrosomethylethylamine	5.0	U	5.0	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10
o,o',o''-Triethylphosphorothioate	0.79	U	0.79	10
o-Toluidine	0.50	U	0.50	10
p-Dimethylamino azobenzene	0.60	U	0.60	10
Pentachlorobenzene	0.57	U	0.57	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.0	U	5.0	50
Phenacetin	0.50	U	0.50	10
Phenanthrene	0.50	U	0.50	10
Phenol	0.50	U	0.50	10
Phorate	0.82	U	0.82	10
p-Phenylene diamine	10	U	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.50	U	0.50	10
Safrole	0.50	U	0.50	10
Sulfotepp	0.50	U	0.50	10
Thionazin	0.50	U	0.50	10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	82	40 - 139
2-Fluorobiphenyl	78	50 - 113
2-Fluorophenol	78	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	74	38 - 116
Terphenyl-d14	92	10 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-140820/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 2008
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5981.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4,5-Tetrachlorobenzene	100	84.7	85	41 - 130	
1,3,5-Trinitrobenzene	100	86.2	86	10 - 200	
1,3-Dinitrobenzene	100	94.8	95	53 - 136	
1,4-Naphthoquinone	100	11.5	12	10 - 130	
1-Naphthylamine	100	8.44	8	10 - 130	J Q
2,3,4,6-Tetrachlorophenol	100	87.2	87	38 - 130	
2,4,5-Trichlorophenol	100	82.1	82	47 - 122	
2,4,6-Trichlorophenol	100	84.2	84	46 - 120	
2,4-Dichlorophenol	100	79.4	79	46 - 115	
2,4-Dimethylphenol	200	164	82	36 - 110	
2,4-Dinitrophenol	100	97.3	97	10 - 189	
2,4-Dinitrotoluene	100	82.9	83	49 - 128	
2,6-Dichlorophenol	100	82.5	82	46 - 130	
2,6-Dinitrotoluene	100	85.4	85	45 - 131	
2-Acetylaminofluorene	100	87.6	88	69 - 123	
2-Chloronaphthalene	100	85.2	85	47 - 110	
2-Chlorophenol	100	77.2	77	47 - 110	
2-Methylnaphthalene	100	77.9	78	46 - 110	
2-Methylphenol	100	79.4	79	46 - 110	
2-Naphthylamine	100	66.1	66	10 - 130	
2-Nitroaniline	100	78.4	78	45 - 122	
2-Nitrophenol	100	79.4	79	42 - 120	
3 & 4 Methylphenol	100	77.3	77	43 - 110	
3,3'-Dichlorobenzidine	100	90.2	90	10 - 113	
3,3'-Dimethylbenzidine	100	45.1	45	10 - 130	
3-Methylcholanthrene	100	82.6	83	62 - 130	
3-Nitroaniline	100	74.0	74	30 - 116	
4,6-Dinitro-2-methylphenol	100	83.1	83	29 - 167	
4-Aminobiphenyl	100	40.8	41	10 - 130	
4-Bromophenyl phenyl ether	100	92.6	93	42 - 110	
4-Chloro-3-methylphenol	100	80.1	80	46 - 118	
4-Chloroaniline	100	76.5	76	10 - 110	
4-Chlorophenyl phenyl ether	100	98.9	99	46 - 114	
4-Nitroaniline	100	69.9	70	36 - 125	
4-Nitrophenol	100	72.2	72	30 - 122	
7,12-Dimethylbenz(a)anthracene	100	63.9	64	39 - 130	
Acenaphthene	100	85.1	85	45 - 117	
Acenaphthylene	100	86.1	86	51 - 112	
Acetophenone	100	85.5	86	25 - 110	
Anthracene	100	83.4	83	52 - 116	
Benzo[a]anthracene	100	88.3	88	49 - 124	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-140820/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 2008
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5981.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzo[a]pyrene	100	98.7	99	48 - 120	
Benzo[b]fluoranthene	100	102	102	46 - 126	
Benzo[g,h,i]perylene	100	84.0	84	51 - 117	
Benzo[k]fluoranthene	100	74.8	75	47 - 126	
Benzyl alcohol	100	80.1	80	34 - 113	
Bis(2-chloroethoxy)methane	100	117	117	50 - 112	Q
Bis(2-chloroethyl)ether	100	85.0	85	43 - 110	
Bis(2-ethylhexyl) phthalate	100	104	104	47 - 134	
bis(chloroisopropyl) ether	100	85.3	85	42 - 110	
Butyl benzyl phthalate	100	107	107	52 - 135	
Chrysene	100	88.8	89	51 - 123	
Diallate	100	101	101	36 - 145	
Dibenz(a,h)anthracene	100	84.3	84	46 - 124	
Dibenzofuran	100	81.3	81	50 - 112	
Diethyl phthalate	100	92.4	92	51 - 119	
Dimethoate	100	96.3	96	28 - 142	
Dimethyl phthalate	100	94.4	94	50 - 116	
Di-n-butyl phthalate	100	94.7	95	49 - 123	
Di-n-octyl phthalate	100	93.0	93	44 - 134	
Disulfoton	100	89.3	89	40 - 130	
Ethyl methanesulfonate	100	70.3	70	32 - 130	
Ethyl Parathion	100	105	105	60 - 140	
Famphur	100	2.79	3	10 - 130	J Q
Fluoranthene	100	82.8	83	50 - 120	
Fluorene	100	84.5	85	50 - 115	
Hexachlorobenzene	100	86.6	87	48 - 119	
Hexachlorobutadiene	100	75.7	76	40 - 110	
Hexachlorocyclopentadiene	100	39.7	40	10 - 110	
Hexachloroethane	100	61.5	61	33 - 110	
Hexachloropropene	100	50.2	50	10 - 130	
Indeno[1,2,3-cd]pyrene	100	84.6	85	40 - 126	
Isophorone	100	74.7	75	50 - 111	
Isosafrole	100	83.9	84	37 - 130	
Methapyrilene	100	61.7	62	10 - 130	J
Methyl methanesulfonate	100	3.70	4	10 - 130	J Q
Methyl parathion	100	91.0	91	51 - 146	
Naphthalene	100	76.0	76	41 - 110	
Nitrobenzene	100	74.1	74	46 - 110	
N-Nitro-o-toluidine	100	81.3	81	45 - 130	
N-Nitrosodiethylamine	100	84.4	84	48 - 130	
N-Nitrosodimethylamine	100	83.1	83	33 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-140820/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 2008
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141611
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5981.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodi-n-butylamine	100	109	109	41 - 130	
N-Nitrosodi-n-propylamine	100	91.1	91	45 - 112	
N-Nitrosodiphenylamine	100	101	101	47 - 119	
N-Nitrosomethylethylamine	100	97.4	97	47 - 130	
N-Nitrosopiperidine	100	85.7	86	53 - 130	
N-Nitrosopyrrolidine	100	86.3	86	50 - 130	
o,o',o''-Triethylphosphorothioate	100	191	191	23 - 162	Q
o-Toluidine	100	63.8	64	27 - 130	
p-Dimethylamino azobenzene	100	95.4	95	29 - 169	
Pentachlorobenzene	100	89.7	90	52 - 130	
Pentachloronitrobenzene	100	90.9	91	52 - 130	
Pentachlorophenol	100	103	103	37 - 132	
Phenacetin	100	83.4	83	62 - 130	
Phenanthrene	100	85.8	86	52 - 117	
Phenol	100	76.6	77	39 - 110	
Phorate	100	86.4	86	29 - 181	
p-Phenylene diamine	500	35.7	7	10 - 130	J Q
Pronamide	100	96.0	96	64 - 134	
Pyrene	100	92.6	93	52 - 125	
Safrole	100	86.9	87	39 - 130	
Sulfotepp	100	114	114	44 - 130	
Thionazin	100	112	112	48 - 135	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	89	40 - 139
2-Fluorobiphenyl	83	50 - 113
2-Fluorophenol	78	36 - 110
Nitrobenzene-d5	80	45 - 112
Phenol-d5	73	38 - 116
Terphenyl-d14	88	10 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-140966/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1454
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	67	35 - 120
DCB Decachlorobiphenyl	68	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-140966/18-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1513
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25009.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.200	0.150	75	37 - 179	M
4,4'-DDE	0.200	0.132	66	33 - 142	
4,4'-DDT	0.200	0.196	98	27 - 141	
Aldrin	0.100	0.0744	74	32 - 114	
alpha-BHC	0.100	0.0660	66	29 - 112	
beta-BHC	0.100	0.0726	73	15 - 204	J
delta-BHC	0.100	0.0919	92	25 - 123	
Dieldrin	0.200	0.168	84	45 - 137	
Endosulfan I	0.100	0.0799	80	31 - 134	
Endosulfan II	0.200	0.157	79	24 - 144	
Endosulfan sulfate	0.200	0.178	89	44 - 128	
Endrin	0.200	0.139	69	38 - 144	
Endrin aldehyde	0.201	0.221	110	37 - 135	
gamma-BHC (Lindane)	0.100	0.0695	70	31 - 118	
Heptachlor	0.100	0.0749	75	30 - 133	
Heptachlor epoxide	0.100	0.0855	85	34 - 126	
Methoxychlor	0.201	0.169	84	10 - 243	J

Lab Control Sample - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-140966/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1533
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25010.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	9.78	98	57 - 124	
PCB-1260	10.0	8.72	87	58 - 124	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	76	35 - 120
DCB Decachlorobiphenyl	87	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	58	73	35 - 120
DCB Decachlorobiphenyl	95	81	14 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID: LCS 680-140966/23-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2321
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141459
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25034.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-140966/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2341
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141459
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25035.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene	103	110	30 - 120	6	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	69	69	35 - 120
DCB Decachlorobiphenyl	80	63	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: MB 680-140966/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2004
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25028.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	60	36 - 184

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2029
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25029.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Azinphos-methyl	4.00	3.04	76	70 - 130	
Bolstar	4.00	3.94	99	70 - 130	
Chlorpyrifos	4.00	3.57	89	70 - 130	
Coumaphos	4.00	3.28	82	70 - 130	
Diazinon	4.00	3.70	92	41 - 173	M
Dichlorvos	4.00	3.09	77	70 - 130	J
Disulfoton	4.00	2.87	72	70 - 130	J M
Fensulfothion	4.00	5.0	87	70 - 130	U
Fenthion	4.00	3.17	79	70 - 130	
Merphos	4.00	1.5	20	70 - 130	U M Q
Methyl parathion	4.00	3.14	78	37 - 190	
Mevinphos	4.00	2.84	71	70 - 130	J
Ethoprop	4.00	3.35	84	70 - 130	
Naled	4.00	5.0	88	70 - 130	U M
Phorate	4.00	3.17	79	70 - 130	
Ronnel	4.00	3.67	92	10 - 191	
Tokuthion	4.00	3.37	84	70 - 130	
Trichloronate	4.00	3.83	96	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	72	36 - 184

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/28-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2054
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25030.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethoate	4.00	3.28	82	70 - 130	J M
EPN	4.00	3.61	90	70 - 130	
Famphur	4.00	2.99	75	70 - 130	J
Malathion	4.00	3.53	88	70 - 130	
Monochrotophos	40.0	12.4	31	30 - 130	J M
Ethyl Parathion	4.00	3.57	89	55 - 166	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/28-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2054
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25030.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfotepp	4.00	3.22	81	70 - 130	M
Thionazin	4.00	2.59	65	23 - 186	J

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	74	36 - 184

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140813

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 680-140813/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1706
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	94	61 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140813

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 680-140813/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1724
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-140813/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1743
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22009.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-D	105	107	61 - 127	2	40		
2,4,5-T	85	80	52 - 129	6	40		
Silvex (2,4,5-TP)	89	92	55 - 110	4	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	83	91	61 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140645

Method: 6020
Preparation: 3030C

Lab Sample ID: MB 680-140645/9-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/21/2009 1612
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.0
Barium	0.15	U	0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.16	U	0.16	1.0
Cobalt	0.078	U	0.078	0.23
Copper	0.21	U	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.20	U	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.44	J	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	2.6	U	2.6	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Lab Control Sample - Batch: 680-140645

Method: 6020
Preparation: 3030C

Lab Sample ID: LCS 680-140645/10-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 06/21/2009 1619
Date Prepared: 06/17/2009 1508

Analysis Batch: 680-141001
Prep Batch: 680-140645
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	49.0	98	75 - 125	
Arsenic	100	106	106	75 - 125	
Barium	100	106	106	75 - 125	
Beryllium	50.0	51.5	103	75 - 125	
Cadmium	50.0	53.2	106	75 - 125	
Chromium	100	99.2	99	75 - 125	
Cobalt	50.0	47.4	95	75 - 125	
Copper	100	104	104	75 - 125	
Lead	50.0	50.9	102	75 - 125	
Nickel	100	104	104	75 - 125	
Selenium	100	109	109	75 - 125	
Silver	50.0	48.9	98	75 - 125	
Thallium	40.0	43.1	108	75 - 125	
Tin	100	105	105	75 - 125	
Vanadium	100	99.4	99	75 - 125	
Zinc	100	109	109	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140645

Method: 6020
Preparation: 3030C

MS Lab Sample ID:	680-48237-6	Analysis Batch:	680-141001	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-140645	Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/21/2009 1733			Final Weight/Volume:	50 mL
Date Prepared:	06/17/2009 1508				

MSD Lab Sample ID:	680-48237-6	Analysis Batch:	680-141001	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-140645	Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/21/2009 1740			Final Weight/Volume:	50 mL
Date Prepared:	06/17/2009 1508				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	95	95	75 - 125	0	20		
Arsenic	105	104	75 - 125	1	20		
Barium	102	103	75 - 125	1	20		
Beryllium	101	102	75 - 125	1	20		
Cadmium	101	101	75 - 125	0	20		
Chromium	98	96	75 - 125	1	20		
Cobalt	93	93	75 - 125	0	20		
Copper	103	101	75 - 125	2	20		
Lead	96	95	75 - 125	2	20		
Nickel	102	101	75 - 125	1	20		
Selenium	102	102	75 - 125	0	20		
Silver	95	94	75 - 125	1	20		
Thallium	102	101	75 - 125	1	20		
Tin	101	103	75 - 125	2	20		
Vanadium	100	99	75 - 125	1	20		
Zinc	102	102	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140703

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 680-140703/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1855
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.091	U	0.091	0.27

Lab Control Sample - Batch: 680-140703

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 680-140703/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1858
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703
Units: ug/L

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.40	96	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140711

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 680-140711/2
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 06/17/2009 2032
Date Prepared: N/A

Analysis Batch: 680-140711
Prep Batch: N/A
Units: mg/L

Instrument ID: ICCS200 - G
Lab File ID: 0047.d
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Nitrate as NO3	0.10	U	0.10	0.50

Lab Control Sample - Batch: 680-140711

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 680-140711/3
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 06/17/2009 2044
Date Prepared: N/A

Analysis Batch: 680-140711
Prep Batch: N/A
Units: mg/L

Instrument ID: ICCS200 - G
Lab File ID: 0048.d
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as NO3	5.00	4.68	94	90 - 110	

Matrix Spike - Batch: 680-140711

Method: 300.0
Preparation: N/A

Lab Sample ID: 680-48237-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 06/17/2009 2109
Date Prepared: N/A

Analysis Batch: 680-140711
Prep Batch: N/A
Units: mg/L

Instrument ID: ICCS200 - G
Lab File ID: 0050.d
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL
1 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as NO3	0.10	U	5.00	4.75	95	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-141175

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: MB 680-141175/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.0025	U	0.0025	0.010

Lab Control Sample - Batch: 680-141175

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: LCS 680-141175/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0301	0.0310	103	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48237-1

Method Blank - Batch: 680-140692

Method: 9034
Preparation: 9030B

Lab Sample ID: MB 680-140692/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/18/2009 1525
Date Prepared: 06/18/2009 0832

Analysis Batch: 680-140778
Prep Batch: 680-140692
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	RL	RL
Sulfide	1.0	U	1.0	1.0

Lab Control Sample - Batch: 680-140692

Method: 9034
Preparation: 9030B

Lab Sample ID: LCS 680-140692/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/18/2009 1525
Date Prepared: 06/18/2009 0832

Analysis Batch: 680-140778
Prep Batch: 680-140692
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	9.89	8.11	82	50 - 150	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica INCORPORATED

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: USACE Client #: _____
Address: 100 W Oglethorpe Ave
City/State/Zip Code: Savannah GA 31401
Project Manager: Kevin Haborak
Telephone Number: 912 652 6083 Fax: _____
Sampler Name: (Print Name) Kevin Haborak
Sampler Signature: [signature]

Project Name: Longstreet LF
Project #: _____
Site/Location ID: Fayetteville State: NC
Report To: Kevin Haborak
Invoice To: Judson Smith
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y (N)

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	8270 SVOC	8141 Organophosphorus	8081 Pest	8082 PCB	Nitrate	App II metals 3005	App II VOC 8260	Sulfide	Cyanide		REMARKS
SLMW-9-06-09	6/16/09	0825	G	N	GW	1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		Nitrate
SLMW-13-06-09	6/16/09	1095				1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		Unpreserved
SLMW-6-06-09	6/16/09	1315				1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		
SLMW-10-9-06-09	6/16/09	1915				1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		
SW-2-06-09	6/16/09	1500				1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		
SW-1-06-09	6/16/09	1530				1	3	1	-	-	6	1	X	X	X	X	X	X	X	X	X		
Trip Blank	—	—					3												X				

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____

REMARKS: 680-48237

Special Instructions: Email Results to Kevin.Haborak@USACE.ARMY.MIL

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.6/3.2/3.4/3.2
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Relinquished By	Date	Time	Received By	Date	Time
[signature]	6/17/09	1250	[signature]	6/17/09	1250
			Beth A Daugherty	6/17/09	1250

ANALYTICAL REPORT

Job Number: 680-48180-1

Job Description: Longstreet LF

For:
U.S. Army Corps of Engineers
PO BOX 889
Savannah, GA 31402-0889

Attention: Mr. Kevin Haborak

Approved for release.
Terry Hornsby
Project Manager I
7/2/2009 1:59 PM

Terry Hornsby
Project Manager I
terry.hornsby@testamericainc.com
07/02/2009

cc: Mr. Judson Smith

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-J48180-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C: The matrix spike/matrix spike duplicate (MS/MSD) for batch 140820 exceeded control limits for the following analytes: famphur, 1-naphthylamine, methylmethansulfonate, p-phenylemediamine, and p-phenylene diamine. These analytes have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8270C: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 4 analytes to recover outside criteria for this method when a full list spike is utilized. The MS/MSD associated with batch 140820 had 2 analytes outside control limits. The associated laboratory control sample (LCS) met criteria for these analytes; therefore, re-extraction/re-analysis was not performed.

Method 8270C: The laboratory control sample (LCS) for preparation batch 140820 exceeded control limits for the following analytes:000 triethylphosphorothioate and bis(2-chloroethoxy)methane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 140820 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8141A: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for one analyte to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 680-140966 had one analyte outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8141A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-140966 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria. There was insufficient sample to re-extract the matrix spike/matrix spike duplicate.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

METHOD / ANALYST SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method	Analyst	Analyst ID
SW846 8260B	Lanier, Carolyn	CL
SW846 8270C	Davis, Nancy	ND
SW846 8081A_8082	Kellar, Joshua	JK
SW846 8141A	Kellar, Joshua	JK
SW846 8151A	Kellar, Joshua	JK
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Reeves, Lorene	LR
MCAWW 300.0	Campbell, Sophia M	SMC
MCAWW 335.4	McDonald, Debbie	DM
SW846 9034	Vasquez, Juana	JV

SAMPLE SUMMARY

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-48180-1	SLMW-12BR-06-09	Water	06/15/2009 0800	06/16/2009 0907
680-48180-1MS	SLMW-12BR-11-09 MS	Water	06/15/2009 0800	06/16/2009 0907
680-48180-1MSD	SLMW-12BR-11-09 MSD	Water	06/15/2009 0800	06/16/2009 0907
680-48180-2	SLMW-12AR-06-09	Water	06/15/2009 0910	06/16/2009 0907
680-48180-3	SLMW-8-06-09	Water	06/15/2009 1215	06/16/2009 0907
680-48180-4	SLMW-7-06-09	Water	06/15/2009 1255	06/16/2009 0907
680-48180-5TB	TRIP BLANK	Water	06/15/2009 0000	06/16/2009 0907
680-48180-6FB	SLMW-BLANK	Water	06/15/2009 1305	06/16/2009 0907
680-48180-7FD	SLMW-Dup-1	Water	06/15/2009 0000	06/16/2009 0907
680-48180-8	SLMW-11R-06-09	Water	06/15/2009 1540	06/16/2009 0907

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/19/2009 1752
Date Prepared: 06/19/2009 1752

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A
Lab File ID: a4115.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/19/2009 1752
Date Prepared: 06/19/2009 1752

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A
Lab File ID: a4115.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/19/2009 1821
Date Prepared: 06/19/2009 1821

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A
Lab File ID: a4117.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2

Client Matrix: Water

Date Sampled: 06/15/2009 0910

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1821

Date Prepared: 06/19/2009 1821

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4117.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3
Client Matrix: Water

Date Sampled: 06/15/2009 1215
Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/19/2009 1850
Date Prepared: 06/19/2009 1850

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A
Lab File ID: a4119.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	5.2		0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.62	J	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	9.8	J	5.0	25
Acetonitrile	10	U	10	40
Benzene	3.6		0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	4.8		0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	9.1		1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	39		0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	1.9		0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3

Client Matrix: Water

Date Sampled: 06/15/2009 1215

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1850

Date Prepared: 06/19/2009 1850

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4119.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.80	J	0.15	1.0
Toluene	1.0		0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	1.3		0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	12		0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	75 - 120
Dibromofluoromethane	97	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1920

Date Prepared: 06/19/2009 1920

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4121.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	52		5.0	25
Acetonitrile	10	U	10	40
Benzene	0.73	J	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1920

Date Prepared: 06/19/2009 1920

Analysis Batch: 680-140897

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4121.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	75 - 120
Dibromofluoromethane	98	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 680-48180-5TB

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1905

Date Prepared: 06/19/2009 1905

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4120.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 680-48180-5TB

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1905

Date Prepared: 06/19/2009 1905

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4120.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	104	75 - 121
Toluene-d8 (Surr)	97	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1934

Date Prepared: 06/19/2009 1934

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4122.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1934

Date Prepared: 06/19/2009 1934

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4122.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	109	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1836

Date Prepared: 06/19/2009 1836

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4118.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/19/2009 1836

Date Prepared: 06/19/2009 1836

Analysis Batch: 680-140983

Instrument ID: GC/MS Volatiles - A C2

Lab File ID: a4118.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	75 - 120
Dibromofluoromethane	106	75 - 121
Toluene-d8 (Surr)	99	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/22/2009 1657

Date Prepared: 06/22/2009 1657

Analysis Batch: 680-141087

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4145.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	2.9		0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.48	J	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.59	J	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	1.3		0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	1.3		0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Preparation: 5030B

Dilution: 1.0

Date Analyzed: 06/22/2009 1657

Date Prepared: 06/22/2009 1657

Analysis Batch: 680-141087

Instrument ID: GC/MS Volatiles - A

Lab File ID: a4145.d

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	2.3		0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	1.5		0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	101	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 2032
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5982.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	1.0	J B	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	1.4	J B	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	1.6	J B	0.51	10
Benzo[b]fluoranthene	1.3	J B	0.68	10
Benzo[g,h,i]perylene	1.6	J B	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1 | Date Sampled: 06/15/2009 0800
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5982.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/26/2009 2032 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	1.2	J B	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	1.5	J B	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	0.51	U	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	1.8	J B	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 2032
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5982.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	74	40 - 139
2-Fluorobiphenyl	70	50 - 113
2-Fluorophenol	71	36 - 110
Nitrobenzene-d5	74	45 - 112
Phenol-d5	66	38 - 116
Terphenyl-d14	70	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 2055
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5983.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	0.57	U	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	0.56	J B	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	0.62	J B	0.51	10
Benzo[b]fluoranthene	0.68	U	0.68	10
Benzo[g,h,i]perylene	1.2	J B	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2 | Date Sampled: 06/15/2009 0910
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5983.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/26/2009 2055 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.51	U	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	1.1	J B	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	0.51	U	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	1.1	J B	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 2055
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5983.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	67	40 - 139
2-Fluorobiphenyl	64	50 - 113
2-Fluorophenol	67	36 - 110
Nitrobenzene-d5	69	45 - 112
Phenol-d5	62	38 - 116
Terphenyl-d14	86	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3
Client Matrix: Water

Date Sampled: 06/15/2009 1215
Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/26/2009 2119
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5984.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	0.57	U	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	0.51	U	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	0.51	U	0.51	10
Benzo[b]fluoranthene	0.68	U	0.68	10
Benzo[g,h,i]perylene	0.97	J B	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3 | Date Sampled: 06/15/2009 1215
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-141879	Instrument ID:	GC/MS SemiVolatiles - G	
Preparation:	3520C	Prep Batch: 680-140820	Lab File ID:	g5984.d	
Dilution:	1.0		Initial Weight/Volume:	980 mL	
Date Analyzed:	06/26/2009 2119		Final Weight/Volume:	1 mL	
Date Prepared:	06/19/2009 1321		Injection Volume:	1.0 uL	

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.51	U	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.77	J B	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	0.51	U	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	0.88	U	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3

Client Matrix: Water

Date Sampled: 06/15/2009 1215

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2119

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5984.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	78	40 - 139
2-Fluorobiphenyl	70	50 - 113
2-Fluorophenol	68	36 - 110
Nitrobenzene-d5	72	45 - 112
Phenol-d5	65	38 - 116
Terphenyl-d14	85	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2143

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5985.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.51	U	0.51	10
1,3,5-Trinitrobenzene	5.0	U	5.0	15
1,3-Dinitrobenzene	0.57	U	0.57	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.50	U Q	0.50	10
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	10
2,4,5-Trichlorophenol	0.80	U	0.80	10
2,4,6-Trichlorophenol	0.50	U	0.50	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	50
2,4-Dinitrotoluene	0.50	U	0.50	10
2,6-Dichlorophenol	0.50	U	0.50	10
2,6-Dinitrotoluene	0.50	U	0.50	10
2-Acetylaminofluorene	0.56	U	0.56	10
2-Chloronaphthalene	0.50	U	0.50	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.50	U	0.50	10
2-Methylphenol	0.64	U	0.64	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.0	U	5.0	50
2-Nitrophenol	5.0	U	5.0	15
3 & 4 Methylphenol	12		1.0	10
3,3'-Dichlorobenzidine	3.2	U	3.2	20
3,3'-Dimethylbenzidine	0.50	U	0.50	20
3-Methylcholanthrene	0.50	U	0.50	10
3-Nitroaniline	2.8	U	2.8	50
4,6-Dinitro-2-methylphenol	5.0	U	5.0	50
4-Aminobiphenyl	0.50	U	0.50	10
4-Bromophenyl phenyl ether	0.50	U	0.50	10
4-Chloro-3-methylphenol	0.52	U	0.52	10
4-Chloroaniline	4.8	U	4.8	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	50
4-Nitrophenol	10	U	10	50
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.50	U	0.50	10
Acenaphthylene	0.50	U	0.50	10
Acetophenone	0.50	U	0.50	10
Anthracene	0.50	U	0.50	10
Benzo[a]anthracene	0.50	U	0.50	10
Benzo[a]pyrene	0.50	U	0.50	10
Benzo[b]fluoranthene	0.67	U	0.67	10
Benzo[g,h,i]perylene	0.72	J B	0.67	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4 | Date Sampled: 06/15/2009 1255
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5985.d
Dilution: 1.0 | Initial Weight/Volume: 1000 mL
Date Analyzed: 06/26/2009 2143 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.50	U	0.50	10
Benzyl alcohol	0.80	U	0.80	10
Bis(2-chloroethoxy)methane	0.50	U Q	0.50	10
Bis(2-chloroethyl)ether	0.59	U	0.59	10
Bis(2-ethylhexyl) phthalate	0.94	U	0.94	10
bis(chloroisopropyl) ether	0.50	U	0.50	10
Butyl benzyl phthalate	0.74	U	0.74	10
Chrysene	0.50	U	0.50	10
Diallate	0.35	U	0.35	10
Dibenz(a,h)anthracene	0.63	J B	0.50	10
Dibenzofuran	0.50	U	0.50	10
Diethyl phthalate	0.50	U	0.50	10
Dimethoate	0.63	U	0.63	10
Dimethyl phthalate	5.0	U	5.0	15
Di-n-butyl phthalate	0.50	U	0.50	10
Di-n-octyl phthalate	0.76	U	0.76	10
Disulfoton	0.95	U	0.95	10
Ethyl methanesulfonate	0.56	U	0.56	10
Ethyl Parathion	0.82	U	0.82	10
Famphur	0.55	U Q	0.55	10
Fluoranthene	0.50	U	0.50	10
Fluorene	0.50	U	0.50	10
Hexachlorobenzene	0.50	U	0.50	10
Hexachlorobutadiene	5.0	U	5.0	15
Hexachlorocyclopentadiene	5.0	U	5.0	15
Hexachloroethane	0.50	U	0.50	10
Hexachloropropene	0.50	U	0.50	10
Indeno[1,2,3-cd]pyrene	0.86	U	0.86	10
Isophorone	0.50	U	0.50	10
Isosafrole	0.31	U	0.31	10
Methapyrilene	5.0	U	5.0	2000
Methyl methanesulfonate	0.50	U Q	0.50	10
Methyl parathion	0.75	U	0.75	10
Naphthalene	0.50	U	0.50	10
Nitrobenzene	0.50	U	0.50	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.50	U	0.50	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.50	U	0.50	10
N-Nitrosodiphenylamine	0.73	U	0.73	10
N-Nitrosomethylethylamine	5.0	U	5.0	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2143

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5985.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.79	U Q	0.79	10
o-Toluidine	0.50	U	0.50	10
p-Dimethylamino azobenzene	0.60	U	0.60	10
Pentachlorobenzene	0.57	U	0.57	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.0	U	5.0	50
Phenacetin	0.50	U	0.50	10
Phenanthrene	0.50	U	0.50	10
Phenol	1.7	J	0.50	10
Phorate	0.82	U	0.82	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.50	U	0.50	10
Safrole	0.50	U	0.50	10
Sulfotepp	0.50	U	0.50	10
Thionazin	0.50	U	0.50	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	61	40 - 139
2-Fluorobiphenyl	53	50 - 113
2-Fluorophenol	53	36 - 110
Nitrobenzene-d5	57	45 - 112
Phenol-d5	50	38 - 116
Terphenyl-d14	39	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2207

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5986.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.51	U	0.51	10
1,3,5-Trinitrobenzene	5.0	U	5.0	15
1,3-Dinitrobenzene	0.57	U	0.57	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.50	U Q	0.50	10
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	10
2,4,5-Trichlorophenol	0.80	U	0.80	10
2,4,6-Trichlorophenol	0.50	U	0.50	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	50
2,4-Dinitrotoluene	0.50	U	0.50	10
2,6-Dichlorophenol	0.50	U	0.50	10
2,6-Dinitrotoluene	0.50	U	0.50	10
2-Acetylaminofluorene	0.56	U	0.56	10
2-Chloronaphthalene	0.50	U	0.50	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.50	U	0.50	10
2-Methylphenol	0.64	U	0.64	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.0	U	5.0	50
2-Nitrophenol	5.0	U	5.0	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.2	U	3.2	20
3,3'-Dimethylbenzidine	0.50	U	0.50	20
3-Methylcholanthrene	0.50	U	0.50	10
3-Nitroaniline	2.8	U	2.8	50
4,6-Dinitro-2-methylphenol	5.0	U	5.0	50
4-Aminobiphenyl	0.50	U	0.50	10
4-Bromophenyl phenyl ether	0.50	U	0.50	10
4-Chloro-3-methylphenol	0.52	U	0.52	10
4-Chloroaniline	4.8	U	4.8	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	50
4-Nitrophenol	10	U	10	50
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.50	U	0.50	10
Acenaphthylene	0.50	U	0.50	10
Acetophenone	0.50	U	0.50	10
Anthracene	0.50	U	0.50	10
Benzo[a]anthracene	0.50	U	0.50	10
Benzo[a]pyrene	0.50	U	0.50	10
Benzo[b]fluoranthene	0.67	U	0.67	10
Benzo[g,h,i]perylene	0.67	U	0.67	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB | Date Sampled: 06/15/2009 1305
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5986.d
Dilution: 1.0 | Initial Weight/Volume: 1000 mL
Date Analyzed: 06/26/2009 2207 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.50	U	0.50	10
Benzyl alcohol	0.80	U	0.80	10
Bis(2-chloroethoxy)methane	0.50	U Q	0.50	10
Bis(2-chloroethyl)ether	0.59	U	0.59	10
Bis(2-ethylhexyl) phthalate	0.94	U	0.94	10
bis(chloroisopropyl) ether	0.50	U	0.50	10
Butyl benzyl phthalate	0.74	U	0.74	10
Chrysene	0.50	U	0.50	10
Diallate	0.35	U	0.35	10
Dibenz(a,h)anthracene	0.50	U	0.50	10
Dibenzofuran	0.50	U	0.50	10
Diethyl phthalate	0.50	U	0.50	10
Dimethoate	0.63	U	0.63	10
Dimethyl phthalate	5.0	U	5.0	15
Di-n-butyl phthalate	0.50	U	0.50	10
Di-n-octyl phthalate	0.76	U	0.76	10
Disulfoton	0.95	U	0.95	10
Ethyl methanesulfonate	0.56	U	0.56	10
Ethyl Parathion	0.82	U	0.82	10
Famphur	0.55	U Q	0.55	10
Fluoranthene	0.50	U	0.50	10
Fluorene	0.50	U	0.50	10
Hexachlorobenzene	0.50	U	0.50	10
Hexachlorobutadiene	5.0	U	5.0	15
Hexachlorocyclopentadiene	5.0	U	5.0	15
Hexachloroethane	0.50	U	0.50	10
Hexachloropropene	0.50	U	0.50	10
Indeno[1,2,3-cd]pyrene	0.86	U	0.86	10
Isophorone	0.50	U	0.50	10
Isosafrole	0.31	U	0.31	10
Methapyrilene	5.0	U	5.0	2000
Methyl methanesulfonate	0.50	U Q	0.50	10
Methyl parathion	0.75	U	0.75	10
Naphthalene	0.50	U	0.50	10
Nitrobenzene	0.50	U	0.50	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.50	U	0.50	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.50	U	0.50	10
N-Nitrosodiphenylamine	0.73	U	0.73	10
N-Nitrosomethylethylamine	5.0	U	5.0	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2207

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5986.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.79	U Q	0.79	10
o-Toluidine	0.50	U	0.50	10
p-Dimethylamino azobenzene	0.60	U	0.60	10
Pentachlorobenzene	0.57	U	0.57	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.0	U	5.0	50
Phenacetin	0.50	U	0.50	10
Phenanthrene	0.50	U	0.50	10
Phenol	0.50	U	0.50	10
Phorate	0.82	U	0.82	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.50	U	0.50	10
Safrole	0.50	U	0.50	10
Sulfotepp	0.50	U	0.50	10
Thionazin	0.50	U	0.50	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	63	40 - 139
2-Fluorobiphenyl	61	50 - 113
2-Fluorophenol	63	36 - 110
Nitrobenzene-d5	64	45 - 112
Phenol-d5	57	38 - 116
Terphenyl-d14	79	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2231

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5987.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	10
1,3,5-Trinitrobenzene	5.1	U	5.1	15
1,3-Dinitrobenzene	0.58	U	0.58	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.51	U Q	0.51	10
2,3,4,6-Tetrachlorophenol	0.51	U	0.51	10
2,4,5-Trichlorophenol	0.82	U	0.82	10
2,4,6-Trichlorophenol	0.51	U	0.51	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	51
2,4-Dinitrotoluene	0.51	U	0.51	10
2,6-Dichlorophenol	0.51	U	0.51	10
2,6-Dinitrotoluene	0.51	U	0.51	10
2-Acetylaminofluorene	0.57	U	0.57	10
2-Chloronaphthalene	0.51	U	0.51	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.51	U	0.51	10
2-Methylphenol	0.65	U	0.65	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.1	U	5.1	51
2-Nitrophenol	5.1	U	5.1	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.3	U	3.3	20
3,3'-Dimethylbenzidine	0.51	U	0.51	20
3-Methylcholanthrene	0.51	U	0.51	10
3-Nitroaniline	2.9	U	2.9	51
4,6-Dinitro-2-methylphenol	5.1	U	5.1	51
4-Aminobiphenyl	0.51	U	0.51	10
4-Bromophenyl phenyl ether	0.51	U	0.51	10
4-Chloro-3-methylphenol	0.53	U	0.53	10
4-Chloroaniline	4.9	U	4.9	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	51
4-Nitrophenol	10	U	10	51
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.51	U	0.51	10
Acenaphthylene	0.51	U	0.51	10
Acetophenone	0.51	U	0.51	10
Anthracene	0.51	U	0.51	10
Benzo[a]anthracene	0.51	U	0.51	10
Benzo[a]pyrene	0.51	U	0.51	10
Benzo[b]fluoranthene	0.68	U	0.68	10
Benzo[g,h,i]perylene	0.68	U	0.68	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD | Date Sampled: 06/15/2009 0000
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5987.d
Dilution: 1.0 | Initial Weight/Volume: 980 mL
Date Analyzed: 06/26/2009 2231 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.51	U	0.51	10
Benzyl alcohol	0.82	U	0.82	10
Bis(2-chloroethoxy)methane	0.51	U Q	0.51	10
Bis(2-chloroethyl)ether	0.60	U	0.60	10
Bis(2-ethylhexyl) phthalate	0.96	U	0.96	10
bis(chloroisopropyl) ether	0.51	U	0.51	10
Butyl benzyl phthalate	0.76	U	0.76	10
Chrysene	0.51	U	0.51	10
Diallate	0.36	U	0.36	10
Dibenz(a,h)anthracene	0.51	U	0.51	10
Dibenzofuran	0.51	U	0.51	10
Diethyl phthalate	0.51	U	0.51	10
Dimethoate	0.64	U	0.64	10
Dimethyl phthalate	5.1	U	5.1	15
Di-n-butyl phthalate	0.51	U	0.51	10
Di-n-octyl phthalate	0.78	U	0.78	10
Disulfoton	0.97	U	0.97	10
Ethyl methanesulfonate	0.57	U	0.57	10
Ethyl Parathion	0.84	U	0.84	10
Famphur	0.56	U Q	0.56	10
Fluoranthene	0.51	U	0.51	10
Fluorene	0.51	U	0.51	10
Hexachlorobenzene	0.51	U	0.51	10
Hexachlorobutadiene	5.1	U	5.1	15
Hexachlorocyclopentadiene	5.1	U	5.1	15
Hexachloroethane	0.51	U	0.51	10
Hexachloropropene	0.51	U	0.51	10
Indeno[1,2,3-cd]pyrene	0.88	U	0.88	10
Isophorone	0.51	U	0.51	10
Isosafrole	0.32	U	0.32	10
Methapyrilene	5.1	U	5.1	2000
Methyl methanesulfonate	0.51	U Q	0.51	10
Methyl parathion	0.77	U	0.77	10
Naphthalene	0.51	U	0.51	10
Nitrobenzene	0.51	U	0.51	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.51	U	0.51	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.51	U	0.51	10
N-Nitrosodiphenylamine	0.74	U	0.74	10
N-Nitrosomethylethylamine	5.1	U	5.1	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2231

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5987.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.81	U Q	0.81	10
o-Toluidine	0.51	U	0.51	10
p-Dimethylamino azobenzene	0.61	U	0.61	10
Pentachlorobenzene	0.58	U	0.58	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.1	U	5.1	51
Phenacetin	0.51	U	0.51	10
Phenanthrene	0.51	U	0.51	10
Phenol	0.51	U	0.51	10
Phorate	0.84	U	0.84	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.51	U	0.51	10
Safrole	0.51	U	0.51	10
Sulfotepp	0.51	U	0.51	10
Thionazin	0.51	U	0.51	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	79	40 - 139
2-Fluorobiphenyl	75	50 - 113
2-Fluorophenol	74	36 - 110
Nitrobenzene-d5	77	45 - 112
Phenol-d5	69	38 - 116
Terphenyl-d14	90	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2255

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5988.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.51	U	0.51	10
1,3,5-Trinitrobenzene	5.0	U	5.0	15
1,3-Dinitrobenzene	0.57	U	0.57	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.50	U Q	0.50	10
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	10
2,4,5-Trichlorophenol	0.80	U	0.80	10
2,4,6-Trichlorophenol	0.50	U	0.50	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	50
2,4-Dinitrotoluene	0.50	U	0.50	10
2,6-Dichlorophenol	0.50	U	0.50	10
2,6-Dinitrotoluene	0.50	U	0.50	10
2-Acetylaminofluorene	0.56	U	0.56	10
2-Chloronaphthalene	0.50	U	0.50	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.50	U	0.50	10
2-Methylphenol	0.64	U	0.64	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.0	U	5.0	50
2-Nitrophenol	5.0	U	5.0	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.2	U	3.2	20
3,3'-Dimethylbenzidine	0.50	U	0.50	20
3-Methylcholanthrene	0.50	U	0.50	10
3-Nitroaniline	2.8	U	2.8	50
4,6-Dinitro-2-methylphenol	5.0	U	5.0	50
4-Aminobiphenyl	0.50	U	0.50	10
4-Bromophenyl phenyl ether	0.50	U	0.50	10
4-Chloro-3-methylphenol	0.52	U	0.52	10
4-Chloroaniline	4.8	U	4.8	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	50
4-Nitrophenol	10	U	10	50
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.50	U	0.50	10
Acenaphthylene	0.50	U	0.50	10
Acetophenone	0.50	U	0.50	10
Anthracene	0.50	U	0.50	10
Benzo[a]anthracene	0.50	U	0.50	10
Benzo[a]pyrene	0.50	U	0.50	10
Benzo[b]fluoranthene	0.67	U	0.67	10
Benzo[g,h,i]perylene	0.67	U	0.67	10

Client: U.S. Army Corps of Engineers | Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8 | Date Sampled: 06/15/2009 1540
Client Matrix: Water | Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C | Analysis Batch: 680-141879 | Instrument ID: GC/MS SemiVolatiles - G
Preparation: 3520C | Prep Batch: 680-140820 | Lab File ID: g5988.d
Dilution: 1.0 | Initial Weight/Volume: 1000 mL
Date Analyzed: 06/26/2009 2255 | Final Weight/Volume: 1 mL
Date Prepared: 06/19/2009 1321 | Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzo[k]fluoranthene	0.50	U	0.50	10
Benzyl alcohol	0.80	U	0.80	10
Bis(2-chloroethoxy)methane	0.50	U Q	0.50	10
Bis(2-chloroethyl)ether	0.59	U	0.59	10
Bis(2-ethylhexyl) phthalate	0.94	U	0.94	10
bis(chloroisopropyl) ether	0.50	U	0.50	10
Butyl benzyl phthalate	0.74	U	0.74	10
Chrysene	0.50	U	0.50	10
Diallate	0.35	U	0.35	10
Dibenz(a,h)anthracene	0.50	U	0.50	10
Dibenzofuran	0.50	U	0.50	10
Diethyl phthalate	0.50	U	0.50	10
Dimethoate	0.63	U	0.63	10
Dimethyl phthalate	5.0	U	5.0	15
Di-n-butyl phthalate	0.50	U	0.50	10
Di-n-octyl phthalate	0.76	U	0.76	10
Disulfoton	0.95	U	0.95	10
Ethyl methanesulfonate	0.56	U	0.56	10
Ethyl Parathion	0.82	U	0.82	10
Famphur	0.55	U Q	0.55	10
Fluoranthene	0.50	U	0.50	10
Fluorene	0.50	U	0.50	10
Hexachlorobenzene	0.50	U	0.50	10
Hexachlorobutadiene	5.0	U	5.0	15
Hexachlorocyclopentadiene	5.0	U	5.0	15
Hexachloroethane	0.50	U	0.50	10
Hexachloropropene	0.50	U	0.50	10
Indeno[1,2,3-cd]pyrene	0.86	U	0.86	10
Isophorone	0.50	U	0.50	10
Isosafrole	0.31	U	0.31	10
Methapyrilene	5.0	U	5.0	2000
Methyl methanesulfonate	0.50	U Q	0.50	10
Methyl parathion	0.75	U	0.75	10
Naphthalene	0.50	U	0.50	10
Nitrobenzene	0.50	U	0.50	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.50	U	0.50	10
N-Nitrosodimethylamine	1.2	U	1.2	10
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.50	U	0.50	10
N-Nitrosodiphenylamine	0.73	U	0.73	10
N-Nitrosomethylethylamine	5.0	U	5.0	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 2255

Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879

Prep Batch: 680-140820

Instrument ID: GC/MS SemiVolatiles - G

Lab File ID: g5988.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 1 mL

Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
o,o',o''-Triethylphosphorothioate	0.79	U Q	0.79	10
o-Toluidine	0.50	U	0.50	10
p-Dimethylamino azobenzene	0.60	U	0.60	10
Pentachlorobenzene	0.57	U	0.57	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.0	U	5.0	50
Phenacetin	0.50	U	0.50	10
Phenanthrene	0.50	U	0.50	10
Phenol	0.50	U	0.50	10
Phorate	0.82	U	0.82	10
p-Phenylene diamine	10	U Q	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.50	U	0.50	10
Safrole	0.50	U	0.50	10
Sulfotepp	0.50	U	0.50	10
Thionazin	0.50	U	0.50	10

Surrogate	%Rec	Acceptance Limits
2,4,6-Tribromophenol	78	40 - 139
2-Fluorobiphenyl	80	50 - 113
2-Fluorophenol	79	36 - 110
Nitrobenzene-d5	84	45 - 112
Phenol-d5	74	38 - 116
Terphenyl-d14	88	10 - 121

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1

Client Matrix: Water

Date Sampled: 06/15/2009 0800

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1612

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25012.d

Initial Weight/Volume: 500 mL

Final Weight/Volume: 5 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U Q	0.50	5.0

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	53	35 - 120
DCB Decachlorobiphenyl	73	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/25/2009 1710
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25015.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	48	35 - 120
DCB Decachlorobiphenyl	65	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3

Client Matrix: Water

Date Sampled: 06/15/2009 1215

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1732

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25016.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	48	35 - 120
DCB Decachlorobiphenyl	22	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1752

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25017.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	39	35 - 120
DCB Decachlorobiphenyl	21	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1811

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25018.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	63	35 - 120
DCB Decachlorobiphenyl	63	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1831

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25019.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	43	35 - 120
DCB Decachlorobiphenyl	62	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8081A_8082 Organochlorine Pesticides & PCBs (GC)

Method: 8081A_8082

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 1850

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - M

Lab File ID: mf25020.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 1.0 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.0066	U	0.0066	0.10
4,4'-DDE	0.0079	U	0.0079	0.10
4,4'-DDT	0.0099	U	0.0099	0.10
Aldrin	0.0071	U	0.0071	0.051
alpha-BHC	0.0058	U	0.0058	0.051
beta-BHC	0.0068	U	0.0068	0.051
Chlordane (technical)	0.10	U	0.10	0.51
Chlorobenzilate	0.51	U	0.51	1.5
delta-BHC	0.0049	U	0.0049	0.051
Dieldrin	0.0093	U	0.0093	0.10
Endosulfan I	0.0043	U	0.0043	0.051
Endosulfan II	0.010	U	0.010	0.10
Endosulfan sulfate	0.0069	U	0.0069	0.10
Endrin	0.0099	U	0.0099	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0060	U	0.0060	0.051
Heptachlor	0.0071	U	0.0071	0.051
Heptachlor epoxide	0.0061	U	0.0061	0.051
Isodrin	0.051	U	0.051	0.15
Methoxychlor	0.013	U	0.013	0.51
PCB-1016	0.072	U	0.072	1.0
PCB-1221	0.29	U	0.29	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.37	U	0.37	1.1
PCB-1254	0.27	U	0.27	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.51	U Q	0.51	5.1

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	57	35 - 120
DCB Decachlorobiphenyl	90	14 - 115

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/25/2009 2119
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25031.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 5 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U Q	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	109	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 06/25/2009 2323
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25036.d
Initial Weight/Volume: 980 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	81	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3

Client Matrix: Water

Date Sampled: 06/15/2009 1215

Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/25/2009 2347

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25037.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	77	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0012

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25038.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	75	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0037

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25039.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	87	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0102

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25040.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	61	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8141A Organophosphorous Pesticides (GC)

Method: 8141A

Preparation: 3520C

Dilution: 1.0

Date Analyzed: 06/26/2009 0126

Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466

Prep Batch: 680-140966

Instrument ID: GC SemiVolatiles - O

Lab File ID: of25041.d

Initial Weight/Volume: 980 mL

Final Weight/Volume: 10 mL

Injection Volume: 2 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.1
Bolstar	1.0	U	1.0	3.1
Chlorpyrifos	1.0	U	1.0	3.1
Coumaphos	1.0	U	1.0	3.1
Demeton-O	2.6	U	2.6	7.7
Demeton-S	2.6	U	2.6	7.7
Diazinon	1.0	U	1.0	3.1
Dichlorvos	2.0	U	2.0	6.1
Dimethoate	2.0	U	2.0	6.1
Disulfoton	2.0	U	2.0	6.1
EPN	1.0	U	1.0	3.1
Famphur	2.0	U	2.0	6.1
Fensulfothion	5.1	U	5.1	15
Fenthion	1.0	U	1.0	3.1
Malathion	1.0	U	1.0	3.1
Merphos	1.5	U Q	1.5	4.6
Methyl parathion	0.51	U	0.51	1.5
Mevinphos	2.0	U	2.0	6.1
Ethoprop	0.51	U	0.51	1.5
Monochrotophos	10	U	10	31
Naled	5.1	U	5.1	15
Ethyl Parathion	1.0	U	1.0	3.1
Phorate	1.0	U	1.0	3.1
Ronnel	1.0	U	1.0	3.1
Stirophos	1.0	U	1.0	3.1
Sulfotepp	0.51	U	0.51	1.5
Thionazin	1.0	U	1.0	3.1
Tokuthion	1.0	U	1.0	3.1
Trichloronate	1.0	U	1.0	3.1

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate	83	36 - 184

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 06/22/2009 1802
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22010.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	95	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2

Client Matrix: Water

Date Sampled: 06/15/2009 0910

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1820

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22011.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	94	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3

Client Matrix: Water

Date Sampled: 06/15/2009 1215

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1839

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22012.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	77	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4

Client Matrix: Water

Date Sampled: 06/15/2009 1255

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1858

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22013.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	102	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB

Client Matrix: Water

Date Sampled: 06/15/2009 1305

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1917

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22014.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	96	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD

Client Matrix: Water

Date Sampled: 06/15/2009 0000

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1935

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22015.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	99	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8

Client Matrix: Water

Date Sampled: 06/15/2009 1540

Date Received: 06/16/2009 0907

8151A Herbicides (GC)

Method: 8151A

Preparation: 8151A

Dilution: 1.0

Date Analyzed: 06/22/2009 1954

Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201

Prep Batch: 680-140813

Instrument ID: GC SemiVolatiles - S

Lab File ID: sf22016.d

Initial Weight/Volume: 1000 mL

Final Weight/Volume: 10 mL

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	91	61 - 120

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1813
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.2
Barium	42		0.15	1.0
Beryllium	0.36		0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.16	U	0.16	1.0
Cobalt	1.1		0.078	0.23
Copper	1.6		0.21	1.0
Lead	0.17	J	0.080	0.30
Nickel	2.2		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	8.3	J	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1901
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1847
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.42	J	0.40	1.2
Barium	38		0.15	1.0
Beryllium	0.13	J	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.30	J	0.16	1.0
Cobalt	0.69		0.078	0.23
Copper	0.37	J	0.21	1.0
Lead	0.34		0.080	0.30
Nickel	1.1		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	4.5	J	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1909
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3
Client Matrix: Water

Date Sampled: 06/15/2009 1215
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1853
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	3.6		0.40	1.2
Barium	55		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.20	J	0.16	1.0
Cobalt	0.40		0.078	0.23
Copper	0.31	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.54	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	J	1.4	5.9
Zinc	2.6	U	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1917
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.27		0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4
Client Matrix: Water

Date Sampled: 06/15/2009 1255
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/21/2009 1900
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	5.2		0.40	1.2
Barium	47		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.71	J	0.16	1.0
Cobalt	0.48		0.078	0.23
Copper	2.3		0.21	1.0
Lead	0.17	J	0.080	0.30
Nickel	0.71		0.20	0.60
Selenium	0.27	J	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	4.3	J	1.4	5.9
Zinc	3.9	J	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1920
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB
Client Matrix: Water

Date Sampled: 06/15/2009 1305
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/22/2009 1508
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.2
Barium	1.9		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.18	J	0.16	1.0
Cobalt	0.078	U	0.078	0.23
Copper	0.41	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.28	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.64	J	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	2.6	U	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1922
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD
Client Matrix: Water

Date Sampled: 06/15/2009 0000
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/22/2009 1515
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.42	J	0.40	1.2
Barium	39		0.15	1.0
Beryllium	0.11	J	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.39	J	0.16	1.0
Cobalt	0.72		0.078	0.23
Copper	0.79	J	0.21	1.0
Lead	0.35		0.080	0.30
Nickel	1.0		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	2.6	U	2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1925
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.091	U	0.091	0.27

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8
Client Matrix: Water

Date Sampled: 06/15/2009 1540
Date Received: 06/16/2009 0907

6020 Inductively Coupled Plasma - Mass Spectrometry

Method: 6020
Preparation: 3030C
Dilution: 1.0
Date Analyzed: 06/22/2009 1522
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.2
Barium	11		0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.17	J	0.16	1.0
Cobalt	0.25		0.078	0.23
Copper	0.59	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.63		0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	46		2.6	10

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 06/25/2009 1928
Date Prepared: 06/18/2009 0939

Analysis Batch: 680-141550
Prep Batch: 680-140703

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.11	J	0.091	0.27

General Chemistry

Client Sample ID: **SLMW-12BR-06-09**

Lab Sample ID: 680-48180-1
Client Matrix: Water

Date Sampled: 06/15/2009 0800
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.15	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 1818			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SLMW-12AR-06-09**

Lab Sample ID: 680-48180-2
Client Matrix: Water

Date Sampled: 06/15/2009 0910
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.24	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 1933			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

General Chemistry

Client Sample ID: **SLMW-8-06-09**

Lab Sample ID: 680-48180-3
Client Matrix: Water

Date Sampled: 06/15/2009 1215
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.10	U	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 1958			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SLMW-7-06-09**

Lab Sample ID: 680-48180-4
Client Matrix: Water

Date Sampled: 06/15/2009 1255
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.18	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 2047			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

General Chemistry

Client Sample ID: **SLMW-BLANK**

Lab Sample ID: 680-48180-6FB
Client Matrix: Water

Date Sampled: 06/15/2009 1305
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.10	U M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 2112			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

Client Sample ID: **SLMW-Dup-1**

Lab Sample ID: 680-48180-7FD
Client Matrix: Water

Date Sampled: 06/15/2009 0000
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.26	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 2137			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

General Chemistry

Client Sample ID: **SLMW-11R-06-09**

Lab Sample ID: 680-48180-8
Client Matrix: Water

Date Sampled: 06/15/2009 1540
Date Received: 06/16/2009 0907

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as NO3	0.27	J M	mg/L	0.10	0.50	5.0	300.0
	Anly Batch: 680-140590	Date Analyzed		06/16/2009 2202			
Cyanide, Total	0.0025	U	mg/L	0.0025	0.010	1.0	335.4
	Anly Batch: 680-141321	Date Analyzed		06/25/2009 0944			
	Prep Batch: 680-141175	Date Prepared:		06/24/2009 0615			

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	9034
	Anly Batch: 680-140778	Date Analyzed		06/18/2009 1525			
	Prep Batch: 680-140692	Date Prepared:		06/18/2009 0832			

DATA REPORTING QUALIFIERS

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.
GC/MS Semi VOA		
	B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
GC Semi VOA		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	U	Undetected at the Limit of Detection.

DATA REPORTING QUALIFIERS

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Section	Qualifier	Description
General Chemistry		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140897

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 680-140897/10	Analysis Batch:	680-140897	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq509.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1200			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1200				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140897

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-140897/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/19/2009 1200
Date Prepared: 06/19/2009 1200

Analysis Batch: 680-140897
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq509.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	75 - 120
Dibromofluoromethane	95	75 - 121
Toluene-d8 (Surr)	98	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140897

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-140897/4	Analysis Batch:	680-140897	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq501.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1002			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1002				

LCSD Lab Sample ID:	LCSD 680-140897/5	Analysis Batch:	680-140897	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq503.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1032			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1032				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	104	108	81 - 128	4	30		
1,1,1-Trichloroethane	108	107	76 - 127	1	30		
1,1,2,2-Tetrachloroethane	90	95	69 - 129	5	30		
1,1,2-Trichloroethane	91	94	75 - 121	4	30		
1,1-Dichloroethane	100	94	74 - 127	6	30		
1,1-Dichloroethene	117	111	62 - 141	5	30		
1,1-Dichloropropene	101	108	77 - 122	7	30		
1,2,3-Trichloropropane	89	100	70 - 130	11	30		
1,2,4-Trichlorobenzene	103	105	60 - 135	2	30		
1,2-Dibromo-3-Chloropropane	107	111	49 - 140	4	30		
1,2-Dichlorobenzene	99	100	79 - 124	1	30		
1,2-Dichloroethane	96	101	66 - 132	4	30		
1,2-Dichloropropane	100	98	73 - 124	1	30		
1,3-Dichlorobenzene	103	104	78 - 125	0	30		
1,3-Dichloropropane	97	99	75 - 120	3	30		
1,4-Dichlorobenzene	99	100	81 - 122	0	30		
2,2-Dichloropropane	120	115	55 - 157	4	30		
2-Butanone (MEK)	90	91	33 - 157	1	30		
2-Hexanone	94	97	34 - 161	4	30		
4-Methyl-2-pentanone (MIBK)	91	100	40 - 151	10	30		
Acetone	104	100	17 - 175	4	50		
Benzene	96	96	77 - 119	1	30		
Bromoform	102	105	62 - 133	3	30		
Bromomethane	104	110	12 - 184	6	50		
Carbon disulfide	114	104	55 - 131	9	30		
Carbon tetrachloride	115	116	71 - 135	1	30		
Chlorobenzene	98	99	85 - 116	1	30		
Chlorobromomethane	104	96	10 - 150	8	30		
Chlorodibromomethane	104	105	75 - 133	1	30		
Chloroethane	120	97	40 - 165	21	50		
Chloroform	104	100	82 - 120	4	30		
Chloromethane	106	97	48 - 142	9	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140897

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-140897/4	Analysis Batch:	680-140897	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq501.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1002			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1002				

LCSD Lab Sample ID:	LCSD 680-140897/5	Analysis Batch:	680-140897	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq503.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1032			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1032				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	99	105	69 - 134	6	30		
cis-1,3-Dichloropropene	102	104	76 - 126	2	30		
Dibromomethane	90	96	78 - 119	6	30		
Dichlorobromomethane	107	104	78 - 127	3	30		
Dichlorodifluoromethane	109	100	34 - 154	9	30		
Ethylbenzene	100	101	86 - 116	2	30		
Ethylene Dibromide	100	102	80 - 121	2	30		
Methylene Chloride	111	103	70 - 125	7	30		
Styrene	98	103	82 - 122	6	30		
Tetrachloroethene	102	103	76 - 126	1	30		
Toluene	102	102	81 - 117	0	30		
trans-1,2-Dichloroethene	114	106	72 - 131	8	30		
trans-1,3-Dichloropropene	108	104	73 - 128	4	30		
Trichloroethene	102	100	84 - 115	2	30		
Trichlorofluoromethane	113	106	58 - 149	6	50		
Vinyl acetate	108	104	10 - 217	4	30		
Vinyl chloride	109	105	59 - 144	3	50		
Xylenes, Total	101	103	84 - 118	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	103	75 - 120
Dibromofluoromethane	107	102	75 - 121
Toluene-d8 (Surr)	104	104	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140983

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-140983/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/19/2009 1215
Date Prepared: 06/19/2009 1215

Analysis Batch: 680-140983
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2
Lab File ID: aq510.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140983

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-140983/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/19/2009 1215
Date Prepared: 06/19/2009 1215

Analysis Batch: 680-140983
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A C2
Lab File ID: aq510.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	75 - 120
Dibromofluoromethane	105	75 - 121
Toluene-d8 (Surr)	100	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140983

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-140983/19	Analysis Batch:	680-140983	Instrument ID:	GC/MS Volatiles - A C2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq502.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1017			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1017				

LCSD Lab Sample ID:	LCSD 680-140983/20	Analysis Batch:	680-140983	Instrument ID:	GC/MS Volatiles - A C2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq504.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1047			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1047				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	112	108	81 - 128	4	30		
1,1,1-Trichloroethane	113	113	76 - 127	0	30		
1,1,2,2-Tetrachloroethane	94	92	69 - 129	2	30		
1,1,2-Trichloroethane	98	95	75 - 121	2	30		
1,1-Dichloroethane	98	102	74 - 127	4	30		
1,1-Dichloroethene	98	102	62 - 141	4	30		
1,1-Dichloropropene	107	106	77 - 122	1	30		
1,2,3-Trichloropropane	99	90	70 - 130	9	30		
1,2,4-Trichlorobenzene	109	105	60 - 135	3	30		
1,2-Dibromo-3-Chloropropane	103	97	49 - 140	5	30		
1,2-Dichlorobenzene	107	102	79 - 124	4	30		
1,2-Dichloroethane	105	101	66 - 132	4	30		
1,2-Dichloropropane	97	96	73 - 124	1	30		
1,3-Dichlorobenzene	105	104	78 - 125	1	30		
1,3-Dichloropropane	95	94	75 - 120	0	30		
1,4-Dichlorobenzene	110	105	81 - 122	5	30		
2,2-Dichloropropane	122	120	55 - 157	2	30		
2-Butanone (MEK)	86	83	33 - 157	3	30		
2-Hexanone	97	88	34 - 161	10	30		
4-Methyl-2-pentanone (MIBK)	97	89	40 - 151	9	30		
Acetone	90	106	17 - 175	16	50		
Benzene	97	97	77 - 119	1	30		
Bromoform	111	109	62 - 133	2	30		
Bromomethane	100	109	12 - 184	9	50		
Carbon disulfide	91	89	55 - 131	2	30		
Carbon tetrachloride	109	111	71 - 135	2	30		
Chlorobenzene	103	99	85 - 116	4	30		
Chlorobromomethane	92	98	10 - 150	6	30		
Chlorodibromomethane	112	107	75 - 133	4	30		
Chloroethane	106	107	40 - 165	1	50		
Chloroform	101	103	82 - 120	2	30		
Chloromethane	95	95	48 - 142	0	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140983

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-140983/19	Analysis Batch:	680-140983	Instrument ID:	GC/MS Volatiles - A C2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq502.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1017			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1017				

LCSD Lab Sample ID:	LCSD 680-140983/20	Analysis Batch:	680-140983	Instrument ID:	GC/MS Volatiles - A C2
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq504.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/19/2009 1047			Final Weight/Volume:	5 mL
Date Prepared:	06/19/2009 1047				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	102	106	69 - 134	3	30		
cis-1,3-Dichloropropene	110	108	76 - 126	2	30		
Dibromomethane	102	99	78 - 119	3	30		
Dichlorobromomethane	107	104	78 - 127	3	30		
Dichlorodifluoromethane	104	103	34 - 154	1	30		
Ethylbenzene	108	102	86 - 116	5	30		
Ethylene Dibromide	99	98	80 - 121	1	30		
Methylene Chloride	97	94	70 - 125	2	30		
Styrene	108	103	82 - 122	5	30		
Tetrachloroethene	108	106	76 - 126	3	30		
Toluene	105	104	81 - 117	1	30		
trans-1,2-Dichloroethene	108	102	72 - 131	5	30		
trans-1,3-Dichloropropene	106	104	73 - 128	2	30		
Trichloroethene	103	103	84 - 115	0	30		
Trichlorofluoromethane	104	107	58 - 149	2	50		
Vinyl acetate	100	99	10 - 217	1	30		
Vinyl chloride	102	105	59 - 144	3	50		
Xylenes, Total	106	103	84 - 118	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	105	102	75 - 120
Dibromofluoromethane	106	106	75 - 121
Toluene-d8 (Surr)	106	100	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-141087

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 680-141087/24	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq523.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1204			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1204				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.33	U	0.33	1.0
1,1,1-Trichloroethane	0.50	U	0.50	1.5
1,1,2,2-Tetrachloroethane	0.18	U	0.18	1.0
1,1,2-Trichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethane	0.25	U	0.25	1.0
1,1-Dichloroethene	0.11	U	0.11	1.0
1,1-Dichloropropene	0.25	U	0.25	1.0
1,2,3-Trichloropropane	0.41	U	0.41	1.2
1,2,4-Trichlorobenzene	0.25	U	0.25	1.0
1,2-Dibromo-3-Chloropropane	0.44	U	0.44	1.3
1,2-Dichlorobenzene	0.21	U	0.21	1.0
1,2-Dichloroethane	0.10	U	0.10	1.0
1,2-Dichloropropane	0.13	U	0.13	1.0
1,3-Dichlorobenzene	0.25	U	0.25	1.0
1,3-Dichloropropane	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.28	U	0.28	1.0
2,2-Dichloropropane	0.12	U	0.12	1.0
2-Butanone (MEK)	1.0	U	1.0	10
2-Chloro-1,3-butadiene	0.30	U	0.30	1.0
2-Hexanone	1.0	U	1.0	10
3-Chloro-1-propene	0.20	U	0.20	1.0
4-Methyl-2-pentanone (MIBK)	1.0	U	1.0	10
Acetone	5.0	U	5.0	25
Acetonitrile	10	U	10	40
Benzene	0.25	U	0.25	1.0
Bromoform	0.50	U	0.50	1.5
Bromomethane	0.80	U	0.80	2.4
Carbon disulfide	0.60	U	0.60	2.0
Carbon tetrachloride	0.50	U	0.50	1.5
Chlorobenzene	0.25	U	0.25	1.0
Chlorobromomethane	0.14	U	0.14	1.0
Chlorodibromomethane	0.10	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	0.14	U	0.14	1.0
Chloromethane	0.33	U	0.33	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.11	U	0.11	1.0
Dibromomethane	0.20	U	0.20	1.0
Dichlorobromomethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.25	U	0.25	1.0
Ethyl methacrylate	0.25	U	0.25	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-141087

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-141087/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1204
Date Prepared: 06/22/2009 1204

Analysis Batch: 680-141087
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq523.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Ethylbenzene	0.11	U	0.11	1.0
Ethylene Dibromide	0.25	U	0.25	1.0
Iodomethane	1.0	U	1.0	5.0
Isobutyl alcohol	11	U	11	40
Methacrylonitrile	3.3	U	3.3	20
Methyl methacrylate	0.48	U	0.48	1.4
Methylene Chloride	1.0	U	1.0	5.0
Propionitrile	4.6	U	4.6	20
Styrene	0.11	U	0.11	1.0
Tetrachloroethene	0.15	U	0.15	1.0
Toluene	0.33	U	0.33	1.0
trans-1,2-Dichloroethene	0.20	U	0.20	1.0
trans-1,3-Dichloropropene	0.21	U	0.21	1.0
trans-1,4-Dichloro-2-butene	0.50	U	0.50	2.0
Trichloroethene	0.13	U	0.13	1.0
Trichlorofluoromethane	0.25	U	0.25	1.0
Vinyl acetate	0.28	U	0.28	2.0
Vinyl chloride	0.18	U	0.18	1.0
Xylenes, Total	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	99	75 - 121
Toluene-d8 (Surr)	101	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141087

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-141087/21	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq515.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1007			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1007				

LCSD Lab Sample ID:	LCSD 680-141087/22	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	aq517.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1036			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1036				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	112	116	81 - 128	4	30		
1,1,1-Trichloroethane	98	110	76 - 127	11	30		
1,1,2,2-Tetrachloroethane	97	96	69 - 129	1	30		
1,1,2-Trichloroethane	89	91	75 - 121	2	30		
1,1-Dichloroethane	85	93	74 - 127	9	30		
1,1-Dichloroethene	98	108	62 - 141	10	30		
1,1-Dichloropropene	90	100	77 - 122	10	30		
1,2,3-Trichloropropane	93	98	70 - 130	5	30		
1,2,4-Trichlorobenzene	112	110	60 - 135	2	30		
1,2-Dibromo-3-Chloropropane	117	124	49 - 140	6	30		
1,2-Dichlorobenzene	107	108	79 - 124	1	30		
1,2-Dichloroethane	95	98	66 - 132	3	30		
1,2-Dichloropropane	90	97	73 - 124	7	30		
1,3-Dichlorobenzene	107	109	78 - 125	2	30		
1,3-Dichloropropane	95	95	75 - 120	0	30		
1,4-Dichlorobenzene	104	104	81 - 122	0	30		
2,2-Dichloropropane	102	112	55 - 157	9	30		
2-Butanone (MEK)	79	87	33 - 157	9	30		
2-Hexanone	100	101	34 - 161	2	30		
4-Methyl-2-pentanone (MIBK)	92	93	40 - 151	0	30		
Acetone	97	102	17 - 175	5	50		
Benzene	87	91	77 - 119	5	30		
Bromoform	112	111	62 - 133	0	30		
Bromomethane	89	99	12 - 184	11	50		
Carbon disulfide	95	104	55 - 131	9	30		
Carbon tetrachloride	107	115	71 - 135	7	30		
Chlorobenzene	102	104	85 - 116	2	30		
Chlorobromomethane	90	89	10 - 150	2	30		
Chlorodibromomethane	111	112	75 - 133	1	30		
Chloroethane	86	97	40 - 165	12	50		
Chloroform	93	99	82 - 120	7	30		
Chloromethane	79	77	48 - 142	2	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-141087

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-141087/21	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq515.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1007			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1007				

LCSD Lab Sample ID:	LCSD 680-141087/22	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch: N/A		Lab File ID:	aq517.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1036			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1036				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
cis-1,2-Dichloroethene	92	99	69 - 134	7	30		
cis-1,3-Dichloropropene	100	103	76 - 126	3	30		
Dibromomethane	88	93	78 - 119	6	30		
Dichlorobromomethane	101	107	78 - 127	6	30		
Dichlorodifluoromethane	62	70	34 - 154	12	30		
Ethylbenzene	98	106	86 - 116	8	30		
Ethylene Dibromide	98	100	80 - 121	1	30		
Methylene Chloride	99	104	70 - 125	5	30		
Styrene	105	107	82 - 122	2	30		
Tetrachloroethene	100	112	76 - 126	12	30		
Toluene	95	97	81 - 117	3	30		
trans-1,2-Dichloroethene	99	109	72 - 131	10	30		
trans-1,3-Dichloropropene	103	106	73 - 128	2	30		
Trichloroethene	94	102	84 - 115	7	30		
Trichlorofluoromethane	88	98	58 - 149	10	50		
Vinyl acetate	96	101	10 - 217	5	30		
Vinyl chloride	82	90	59 - 144	8	50		
Xylenes, Total	103	106	84 - 118	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	104	104	75 - 120
Dibromofluoromethane	99	104	75 - 121
Toluene-d8 (Surr)	94	98	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-141087

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	a4153.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1855			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1855				

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	a4155.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1925			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1925				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	112	107	81 - 128	4	30		
1,1,1-Trichloroethane	109	110	76 - 127	1	30		
1,1,2,2-Tetrachloroethane	95	93	69 - 129	2	30		
1,1,2-Trichloroethane	87	87	75 - 121	1	30		
1,1-Dichloroethane	74	70	74 - 127	5	30		J
1,1-Dichloroethene	119	103	62 - 141	15	30		
1,1-Dichloropropene	100	103	77 - 122	3	30		
1,2,3-Trichloropropane	96	99	70 - 130	3	30		
1,2,4-Trichlorobenzene	101	95	60 - 135	7	30		
1,2-Dibromo-3-Chloropropane	107	107	49 - 140	0	30		
1,2-Dichlorobenzene	104	102	79 - 124	2	30		
1,2-Dichloroethane	100	97	66 - 132	2	30		
1,2-Dichloropropane	88	86	73 - 124	2	30		
1,3-Dichlorobenzene	110	106	78 - 125	4	30		
1,3-Dichloropropane	90	91	75 - 120	0	30		
1,4-Dichlorobenzene	104	101	81 - 122	4	30		
2,2-Dichloropropane	106	102	55 - 157	4	30		
2-Butanone (MEK)	76	78	33 - 157	3	30		
2-Hexanone	95	97	34 - 161	2	30		
4-Methyl-2-pentanone (MIBK)	86	89	40 - 151	3	30		
Acetone	84	84	17 - 175	0	50		
Benzene	90	90	77 - 119	0	30		
Bromoform	107	103	62 - 133	4	30		
Bromomethane	80	97	12 - 184	19	50		
Carbon disulfide	107	93	55 - 131	15	30		
Carbon tetrachloride	117	118	71 - 135	1	30		
Chlorobenzene	102	98	85 - 116	4	30		
Chlorobromomethane	89	85	10 - 150	5	30		
Chlorodibromomethane	105	104	75 - 133	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-141087

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	a4153.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1855			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1855				

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141087	Instrument ID:	GC/MS Volatiles - A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	a4155.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	06/22/2009 1925			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1925				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloroethane	100	100	40 - 165	1	50		
Chloroform	96	96	82 - 120	0	30		
Chloromethane	79	78	48 - 142	1	50		
cis-1,2-Dichloroethene	94	95	69 - 134	1	30		
cis-1,3-Dichloropropene	92	96	76 - 126	4	30		
Dibromomethane	88	90	78 - 119	2	30		
Dichlorobromomethane	100	100	78 - 127	0	30		
Dichlorodifluoromethane	76	75	34 - 154	1	30		
Ethylbenzene	106	104	86 - 116	2	30		
Ethylene Dibromide	93	96	80 - 121	3	30		
Methylene Chloride	102	86	70 - 125	17	30		
Styrene	107	101	82 - 122	6	30		
Tetrachloroethene	113	107	76 - 126	6	30		
Toluene	99	98	81 - 117	1	30		
trans-1,2-Dichloroethene	117	101	72 - 131	15	30		
trans-1,3-Dichloropropene	97	98	73 - 128	1	30		
Trichloroethene	100	100	84 - 115	1	30		
Trichlorofluoromethane	113	108	58 - 149	5	50		
Vinyl acetate	83	79	10 - 217	5	30		
Vinyl chloride	93	87	59 - 144	7	50		
Xylenes, Total	107	104	84 - 118	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	103	75 - 120
Dibromofluoromethane	100	100	75 - 121
Toluene-d8 (Surr)	98	96	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID:	MB 680-140820/14-A	Analysis Batch:	680-141879	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5980.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/26/2009 1944			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

Analyte	Result	Qual	MDL	RL
1,2,4,5-Tetrachlorobenzene	0.51	U	0.51	10
1,3,5-Trinitrobenzene	5.0	U	5.0	15
1,3-Dinitrobenzene	0.57	U	0.57	10
1,4-Naphthoquinone	1.0	U	1.0	10
1-Naphthylamine	0.50	U	0.50	10
2,3,4,6-Tetrachlorophenol	0.50	U	0.50	10
2,4,5-Trichlorophenol	0.80	U	0.80	10
2,4,6-Trichlorophenol	0.50	U	0.50	10
2,4-Dichlorophenol	1.0	U	1.0	10
2,4-Dimethylphenol	1.1	U	1.1	10
2,4-Dinitrophenol	10	U	10	50
2,4-Dinitrotoluene	0.50	U	0.50	10
2,6-Dichlorophenol	0.50	U	0.50	10
2,6-Dinitrotoluene	0.50	U	0.50	10
2-Acetylaminofluorene	0.82	J	0.56	10
2-Chloronaphthalene	0.50	U	0.50	10
2-Chlorophenol	1.0	U	1.0	10
2-Methylnaphthalene	0.50	U	0.50	10
2-Methylphenol	0.64	U	0.64	10
2-Naphthylamine	1.0	U	1.0	10
2-Nitroaniline	5.0	U	5.0	50
2-Nitrophenol	5.0	U	5.0	15
3 & 4 Methylphenol	1.0	U	1.0	10
3,3'-Dichlorobenzidine	3.2	U	3.2	20
3,3'-Dimethylbenzidine	0.50	U	0.50	20
3-Methylcholanthrene	1.4	J	0.50	10
3-Nitroaniline	2.8	U	2.8	50
4,6-Dinitro-2-methylphenol	5.0	U	5.0	50
4-Aminobiphenyl	0.50	U	0.50	10
4-Bromophenyl phenyl ether	0.50	U	0.50	10
4-Chloro-3-methylphenol	0.52	U	0.52	10
4-Chloroaniline	4.8	U	4.8	20
4-Chlorophenyl phenyl ether	1.0	U	1.0	10
4-Nitroaniline	2.0	U	2.0	50
4-Nitrophenol	10	U	10	50
7,12-Dimethylbenz(a)anthracene	1.0	U	1.0	10
Acenaphthene	0.50	U	0.50	10
Acenaphthylene	0.50	U	0.50	10
Acetophenone	0.50	U	0.50	10
Anthracene	0.50	U	0.50	10
Benzo[a]anthracene	0.50	U	0.50	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID:	MB 680-140820/14-A	Analysis Batch:	680-141879	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5980.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/26/2009 1944			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

Analyte	Result	Qual	MDL	RL
Benzo[a]pyrene	1.6	J	0.50	10
Benzo[b]fluoranthene	1.3	J	0.67	10
Benzo[g,h,i]perylene	1.7	J	0.67	10
Benzo[k]fluoranthene	1.2	J	0.50	10
Benzyl alcohol	0.80	U	0.80	10
Bis(2-chloroethoxy)methane	0.50	U	0.50	10
Bis(2-chloroethyl)ether	0.59	U	0.59	10
Bis(2-ethylhexyl) phthalate	0.94	U	0.94	10
bis(chloroisopropyl) ether	0.50	U	0.50	10
Butyl benzyl phthalate	0.74	U	0.74	10
Chrysene	0.50	U	0.50	10
Diallate	0.35	U	0.35	10
Dibenz(a,h)anthracene	1.7	J	0.50	10
Dibenzofuran	0.50	U	0.50	10
Diethyl phthalate	0.50	U	0.50	10
Dimethoate	0.63	U	0.63	10
Dimethyl phthalate	5.0	U	5.0	15
Di-n-butyl phthalate	0.50	U	0.50	10
Di-n-octyl phthalate	0.76	U	0.76	10
Disulfoton	0.95	U	0.95	10
Ethyl methanesulfonate	0.56	U	0.56	10
Ethyl Parathion	0.82	U	0.82	10
Famphur	0.55	U	0.55	10
Fluoranthene	0.50	U	0.50	10
Fluorene	0.50	U	0.50	10
Hexachlorobenzene	0.50	U	0.50	10
Hexachlorobutadiene	5.0	U	5.0	15
Hexachlorocyclopentadiene	5.0	U	5.0	15
Hexachloroethane	0.50	U	0.50	10
Hexachloropropene	0.50	U	0.50	10
Indeno[1,2,3-cd]pyrene	1.7	J	0.86	10
Isophorone	0.50	U	0.50	10
Isosafrole	0.31	U	0.31	10
Methapyrilene	5.0	U	5.0	2000
Methyl methanesulfonate	0.50	U	0.50	10
Methyl parathion	0.75	U	0.75	10
Naphthalene	0.50	U	0.50	10
Nitrobenzene	0.50	U	0.50	10
N-Nitro-o-toluidine	1.0	U	1.0	10
N-Nitrosodiethylamine	0.50	U	0.50	10
N-Nitrosodimethylamine	1.2	U	1.2	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID:	MB 680-140820/14-A	Analysis Batch:	680-141879	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5980.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/26/2009 1944			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-butylamine	1.0	U	1.0	10
N-Nitrosodi-n-propylamine	0.50	U	0.50	10
N-Nitrosodiphenylamine	0.73	U	0.73	10
N-Nitrosomethylethylamine	5.0	U	5.0	15
N-Nitrosopiperidine	1.0	U	1.0	10
N-Nitrosopyrrolidine	1.0	U	1.0	10
o,o',o''-Triethylphosphorothioate	0.79	U	0.79	10
o-Toluidine	0.50	U	0.50	10
p-Dimethylamino azobenzene	0.60	U	0.60	10
Pentachlorobenzene	0.57	U	0.57	10
Pentachloronitrobenzene	1.0	U	1.0	10
Pentachlorophenol	5.0	U	5.0	50
Phenacetin	0.50	U	0.50	10
Phenanthrene	0.50	U	0.50	10
Phenol	0.50	U	0.50	10
Phorate	0.82	U	0.82	10
p-Phenylene diamine	10	U	10	2000
Pronamide	1.0	U	1.0	10
Pyrene	0.50	U	0.50	10
Safrole	0.50	U	0.50	10
Sulfotepp	0.50	U	0.50	10
Thionazin	0.50	U	0.50	10

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	82	40 - 139
2-Fluorobiphenyl	78	50 - 113
2-Fluorophenol	78	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	74	38 - 116
Terphenyl-d14	92	10 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-140820/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 2008
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5981.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4,5-Tetrachlorobenzene	100	84.7	85	41 - 130	
1,3,5-Trinitrobenzene	100	86.2	86	10 - 200	
1,3-Dinitrobenzene	100	94.8	95	53 - 136	
1,4-Naphthoquinone	100	11.5	12	10 - 130	
1-Naphthylamine	100	8.44	8	10 - 130	J Q
2,3,4,6-Tetrachlorophenol	100	87.2	87	38 - 130	
2,4,5-Trichlorophenol	100	82.1	82	47 - 122	
2,4,6-Trichlorophenol	100	84.2	84	46 - 120	
2,4-Dichlorophenol	100	79.4	79	46 - 115	
2,4-Dimethylphenol	200	164	82	36 - 110	
2,4-Dinitrophenol	100	97.3	97	10 - 189	
2,4-Dinitrotoluene	100	82.9	83	49 - 128	
2,6-Dichlorophenol	100	82.5	82	46 - 130	
2,6-Dinitrotoluene	100	85.4	85	45 - 131	
2-Acetylaminofluorene	100	87.6	88	69 - 123	
2-Chloronaphthalene	100	85.2	85	47 - 110	
2-Chlorophenol	100	77.2	77	47 - 110	
2-Methylnaphthalene	100	77.9	78	46 - 110	
2-Methylphenol	100	79.4	79	46 - 110	
2-Naphthylamine	100	66.1	66	10 - 130	
2-Nitroaniline	100	78.4	78	45 - 122	
2-Nitrophenol	100	79.4	79	42 - 120	
3 & 4 Methylphenol	100	77.3	77	43 - 110	
3,3'-Dichlorobenzidine	100	90.2	90	10 - 113	
3,3'-Dimethylbenzidine	100	45.1	45	10 - 130	
3-Methylcholanthrene	100	82.6	83	62 - 130	
3-Nitroaniline	100	74.0	74	30 - 116	
4,6-Dinitro-2-methylphenol	100	89.8	90	29 - 167	
4-Aminobiphenyl	100	40.8	41	10 - 130	
4-Bromophenyl phenyl ether	100	92.6	93	42 - 110	
4-Chloro-3-methylphenol	100	80.1	80	46 - 118	
4-Chloroaniline	100	76.5	76	10 - 110	
4-Chlorophenyl phenyl ether	100	98.9	99	46 - 114	
4-Nitroaniline	100	69.9	70	36 - 125	
4-Nitrophenol	100	72.2	72	30 - 122	
7,12-Dimethylbenz(a)anthracene	100	63.9	64	39 - 130	
Acenaphthene	100	85.1	85	45 - 117	
Acenaphthylene	100	86.1	86	51 - 112	
Acetophenone	100	85.5	86	25 - 110	
Anthracene	100	83.4	83	52 - 116	
Benzo[a]anthracene	100	88.3	88	49 - 124	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 680-140820/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2009 2008
Date Prepared: 06/19/2009 1321

Analysis Batch: 680-141879
Prep Batch: 680-140820
Units: ug/L

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g5981.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzo[a]pyrene	100	98.7	99	48 - 120	
Benzo[b]fluoranthene	100	102	102	46 - 126	
Benzo[g,h,i]perylene	100	84.0	84	51 - 117	
Benzo[k]fluoranthene	100	74.8	75	47 - 126	
Benzyl alcohol	100	80.1	80	34 - 113	
Bis(2-chloroethoxy)methane	100	117	117	50 - 112	Q
Bis(2-chloroethyl)ether	100	85.0	85	43 - 110	
Bis(2-ethylhexyl) phthalate	100	104	104	47 - 134	
bis(chloroisopropyl) ether	100	85.3	85	42 - 110	
Butyl benzyl phthalate	100	107	107	52 - 135	
Chrysene	100	88.8	89	51 - 123	
Diallate	100	101	101	36 - 145	
Dibenz(a,h)anthracene	100	84.3	84	46 - 124	
Dibenzofuran	100	81.3	81	50 - 112	
Diethyl phthalate	100	92.4	92	51 - 119	
Dimethoate	100	96.3	96	28 - 142	
Dimethyl phthalate	100	94.4	94	50 - 116	
Di-n-butyl phthalate	100	94.7	95	49 - 123	
Di-n-octyl phthalate	100	99.2	99	44 - 134	
Disulfoton	100	89.3	89	40 - 130	
Ethyl methanesulfonate	100	70.3	70	32 - 130	
Ethyl Parathion	100	110	110	60 - 140	
Famphur	100	3.20	3	10 - 130	J Q
Fluoranthene	100	82.8	83	50 - 120	
Fluorene	100	84.5	85	50 - 115	
Hexachlorobenzene	100	86.6	87	48 - 119	
Hexachlorobutadiene	100	75.7	76	40 - 110	
Hexachlorocyclopentadiene	100	39.7	40	10 - 110	
Hexachloroethane	100	61.5	61	33 - 110	
Hexachloropropene	100	50.2	50	10 - 130	
Indeno[1,2,3-cd]pyrene	100	84.6	85	40 - 126	
Isophorone	100	74.7	75	50 - 111	
Isosafrole	100	83.9	84	37 - 130	
Methapyrilene	100	61.7	62	10 - 130	J
Methyl methanesulfonate	100	3.70	4	10 - 130	J Q
Methyl parathion	100	95.4	95	51 - 146	
Naphthalene	100	76.0	76	41 - 110	
Nitrobenzene	100	74.1	74	46 - 110	
N-Nitro-o-toluidine	100	81.3	81	45 - 130	
N-Nitrosodiethylamine	100	84.4	84	48 - 130	
N-Nitrosodimethylamine	100	83.1	83	33 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140820

Method: 8270C
Preparation: 3520C

Lab Sample ID:	LCS 680-140820/15-A	Analysis Batch:	680-141879	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5981.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/26/2009 2008			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodi-n-butylamine	100	109	109	41 - 130	
N-Nitrosodi-n-propylamine	100	91.1	91	45 - 112	
N-Nitrosodiphenylamine	100	101	101	47 - 119	
N-Nitrosomethylethylamine	100	97.4	97	47 - 130	
N-Nitrosopiperidine	100	85.7	86	53 - 130	
N-Nitrosopyrrolidine	100	86.3	86	50 - 130	
o,o',o''-Triethylphosphorothioate	100	191	191	23 - 162	Q
o-Toluidine	100	63.8	64	27 - 130	
p-Dimethylamino azobenzene	100	95.4	95	29 - 169	
Pentachlorobenzene	100	89.7	90	52 - 130	
Pentachloronitrobenzene	100	90.9	91	52 - 130	
Pentachlorophenol	100	103	103	37 - 132	
Phenacetin	100	83.4	83	62 - 130	
Phenanthrene	100	85.8	86	52 - 117	
Phenol	100	76.6	77	39 - 110	
Phorate	100	86.4	86	29 - 181	
p-Phenylene diamine	500	35.7	7	10 - 130	J Q
Pronamide	100	96.0	96	64 - 134	
Pyrene	100	92.6	93	52 - 125	
Safrole	100	86.9	87	39 - 130	
Sulfotepp	100	114	114	44 - 130	
Thionazin	100	112	112	48 - 135	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	89	40 - 139
2-Fluorobiphenyl	83	50 - 113
2-Fluorophenol	78	36 - 110
Nitrobenzene-d5	80	45 - 112
Phenol-d5	73	38 - 116
Terphenyl-d14	88	10 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140820

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5023.d
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	06/29/2009 1934			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5024.d
Dilution:	1.0			Initial Weight/Volume:	980 mL
Date Analyzed:	06/29/2009 1958			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,2,4,5-Tetrachlorobenzene	77	65	41 - 130	14	40		
1,3,5-Trinitrobenzene	90	85	10 - 200	4	40		
1,3-Dinitrobenzene	95	87	53 - 136	7	40		
1,4-Naphthoquinone	20	18	10 - 130	11	40		
1-Naphthylamine	4	3	10 - 130	42	40	J J	J J
2,3,4,6-Tetrachlorophenol	82	77	38 - 130	5	40		
2,4,5-Trichlorophenol	83	73	47 - 122	11	40		
2,4,6-Trichlorophenol	81	71	46 - 120	12	40		
2,4-Dichlorophenol	81	69	46 - 115	15	40		
2,4-Dimethylphenol	85	71	36 - 110	17	40		
2,4-Dinitrophenol	97	89	10 - 189	6	40		
2,4-Dinitrotoluene	87	79	49 - 128	8	40		
2,6-Dichlorophenol	82	67	46 - 130	17	40		
2,6-Dinitrotoluene	89	79	45 - 131	10	40		
2-Acetylaminofluorene	94	84	69 - 123	9	40		
2-Chloronaphthalene	85	72	47 - 110	14	40		
2-Chlorophenol	77	65	47 - 110	16	40		
2-Methylnaphthalene	80	66	46 - 110	17	40		
2-Methylphenol	83	69	46 - 110	16	40		
2-Naphthylamine	22	21	10 - 130	1	40		
2-Nitroaniline	86	76	45 - 122	10	40		
2-Nitrophenol	78	65	42 - 120	16	40		
3 & 4 Methylphenol	82	69	43 - 110	16	40		
3,3'-Dichlorobenzidine	8	54	10 - 113	149	40	J J	J
3,3'-Dimethylbenzidine	31	36	10 - 130	18	40		
3-Methylcholanthrene	68	67	62 - 130	0	40		
3-Nitroaniline	68	66	30 - 116	1	40		
4,6-Dinitro-2-methylphenol	93	83	29 - 167	8	40		
4-Aminobiphenyl	16	13	10 - 130	12	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140820

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5023.d
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	06/29/2009 1934			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5024.d
Dilution:	1.0			Initial Weight/Volume:	980 mL
Date Analyzed:	06/29/2009 1958			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4-Bromophenyl phenyl ether	91	81	42 - 110	9	40		
4-Chloro-3-methylphenol	88	77	46 - 118	12	40		
4-Chloroaniline	45	48	10 - 110	9	40		
4-Chlorophenyl phenyl ether	97	86	46 - 114	10	40		
4-Nitroaniline	80	71	36 - 125	10	40		
4-Nitrophenol	84	73	30 - 122	11	40		
7,12-Dimethylbenz(a)anthracene	51	54	39 - 130	9	40		
Acenaphthene	79	68	45 - 117	13	40		
Acenaphthylene	84	74	51 - 112	11	40		
Acetophenone	88	72	25 - 110	18	40		
Anthracene	83	76	52 - 116	6	40		
Benzo[a]anthracene	94	83	49 - 124	11	40		
Benzo[a]pyrene	100	90	48 - 120	8	40		
Benzo[b]fluoranthene	99	92	46 - 126	4	40		
Benzo[g,h,i]perylene	89	78	51 - 117	12	40		
Benzo[k]fluoranthene	81	75	47 - 126	5	40		
Benzyl alcohol	82	69	34 - 113	15	40		
Bis(2-chloroethoxy)methane	116	96	50 - 112	16	40	J	
Bis(2-chloroethyl)ether	90	77	43 - 110	14	40		
Bis(2-ethylhexyl) phthalate	104	94	47 - 134	8	40		
bis(chloroisopropyl) ether	96	81	42 - 110	15	40		
Butyl benzyl phthalate	106	98	52 - 135	6	40		
Chrysene	97	83	51 - 123	13	40		
Diallate	104	96	36 - 145	6	40		
Dibenz(a,h)anthracene	91	80	46 - 124	10	40		
Dibenzofuran	81	72	50 - 112	11	40		
Diethyl phthalate	95	87	51 - 119	7	40		
Dimethoate	101	90	28 - 142	10	40		
Dimethyl phthalate	95	87	50 - 116	7	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140820

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5023.d
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	06/29/2009 1934			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5024.d
Dilution:	1.0			Initial Weight/Volume:	980 mL
Date Analyzed:	06/29/2009 1958			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Di-n-butyl phthalate	100	91	49 - 123	7	40		
Di-n-octyl phthalate	104	93	44 - 134	10	40		
Disulfoton	77	76	40 - 130	0	40		
Ethyl methanesulfonate	71	62	32 - 130	13	40		
Ethyl Parathion	98	91	60 - 140	5	40		
Famphur	39	18	10 - 130	73	40		J
Fluoranthene	91	80	50 - 120	11	40		
Fluorene	87	77	50 - 115	10	40		
Hexachlorobenzene	84	76	48 - 119	7	40		
Hexachlorobutadiene	74	61	40 - 110	17	40		
Hexachlorocyclopentadiene	30	24	10 - 110	17	40		
Hexachloroethane	70	58	33 - 110	17	40		
Hexachloropropene	44	36	10 - 130	17	40		
Indeno[1,2,3-cd]pyrene	98	80	40 - 126	18	40		
Isophorone	79	66	50 - 111	16	40		
Isosafrole	78	68	37 - 130	12	40		
Methapyrilene	47	55	10 - 130	18	40	J	J M
Methyl methanesulfonate	6	5	10 - 130	10	40	J J	J M J
Methyl parathion	97	87	51 - 146	9	40		
Naphthalene	81	67	41 - 110	18	40		
Nitrobenzene	81	65	46 - 110	19	40		
N-Nitro-o-toluidine	80	77	45 - 130	1	40		
N-Nitrosodiethylamine	86	74	48 - 130	13	40		
N-Nitrosodimethylamine	98	78	33 - 110	21	40		
N-Nitrosodi-n-butylamine	116	100	41 - 130	12	40		
N-Nitrosodi-n-propylamine	101	85	45 - 112	16	40		
N-Nitrosodiphenylamine	100	92	47 - 119	6	40		
N-Nitrosomethylethylamine	101	86	47 - 130	14	40		
N-Nitrosopiperidine	88	73	53 - 130	16	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140820

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5023.d
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Date Analyzed:	06/29/2009 1934			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141880	Instrument ID:	GC/MS SemiVolatiles - G
Client Matrix:	Water	Prep Batch:	680-140820	Lab File ID:	g5024.d
Dilution:	1.0			Initial Weight/Volume:	980 mL
Date Analyzed:	06/29/2009 1958			Final Weight/Volume:	1 mL
Date Prepared:	06/19/2009 1321			Injection Volume:	1.0 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
N-Nitrosopyrrolidine	94	74	50 - 130	21	40		
o,o',o"-Triethylphosphorothioate	161	132	23 - 162	18	40		
o-Toluidine	58	53	27 - 130	6	40		
p-Dimethylamino azobenzene	92	88	29 - 169	2	40		
Pentachlorobenzene	84	75	52 - 130	9	40		
Pentachloronitrobenzene	92	86	52 - 130	6	40		
Pentachlorophenol	99	93	37 - 132	4	40		
Phenacetin	92	81	62 - 130	10	40		
Phenanthrene	89	81	52 - 117	7	40		
Phenol	77	64	39 - 110	15	40		
Phorate	65	71	29 - 181	11	40		
p-Phenylene diamine	0	0	10 - 130	NC	40	U J	U J
Pronamide	94	89	64 - 134	4	40		
Pyrene	91	82	52 - 125	8	40		
Safrole	83	68	39 - 130	17	40		
Sulfotepp	95	87	44 - 130	6	40		
Thionazin	98	94	48 - 135	3	40		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	83	80	40 - 139
2-Fluorobiphenyl	77	68	50 - 113
2-Fluorophenol	74	65	36 - 110
Nitrobenzene-d5	82	71	45 - 112
Phenol-d5	73	65	38 - 116
Terphenyl-d14	78	79	10 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: MB 680-140966/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1454
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.0065	U	0.0065	0.10
4,4'-DDE	0.0077	U	0.0077	0.10
4,4'-DDT	0.0097	U	0.0097	0.10
Aldrin	0.0070	U	0.0070	0.050
alpha-BHC	0.0057	U	0.0057	0.050
beta-BHC	0.0067	U	0.0067	0.050
Chlordane (technical)	0.10	U	0.10	0.50
Chlorobenzilate	0.50	U	0.50	1.5
delta-BHC	0.0048	U	0.0048	0.050
Dieldrin	0.0091	U	0.0091	0.10
Endosulfan I	0.0042	U	0.0042	0.050
Endosulfan II	0.0098	U	0.0098	0.10
Endosulfan sulfate	0.0068	U	0.0068	0.10
Endrin	0.0097	U	0.0097	0.10
Endrin aldehyde	0.016	U	0.016	0.10
gamma-BHC (Lindane)	0.0059	U	0.0059	0.050
Heptachlor	0.0070	U	0.0070	0.050
Heptachlor epoxide	0.0060	U	0.0060	0.050
Isodrin	0.050	U	0.050	0.15
Methoxychlor	0.013	U	0.013	0.50
PCB-1016	0.071	U	0.071	1.0
PCB-1221	0.28	U	0.28	2.0
PCB-1232	0.11	U	0.11	1.0
PCB-1242	0.18	U	0.18	1.0
PCB-1248	0.36	U	0.36	1.1
PCB-1254	0.26	U	0.26	1.0
PCB-1260	0.20	U	0.20	1.0
Toxaphene	0.50	U	0.50	5.0

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	67	35 - 120
DCB Decachlorobiphenyl	68	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-140966/18-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1513
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25009.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	0.200	0.150	75	37 - 179	M
4,4'-DDE	0.200	0.132	66	33 - 142	
4,4'-DDT	0.200	0.196	98	27 - 141	
Aldrin	0.100	0.0744	74	32 - 114	
alpha-BHC	0.100	0.0660	66	29 - 112	
beta-BHC	0.100	0.0726	73	15 - 204	J
delta-BHC	0.100	0.0919	92	25 - 123	
Dieldrin	0.200	0.168	84	45 - 137	
Endosulfan I	0.100	0.0799	80	31 - 134	
Endosulfan II	0.200	0.157	79	24 - 144	
Endosulfan sulfate	0.200	0.178	89	44 - 128	
Endrin	0.200	0.139	69	38 - 144	
Endrin aldehyde	0.201	0.221	110	37 - 135	
gamma-BHC (Lindane)	0.100	0.0695	70	31 - 118	
Heptachlor	0.100	0.0749	75	30 - 133	
Heptachlor epoxide	0.100	0.0855	85	34 - 126	
Methoxychlor	0.201	0.169	84	10 - 243	J

Lab Control Sample - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

Lab Sample ID: LCS 680-140966/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 1533
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141458
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - M
Lab File ID: mf25010.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	10.0	9.78	98	57 - 124	
PCB-1260	10.0	8.72	87	58 - 124	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	76	35 - 120
DCB Decachlorobiphenyl	87	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	58	73	35 - 120
DCB Decachlorobiphenyl	95	81	14 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

LCS Lab Sample ID:	LCS 680-140966/23-A	Analysis Batch:	680-141459	Instrument ID:	GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch:	680-140966	Lab File ID:	mf25034.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/25/2009 2321			Final Weight/Volume:	10 mL
Date Prepared:	06/22/2009 1321			Injection Volume:	1.0 uL
				Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 680-140966/24-A	Analysis Batch:	680-141459	Instrument ID:	GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch:	680-140966	Lab File ID:	mf25035.d
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/25/2009 2341			Final Weight/Volume:	10 mL
Date Prepared:	06/22/2009 1321			Injection Volume:	1.0 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Toxaphene	103	110	30 - 120	6	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	69	69	35 - 120
DCB Decachlorobiphenyl	80	63	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140966

Method: 8081A_8082
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141458	Instrument ID:	GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch:	680-140966	Lab File ID:	mf25013.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	06/25/2009 1631			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1321			Injection Volume:	1.0 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141458	Instrument ID:	GC SemiVolatiles - M
Client Matrix:	Water	Prep Batch:	680-140966	Lab File ID:	mf25014.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Date Analyzed:	06/25/2009 1650			Final Weight/Volume:	5 mL
Date Prepared:	06/22/2009 1321			Injection Volume:	1.0 uL
				Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	81	71	37 - 179	13	40		
4,4'-DDE	68	56	33 - 142	19	40		
4,4'-DDT	114	100	27 - 141	13	40		
Aldrin	72	64	32 - 114	11	40		
alpha-BHC	66	58	29 - 112	13	40		
beta-BHC	74	62	15 - 204	17	40	J	J
delta-BHC	93	79	25 - 123	16	40		
Dieldrin	86	74	45 - 137	15	40		
Endosulfan I	79	69	31 - 134	13	40		
Endosulfan II	82	75	24 - 144	10	40		
Endosulfan sulfate	96	91	44 - 128	6	40		
Endrin	71	67	38 - 144	6	40		
Endrin aldehyde	120	118	37 - 135	2	40		
gamma-BHC (Lindane)	71	63	31 - 118	12	40		
Heptachlor	79	68	30 - 133	15	40		
Heptachlor epoxide	59	57	34 - 126	3	40	J	J
Methoxychlor	103	103	10 - 243	0	40	J	J

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	52	61	35 - 120
DCB Decachlorobiphenyl	93	105	14 - 115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: MB 680-140966/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2004
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25028.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Azinphos-methyl	1.0	U	1.0	3.0
Bolstar	1.0	U	1.0	3.0
Chlorpyrifos	1.0	U	1.0	3.0
Coumaphos	1.0	U	1.0	3.0
Demeton-O	2.5	U	2.5	7.5
Demeton-S	2.5	U	2.5	7.5
Diazinon	1.0	U	1.0	3.0
Dichlorvos	2.0	U	2.0	6.0
Dimethoate	2.0	U	2.0	6.0
Disulfoton	2.0	U	2.0	6.0
EPN	1.0	U	1.0	3.0
Famphur	2.0	U	2.0	6.0
Fensulfothion	5.0	U	5.0	15
Fenthion	1.0	U	1.0	3.0
Malathion	1.0	U	1.0	3.0
Merphos	1.5	U	1.5	4.5
Methyl parathion	0.50	U	0.50	1.5
Mevinphos	2.0	U	2.0	6.0
Ethoprop	0.50	U	0.50	1.5
Monochrotophos	10	U	10	30
Naled	5.0	U	5.0	15
Ethyl Parathion	1.0	U	1.0	3.0
Phorate	1.0	U	1.0	3.0
Ronnel	1.0	U	1.0	3.0
Stirophos	1.0	U	1.0	3.0
Sulfotepp	0.50	U	0.50	1.5
Thionazin	1.0	U	1.0	3.0
Tokuthion	1.0	U	1.0	3.0
Trichloronate	1.0	U	1.0	3.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	60	36 - 184

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/25-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2029
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25029.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Azinphos-methyl	4.00	3.04	76	70 - 130	
Bolstar	4.00	3.94	99	70 - 130	
Chlorpyrifos	4.00	3.57	89	70 - 130	
Coumaphos	4.00	3.28	82	70 - 130	
Diazinon	4.00	3.70	92	41 - 173	M
Dichlorvos	4.00	3.09	77	70 - 130	J
Disulfoton	4.00	2.87	72	70 - 130	J M
Fensulfothion	4.00	5.0	87	70 - 130	U
Fenthion	4.00	3.17	79	70 - 130	
Merphos	4.00	1.5	20	70 - 130	U M Q
Methyl parathion	4.00	3.14	78	37 - 190	
Mevinphos	4.00	2.84	71	70 - 130	J
Ethoprop	4.00	3.35	84	70 - 130	
Naled	4.00	5.0	88	70 - 130	U M
Phorate	4.00	3.17	79	70 - 130	
Ronnel	4.00	3.67	92	10 - 191	
Tokuthion	4.00	3.37	84	70 - 130	
Trichloronate	4.00	3.83	96	70 - 130	

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	72	36 - 184

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/28-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2054
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25030.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dimethoate	4.00	3.28	82	70 - 130	J M
EPN	4.00	3.61	90	70 - 130	
Famphur	4.00	2.99	75	70 - 130	J
Malathion	4.00	3.53	88	70 - 130	
Monochrotophos	40.0	12.4	31	30 - 130	J M
Ethyl Parathion	4.00	3.57	89	55 - 166	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140966

Method: 8141A
Preparation: 3520C

Lab Sample ID: LCS 680-140966/28-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 2054
Date Prepared: 06/22/2009 1321

Analysis Batch: 680-141466
Prep Batch: 680-140966
Units: ug/L

Instrument ID: GC SemiVolatiles - O
Lab File ID: of25030.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfotepp	4.00	3.22	81	70 - 130	M
Thionazin	4.00	2.59	65	23 - 186	J

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate	74	36 - 184

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140966

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch: 680-141466	Instrument ID: GC SemiVolatiles - O
Client Matrix:	Water	Prep Batch: 680-140966	Lab File ID: of25032.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/25/2009 2144		Final Weight/Volume: 5 mL
Date Prepared:	06/22/2009 1321		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-48180-1	Analysis Batch: 680-141466	Instrument ID: GC SemiVolatiles - O
Client Matrix:	Water	Prep Batch: 680-140966	Lab File ID: of25033.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/25/2009 2208		Final Weight/Volume: 5 mL
Date Prepared:	06/22/2009 1321		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Azinphos-methyl	76	101	70 - 130	29	40		
Bolstar	87	104	70 - 130	17	40		
Chlorpyrifos	77	103	70 - 130	29	40		
Coumaphos	85	99	70 - 130	15	40		
Diazinon	79	101	41 - 173	25	40		
Dichlorvos	65	95	70 - 130	38	40	J J	J
Disulfoton	72	94	70 - 130	26	40	J	J
Fensulfothion	88	110	70 - 130	NC	40	U	U
Fenthion	75	101	70 - 130	30	40	J M	
Merphos	2	16	70 - 130	NC	40	U J	U M J
Methyl parathion	68	98	37 - 190	36	40		
Mevinphos	61	99	70 - 130	48	40	J J	J J
Ethoprop	74	100	70 - 130	30	40		
Naled	72	98	70 - 130	NC	40	U M	U
Phorate	68	94	70 - 130	31	40	J J	
Ronnel	77	104	10 - 191	30	40		
Tokuthion	77	101	70 - 130	27	40		
Trichloronate	82	102	70 - 130	22	40	M	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Triphenylphosphate	82	97	36 - 184

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140966

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	680-48180-1	Analysis Batch: 680-141466	Instrument ID: GC SemiVolatiles - O
Client Matrix:	Water	Prep Batch: 680-140966	Lab File ID: of25034.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/25/2009 2233		Final Weight/Volume: 5 mL
Date Prepared:	06/22/2009 1321		Injection Volume: 2 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	680-48180-1	Analysis Batch: 680-141466	Instrument ID: GC SemiVolatiles - O
Client Matrix:	Water	Prep Batch: 680-140966	Lab File ID: of25035.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	06/25/2009 2258		Final Weight/Volume: 5 mL
Date Prepared:	06/22/2009 1321		Injection Volume: 2 uL
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dimethoate	78	76	70 - 130	2	40	J	J
EPN	109	102	70 - 130	6	40		
Famphur	94	90	70 - 130	4	40	J	J
Malathion	94	101	70 - 130	7	40		
Monochrotophos	5	46	30 - 130	NC	40	U J	J
Ethyl Parathion	95	104	55 - 166	9	40		
Sulfotepp	91	97	70 - 130	6	40	M	M
Thionazin	78	81	23 - 186	5	40		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140813

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 680-140813/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1706
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22007.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	0.037	U	0.037	0.50
2,4,5-T	0.062	U	0.062	0.50
Silvex (2,4,5-TP)	0.062	U	0.062	0.50

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	94	61 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 680-140813

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 680-140813/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1724
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22008.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-140813/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/22/2009 1743
Date Prepared: 06/19/2009 0804

Analysis Batch: 680-141201
Prep Batch: 680-140813
Units: ug/L

Instrument ID: GC SemiVolatiles - S
Lab File ID: sf22009.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-D	105	107	61 - 127	2	40		
2,4,5-T	85	80	52 - 129	6	40		
Silvex (2,4,5-TP)	89	92	55 - 110	4	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	83	91	61 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140503

Method: 6020
Preparation: 3030C

Lab Sample ID:	MB 680-140503/10-A	Analysis Batch:	680-141124	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-140503	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/21/2009 1800			Final Weight/Volume:	50 mL
Date Prepared:	06/16/2009 1453				

Analyte	Result	Qual	MDL	RL
Antimony	0.99	U	0.99	3.0
Arsenic	0.40	U	0.40	1.2
Barium	0.15	U	0.15	1.0
Beryllium	0.070	U	0.070	0.21
Cadmium	0.20	U	0.20	0.60
Chromium	0.16	U	0.16	1.0
Cobalt	0.078	U	0.078	0.23
Copper	0.22	J	0.21	1.0
Lead	0.080	U	0.080	0.30
Nickel	0.25	J	0.20	0.60
Selenium	0.21	U	0.21	0.63
Silver	0.10	U	0.10	0.30
Thallium	0.10	U	0.10	0.30
Tin	0.40	U	0.40	1.2
Vanadium	1.4	U	1.4	5.9
Zinc	2.6	U	2.6	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Lab Control Sample - Batch: 680-140503

Method: 6020
Preparation: 3030C

Lab Sample ID: LCS 680-140503/11-A
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 06/21/2009 1807
Date Prepared: 06/16/2009 1453

Analysis Batch: 680-141124
Prep Batch: 680-140503
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	50.2	100	75 - 125	
Arsenic	100	109	109	75 - 125	
Barium	100	109	109	75 - 125	
Beryllium	50.0	52.8	106	75 - 125	
Cadmium	50.0	53.7	107	75 - 125	
Chromium	100	101	101	75 - 125	
Cobalt	50.0	48.8	98	75 - 125	
Copper	100	106	106	75 - 125	
Lead	50.0	50.4	101	75 - 125	
Nickel	100	104	104	75 - 125	
Selenium	100	107	107	75 - 125	
Silver	50.0	50.8	102	75 - 125	
Thallium	40.0	42.6	106	75 - 125	
Tin	100	104	104	75 - 125	
Vanadium	100	103	103	75 - 125	
Zinc	100	108	108	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140503

Method: 6020
Preparation: 3030C

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141124	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-140503	Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/21/2009 1833			Final Weight/Volume:	50 mL
Date Prepared:	06/16/2009 1453				

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141124	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-140503	Lab File ID:	N/A
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/21/2009 1840			Final Weight/Volume:	50 mL
Date Prepared:	06/16/2009 1453				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	98	97	75 - 125	1	20		
Arsenic	106	104	75 - 125	3	20		
Barium	105	104	75 - 125	1	20		
Beryllium	104	103	75 - 125	1	20		
Cadmium	105	103	75 - 125	2	20		
Chromium	99	97	75 - 125	2	20		
Cobalt	95	94	75 - 125	1	20		
Copper	103	101	75 - 125	2	20		
Lead	100	99	75 - 125	1	20		
Nickel	103	99	75 - 125	3	20		
Selenium	104	102	75 - 125	1	20		
Silver	98	97	75 - 125	1	20		
Thallium	106	104	75 - 125	1	20		
Tin	104	102	75 - 125	2	20		
Vanadium	101	98	75 - 125	3	20		
Zinc	105	106	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140703

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-140703/16-A	Analysis Batch:	680-141550	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-140703	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/25/2009 1855			Final Weight/Volume:	50 mL
Date Prepared:	06/18/2009 0939				

Analyte	Result	Qual	MDL	RL
Mercury	0.091	U	0.091	0.27

Lab Control Sample - Batch: 680-140703

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-140703/17-A	Analysis Batch:	680-141550	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-140703	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	06/25/2009 1858			Final Weight/Volume:	50 mL
Date Prepared:	06/18/2009 0939				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.40	96	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140703

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-141550	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-140703	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/25/2009 1904			Final Weight/Volume:	50 mL
Date Prepared:	06/18/2009 0939				

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-141550	Instrument ID:	LEEMAN1
Client Matrix:	Water	Prep Batch:	680-140703	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	06/25/2009 1906			Final Weight/Volume:	50 mL
Date Prepared:	06/18/2009 0939				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	98	98	80 - 120	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140590

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 680-140590/2	Analysis Batch:	680-140590	Instrument ID:	ICCS200 - G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0026.d
Dilution:	5.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	06/16/2009 1754			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as NO3	0.10	U	0.10	0.50

Lab Control Sample - Batch: 680-140590

Method: 300.0
Preparation: N/A

Lab Sample ID:	LCS 680-140590/3	Analysis Batch:	680-140590	Instrument ID:	ICCS200 - G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0027.d
Dilution:	5.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	06/16/2009 1806			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as NO3	5.00	4.68	94	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140590

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-140590	Instrument ID:	ICCS200 - G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0030.d
Dilution:	5.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	06/16/2009 1843			Final Weight/Volume:	5 mL
Date Prepared:	N/A				1 uL

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-140590	Instrument ID:	ICCS200 - G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	0032.d
Dilution:	5.0			Initial Weight/Volume:	1.0 mL
Date Analyzed:	06/16/2009 1908			Final Weight/Volume:	5 mL
Date Prepared:	N/A				1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate as NO3	99	93	90 - 110	6	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-141175

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: MB 680-141175/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.0025	U	0.0025	0.010

Lab Control Sample - Batch: 680-141175

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: LCS 680-141175/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0301	0.0310	103	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-141175

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 680-48180-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 680-48180-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/25/2009 0944
Date Prepared: 06/24/2009 0615

Analysis Batch: 680-141321
Prep Batch: 680-141175

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	106	96	90 - 110	9	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: U.S. Army Corps of Engineers

Job Number: 680-48180-1

Method Blank - Batch: 680-140692

Method: 9034
Preparation: 9030B

Lab Sample ID:	MB 680-140692/1-A	Analysis Batch:	680-140778	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	680-140692	Lab File ID:	N/A
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	250 mL
Date Analyzed:	06/18/2009 1525			Final Weight/Volume:	250 mL
Date Prepared:	06/18/2009 0832				

Analyte	Result	Qual	RL	RL
Sulfide	1.0	U	1.0	1.0

Lab Control Sample - Batch: 680-140692

Method: 9034
Preparation: 9030B

Lab Sample ID:	LCS 680-140692/2-A	Analysis Batch:	680-140778	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	680-140692	Lab File ID:	N/A
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	250 mL
Date Analyzed:	06/18/2009 1525			Final Weight/Volume:	250 mL
Date Prepared:	06/18/2009 0832				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide	9.89	8.11	82	50 - 150	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-140692

Method: 9034
Preparation: 9030B

MS Lab Sample ID:	680-48180-1	Analysis Batch:	680-140778	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	680-140692	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	250 mL
Date Analyzed:	06/18/2009 1525			Final Weight/Volume:	250 mL
Date Prepared:	06/18/2009 0832				

MSD Lab Sample ID:	680-48180-1	Analysis Batch:	680-140778	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	680-140692	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	250 mL
Date Analyzed:	06/18/2009 1525			Final Weight/Volume:	250 mL
Date Prepared:	06/18/2009 0832				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfide	79	82	50 - 150	4	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica INCORPORATED

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: USACE Client #: _____
Address: 100 W Oglethorpe Ave
City/State/Zip Code: Savannah GA 31401
Project Manager: Kevin Haborak
Telephone Number: (912) 657-5477 3255 Fax: —
Sampler Name: (Print Name) Kevin Haborak
Sampler Signature: [signature]

Project Name: Longstreet LF
Project #: _____
Site/Location ID: Fayetteville State: NC
Report To: Kevin Haborak
Invoice To: Judson Smith
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y (N)

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other

Preservation & # of Containers

Analyze For:

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO3	HCl	NaOH	H2SO4	Methanol	None	Other (Specify) H2O2/ZnAc	8270 SVOC	8141 organophosphorus	8081 Pest	8080 Pest & 8082 PCB	Nitrate	App II metals 3020C	App II VOC 8260	Sulfide	Cyanide		REMARKS
SLMW-12BR-06-09	6/15/09	0800	G	N	GW	1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		metals extract by 3030C
SLMW-12BR-11-09 MSD	6/15/09	0800				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
SLMW-12BR-11-09 MS	6/15/09	0800				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
SLMW-12AR-06-09	6/15/09	0910				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
SLMW-8-06-09	6/15/09	1215				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
SLMW-7-06-09	6/15/09	1255				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
TRIP BLANK	—	—				X	3	X	X		X	X							X				
SLMW-Blank	6/15/09	1305				1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		
	6/15/09					1	3																
SLMW-Dup-1	6/15/09	0000	V	V	V	1	3	1	1		6	1	X	X	X	X	X	X	X	X	X		

Special Instructions: Email Results to Kevin.Haborak@USACE.ARMY.MIL

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	6/15/09	1745	[signature]	6/16/09	0907

LABORATORY COMMENTS:
Init Lab Temp: 0.4 / 1.6 / 1.1 / 0.8
Rec Lab Temp: 1.5 / 1.3
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

1

680-48180
1+2

TestAmerica INCORPORATED

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: USACE Client #: _____
Address: 100 W Oglethorpe Ave
City/State/Zip Code: Savannah GA 31401
Project Manager: Kevin Habarak
Telephone Number: (912) 597 3255 Fax: —
Sampler Name: (Print Name) Kevin Habarak
Sampler Signature: [signature]

Project Name: Longstreet LF
Project #: _____
Site/Location ID: Fayetteville State: NC
Report To: Kevin Habarak
Invoice To: Judson Smith
Quote #: _____ PO#: _____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y (N)

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify) Hg, Zn Ac	Analyze For: 8270 SVOC	8141 Organophosphorus	8081 Pest	8082 PCB	Nitrate	App II metals 2020C	App II VOC 8260	Sulfide	Cyanide	QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____	REMARKS
SL MW-11R-06-09	6/15/09	1540	G	N	GW	1	3	1	-	-	6	1											metals extract by 2020C

Special Instructions: Email Results to Kevin.Habarak@USACE.ARMY.MIL

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

Relinquished By	Date	Time	Received By	Date	Time
[signature]	6/15/09	1745	[signature]	6/16/09	0907

(2)

680 - 48180

APPENDIX D

STATISTICAL REPORTS
(Electronic Only)

Statistical Analysis of Ground-Water Data
Longstreet Road MSW Landfill
Fort Bragg, North Carolina
Rounds N1 through N25

EXECUTIVE SUMMARY

Fort Bragg authorized the U.S. Army Corps of Engineers, Savannah District to perform required sampling of the Longstreet Road Municipal Solid Waste (MSW) Landfill. Sampling activities for the twenty-fifth round of sampling (N=25) were conducted June, 2009. All background and compliance wells were sampled. Ground-water data were statistically analyzed to determine if the mean concentration for each analyte deviated significantly from the mean concentration of the analytes detected in the background well. Appendix II analysis was performed on all ground-water samples collected. Any analyte with a detection since the beginning of the study was analyzed with the Kruskal Wallis Tests. Any analyte detection during this event was tested to determine if the detection was a statistically significant increase (SSI) over background levels.

The samples collected at the Longstreet Road Municipal Solid Waste Landfill did not exhibit any evidence of SSIs in the analytical results with the following exceptions: 1,1-dichloroethane data from MW-9 and chlorobenzene data from MW-8 represented SSIs. Future analytical results will be evaluated using the same procedures.

REGISTERED PROFESSIONAL GEOLOGIST CERTIFICATION

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post graduate degree in the natural sciences or engineering and have sufficient training and experience in ground-water hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

_____

Kevin G. Haborak, P.G.

DATE: September, 2009

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Attachment A: ..... Statistical Calculations

1.0 BACKGROUND

Fort Bragg authorized the U.S. Army Corps of Engineers, Savannah District to perform the required sampling of the Longstreet Road MSW Landfill. Sampling activities for the twenty-fourth round of sampling (N=24) were conducted November 17, 2008. The landfill is a Municipal Solid Waste Landfill Facility (MSWLF) located north of Longstreet Road at Fort Bragg in Cumberland County, North Carolina.

A comparison of statistical procedures was performed using this data to determine an adequate statistical analysis for future monitoring at the facility as required. Guidance for determining proper statistical methods was obtained from the EPA guidance document titled: Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities - Interim Final Guidance, April 1989 (herein referenced as the Guidance) and it's addendum Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance, July 1992 (herein referenced as the Addendum). The statistical computer software ChemStat (version 5.0) used for this analysis is based on the guidance documents referenced above.

Factors that were considered in selecting a statistical method include departures from normality, unequal variances, temporal and spatial variability, and the percentage of non-detects. Tests for normality that were considered include Probability Plots, Chi-Squared, Shapiro-Wilk Test, and Shapiro-Francia Test. Statistical analysis procedures considered were parametric Two Sample t-Test and non-parametric Wilcoxin Rank-Sum Test, parametric ANOVA Tests and non-parametric Kruskal-Wallis Test, Tolerance and Prediction Intervals' and Control Charts.

2.0 DETERMINATION OF APPROPRIATE DISTRIBUTION MODEL

A statistical test predicts the average behavior (distribution) of a random variable by comparing the means (normal distribution) or medians (lognormal and non-parametric distributions) of the compliance well data to background well data. Before conducting a statistical analysis, a distributional assumption must be tested to determine whether the data conforms to the assumed distribution.

Prior to testing for significance, the distribution of each parameter is determined to be normal, lognormal, or neither. First, the dataset is used to test the assumption that the distribution is normal. If this assumption is rejected, the same data are log transformed and the hypothesis that the distribution is lognormal is tested. If these assumptions are rejected, it is concluded that the data are neither normally nor lognormally distributed. The data is determined to be non-normal if the distribution of each parameter is determined to be neither normal nor lognormal.

The Shapiro-Francia Test was selected as the main test to determine whether the data conform to the assumed distribution. This test has a good likelihood of distinguishing between the target distribution (normal) and other common distributions (for example, uniform or skewed), and is recommended for data sets with 50 or more samples.

3.0 SELECTION OF STATISTICAL METHOD

The ground-water samples were analyzed for Appendix II organics and inorganics. Monitoring well MW-13 serves as the background well. The eight compliance wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12A and MW-12B) were compared to the background concentrations by means of the applicable statistical procedure. These monitoring wells are listed on Table 1.

Table 1. Ground-Water Monitoring Network

WELL NAME	STATUS
MW-6	**Active - Compliance Monitoring Well**
MW-7	**Active - Compliance Monitoring Well**
MW-8	**Active - Compliance Monitoring Well**
MW-9	**Active - Compliance Monitoring Well**
MW-10	**Active - Compliance Monitoring Well**
MW-11	**Active - Compliance Monitoring Well**
MW-12A	**Active - Compliance Monitoring Well**
MW-12B	**Active - Compliance Monitoring Well**
MW-13	**Active - Compliance Monitoring Well (Background)**

For this report, contamination is described as the difference in average concentrations between the background and compliance sample data. Random variation of the sample results will occur, but this variation does not necessarily represent contamination. The statistical test used for this report will predict the average behavior (distribution) of a random variable by comparing the means (normal) or medians (lognormal and non-parametric) of compliance well data to background data. It tests the hypothesis that all background and compliance wells have the same median concentration of a constituent. If the hypothesis of equal medians is rejected, then additional calculations are required to determine which compliance wells show evidence of contamination.

Different statistical tests are used as appropriate for the different distribution patterns that occur within the data. Prior to testing for statistical significance, the distribution of each parameter was determined to be normal, lognormal, or non-normal. The Shapiro-Francia Test was selected as the primary test to determine whether the data conform to the assumed distribution. This test has a good likelihood of distinguishing between the target distribution (normal) and other common distributions (for example, uniform or skewed) and is valid for samples with 50 or more observations. The process of choosing the appropriate statistical analyses is illustrated on Figure 1.

The ANOVA Test assumes that there are at least three groups of data (including background), with a minimum of four samples per group. It also assumes that the results are normally or lognormally distributed. This test calculates the F-statistic and its corresponding significance probability. If the computed F-statistic is not significant (less than the tabulated F-statistic), it is concluded that there is no significant difference between the average background

concentration and the average concentrations of compliance wells. If the F-statistic is significant, it is concluded that at least one pair of well groups is probably different. In this case, ANOVA proceeds to make individual comparisons between background and compliance well data to isolate which well(s) show evidence of contamination.

If the data were non-normally distributed, or the fraction of nondetects exceeded 15% but were less than 90%, then the Kruskal-Wallis Test was applied. If the fraction of non-detects exceeded 90%, then the Non-Parametric Prediction Limit was applied. For these tests to be sufficiently sensitive, the sample size for any group must be at least four. A Kruskal-Wallis Test can be used in any situation that the parametric analysis of variance can be used. This test computes the H-statistic, adjusts it for ties, and compares it to the appropriate chi-square critical value. If the H-statistic is less than the critical value, the null-hypothesis is accepted, and it is concluded that there are no differences between median background and compliance well concentrations. If the H-statistic is greater than the critical value, it is concluded that at least one pair of well groups is statistically different.

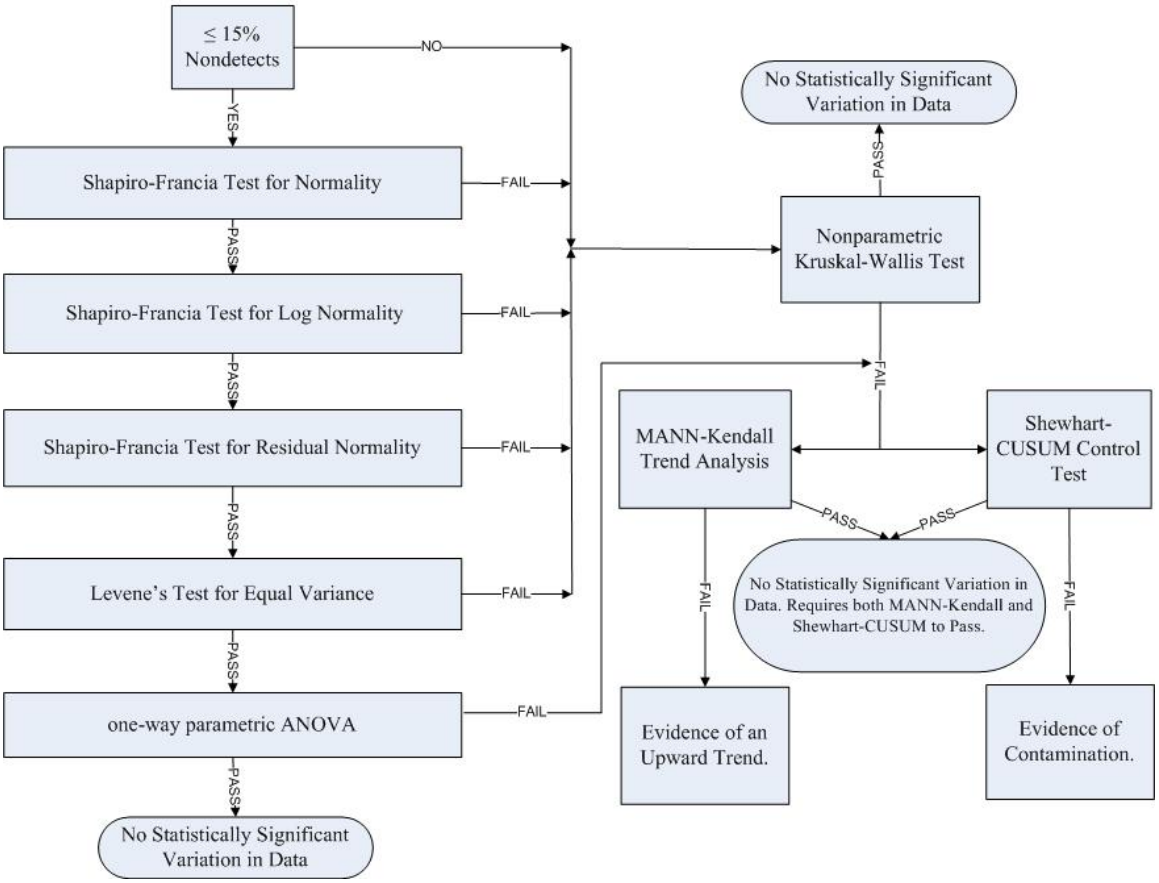
In this case, the Kruskal-Wallis Test performs post-hoc comparisons between background and compliance well data to determine which wells, if any, show evidence of contamination. If the difference between the average ranks and the mean background rank of any individual well exceeds the critical difference calculated for that well, then evidence of contamination exists. A drawback to the Kruskal-Wallis Test is the dependence on background samples. Fewer background samples will result in an increase of incidence of false positives. An additional drawback to the Kruskal-Wallis Test is that past detections can be the cause for the determination of a statistically significant increase since the test does not discriminate between present and past values.

Additional statistical analyzes can help to determine the validity of the positive results. Intra-well comparisons comparing data from a single well to previous data from the same well are performed to determine if a trend of increasing concentration is occurring. The Mann-Kendall Trend Analysis and the Shewhart-CUSUM Control Charts were selected for these additional analyses.

The purpose for the Mann-Kendall Trend Analysis is to determine trends in sets of data. The assumption of the Mann-Kendall Trend Analysis procedure is the idea that, if an increasing trend really exists, the sample taken first from any randomly selected pair of measurements should, on average, have a lower concentration than the measurement collected at a later point. The result for a data set being examined by the Mann-Kendall Trend Analysis is either an upward trend, a downward trend or no trend.

The Shewhart-CUSUM Control Chart is a graphical method to assess contamination levels for individual wells. This analysis visually tracks concentrations at a given well over time to determine whether they exceed critical thresholds, thus implying a significant increase over the baseline value. Shewhart-CUSUM Control Charts are very susceptible to false positives. However, the graph is useful in providing a visual indication of changing trends in parameter concentrations.

Figure 1: Flowchart of the Statistical Tests Performed for Each Analyte Detected in Compliance Wells



4.0 FIELD ACTIVITIES

This section describes the procedures that were followed for equipment decontamination, ground-water sampling, quality assurance sampling, preservation, handling, and shipment of samples. Ground-water samples were collected using a low-flow purge method with a bladder pump. Immediately before purging a well, the static water level below the top of the well casing and the total depth of the well were measured to the nearest 0.01 foot and recorded in the field notebook.

The volume of water in the well, including the saturated pore volume (assumed to be 30%) of the sand-packed annulus, was calculated based on the static water level and the well construction information. Well volume calculations were placed in the field notebook. The inlet of the sampling pump was placed at the mid-point of the screened interval. This level was adjusted for wells where the static water level is within the well screen. The monitoring wells were purged using a variable-flow bladder pump at a rate of 500 ml/min or less.

Temperature and specific conductance were monitored to ensure the water quality had stabilized to within 10% of the previous reading. Turbidity readings should either stabilize at or be lower than 10 Nephelometric Turbidity Units (NTUs). Stabilization occurs with pH measurements when readings remain constant within 0.1 Standard Units (SU). The rate of

pumping was determined and noted in the field notebook. The purge rate was adjusted, as necessary, to avoid purging any well to dryness and to equal the recharge of the aquifer.

All sampling equipment was protected from contaminated soil surfaces to prevent contamination of the samples (e.g., equipment may be placed on disposable polyethylene plastic sheeting). Ground-water sampling data (including sample number, location, quantity of water purged, field parameters, site conditions, etc.) were documented in the field notebook.

5.0 RESULTS

Fort Bragg authorized the U.S. Army Corps of Engineers, Savannah District to perform the required sampling of the Lamont Land Clearing and Inert Debris Landfill. The evaluation of ground-water data was in accordance with 15A NC3AC 13B.1634 for detection monitoring systems.

Sampling activities occurred in June, 2009. The background and compliance wells sampled are listed on Table 1. Ground-water data were statistically analyzed to determine if the mean concentration for each analyte deviated significantly from the mean concentration from the background well data. Any analyte with a detection during this event was tested to determine if the detection was a statistically significant increase over background levels.

Analysis of the 1,1-dichloroethane data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8, MW-9, MW-10, MW-11R, and MW-12AR. The possible SSIs in MW-8, MW-10, MW-11R, and MW-12AR were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart. The possible SSI in MW-9 was confirmed by both the Mann-Kendall Trend Analysis and the Shewhart-CUSUM Control Chart.

Analysis of the acetone data using the Kruskal-Wallis test indicated a possible SSI in monitoring well MW-7. The SSI was not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart. The fluctuations in the acetone data in monitoring well MW-7 are not SSIs.

Analysis of the arsenic data using the Kruskal-Wallis test indicated a possible SSI in monitoring well MW-9. The SSI was confirmed by the Mann-Kendall Trend Analysis but was not confirmed by the Shewhart-CUSUM Control Chart. Since the statistical tests are inconclusive, further data is needed to confirm the SSI.

Analysis of the benzene data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8, MW-9 and MW-11R. The possible SSIs in MW-9 and MW-11R were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart. The data for MW-9 and MW-11R are not considered to be SSIs. The possible SSI in MW-8 was confirmed by the Mann-Kendall Trend Analysis but was not confirmed by the Shewhart-CUSUM Control Chart. Since the statistical tests are inconclusive, further data is needed to confirm the SSI for MW-8.

Analysis of the chlorobenzene data using the Kruskal-Wallis test indicated a possible SSI at the group level, no single well was indicated to have an SSI. Therefore, the Non-Parametric Prediction Limit was used to test if the data contained SSIs. The Non-Parametric Prediction

Limit indicated that the data for MW-8 possibly contained a SSI. The possible SSI in MW-8 was confirmed by both the Mann-Kendall Trend Analysis and the Shewhart-CUSUM Control Chart.

Analysis of the cis-1,2-dichlorobenzene data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8, MW-10, and MW-11R. The possible SSIs were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

Analysis of the dichlorodifluoromethane data using the Kruskal-Wallis test indicated a possible SSI in monitoring well MW-11R. The possible SSI was not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

Analysis of the ethyl chloride data using the Kruskal-Wallis test indicated a possible SSI in monitoring well MW-7. The possible SSI was not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

Analysis of the tetrachloroethene data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8 and MW-11R. The possible SSIs were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

Analysis of the toluene data using the Kruskal-Wallis test indicated a possible SSI at the group level, no single well was indicated to have an SSI. Therefore, the Non-Parametric Prediction Limit was used to test if the data contained SSIs. The Non-Parametric Prediction Limit did not indicate that the data contained possible SSIs for any of the wells.

Analysis of the trichloroethene data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8, MW-10, and MW-11R. The possible SSIs were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

Analysis of the vanadium data using the Kruskal-Wallis test indicated a possible SSI at the group level, no single well was indicated to have an SSI. Therefore, the Non-Parametric Prediction Limit was used to test if the data contained SSIs. The Non-Parametric Prediction Limit did not indicate that the data contained possible SSIs for any of the wells.

Analysis of the vinyl chloride data using the Kruskal-Wallis test indicated a possible SSI in monitoring wells MW-8 and MW-10. The possible SSIs were not confirmed by either the Mann-Kendall Trend Analysis or the Shewhart-CUSUM Control Chart.

6.0 CONCLUSIONS

The samples collected at the Longstreet Road Municipal Solid Waste Landfill did not exhibit any evidence of SSIs in the analytical results with the following exceptions: 1,1-dichloroethane data from MW-9 and chlorobenzene data from MW-8 represented SSIs. Future analytical results will be evaluated using the same procedures.

7.0 REFERENCES

EPA, Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities - Interim Final Guidance, April 1989.

EPA, Statistical Analysis of Ground Water Monitoring Data at RCRA Facilities - Addendum to Interim Final Guidance, July 1992.

EPA, Region IV, *Standard Operating Procedures and Quality Assurance Manual*, Revision 1, November, 2001.

North Carolina Administrative Code, Title 15A, Department of Environment, Health, and Natural Resources, Division of Solid Waste, Management, Subchapter 13B, Solid Waste Management, Section .1600, January 4, 1994.

Attachment A

Statistical Calculation

Concentrations (ppb)

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 106
Percent Non-Detects: 54.359%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.25	ND<0.25

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	11 (44%)	7/20/1995	0.84 J	0.84 J
			8/24/1995	0.84 J	0.84 J
			9/28/1995	2	2
			10/26/1995	3	3
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	5.3	5.3
			3/16/1999	3.6	3.6
			9/23/1999	3.5	3.5
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	2.99	2.99
			10/25/2005	2.04	2.04
			4/29/2006	1.38 J	1.38 J
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	3.17	3.17
			6/5/2008	3.24	3.24
			11/20/2008	3.11	3.11
			6/11/2009	7.6	7.6

MW-8	25	6 (24%)	7/20/1995	0.47 J	0.47 J	
			8/24/1995	12	12	
			9/28/1995	11	11	
			10/26/1995	1 J	1 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	19	19	
			3/24/1997	18	18	
			9/24/1997	22	22	
			4/7/1998	16	16	
			9/23/1998	28	28	
			3/16/1999	16.3	16.3	
			9/23/1999	16.2	16.2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	1.91 J	1.91 J	
			10/25/2005	3.43	3.43	
			4/29/2006	2.11	2.11	
			11/18/2006	2.86	2.86	
			5/23/2007	ND<2	ND<2	
			11/28/2007	4.11	4.11	
			6/5/2008	4.43	4.43	
			11/20/2008	3.08	3.08	
			6/11/2009	5.2	5.2	
MW-7	25	17 (68%)	7/20/1995	1.6 J	1.6 J	
			8/24/1995	1.1 J	1.1 J	
			9/28/1995	1 J	1 J	
			10/26/1995	2	2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	9	9	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	12	12	
			9/23/1998	12	12	
			3/16/1999	ND<2	ND<2	
			9/23/1999	5.9	5.9	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.25	ND<0.25	
MW-6	25	25 (100%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	

		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12BR	15	12 (80%)	3/16/1999		7.3	7.3
		9/23/1999	5.7	5.7		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	4.25	4.25		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12AR	15	5 (33.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	7.2	7.2		
		9/24/2003	6.9	6.9		
		3/11/2004	6.1	6.1		
		10/12/2004	6.3	6.3		
		4/1/2005	ND<2	ND<2		
		10/25/2005	1.21 J	1.21 J		
		4/29/2006	1.39 J	1.39 J		
		11/18/2006	0.83 J	0.83 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	1.15 J	1.15 J		
		6/5/2008	1.25 J	1.25 J		
		11/20/2008	0.62 J	0.62 J		
		6/11/2009	ND<0.25		ND<0.25	
MW-11R	25	7 (28%)	7/20/1995	8.5	8.5	
		8/24/1995	21	21		
		9/28/1995	19	19		
		10/26/1995	22	22		
		11/19/1996	ND<2	ND<2		
		12/19/1996	19	19		
		3/24/1997	ND<2	ND<2		
		9/24/1997	5.1	5.1		
		4/7/1998	8.4	8.4		
		9/23/1998	13	13		
		3/16/1999	10.8	10.8		
		9/23/1999	5.5	5.5		
		3/15/2000	9.9	9.9		

			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	3.86	3.86
			10/25/2005	2.18	2.18
			4/29/2006	1.68 J	1.68 J
			11/18/2006	2.07	2.07
			5/23/2007	ND<2	ND<2
			11/28/2007	4.05	4.05
			6/5/2008	ND<2	ND<2
			11/20/2008	0.56 J	0.56 J
			6/11/2009	2.9	2.9
MW-10	25	8 (32%)	7/20/1995	0.8 J	0.8 J
			8/24/1995	3.5	3.5
			9/28/1995	7	7
			10/26/1995	6	6
			11/19/1996	ND<2	ND<2
			12/19/1996	5	5
			3/24/1997	14	14
			9/24/1997	5.8	5.8
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	4.7	4.7
			9/23/1999	2.6	2.6
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	1.25 J	1.25 J
			10/25/2005	1.6 J	1.6 J
			4/29/2006	1.91 J	1.91 J
			11/18/2006	1.12 J	1.12 J
			5/23/2007	ND<2	ND<2
			11/28/2007	1.35	1.35
			6/5/2008	1.26 J	1.26 J
			11/20/2008	0.92 J	0.92 J
			6/11/2009	0.97 J	0.97 J

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: 1,1-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	53.5
	9/23/1999	ND<2	53.5
	3/15/2000	ND<2	53.5
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	ND<2	53.5
	10/25/2005	ND<2	53.5
	4/29/2006	ND<2	53.5
	11/18/2006	ND<2	53.5
	5/23/2007	ND<2	53.5
	11/28/2007	ND<2	53.5
	6/5/2008	ND<2	53.5
	11/20/2008	ND<2	53.5
	6/11/2009	ND<0.25	53.5

Rank Sum = 802.5
Rank Mean = 53.5

Background Rank Sum = 802.5
Background Rank Mean = 53.5

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	0.84 J	112
	8/24/1995	0.84 J	113
	9/28/1995	2	133
	10/26/1995	3	143
	11/19/1996	ND<2	53.5
	12/19/1996	ND<2	53.5
	3/24/1997	ND<2	53.5
	9/24/1997	ND<2	53.5
	4/7/1998	ND<2	53.5
	9/23/1998	5.3	161
	3/16/1999	3.6	151
	9/23/1999	3.5	149
	3/15/2000	ND<2	53.5
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	2.99	142
	10/25/2005	2.04	135
	4/29/2006	1.38 J	126
	11/18/2006	ND<2	53.5
	5/23/2007	ND<2	53.5
	11/28/2007	3.17	146
	6/5/2008	3.24	147

	11/20/2008	3.11	145
	6/11/2009	7.6	173

Rank Sum = 2564.5
Rank Mean = 102.58

MW-8	7/20/1995	0.47 J	107
	8/24/1995	12	180
	9/28/1995	11	179
	10/26/1995	1 J	116
	11/19/1996	ND<2	53.5
	12/19/1996	19	189
	3/24/1997	18	188
	9/24/1997	22	193
	4/7/1998	16	185
	9/23/1998	28	195
	3/16/1999	16.3	187
	9/23/1999	16.2	186
	3/15/2000	ND<2	53.5
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	1.91 J	131
	10/25/2005	3.43	148
	4/29/2006	2.11	137
	11/18/2006	2.86	140
	5/23/2007	ND<2	53.5
	11/28/2007	4.11	154
	6/5/2008	4.43	156
	11/20/2008	3.08	144
	6/11/2009	5.2	160

Rank Sum = 3396
Rank Mean = 135.84

MW-7	7/20/1995	1.6 J	128
	8/24/1995	1.1 J	118
	9/28/1995	1 J	117
	10/26/1995	2	134
	11/19/1996	ND<2	53.5
	12/19/1996	9	176
	3/24/1997	ND<2	53.5
	9/24/1997	ND<2	53.5
	4/7/1998	12	181
	9/23/1998	12	182
	3/16/1999	ND<2	53.5
	9/23/1999	5.9	165
	3/15/2000	ND<2	53.5
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	ND<2	53.5
	10/25/2005	ND<2	53.5
	4/29/2006	ND<2	53.5
	11/18/2006	ND<2	53.5
	5/23/2007	ND<2	53.5
	11/28/2007	ND<2	53.5
	6/5/2008	ND<2	53.5
	11/20/2008	ND<2	53.5
	6/11/2009	ND<0.25	53.5

Rank Sum = 2110.5
Rank Mean = 84.42

MW-6	7/20/1995	ND<2	53.5

	8/24/1995	ND<2	53.5	
	9/28/1995	ND<2	53.5	
	10/26/1995	ND<2	53.5	
	11/19/1996	ND<2	53.5	
	12/19/1996	ND<2	53.5	
	3/24/1997	ND<2	53.5	
	9/24/1997	ND<2	53.5	
	4/7/1998	ND<2	53.5	
	9/23/1998	ND<2	53.5	
	3/16/1999	ND<2	53.5	
	9/23/1999	ND<2	53.5	
	3/15/2000	ND<2	53.5	
	9/24/2003	ND<2	53.5	
	3/11/2004	ND<2	53.5	
	10/12/2004	ND<2	53.5	
	4/1/2005	ND<2	53.5	
	10/25/2005	ND<2	53.5	
	4/29/2006	ND<2	53.5	
	11/18/2006	ND<2	53.5	
	5/23/2007	ND<2	53.5	
	11/28/2007	ND<2	53.5	
	6/5/2008	ND<2	53.5	
	11/20/2008	ND<2	53.5	
	6/11/2009	ND<0.25		53.5
Rank Sum = 1337.5				
Rank Mean = 53.5				
MW-12BR	3/16/1999		7.3	172
	9/23/1999	5.7	163	
	3/15/2000	ND<2	53.5	
	9/24/2003	ND<2	53.5	
	3/11/2004	ND<2	53.5	
	10/12/2004	ND<2	53.5	
	4/1/2005	4.25	155	
	10/25/2005	ND<2	53.5	
	4/29/2006	ND<2	53.5	
	11/18/2006	ND<2	53.5	
	5/23/2007	ND<2	53.5	
	11/28/2007	ND<2	53.5	
	6/5/2008	ND<2	53.5	
	11/20/2008	ND<2	53.5	
	6/11/2009	ND<0.25		53.5
Rank Sum = 1132				
Rank Mean = 75.4667				
MW-12AR	3/16/1999		ND<2	53.5
	9/23/1999	ND<2	53.5	
	3/15/2000	7.2	171	
	9/24/2003	6.9	169	
	3/11/2004	6.1	167	
	10/12/2004	6.3	168	
	4/1/2005	ND<2	53.5	
	10/25/2005	1.21 J	121	
	4/29/2006	1.39 J	127	
	11/18/2006	0.83 J	111	
	5/23/2007	ND<2	53.5	
	11/28/2007	1.15 J	120	
	6/5/2008	1.25 J	122	
	11/20/2008	0.62 J	109	
	6/11/2009	ND<0.25		53.5
Rank Sum = 1652.5				
Rank Mean = 110.167				

MW-11R	7/20/1995	8.5	175
	8/24/1995	21	192
	9/28/1995	19	190
	10/26/1995	22	194
	11/19/1996	ND<2	53.5
	12/19/1996	19	191
	3/24/1997	ND<2	53.5
	9/24/1997	5.1	159
	4/7/1998	8.4	174
	9/23/1998	13	183
	3/16/1999	10.8	178
	9/23/1999	5.5	162
	3/15/2000	9.9	177
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	3.86	152
	10/25/2005	2.18	138
	4/29/2006	1.68 J	130
	11/18/2006	2.07	136
	5/23/2007	ND<2	53.5
	11/28/2007	4.05	153
	6/5/2008	ND<2	53.5
	11/20/2008	0.56 J	108
	6/11/2009	2.9	141

Rank Sum = 3307.5
Rank Mean = 132.3

MW-10	7/20/1995	0.8 J	110
	8/24/1995	3.5	150
	9/28/1995	7	170
	10/26/1995	6	166
	11/19/1996	ND<2	53.5
	12/19/1996	5	158
	3/24/1997	14	184
	9/24/1997	5.8	164
	4/7/1998	ND<2	53.5
	9/23/1998	ND<2	53.5
	3/16/1999	4.7	157
	9/23/1999	2.6	139
	3/15/2000	ND<2	53.5
	9/24/2003	ND<2	53.5
	3/11/2004	ND<2	53.5
	10/12/2004	ND<2	53.5
	4/1/2005	1.25 J	123
	10/25/2005	1.6 J	129
	4/29/2006	1.91 J	132
	11/18/2006	1.12 J	119
	5/23/2007	ND<2	53.5
	11/28/2007	1.35	125
	6/5/2008	1.26 J	124
	11/20/2008	0.92 J	114
	6/11/2009	0.97 J	115

Rank Sum = 2807
Rank Mean = 112.28

Calculation Results:

Kruskal-Wallis H Statistic = 51.6447
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 61.5268

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
51.6447 > 15.5073 indicating a significant group difference at 5% significance level
61.5268 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 53.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	102.58	49.08	42.8788	
MW-8	135.84	82.34	42.8788	
MW-7	84.42	30.92	42.8788	
MW-6	53.5	0	42.8788	
MW-12BR		75.4667	21.9667	47.94
MW-12AR		110.167	56.6667	47.94
MW-11R	132.3	78.8	42.8788	
MW-10	112.28	58.78	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 53.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	102.58	49.08	46.3033	
MW-8	135.84	82.34	46.3033	
MW-7	84.42	30.92	46.3033	
MW-6	53.5	0	46.3033	
MW-12BR		75.4667	21.9667	51.7686
MW-12AR		110.167	56.6667	51.7686
MW-11R	132.3	78.8	46.3033	
MW-10	112.28	58.78	46.3033	

Mann-Kendall Trend Analysis

Parameter: 1,1-Dichloroethane

Location: MW-9

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
0.84 J	0.84 J	0	0	0	
2	0.84 J	1.16	1	0	
3	0.84 J	2.16	2	0	
ND<2	0.84 J	1.16	3	0	
ND<2	0.84 J	1.16	4	0	
ND<2	0.84 J	1.16	5	0	
ND<2	0.84 J	1.16	6	0	
ND<2	0.84 J	1.16	7	0	
5.3	0.84 J	4.46	8	0	
3.6	0.84 J	2.76	9	0	
3.5	0.84 J	2.66	10	0	
ND<2	0.84 J	1.16	11	0	
ND<2	0.84 J	1.16	12	0	
ND<2	0.84 J	1.16	13	0	
ND<2	0.84 J	1.16	14	0	
2.99	0.84 J	2.15	15	0	
2.04	0.84 J	1.2	16	0	
1.38 J	0.84 J	0.54	17	0	
ND<2	0.84 J	1.16	18	0	
ND<2	0.84 J	1.16	19	0	
3.17	0.84 J	2.33	20	0	
3.24	0.84 J	2.4	21	0	
3.11	0.84 J	2.27	22	0	
7.6	0.84 J	6.76	23	0	
2	0.84 J	1.16	24	0	
3	0.84 J	2.16	25	0	
ND<2	0.84 J	1.16	26	0	
ND<2	0.84 J	1.16	27	0	
ND<2	0.84 J	1.16	28	0	
ND<2	0.84 J	1.16	29	0	
ND<2	0.84 J	1.16	30	0	
5.3	0.84 J	4.46	31	0	
3.6	0.84 J	2.76	32	0	
3.5	0.84 J	2.66	33	0	
ND<2	0.84 J	1.16	34	0	
ND<2	0.84 J	1.16	35	0	
ND<2	0.84 J	1.16	36	0	
ND<2	0.84 J	1.16	37	0	
2.99	0.84 J	2.15	38	0	
2.04	0.84 J	1.2	39	0	
1.38 J	0.84 J	0.54	40	0	
ND<2	0.84 J	1.16	41	0	
ND<2	0.84 J	1.16	42	0	
3.17	0.84 J	2.33	43	0	
3.24	0.84 J	2.4	44	0	
3.11	0.84 J	2.27	45	0	
7.6	0.84 J	6.76	46	0	

3	2	1	47	0
ND<2	2	0	47	0
ND<2	2	0	47	0
ND<2	2	0	47	0
ND<2	2	0	47	0
ND<2	2	0	47	0
5.3	2	3.3	48	0
3.6	2	1.6	49	0
3.5	2	1.5	50	0
ND<2	2	0	50	0
ND<2	2	0	50	0
ND<2	2	0	50	0
ND<2	2	0	50	0
2.99	2	0.99	51	0
2.04	2	0.04	52	0
1.38 J	2	-0.62	52	1
ND<2	2	0	52	1
ND<2	2	0	52	1
3.17	2	1.17	53	1
3.24	2	1.24	54	1
3.11	2	1.11	55	1
7.6	2	5.6	56	1
ND<2	3	-1	56	2
ND<2	3	-1	56	3
ND<2	3	-1	56	4
ND<2	3	-1	56	5
ND<2	3	-1	56	6
5.3	3	2.3	57	6
3.6	3	0.6	58	6
3.5	3	0.5	59	6
ND<2	3	-1	59	7
ND<2	3	-1	59	8
ND<2	3	-1	59	9
ND<2	3	-1	59	10
2.99	3	-0.01	59	11
2.04	3	-0.96	59	12
1.38 J	3	-1.62	59	13
ND<2	3	-1	59	14
ND<2	3	-1	59	15
3.17	3	0.17	60	15
3.24	3	0.24	61	15
3.11	3	0.11	62	15
7.6	3	4.6	63	15
ND<2	ND<2	0	63	15
ND<2	ND<2	0	63	15
ND<2	ND<2	0	63	15
ND<2	ND<2	0	63	15
5.3	ND<2	3.3	64	15
3.6	ND<2	1.6	65	15
3.5	ND<2	1.5	66	15
ND<2	ND<2	0	66	15
ND<2	ND<2	0	66	15
ND<2	ND<2	0	66	15
ND<2	ND<2	0	66	15
2.99	ND<2	0.99	67	15
2.04	ND<2	0.04	68	15
1.38 J	ND<2	-0.62	68	16
ND<2	ND<2	0	68	16
ND<2	ND<2	0	68	16

3.17	ND<2	1.17	69	16
3.24	ND<2	1.24	70	16
3.11	ND<2	1.11	71	16
7.6	ND<2	5.6	72	16
ND<2	ND<2	0	72	16
ND<2	ND<2	0	72	16
ND<2	ND<2	0	72	16
5.3	ND<2	3.3	73	16
3.6	ND<2	1.6	74	16
3.5	ND<2	1.5	75	16
ND<2	ND<2	0	75	16
ND<2	ND<2	0	75	16
ND<2	ND<2	0	75	16
ND<2	ND<2	0	75	16
2.99	ND<2	0.99	76	16
2.04	ND<2	0.04	77	16
1.38 J	ND<2	-0.62	77	17
ND<2	ND<2	0	77	17
ND<2	ND<2	0	77	17
3.17	ND<2	1.17	78	17
3.24	ND<2	1.24	79	17
3.11	ND<2	1.11	80	17
7.6	ND<2	5.6	81	17
ND<2	ND<2	0	81	17
ND<2	ND<2	0	81	17
5.3	ND<2	3.3	82	17
3.6	ND<2	1.6	83	17
3.5	ND<2	1.5	84	17
ND<2	ND<2	0	84	17
ND<2	ND<2	0	84	17
ND<2	ND<2	0	84	17
ND<2	ND<2	0	84	17
2.99	ND<2	0.99	85	17
2.04	ND<2	0.04	86	17
1.38 J	ND<2	-0.62	86	18
ND<2	ND<2	0	86	18
ND<2	ND<2	0	86	18
3.17	ND<2	1.17	87	18
3.24	ND<2	1.24	88	18
3.11	ND<2	1.11	89	18
7.6	ND<2	5.6	90	18
ND<2	ND<2	0	90	18
5.3	ND<2	3.3	91	18
3.6	ND<2	1.6	92	18
3.5	ND<2	1.5	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
2.99	ND<2	0.99	94	18
2.04	ND<2	0.04	95	18
1.38 J	ND<2	-0.62	95	19
ND<2	ND<2	0	95	19
ND<2	ND<2	0	95	19
3.17	ND<2	1.17	96	19
3.24	ND<2	1.24	97	19
3.11	ND<2	1.11	98	19
7.6	ND<2	5.6	99	19

5.3	ND<2	3.3	100	19
3.6	ND<2	1.6	101	19
3.5	ND<2	1.5	102	19
ND<2	ND<2	0	102	19
ND<2	ND<2	0	102	19
ND<2	ND<2	0	102	19
ND<2	ND<2	0	102	19
2.99	ND<2	0.99	103	19
2.04	ND<2	0.04	104	19
1.38 J	ND<2	-0.62	104	20
ND<2	ND<2	0	104	20
ND<2	ND<2	0	104	20
3.17	ND<2	1.17	105	20
3.24	ND<2	1.24	106	20
3.11	ND<2	1.11	107	20
7.6	ND<2	5.6	108	20
3.6	5.3	-1.7	108	21
3.5	5.3	-1.8	108	22
ND<2	5.3	-3.3	108	23
ND<2	5.3	-3.3	108	24
ND<2	5.3	-3.3	108	25
ND<2	5.3	-3.3	108	26
2.99	5.3	-2.31	108	27
2.04	5.3	-3.26	108	28
1.38 J	5.3	-3.92	108	29
ND<2	5.3	-3.3	108	30
ND<2	5.3	-3.3	108	31
3.17	5.3	-2.13	108	32
3.24	5.3	-2.06	108	33
3.11	5.3	-2.19	108	34
7.6	5.3	2.3	109	34
3.5	3.6	-0.1	109	35
ND<2	3.6	-1.6	109	36
ND<2	3.6	-1.6	109	37
ND<2	3.6	-1.6	109	38
ND<2	3.6	-1.6	109	39
2.99	3.6	-0.61	109	40
2.04	3.6	-1.56	109	41
1.38 J	3.6	-2.22	109	42
ND<2	3.6	-1.6	109	43
ND<2	3.6	-1.6	109	44
3.17	3.6	-0.43	109	45
3.24	3.6	-0.36	109	46
3.11	3.6	-0.49	109	47
7.6	3.6	4	110	47
ND<2	3.5	-1.5	110	48
ND<2	3.5	-1.5	110	49
ND<2	3.5	-1.5	110	50
ND<2	3.5	-1.5	110	51
2.99	3.5	-0.51	110	52
2.04	3.5	-1.46	110	53
1.38 J	3.5	-2.12	110	54
ND<2	3.5	-1.5	110	55
ND<2	3.5	-1.5	110	56
3.17	3.5	-0.33	110	57
3.24	3.5	-0.26	110	58
3.11	3.5	-0.39	110	59
7.6	3.5	4.1	111	59

ND<2	ND<2	0	111	59
ND<2	ND<2	0	111	59
ND<2	ND<2	0	111	59
2.99	ND<2	0.99	112	59
2.04	ND<2	0.04	113	59
1.38 J	ND<2	-0.62	113	60
ND<2	ND<2	0	113	60
ND<2	ND<2	0	113	60
3.17	ND<2	1.17	114	60
3.24	ND<2	1.24	115	60
3.11	ND<2	1.11	116	60
7.6	ND<2	5.6	117	60
ND<2	ND<2	0	117	60
ND<2	ND<2	0	117	60
2.99	ND<2	0.99	118	60
2.04	ND<2	0.04	119	60
1.38 J	ND<2	-0.62	119	61
ND<2	ND<2	0	119	61
ND<2	ND<2	0	119	61
3.17	ND<2	1.17	120	61
3.24	ND<2	1.24	121	61
3.11	ND<2	1.11	122	61
7.6	ND<2	5.6	123	61
ND<2	ND<2	0	123	61
2.99	ND<2	0.99	124	61
2.04	ND<2	0.04	125	61
1.38 J	ND<2	-0.62	125	62
ND<2	ND<2	0	125	62
ND<2	ND<2	0	125	62
3.17	ND<2	1.17	126	62
3.24	ND<2	1.24	127	62
3.11	ND<2	1.11	128	62
7.6	ND<2	5.6	129	62
2.99	ND<2	0.99	130	62
2.04	ND<2	0.04	131	62
1.38 J	ND<2	-0.62	131	63
ND<2	ND<2	0	131	63
ND<2	ND<2	0	131	63
3.17	ND<2	1.17	132	63
3.24	ND<2	1.24	133	63
3.11	ND<2	1.11	134	63
7.6	ND<2	5.6	135	63
2.04	2.99	-0.95	135	64
1.38 J	2.99	-1.61	135	65
ND<2	2.99	-0.99	135	66
ND<2	2.99	-0.99	135	67
3.17	2.99	0.18	136	67
3.24	2.99	0.25	137	67
3.11	2.99	0.12	138	67
7.6	2.99	4.61	139	67
1.38 J	2.04	-0.66	139	68
ND<2	2.04	-0.04	139	69
ND<2	2.04	-0.04	139	70
3.17	2.04	1.13	140	70
3.24	2.04	1.2	141	70
3.11	2.04	1.07	142	70
7.6	2.04	5.56	143	70

ND<2	1.38 J	0.62	144	70
ND<2	1.38 J	0.62	145	70
3.17	1.38 J	1.79	146	70
3.24	1.38 J	1.86	147	70
3.11	1.38 J	1.73	148	70
7.6	1.38 J	6.22	149	70
ND<2	ND<2	0	149	70
3.17	ND<2	1.17	150	70
3.24	ND<2	1.24	151	70
3.11	ND<2	1.11	152	70
7.6	ND<2	5.6	153	70
3.17	ND<2	1.17	154	70
3.24	ND<2	1.24	155	70
3.11	ND<2	1.11	156	70
7.6	ND<2	5.6	157	70
3.24	3.17	0.07	158	70
3.11	3.17	-0.06	158	71
7.6	3.17	4.43	159	71
3.11	3.24	-0.13	159	72
7.6	3.24	4.36	160	72
7.6	3.11	4.49	161	72

S Statistic = 161 - 72 = 89

Tied Group	Value	Members
1	0.84	2
2	2	12

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 3846
B = 0
C = 1320
D = 0
E = 134
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1619.67
Z-Score = 2.1866
Comparison Level at 95% confidence level = 1.65463 (upward trend)
2.1866 > 1.65463 indicating an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,1-Dichloroethane

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
12	0.47 J	11.53	1	0	
11	0.47 J	10.53	2	0	
1 J	0.47 J	0.53	3	0	
ND<2	0.47 J	1.53	4	0	
19	0.47 J	18.53	5	0	
18	0.47 J	17.53	6	0	
22	0.47 J	21.53	7	0	
16	0.47 J	15.53	8	0	
28	0.47 J	27.53	9	0	
16.3	0.47 J	15.83	10	0	
16.2	0.47 J	15.73	11	0	
ND<2	0.47 J	1.53	12	0	
ND<2	0.47 J	1.53	13	0	
ND<2	0.47 J	1.53	14	0	
ND<2	0.47 J	1.53	15	0	
1.91 J	0.47 J	1.44	16	0	
3.43	0.47 J	2.96	17	0	
2.11	0.47 J	1.64	18	0	
2.86	0.47 J	2.39	19	0	
ND<2	0.47 J	1.53	20	0	
4.11	0.47 J	3.64	21	0	
4.43	0.47 J	3.96	22	0	
3.08	0.47 J	2.61	23	0	
5.2	0.47 J	4.73	24	0	
11	12	-1	24	1	
1 J	12	-11	24	2	
ND<2	12	-10	24	3	
19	12	7	25	3	
18	12	6	26	3	
22	12	10	27	3	
16	12	4	28	3	
28	12	16	29	3	
16.3	12	4.3	30	3	
16.2	12	4.2	31	3	
ND<2	12	-10	31	4	
ND<2	12	-10	31	5	
ND<2	12	-10	31	6	
ND<2	12	-10	31	7	
1.91 J	12	-10.09	31	8	
3.43	12	-8.57	31	9	
2.11	12	-9.89	31	10	
2.86	12	-9.14	31	11	
ND<2	12	-10	31	12	
4.11	12	-7.89	31	13	
4.43	12	-7.57	31	14	
3.08	12	-8.92	31	15	
5.2	12	-6.8	31	16	

1 J	11	-10	31	17
ND<2	11	-9	31	18
19	11	8	32	18
18	11	7	33	18
22	11	11	34	18
16	11	5	35	18
28	11	17	36	18
16.3	11	5.3	37	18
16.2	11	5.2	38	18
ND<2	11	-9	38	19
ND<2	11	-9	38	20
ND<2	11	-9	38	21
ND<2	11	-9	38	22
1.91 J	11	-9.09	38	23
3.43	11	-7.57	38	24
2.11	11	-8.89	38	25
2.86	11	-8.14	38	26
ND<2	11	-9	38	27
4.11	11	-6.89	38	28
4.43	11	-6.57	38	29
3.08	11	-7.92	38	30
5.2	11	-5.8	38	31
ND<2	1 J	1	39	31
19	1 J	18	40	31
18	1 J	17	41	31
22	1 J	21	42	31
16	1 J	15	43	31
28	1 J	27	44	31
16.3	1 J	15.3	45	31
16.2	1 J	15.2	46	31
ND<2	1 J	1	47	31
ND<2	1 J	1	48	31
ND<2	1 J	1	49	31
ND<2	1 J	1	50	31
1.91 J	1 J	0.91	51	31
3.43	1 J	2.43	52	31
2.11	1 J	1.11	53	31
2.86	1 J	1.86	54	31
ND<2	1 J	1	55	31
4.11	1 J	3.11	56	31
4.43	1 J	3.43	57	31
3.08	1 J	2.08	58	31
5.2	1 J	4.2	59	31
19	ND<2	17	60	31
18	ND<2	16	61	31
22	ND<2	20	62	31
16	ND<2	14	63	31
28	ND<2	26	64	31
16.3	ND<2	14.3	65	31
16.2	ND<2	14.2	66	31
ND<2	ND<2	0	66	31
ND<2	ND<2	0	66	31
ND<2	ND<2	0	66	31
ND<2	ND<2	0	66	31
1.91 J	ND<2	-0.09	66	32
3.43	ND<2	1.43	67	32
2.11	ND<2	0.11	68	32
2.86	ND<2	0.86	69	32
ND<2	ND<2	0	69	32

4.11	ND<2	2.11	70	32
4.43	ND<2	2.43	71	32
3.08	ND<2	1.08	72	32
5.2	ND<2	3.2	73	32
18	19	-1	73	33
22	19	3	74	33
16	19	-3	74	34
28	19	9	75	34
16.3	19	-2.7	75	35
16.2	19	-2.8	75	36
ND<2	19	-17	75	37
ND<2	19	-17	75	38
ND<2	19	-17	75	39
ND<2	19	-17	75	40
1.91 J	19	-17.09	75	41
3.43	19	-15.57	75	42
2.11	19	-16.89	75	43
2.86	19	-16.14	75	44
ND<2	19	-17	75	45
4.11	19	-14.89	75	46
4.43	19	-14.57	75	47
3.08	19	-15.92	75	48
5.2	19	-13.8	75	49
22	18	4	76	49
16	18	-2	76	50
28	18	10	77	50
16.3	18	-1.7	77	51
16.2	18	-1.8	77	52
ND<2	18	-16	77	53
ND<2	18	-16	77	54
ND<2	18	-16	77	55
ND<2	18	-16	77	56
1.91 J	18	-16.09	77	57
3.43	18	-14.57	77	58
2.11	18	-15.89	77	59
2.86	18	-15.14	77	60
ND<2	18	-16	77	61
4.11	18	-13.89	77	62
4.43	18	-13.57	77	63
3.08	18	-14.92	77	64
5.2	18	-12.8	77	65
16	22	-6	77	66
28	22	6	78	66
16.3	22	-5.7	78	67
16.2	22	-5.8	78	68
ND<2	22	-20	78	69
ND<2	22	-20	78	70
ND<2	22	-20	78	71
ND<2	22	-20	78	72
1.91 J	22	-20.09	78	73
3.43	22	-18.57	78	74
2.11	22	-19.89	78	75
2.86	22	-19.14	78	76
ND<2	22	-20	78	77
4.11	22	-17.89	78	78
4.43	22	-17.57	78	79
3.08	22	-18.92	78	80
5.2	22	-16.8	78	81

28	16	12	79	81
16.3	16	0.3	80	81
16.2	16	0.2	81	81
ND<2	16	-14	81	82
ND<2	16	-14	81	83
ND<2	16	-14	81	84
ND<2	16	-14	81	85
1.91 J	16	-14.09	81	86
3.43	16	-12.57	81	87
2.11	16	-13.89	81	88
2.86	16	-13.14	81	89
ND<2	16	-14	81	90
4.11	16	-11.89	81	91
4.43	16	-11.57	81	92
3.08	16	-12.92	81	93
5.2	16	-10.8	81	94
16.3	28	-11.7	81	95
16.2	28	-11.8	81	96
ND<2	28	-26	81	97
ND<2	28	-26	81	98
ND<2	28	-26	81	99
ND<2	28	-26	81	100
1.91 J	28	-26.09	81	101
3.43	28	-24.57	81	102
2.11	28	-25.89	81	103
2.86	28	-25.14	81	104
ND<2	28	-26	81	105
4.11	28	-23.89	81	106
4.43	28	-23.57	81	107
3.08	28	-24.92	81	108
5.2	28	-22.8	81	109
16.2	16.3	-0.1	81	110
ND<2	16.3	-14.3	81	111
ND<2	16.3	-14.3	81	112
ND<2	16.3	-14.3	81	113
ND<2	16.3	-14.3	81	114
1.91 J	16.3	-14.39	81	115
3.43	16.3	-12.87	81	116
2.11	16.3	-14.19	81	117
2.86	16.3	-13.44	81	118
ND<2	16.3	-14.3	81	119
4.11	16.3	-12.19	81	120
4.43	16.3	-11.87	81	121
3.08	16.3	-13.22	81	122
5.2	16.3	-11.1	81	123
ND<2	16.2	-14.2	81	124
ND<2	16.2	-14.2	81	125
ND<2	16.2	-14.2	81	126
ND<2	16.2	-14.2	81	127
1.91 J	16.2	-14.29	81	128
3.43	16.2	-12.77	81	129
2.11	16.2	-14.09	81	130
2.86	16.2	-13.34	81	131
ND<2	16.2	-14.2	81	132
4.11	16.2	-12.09	81	133
4.43	16.2	-11.77	81	134
3.08	16.2	-13.12	81	135
5.2	16.2	-11	81	136

ND<2	ND<2	0	81	136
ND<2	ND<2	0	81	136
ND<2	ND<2	0	81	136
1.91 J	ND<2	-0.09	81	137
3.43	ND<2	1.43	82	137
2.11	ND<2	0.11	83	137
2.86	ND<2	0.86	84	137
ND<2	ND<2	0	84	137
4.11	ND<2	2.11	85	137
4.43	ND<2	2.43	86	137
3.08	ND<2	1.08	87	137
5.2	ND<2	3.2	88	137
ND<2	ND<2	0	88	137
ND<2	ND<2	0	88	137
1.91 J	ND<2	-0.09	88	138
3.43	ND<2	1.43	89	138
2.11	ND<2	0.11	90	138
2.86	ND<2	0.86	91	138
ND<2	ND<2	0	91	138
4.11	ND<2	2.11	92	138
4.43	ND<2	2.43	93	138
3.08	ND<2	1.08	94	138
5.2	ND<2	3.2	95	138
ND<2	ND<2	0	95	138
1.91 J	ND<2	-0.09	95	139
3.43	ND<2	1.43	96	139
2.11	ND<2	0.11	97	139
2.86	ND<2	0.86	98	139
ND<2	ND<2	0	98	139
4.11	ND<2	2.11	99	139
4.43	ND<2	2.43	100	139
3.08	ND<2	1.08	101	139
5.2	ND<2	3.2	102	139
1.91 J	ND<2	-0.09	102	140
3.43	ND<2	1.43	103	140
2.11	ND<2	0.11	104	140
2.86	ND<2	0.86	105	140
ND<2	ND<2	0	105	140
4.11	ND<2	2.11	106	140
4.43	ND<2	2.43	107	140
3.08	ND<2	1.08	108	140
5.2	ND<2	3.2	109	140
3.43	1.91 J	1.52	110	140
2.11	1.91 J	0.2	111	140
2.86	1.91 J	0.95	112	140
ND<2	1.91 J	0.09	113	140
4.11	1.91 J	2.2	114	140
4.43	1.91 J	2.52	115	140
3.08	1.91 J	1.17	116	140
5.2	1.91 J	3.29	117	140
2.11	3.43	-1.32	117	141
2.86	3.43	-0.57	117	142
ND<2	3.43	-1.43	117	143
4.11	3.43	0.68	118	143
4.43	3.43	1	119	143
3.08	3.43	-0.35	119	144
5.2	3.43	1.77	120	144

2.86	2.11	0.75	121	144
ND<2	2.11	-0.11	121	145
4.11	2.11	2	122	145
4.43	2.11	2.32	123	145
3.08	2.11	0.97	124	145
5.2	2.11	3.09	125	145
ND<2	2.86	-0.86	125	146
4.11	2.86	1.25	126	146
4.43	2.86	1.57	127	146
3.08	2.86	0.22	128	146
5.2	2.86	2.34	129	146
4.11	ND<2	2.11	130	146
4.43	ND<2	2.43	131	146
3.08	ND<2	1.08	132	146
5.2	ND<2	3.2	133	146
4.43	4.11	0.32	134	146
3.08	4.11	-1.03	134	147
5.2	4.11	1.09	135	147
3.08	4.43	-1.35	135	148
5.2	4.43	0.77	136	148
5.2	3.08	2.12	137	148

S Statistic = 137 - 148 = -11

Tied Group	Value	Members
1	2	6

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 510
B = 0
C = 120
D = 0
E = 30
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1805
Z-Score = -0.235376
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-0.235376 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,1-Dichloroethane

Location: MW-12AR

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
7.2	ND<2	5.2	1	0	
6.9	ND<2	4.9	2	0	
6.1	ND<2	4.1	3	0	
6.3	ND<2	4.3	4	0	
ND<2	ND<2	0	4	0	
1.21 J	ND<2	-0.79	4	1	
1.39 J	ND<2	-0.61	4	2	
0.83 J	ND<2	-1.17	4	3	
ND<2	ND<2	0	4	3	
1.15 J	ND<2	-0.85	4	4	
1.25 J	ND<2	-0.75	4	5	
0.62 J	ND<2	-1.38	4	6	
ND<0.25		ND<2	-1.75	4	7
7.2	ND<2	5.2	5	7	
6.9	ND<2	4.9	6	7	
6.1	ND<2	4.1	7	7	
6.3	ND<2	4.3	8	7	
ND<2	ND<2	0	8	7	
1.21 J	ND<2	-0.79	8	8	
1.39 J	ND<2	-0.61	8	9	
0.83 J	ND<2	-1.17	8	10	
ND<2	ND<2	0	8	10	
1.15 J	ND<2	-0.85	8	11	
1.25 J	ND<2	-0.75	8	12	
0.62 J	ND<2	-1.38	8	13	
ND<0.25		ND<2	-1.75	8	14
6.9	7.2	-0.3	8	15	
6.1	7.2	-1.1	8	16	
6.3	7.2	-0.9	8	17	
ND<2	7.2	-5.2	8	18	
1.21 J	7.2	-5.99	8	19	
1.39 J	7.2	-5.81	8	20	
0.83 J	7.2	-6.37	8	21	
ND<2	7.2	-5.2	8	22	
1.15 J	7.2	-6.05	8	23	
1.25 J	7.2	-5.95	8	24	
0.62 J	7.2	-6.58	8	25	
ND<0.25		7.2	-6.95	8	26
6.1	6.9	-0.8	8	27	
6.3	6.9	-0.6	8	28	
ND<2	6.9	-4.9	8	29	
1.21 J	6.9	-5.69	8	30	
1.39 J	6.9	-5.51	8	31	
0.83 J	6.9	-6.07	8	32	

ND<2	6.9	-4.9	8	33	
1.15 J	6.9	-5.75	8	34	
1.25 J	6.9	-5.65	8	35	
0.62 J	6.9	-6.28	8	36	
ND<0.25		6.9	-6.65	8	37
6.3	6.1	0.2	9	37	
ND<2	6.1	-4.1	9	38	
1.21 J	6.1	-4.89	9	39	
1.39 J	6.1	-4.71	9	40	
0.83 J	6.1	-5.27	9	41	
ND<2	6.1	-4.1	9	42	
1.15 J	6.1	-4.95	9	43	
1.25 J	6.1	-4.85	9	44	
0.62 J	6.1	-5.48	9	45	
ND<0.25		6.1	-5.85	9	46
ND<2	6.3	-4.3	9	47	
1.21 J	6.3	-5.09	9	48	
1.39 J	6.3	-4.91	9	49	
0.83 J	6.3	-5.47	9	50	
ND<2	6.3	-4.3	9	51	
1.15 J	6.3	-5.15	9	52	
1.25 J	6.3	-5.05	9	53	
0.62 J	6.3	-5.68	9	54	
ND<0.25		6.3	-6.05	9	55
1.21 J	ND<2	-0.79	9	56	
1.39 J	ND<2	-0.61	9	57	
0.83 J	ND<2	-1.17	9	58	
ND<2	ND<2	0	9	58	
1.15 J	ND<2	-0.85	9	59	
1.25 J	ND<2	-0.75	9	60	
0.62 J	ND<2	-1.38	9	61	
ND<0.25		ND<2	-1.75	9	62
1.39 J	1.21 J	0.18	10	62	
0.83 J	1.21 J	-0.38	10	63	
ND<2	1.21 J	0.79	11	63	
1.15 J	1.21 J	-0.06	11	64	
1.25 J	1.21 J	0.04	12	64	
0.62 J	1.21 J	-0.59	12	65	
ND<0.25		1.21 J	-0.96	12	66
0.83 J	1.39 J	-0.56	12	67	
ND<2	1.39 J	0.61	13	67	
1.15 J	1.39 J	-0.24	13	68	
1.25 J	1.39 J	-0.14	13	69	
0.62 J	1.39 J	-0.77	13	70	
ND<0.25		1.39 J	-1.14	13	71
ND<2	0.83 J	1.17	14	71	
1.15 J	0.83 J	0.32	15	71	
1.25 J	0.83 J	0.42	16	71	
0.62 J	0.83 J	-0.21	16	72	
ND<0.25		0.83 J	-0.58	16	73
1.15 J	ND<2	-0.85	16	74	
1.25 J	ND<2	-0.75	16	75	
0.62 J	ND<2	-1.38	16	76	
ND<0.25		ND<2	-1.75	16	77

1.25 J	1.15 J	0.1	17	77	
0.62 J	1.15 J	-0.53	17	78	
ND<0.25		1.15 J	-0.9	17	79
0.62 J	1.25 J	-0.63	17	80	
ND<0.25		1.25 J	-1	17	81
ND<0.25		0.62 J	-0.37	17	82

S Statistic = 17 - 82 = -65

Tied Group	Value	Members
1	2	4

Time Period		Observations
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 156
B = 0
C = 24
D = 0
E = 12
F = 0
a = 7350
b = 24570
c = 420
Group Variance = 399.667
Z-Score = -3.20133
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.20133 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,1-Dichloroethane

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
21	8.5	12.5	1	0	
19	8.5	10.5	2	0	
22	8.5	13.5	3	0	
ND<2	8.5	-6.5	3	1	
19	8.5	10.5	4	1	
ND<2	8.5	-6.5	4	2	
5.1	8.5	-3.4	4	3	
8.4	8.5	-0.1	4	4	
13	8.5	4.5	5	4	
10.8	8.5	2.3	6	4	
5.5	8.5	-3	6	5	
9.9	8.5	1.4	7	5	
ND<2	8.5	-6.5	7	6	
ND<2	8.5	-6.5	7	7	
ND<2	8.5	-6.5	7	8	
3.86	8.5	-4.64	7	9	
2.18	8.5	-6.32	7	10	
1.68 J	8.5	-6.82	7	11	
2.07	8.5	-6.43	7	12	
ND<2	8.5	-6.5	7	13	
4.05	8.5	-4.45	7	14	
ND<2	8.5	-6.5	7	15	
0.56 J	8.5	-7.94	7	16	
2.9	8.5	-5.6	7	17	
19	21	-2	7	18	
22	21	1	8	18	
ND<2	21	-19	8	19	
19	21	-2	8	20	
ND<2	21	-19	8	21	
5.1	21	-15.9	8	22	
8.4	21	-12.6	8	23	
13	21	-8	8	24	
10.8	21	-10.2	8	25	
5.5	21	-15.5	8	26	
9.9	21	-11.1	8	27	
ND<2	21	-19	8	28	
ND<2	21	-19	8	29	
ND<2	21	-19	8	30	
3.86	21	-17.14	8	31	
2.18	21	-18.82	8	32	
1.68 J	21	-19.32	8	33	
2.07	21	-18.93	8	34	
ND<2	21	-19	8	35	
4.05	21	-16.95	8	36	
ND<2	21	-19	8	37	
0.56 J	21	-20.44	8	38	
2.9	21	-18.1	8	39	

22	19	3	9	39
ND<2	19	-17	9	40
19	19	0	9	40
ND<2	19	-17	9	41
5.1	19	-13.9	9	42
8.4	19	-10.6	9	43
13	19	-6	9	44
10.8	19	-8.2	9	45
5.5	19	-13.5	9	46
9.9	19	-9.1	9	47
ND<2	19	-17	9	48
ND<2	19	-17	9	49
ND<2	19	-17	9	50
3.86	19	-15.14	9	51
2.18	19	-16.82	9	52
1.68 J	19	-17.32	9	53
2.07	19	-16.93	9	54
ND<2	19	-17	9	55
4.05	19	-14.95	9	56
ND<2	19	-17	9	57
0.56 J	19	-18.44	9	58
2.9	19	-16.1	9	59
ND<2	22	-20	9	60
19	22	-3	9	61
ND<2	22	-20	9	62
5.1	22	-16.9	9	63
8.4	22	-13.6	9	64
13	22	-9	9	65
10.8	22	-11.2	9	66
5.5	22	-16.5	9	67
9.9	22	-12.1	9	68
ND<2	22	-20	9	69
ND<2	22	-20	9	70
ND<2	22	-20	9	71
3.86	22	-18.14	9	72
2.18	22	-19.82	9	73
1.68 J	22	-20.32	9	74
2.07	22	-19.93	9	75
ND<2	22	-20	9	76
4.05	22	-17.95	9	77
ND<2	22	-20	9	78
0.56 J	22	-21.44	9	79
2.9	22	-19.1	9	80
19	ND<2	17	10	80
ND<2	ND<2	0	10	80
5.1	ND<2	3.1	11	80
8.4	ND<2	6.4	12	80
13	ND<2	11	13	80
10.8	ND<2	8.8	14	80
5.5	ND<2	3.5	15	80
9.9	ND<2	7.9	16	80
ND<2	ND<2	0	16	80
ND<2	ND<2	0	16	80
ND<2	ND<2	0	16	80
3.86	ND<2	1.86	17	80
2.18	ND<2	0.18	18	80
1.68 J	ND<2	-0.32	18	81
2.07	ND<2	0.07	19	81
ND<2	ND<2	0	19	81

4.05	ND<2	2.05	20	81
ND<2	ND<2	0	20	81
0.56 J	ND<2	-1.44	20	82
2.9	ND<2	0.9	21	82
ND<2	19	-17	21	83
5.1	19	-13.9	21	84
8.4	19	-10.6	21	85
13	19	-6	21	86
10.8	19	-8.2	21	87
5.5	19	-13.5	21	88
9.9	19	-9.1	21	89
ND<2	19	-17	21	90
ND<2	19	-17	21	91
ND<2	19	-17	21	92
3.86	19	-15.14	21	93
2.18	19	-16.82	21	94
1.68 J	19	-17.32	21	95
2.07	19	-16.93	21	96
ND<2	19	-17	21	97
4.05	19	-14.95	21	98
ND<2	19	-17	21	99
0.56 J	19	-18.44	21	100
2.9	19	-16.1	21	101
5.1	ND<2	3.1	22	101
8.4	ND<2	6.4	23	101
13	ND<2	11	24	101
10.8	ND<2	8.8	25	101
5.5	ND<2	3.5	26	101
9.9	ND<2	7.9	27	101
ND<2	ND<2	0	27	101
ND<2	ND<2	0	27	101
ND<2	ND<2	0	27	101
3.86	ND<2	1.86	28	101
2.18	ND<2	0.18	29	101
1.68 J	ND<2	-0.32	29	102
2.07	ND<2	0.07	30	102
ND<2	ND<2	0	30	102
4.05	ND<2	2.05	31	102
ND<2	ND<2	0	31	102
0.56 J	ND<2	-1.44	31	103
2.9	ND<2	0.9	32	103
8.4	5.1	3.3	33	103
13	5.1	7.9	34	103
10.8	5.1	5.7	35	103
5.5	5.1	0.4	36	103
9.9	5.1	4.8	37	103
ND<2	5.1	-3.1	37	104
ND<2	5.1	-3.1	37	105
ND<2	5.1	-3.1	37	106
3.86	5.1	-1.24	37	107
2.18	5.1	-2.92	37	108
1.68 J	5.1	-3.42	37	109
2.07	5.1	-3.03	37	110
ND<2	5.1	-3.1	37	111
4.05	5.1	-1.05	37	112
ND<2	5.1	-3.1	37	113
0.56 J	5.1	-4.54	37	114
2.9	5.1	-2.2	37	115

13	8.4	4.6	38	115
10.8	8.4	2.4	39	115
5.5	8.4	-2.9	39	116
9.9	8.4	1.5	40	116
ND<2	8.4	-6.4	40	117
ND<2	8.4	-6.4	40	118
ND<2	8.4	-6.4	40	119
3.86	8.4	-4.54	40	120
2.18	8.4	-6.22	40	121
1.68 J	8.4	-6.72	40	122
2.07	8.4	-6.33	40	123
ND<2	8.4	-6.4	40	124
4.05	8.4	-4.35	40	125
ND<2	8.4	-6.4	40	126
0.56 J	8.4	-7.84	40	127
2.9	8.4	-5.5	40	128
10.8	13	-2.2	40	129
5.5	13	-7.5	40	130
9.9	13	-3.1	40	131
ND<2	13	-11	40	132
ND<2	13	-11	40	133
ND<2	13	-11	40	134
3.86	13	-9.14	40	135
2.18	13	-10.82	40	136
1.68 J	13	-11.32	40	137
2.07	13	-10.93	40	138
ND<2	13	-11	40	139
4.05	13	-8.95	40	140
ND<2	13	-11	40	141
0.56 J	13	-12.44	40	142
2.9	13	-10.1	40	143
5.5	10.8	-5.3	40	144
9.9	10.8	-0.9	40	145
ND<2	10.8	-8.8	40	146
ND<2	10.8	-8.8	40	147
ND<2	10.8	-8.8	40	148
3.86	10.8	-6.94	40	149
2.18	10.8	-8.62	40	150
1.68 J	10.8	-9.12	40	151
2.07	10.8	-8.73	40	152
ND<2	10.8	-8.8	40	153
4.05	10.8	-6.75	40	154
ND<2	10.8	-8.8	40	155
0.56 J	10.8	-10.24	40	156
2.9	10.8	-7.9	40	157
9.9	5.5	4.4	41	157
ND<2	5.5	-3.5	41	158
ND<2	5.5	-3.5	41	159
ND<2	5.5	-3.5	41	160
3.86	5.5	-1.64	41	161
2.18	5.5	-3.32	41	162
1.68 J	5.5	-3.82	41	163
2.07	5.5	-3.43	41	164
ND<2	5.5	-3.5	41	165
4.05	5.5	-1.45	41	166
ND<2	5.5	-3.5	41	167
0.56 J	5.5	-4.94	41	168
2.9	5.5	-2.6	41	169

ND<2	9.9	-7.9	41	170
ND<2	9.9	-7.9	41	171
ND<2	9.9	-7.9	41	172
3.86	9.9	-6.04	41	173
2.18	9.9	-7.72	41	174
1.68 J	9.9	-8.22	41	175
2.07	9.9	-7.83	41	176
ND<2	9.9	-7.9	41	177
4.05	9.9	-5.85	41	178
ND<2	9.9	-7.9	41	179
0.56 J	9.9	-9.34	41	180
2.9	9.9	-7	41	181
ND<2	ND<2	0	41	181
ND<2	ND<2	0	41	181
3.86	ND<2	1.86	42	181
2.18	ND<2	0.18	43	181
1.68 J	ND<2	-0.32	43	182
2.07	ND<2	0.07	44	182
ND<2	ND<2	0	44	182
4.05	ND<2	2.05	45	182
ND<2	ND<2	0	45	182
0.56 J	ND<2	-1.44	45	183
2.9	ND<2	0.9	46	183
ND<2	ND<2	0	46	183
3.86	ND<2	1.86	47	183
2.18	ND<2	0.18	48	183
1.68 J	ND<2	-0.32	48	184
2.07	ND<2	0.07	49	184
ND<2	ND<2	0	49	184
4.05	ND<2	2.05	50	184
ND<2	ND<2	0	50	184
0.56 J	ND<2	-1.44	50	185
2.9	ND<2	0.9	51	185
3.86	ND<2	1.86	52	185
2.18	ND<2	0.18	53	185
1.68 J	ND<2	-0.32	53	186
2.07	ND<2	0.07	54	186
ND<2	ND<2	0	54	186
4.05	ND<2	2.05	55	186
ND<2	ND<2	0	55	186
0.56 J	ND<2	-1.44	55	187
2.9	ND<2	0.9	56	187
2.18	3.86	-1.68	56	188
1.68 J	3.86	-2.18	56	189
2.07	3.86	-1.79	56	190
ND<2	3.86	-1.86	56	191
4.05	3.86	0.19	57	191
ND<2	3.86	-1.86	57	192
0.56 J	3.86	-3.3	57	193
2.9	3.86	-0.96	57	194
1.68 J	2.18	-0.5	57	195
2.07	2.18	-0.11	57	196
ND<2	2.18	-0.18	57	197
4.05	2.18	1.87	58	197
ND<2	2.18	-0.18	58	198
0.56 J	2.18	-1.62	58	199
2.9	2.18	0.72	59	199

2.07	1.68 J	0.39	60	199
ND<2	1.68 J	0.32	61	199
4.05	1.68 J	2.37	62	199
ND<2	1.68 J	0.32	63	199
0.56 J	1.68 J	-1.12	63	200
2.9	1.68 J	1.22	64	200
ND<2	2.07	-0.07	64	201
4.05	2.07	1.98	65	201
ND<2	2.07	-0.07	65	202
0.56 J	2.07	-1.51	65	203
2.9	2.07	0.83	66	203
4.05	ND<2	2.05	67	203
ND<2	ND<2	0	67	203
0.56 J	ND<2	-1.44	67	204
2.9	ND<2	0.9	68	204
ND<2	4.05	-2.05	68	205
0.56 J	4.05	-3.49	68	206
2.9	4.05	-1.15	68	207
0.56 J	ND<2	-1.44	68	208
2.9	ND<2	0.9	69	208
2.9	0.56 J	2.34	70	208

S Statistic = 70 - 208 = -138

Tied Group	Value	Members
1	19	2
2	2	7

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 816
B = 0
C = 210
D = 0
E = 44
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1788
Z-Score = -3.23994
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.23994 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,1-Dichloroethane

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
3.5	0.8 J	2.7	1	0	
7	0.8 J	6.2	2	0	
6	0.8 J	5.2	3	0	
ND<2	0.8 J	1.2	4	0	
5	0.8 J	4.2	5	0	
14	0.8 J	13.2	6	0	
5.8	0.8 J	5	7	0	
ND<2	0.8 J	1.2	8	0	
ND<2	0.8 J	1.2	9	0	
4.7	0.8 J	3.9	10	0	
2.6	0.8 J	1.8	11	0	
ND<2	0.8 J	1.2	12	0	
ND<2	0.8 J	1.2	13	0	
ND<2	0.8 J	1.2	14	0	
ND<2	0.8 J	1.2	15	0	
1.25 J	0.8 J	0.45	16	0	
1.6 J	0.8 J	0.8	17	0	
1.91 J	0.8 J	1.11	18	0	
1.12 J	0.8 J	0.32	19	0	
ND<2	0.8 J	1.2	20	0	
1.35	0.8 J	0.55	21	0	
1.26 J	0.8 J	0.46	22	0	
0.92 J	0.8 J	0.12	23	0	
0.97 J	0.8 J	0.17	24	0	
7	3.5	3.5	25	0	
6	3.5	2.5	26	0	
ND<2	3.5	-1.5	26	1	
5	3.5	1.5	27	1	
14	3.5	10.5	28	1	
5.8	3.5	2.3	29	1	
ND<2	3.5	-1.5	29	2	
ND<2	3.5	-1.5	29	3	
4.7	3.5	1.2	30	3	
2.6	3.5	-0.9	30	4	
ND<2	3.5	-1.5	30	5	
ND<2	3.5	-1.5	30	6	
ND<2	3.5	-1.5	30	7	
ND<2	3.5	-1.5	30	8	
1.25 J	3.5	-2.25	30	9	
1.6 J	3.5	-1.9	30	10	
1.91 J	3.5	-1.59	30	11	
1.12 J	3.5	-2.38	30	12	
ND<2	3.5	-1.5	30	13	
1.35	3.5	-2.15	30	14	
1.26 J	3.5	-2.24	30	15	
0.92 J	3.5	-2.58	30	16	
0.97 J	3.5	-2.53	30	17	

6	7	-1	30	18
ND<2	7	-5	30	19
5	7	-2	30	20
14	7	7	31	20
5.8	7	-1.2	31	21
ND<2	7	-5	31	22
ND<2	7	-5	31	23
4.7	7	-2.3	31	24
2.6	7	-4.4	31	25
ND<2	7	-5	31	26
ND<2	7	-5	31	27
ND<2	7	-5	31	28
ND<2	7	-5	31	29
1.25 J	7	-5.75	31	30
1.6 J	7	-5.4	31	31
1.91 J	7	-5.09	31	32
1.12 J	7	-5.88	31	33
ND<2	7	-5	31	34
1.35	7	-5.65	31	35
1.26 J	7	-5.74	31	36
0.92 J	7	-6.08	31	37
0.97 J	7	-6.03	31	38
ND<2	6	-4	31	39
5	6	-1	31	40
14	6	8	32	40
5.8	6	-0.2	32	41
ND<2	6	-4	32	42
ND<2	6	-4	32	43
4.7	6	-1.3	32	44
2.6	6	-3.4	32	45
ND<2	6	-4	32	46
ND<2	6	-4	32	47
ND<2	6	-4	32	48
ND<2	6	-4	32	49
1.25 J	6	-4.75	32	50
1.6 J	6	-4.4	32	51
1.91 J	6	-4.09	32	52
1.12 J	6	-4.88	32	53
ND<2	6	-4	32	54
1.35	6	-4.65	32	55
1.26 J	6	-4.74	32	56
0.92 J	6	-5.08	32	57
0.97 J	6	-5.03	32	58
5	ND<2	3	33	58
14	ND<2	12	34	58
5.8	ND<2	3.8	35	58
ND<2	ND<2	0	35	58
ND<2	ND<2	0	35	58
4.7	ND<2	2.7	36	58
2.6	ND<2	0.6	37	58
ND<2	ND<2	0	37	58
ND<2	ND<2	0	37	58
ND<2	ND<2	0	37	58
ND<2	ND<2	0	37	58
1.25 J	ND<2	-0.75	37	59
1.6 J	ND<2	-0.4	37	60
1.91 J	ND<2	-0.09	37	61
1.12 J	ND<2	-0.88	37	62
ND<2	ND<2	0	37	62

1.35	ND<2	-0.65	37	63
1.26 J	ND<2	-0.74	37	64
0.92 J	ND<2	-1.08	37	65
0.97 J	ND<2	-1.03	37	66
14	5	9	38	66
5.8	5	0.8	39	66
ND<2	5	-3	39	67
ND<2	5	-3	39	68
4.7	5	-0.3	39	69
2.6	5	-2.4	39	70
ND<2	5	-3	39	71
ND<2	5	-3	39	72
ND<2	5	-3	39	73
ND<2	5	-3	39	74
1.25 J	5	-3.75	39	75
1.6 J	5	-3.4	39	76
1.91 J	5	-3.09	39	77
1.12 J	5	-3.88	39	78
ND<2	5	-3	39	79
1.35	5	-3.65	39	80
1.26 J	5	-3.74	39	81
0.92 J	5	-4.08	39	82
0.97 J	5	-4.03	39	83
5.8	14	-8.2	39	84
ND<2	14	-12	39	85
ND<2	14	-12	39	86
4.7	14	-9.3	39	87
2.6	14	-11.4	39	88
ND<2	14	-12	39	89
ND<2	14	-12	39	90
ND<2	14	-12	39	91
ND<2	14	-12	39	92
1.25 J	14	-12.75	39	93
1.6 J	14	-12.4	39	94
1.91 J	14	-12.09	39	95
1.12 J	14	-12.88	39	96
ND<2	14	-12	39	97
1.35	14	-12.65	39	98
1.26 J	14	-12.74	39	99
0.92 J	14	-13.08	39	100
0.97 J	14	-13.03	39	101
ND<2	5.8	-3.8	39	102
ND<2	5.8	-3.8	39	103
4.7	5.8	-1.1	39	104
2.6	5.8	-3.2	39	105
ND<2	5.8	-3.8	39	106
ND<2	5.8	-3.8	39	107
ND<2	5.8	-3.8	39	108
ND<2	5.8	-3.8	39	109
1.25 J	5.8	-4.55	39	110
1.6 J	5.8	-4.2	39	111
1.91 J	5.8	-3.89	39	112
1.12 J	5.8	-4.68	39	113
ND<2	5.8	-3.8	39	114
1.35	5.8	-4.45	39	115
1.26 J	5.8	-4.54	39	116
0.92 J	5.8	-4.88	39	117
0.97 J	5.8	-4.83	39	118

ND<2	ND<2	0	39	118
4.7	ND<2	2.7	40	118
2.6	ND<2	0.6	41	118
ND<2	ND<2	0	41	118
ND<2	ND<2	0	41	118
ND<2	ND<2	0	41	118
ND<2	ND<2	0	41	118
1.25 J	ND<2	-0.75	41	119
1.6 J	ND<2	-0.4	41	120
1.91 J	ND<2	-0.09	41	121
1.12 J	ND<2	-0.88	41	122
ND<2	ND<2	0	41	122
1.35	ND<2	-0.65	41	123
1.26 J	ND<2	-0.74	41	124
0.92 J	ND<2	-1.08	41	125
0.97 J	ND<2	-1.03	41	126
4.7	ND<2	2.7	42	126
2.6	ND<2	0.6	43	126
ND<2	ND<2	0	43	126
ND<2	ND<2	0	43	126
ND<2	ND<2	0	43	126
ND<2	ND<2	0	43	126
1.25 J	ND<2	-0.75	43	127
1.6 J	ND<2	-0.4	43	128
1.91 J	ND<2	-0.09	43	129
1.12 J	ND<2	-0.88	43	130
ND<2	ND<2	0	43	130
1.35	ND<2	-0.65	43	131
1.26 J	ND<2	-0.74	43	132
0.92 J	ND<2	-1.08	43	133
0.97 J	ND<2	-1.03	43	134
2.6	4.7	-2.1	43	135
ND<2	4.7	-2.7	43	136
ND<2	4.7	-2.7	43	137
ND<2	4.7	-2.7	43	138
ND<2	4.7	-2.7	43	139
1.25 J	4.7	-3.45	43	140
1.6 J	4.7	-3.1	43	141
1.91 J	4.7	-2.79	43	142
1.12 J	4.7	-3.58	43	143
ND<2	4.7	-2.7	43	144
1.35	4.7	-3.35	43	145
1.26 J	4.7	-3.44	43	146
0.92 J	4.7	-3.78	43	147
0.97 J	4.7	-3.73	43	148
ND<2	2.6	-0.6	43	149
ND<2	2.6	-0.6	43	150
ND<2	2.6	-0.6	43	151
ND<2	2.6	-0.6	43	152
1.25 J	2.6	-1.35	43	153
1.6 J	2.6	-1	43	154
1.91 J	2.6	-0.69	43	155
1.12 J	2.6	-1.48	43	156
ND<2	2.6	-0.6	43	157
1.35	2.6	-1.25	43	158
1.26 J	2.6	-1.34	43	159
0.92 J	2.6	-1.68	43	160
0.97 J	2.6	-1.63	43	161

ND<2	ND<2	0	43	161
ND<2	ND<2	0	43	161
ND<2	ND<2	0	43	161
1.25 J	ND<2	-0.75	43	162
1.6 J	ND<2	-0.4	43	163
1.91 J	ND<2	-0.09	43	164
1.12 J	ND<2	-0.88	43	165
ND<2	ND<2	0	43	165
1.35	ND<2	-0.65	43	166
1.26 J	ND<2	-0.74	43	167
0.92 J	ND<2	-1.08	43	168
0.97 J	ND<2	-1.03	43	169
ND<2	ND<2	0	43	169
ND<2	ND<2	0	43	169
1.25 J	ND<2	-0.75	43	170
1.6 J	ND<2	-0.4	43	171
1.91 J	ND<2	-0.09	43	172
1.12 J	ND<2	-0.88	43	173
ND<2	ND<2	0	43	173
1.35	ND<2	-0.65	43	174
1.26 J	ND<2	-0.74	43	175
0.92 J	ND<2	-1.08	43	176
0.97 J	ND<2	-1.03	43	177
ND<2	ND<2	0	43	177
1.25 J	ND<2	-0.75	43	178
1.6 J	ND<2	-0.4	43	179
1.91 J	ND<2	-0.09	43	180
1.12 J	ND<2	-0.88	43	181
ND<2	ND<2	0	43	181
1.35	ND<2	-0.65	43	182
1.26 J	ND<2	-0.74	43	183
0.92 J	ND<2	-1.08	43	184
0.97 J	ND<2	-1.03	43	185
1.25 J	ND<2	-0.75	43	186
1.6 J	ND<2	-0.4	43	187
1.91 J	ND<2	-0.09	43	188
1.12 J	ND<2	-0.88	43	189
ND<2	ND<2	0	43	189
1.35	ND<2	-0.65	43	190
1.26 J	ND<2	-0.74	43	191
0.92 J	ND<2	-1.08	43	192
0.97 J	ND<2	-1.03	43	193
1.6 J	1.25 J	0.35	44	193
1.91 J	1.25 J	0.66	45	193
1.12 J	1.25 J	-0.13	45	194
ND<2	1.25 J	0.75	46	194
1.35	1.25 J	0.1	47	194
1.26 J	1.25 J	0.01	48	194
0.92 J	1.25 J	-0.33	48	195
0.97 J	1.25 J	-0.28	48	196
1.91 J	1.6 J	0.31	49	196
1.12 J	1.6 J	-0.48	49	197
ND<2	1.6 J	0.4	50	197
1.35	1.6 J	-0.25	50	198
1.26 J	1.6 J	-0.34	50	199
0.92 J	1.6 J	-0.68	50	200
0.97 J	1.6 J	-0.63	50	201

1.12 J	1.91 J	-0.79	50	202
ND<2	1.91 J	0.09	51	202
1.35	1.91 J	-0.56	51	203
1.26 J	1.91 J	-0.65	51	204
0.92 J	1.91 J	-0.99	51	205
0.97 J	1.91 J	-0.94	51	206
ND<2	1.12 J	0.88	52	206
1.35	1.12 J	0.23	53	206
1.26 J	1.12 J	0.14	54	206
0.92 J	1.12 J	-0.2	54	207
0.97 J	1.12 J	-0.15	54	208
1.35	ND<2	-0.65	54	209
1.26 J	ND<2	-0.74	54	210
0.92 J	ND<2	-1.08	54	211
0.97 J	ND<2	-1.03	54	212
1.26 J	1.35	-0.09	54	213
0.92 J	1.35	-0.43	54	214
0.97 J	1.35	-0.38	54	215
0.92 J	1.26 J	-0.34	54	216
0.97 J	1.26 J	-0.29	54	217
0.97 J	0.92 J	0.05	55	217

S Statistic = 55 - 217 = -162

Tied Group	Value	Members
1	2	8

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 1176
B = 0
C = 336
D = 0
E = 56
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1768
Z-Score = -3.82899
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.82899 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: 1,2-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 191
Percent Non-Detects: 97.9487%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.1	ND<0.1

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	24 (96%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	1.39 J	1.39 J
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.1	ND<0.1

MW-8	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.1	ND<0.1	
MW-7	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.1	ND<0.1	
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.1	ND<0.1		
MW-12BR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.1	ND<0.1		
MW-12AR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.1	ND<0.1		
MW-11R	25	25 (100%)	7/20/1995	ND<2	ND<2	
		8/24/1995	ND<2	ND<2		
		9/28/1995	ND<2	ND<2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.1	ND<0.1	
MW-10	25	22 (88%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	0.58 J	0.58 J	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.42 J	0.42 J	
			6/5/2008	0.67 J	0.67 J	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.1	ND<0.1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 1,2-Dichloroethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.9487%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.1	FALSE
MW-8	6/11/2009	1	0.1	FALSE
MW-7	6/11/2009	1	0.1	FALSE
MW-6	6/11/2009	1	0.1	FALSE
MW-12BR	6/11/2009	1	0.1	FALSE
MW-12AR	6/11/2009	1	0.1	FALSE
MW-11R	6/11/2009	1	0.1	FALSE
MW-10	6/11/2009	1	0.1	FALSE

Concentrations (ppb)

Parameter: 1,2-Dichloropropane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 169
Percent Non-Detects: 86.6667%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.13	ND<0.13

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	23 (92%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	0.23 J	0.23 J
			6/5/2008	ND<2	ND<2
			11/20/2008	0.24 J	0.24 J
			6/11/2009	ND<0.13	ND<0.13

MW-8	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.13		ND<0.13
MW-7	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.13		ND<0.13
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.13		ND<0.13	
MW-12BR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.13		ND<0.13	
MW-12AR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.13		ND<0.13	
MW-11R	25	17 (68%)	7/20/1995		1.2 J	1.2 J
		8/24/1995	4.3	4.3		
		9/28/1995	3	3		
		10/26/1995	4	4		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004		ND<2	ND<2	
			10/12/2004		ND<2	ND<2	
			4/1/2005	1.3 J	1.3 J		
			10/25/2005		ND<2	ND<2	
			4/29/2006		0.5 J	0.5 J	
			11/18/2006		0.6 J	0.6 J	
			5/23/2007		ND<2	ND<2	
			11/28/2007		0.95 J	0.95 J	
			6/5/2008	ND<2	ND<2		
			11/20/2008		ND<2	ND<2	
			6/11/2009		ND<0.13		ND<0.13
MW-10	25	9 (36%)	7/20/1995		0.42 J	0.42 J	
			8/24/1995		3.1	3.1	
			9/28/1995		5	5	
			10/26/1995		3	3	
			11/19/1996		ND<2	ND<2	
			12/19/1996		ND<2	ND<2	
			3/24/1997		6	6	
			9/24/1997		7.7	7.7	
			4/7/1998	ND<2	ND<2		
			9/23/1998		5.6	5.6	
			3/16/1999		9.1	9.1	
			9/23/1999		5.6	5.6	
			3/15/2000		ND<2	ND<2	
			9/24/2003		ND<2	ND<2	
			3/11/2004		ND<2	ND<2	
			10/12/2004		ND<2	ND<2	
			4/1/2005	2.12	2.12		
			10/25/2005		3.32	3.32	
			4/29/2006		3.97	3.97	
			11/18/2006		2.93	2.93	
			5/23/2007		ND<2	ND<2	
			11/28/2007		3.78	3.78	
			6/5/2008	3.51	3.51		
			11/20/2008		ND<2	ND<2	
			6/11/2009		2.2	2.2	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: 1,2-Dichloropropane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 1275
Rank Mean = 85

Background Rank Sum = 1275
Background Rank Mean = 85

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	0.23 J	170
	6/5/2008	ND<2	85

	11/20/2008	0.24 J	171
	6/11/2009	ND<0.13	85

Rank Sum = 2296
Rank Mean = 91.84

MW-8	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 2125
Rank Mean = 85

MW-7	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 2125
Rank Mean = 85

MW-6	7/20/1995	ND<2	85

	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 2125
Rank Mean = 85

MW-12BR	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 1275
Rank Mean = 85

MW-12AR	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	ND<2	85
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 1275
Rank Mean = 85

MW-11R	7/20/1995	1.2 J	176
	8/24/1995	4.3	189
	9/28/1995	3	181
	10/26/1995	4	188
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	1.3 J	177
	10/25/2005	ND<2	85
	4/29/2006	0.5 J	173
	11/18/2006	0.6 J	174
	5/23/2007	ND<2	85
	11/28/2007	0.95 J	175
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.13	85

Rank Sum = 2878
Rank Mean = 115.12

MW-10	7/20/1995	0.42 J	172
	8/24/1995	3.1	183
	9/28/1995	5	190
	10/26/1995	3	182
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	6	193
	9/24/1997	7.7	194
	4/7/1998	ND<2	85
	9/23/1998	5.6	191
	3/16/1999	9.1	195
	9/23/1999	5.6	192
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	2.12	178
	10/25/2005	3.32	184
	4/29/2006	3.97	187
	11/18/2006	2.93	180
	5/23/2007	ND<2	85
	11/28/2007	3.78	186
	6/5/2008	3.51	185
	11/20/2008	ND<2	85
	6/11/2009	2.2	179

Rank Sum = 3736
Rank Mean = 149.44

Calculation Results:

Kruskal-Wallis H Statistic = 29.7356
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 85.1918

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
29.7356 > 15.5073 indicating a significant group difference at 5% significance level
85.1918 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 85

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	91.84	6.84	42.8788
MW-8	85	0	42.8788
MW-7	85	0	42.8788
MW-6	85	0	42.8788
MW-12BR	85	0	47.94
MW-12AR	85	0	47.94
MW-11R	115.12	30.12	42.8788
MW-10	149.44	64.44	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 85

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	91.84	6.84	46.3033
MW-8	85	0	46.3033
MW-7	85	0	46.3033
MW-6	85	0	46.3033
MW-12BR	85	0	51.7686
MW-12AR	85	0	51.7686
MW-11R	115.12	30.12	46.3033
MW-10	149.44	64.44	46.3033

Mann-Kendall Trend Analysis

Parameter: 1,2-Dichloropropane

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
3.1	0.42 J	2.68	1	0	
5	0.42 J	4.58	2	0	
3	0.42 J	2.58	3	0	
ND<2	0.42 J	1.58	4	0	
ND<2	0.42 J	1.58	5	0	
6	0.42 J	5.58	6	0	
7.7	0.42 J	7.28	7	0	
ND<2	0.42 J	1.58	8	0	
5.6	0.42 J	5.18	9	0	
9.1	0.42 J	8.68	10	0	
5.6	0.42 J	5.18	11	0	
ND<2	0.42 J	1.58	12	0	
ND<2	0.42 J	1.58	13	0	
ND<2	0.42 J	1.58	14	0	
ND<2	0.42 J	1.58	15	0	
2.12	0.42 J	1.7	16	0	
3.32	0.42 J	2.9	17	0	
3.97	0.42 J	3.55	18	0	
2.93	0.42 J	2.51	19	0	
ND<2	0.42 J	1.58	20	0	
3.78	0.42 J	3.36	21	0	
3.51	0.42 J	3.09	22	0	
ND<2	0.42 J	1.58	23	0	
2.2	0.42 J	1.78	24	0	
5	3.1	1.9	25	0	
3	3.1	-0.1	25	1	
ND<2	3.1	-1.1	25	2	
ND<2	3.1	-1.1	25	3	
6	3.1	2.9	26	3	
7.7	3.1	4.6	27	3	
ND<2	3.1	-1.1	27	4	
5.6	3.1	2.5	28	4	
9.1	3.1	6	29	4	
5.6	3.1	2.5	30	4	
ND<2	3.1	-1.1	30	5	
ND<2	3.1	-1.1	30	6	
ND<2	3.1	-1.1	30	7	
ND<2	3.1	-1.1	30	8	
2.12	3.1	-0.98	30	9	
3.32	3.1	0.22	31	9	
3.97	3.1	0.87	32	9	
2.93	3.1	-0.17	32	10	
ND<2	3.1	-1.1	32	11	
3.78	3.1	0.68	33	11	
3.51	3.1	0.41	34	11	
ND<2	3.1	-1.1	34	12	
2.2	3.1	-0.9	34	13	

3	5	-2	34	14
ND<2	5	-3	34	15
ND<2	5	-3	34	16
6	5	1	35	16
7.7	5	2.7	36	16
ND<2	5	-3	36	17
5.6	5	0.6	37	17
9.1	5	4.1	38	17
5.6	5	0.6	39	17
ND<2	5	-3	39	18
ND<2	5	-3	39	19
ND<2	5	-3	39	20
ND<2	5	-3	39	21
2.12	5	-2.88	39	22
3.32	5	-1.68	39	23
3.97	5	-1.03	39	24
2.93	5	-2.07	39	25
ND<2	5	-3	39	26
3.78	5	-1.22	39	27
3.51	5	-1.49	39	28
ND<2	5	-3	39	29
2.2	5	-2.8	39	30
ND<2	3	-1	39	31
ND<2	3	-1	39	32
6	3	3	40	32
7.7	3	4.7	41	32
ND<2	3	-1	41	33
5.6	3	2.6	42	33
9.1	3	6.1	43	33
5.6	3	2.6	44	33
ND<2	3	-1	44	34
ND<2	3	-1	44	35
ND<2	3	-1	44	36
ND<2	3	-1	44	37
2.12	3	-0.88	44	38
3.32	3	0.32	45	38
3.97	3	0.97	46	38
2.93	3	-0.07	46	39
ND<2	3	-1	46	40
3.78	3	0.78	47	40
3.51	3	0.51	48	40
ND<2	3	-1	48	41
2.2	3	-0.8	48	42
ND<2	ND<2	0	48	42
6	ND<2	4	49	42
7.7	ND<2	5.7	50	42
ND<2	ND<2	0	50	42
5.6	ND<2	3.6	51	42
9.1	ND<2	7.1	52	42
5.6	ND<2	3.6	53	42
ND<2	ND<2	0	53	42
ND<2	ND<2	0	53	42
ND<2	ND<2	0	53	42
ND<2	ND<2	0	53	42
2.12	ND<2	0.12	54	42
3.32	ND<2	1.32	55	42
3.97	ND<2	1.97	56	42
2.93	ND<2	0.93	57	42
ND<2	ND<2	0	57	42

3.78	ND<2	1.78	58	42
3.51	ND<2	1.51	59	42
ND<2	ND<2	0	59	42
2.2	ND<2	0.2	60	42
6	ND<2	4	61	42
7.7	ND<2	5.7	62	42
ND<2	ND<2	0	62	42
5.6	ND<2	3.6	63	42
9.1	ND<2	7.1	64	42
5.6	ND<2	3.6	65	42
ND<2	ND<2	0	65	42
ND<2	ND<2	0	65	42
ND<2	ND<2	0	65	42
ND<2	ND<2	0	65	42
2.12	ND<2	0.12	66	42
3.32	ND<2	1.32	67	42
3.97	ND<2	1.97	68	42
2.93	ND<2	0.93	69	42
ND<2	ND<2	0	69	42
3.78	ND<2	1.78	70	42
3.51	ND<2	1.51	71	42
ND<2	ND<2	0	71	42
2.2	ND<2	0.2	72	42
7.7	6	1.7	73	42
ND<2	6	-4	73	43
5.6	6	-0.4	73	44
9.1	6	3.1	74	44
5.6	6	-0.4	74	45
ND<2	6	-4	74	46
ND<2	6	-4	74	47
ND<2	6	-4	74	48
ND<2	6	-4	74	49
2.12	6	-3.88	74	50
3.32	6	-2.68	74	51
3.97	6	-2.03	74	52
2.93	6	-3.07	74	53
ND<2	6	-4	74	54
3.78	6	-2.22	74	55
3.51	6	-2.49	74	56
ND<2	6	-4	74	57
2.2	6	-3.8	74	58
ND<2	7.7	-5.7	74	59
5.6	7.7	-2.1	74	60
9.1	7.7	1.4	75	60
5.6	7.7	-2.1	75	61
ND<2	7.7	-5.7	75	62
ND<2	7.7	-5.7	75	63
ND<2	7.7	-5.7	75	64
ND<2	7.7	-5.7	75	65
2.12	7.7	-5.58	75	66
3.32	7.7	-4.38	75	67
3.97	7.7	-3.73	75	68
2.93	7.7	-4.77	75	69
ND<2	7.7	-5.7	75	70
3.78	7.7	-3.92	75	71
3.51	7.7	-4.19	75	72
ND<2	7.7	-5.7	75	73
2.2	7.7	-5.5	75	74

5.6	ND<2	3.6	76	74
9.1	ND<2	7.1	77	74
5.6	ND<2	3.6	78	74
ND<2	ND<2	0	78	74
ND<2	ND<2	0	78	74
ND<2	ND<2	0	78	74
ND<2	ND<2	0	78	74
2.12	ND<2	0.12	79	74
3.32	ND<2	1.32	80	74
3.97	ND<2	1.97	81	74
2.93	ND<2	0.93	82	74
ND<2	ND<2	0	82	74
3.78	ND<2	1.78	83	74
3.51	ND<2	1.51	84	74
ND<2	ND<2	0	84	74
2.2	ND<2	0.2	85	74
9.1	5.6	3.5	86	74
5.6	5.6	0	86	74
ND<2	5.6	-3.6	86	75
ND<2	5.6	-3.6	86	76
ND<2	5.6	-3.6	86	77
ND<2	5.6	-3.6	86	78
2.12	5.6	-3.48	86	79
3.32	5.6	-2.28	86	80
3.97	5.6	-1.63	86	81
2.93	5.6	-2.67	86	82
ND<2	5.6	-3.6	86	83
3.78	5.6	-1.82	86	84
3.51	5.6	-2.09	86	85
ND<2	5.6	-3.6	86	86
2.2	5.6	-3.4	86	87
5.6	9.1	-3.5	86	88
ND<2	9.1	-7.1	86	89
ND<2	9.1	-7.1	86	90
ND<2	9.1	-7.1	86	91
ND<2	9.1	-7.1	86	92
2.12	9.1	-6.98	86	93
3.32	9.1	-5.78	86	94
3.97	9.1	-5.13	86	95
2.93	9.1	-6.17	86	96
ND<2	9.1	-7.1	86	97
3.78	9.1	-5.32	86	98
3.51	9.1	-5.59	86	99
ND<2	9.1	-7.1	86	100
2.2	9.1	-6.9	86	101
ND<2	5.6	-3.6	86	102
ND<2	5.6	-3.6	86	103
ND<2	5.6	-3.6	86	104
ND<2	5.6	-3.6	86	105
2.12	5.6	-3.48	86	106
3.32	5.6	-2.28	86	107
3.97	5.6	-1.63	86	108
2.93	5.6	-2.67	86	109
ND<2	5.6	-3.6	86	110
3.78	5.6	-1.82	86	111
3.51	5.6	-2.09	86	112
ND<2	5.6	-3.6	86	113
2.2	5.6	-3.4	86	114

ND<2	ND<2	0	86	114
ND<2	ND<2	0	86	114
ND<2	ND<2	0	86	114
2.12	ND<2	0.12	87	114
3.32	ND<2	1.32	88	114
3.97	ND<2	1.97	89	114
2.93	ND<2	0.93	90	114
ND<2	ND<2	0	90	114
3.78	ND<2	1.78	91	114
3.51	ND<2	1.51	92	114
ND<2	ND<2	0	92	114
2.2	ND<2	0.2	93	114
ND<2	ND<2	0	93	114
ND<2	ND<2	0	93	114
2.12	ND<2	0.12	94	114
3.32	ND<2	1.32	95	114
3.97	ND<2	1.97	96	114
2.93	ND<2	0.93	97	114
ND<2	ND<2	0	97	114
3.78	ND<2	1.78	98	114
3.51	ND<2	1.51	99	114
ND<2	ND<2	0	99	114
2.2	ND<2	0.2	100	114
ND<2	ND<2	0	100	114
2.12	ND<2	0.12	101	114
3.32	ND<2	1.32	102	114
3.97	ND<2	1.97	103	114
2.93	ND<2	0.93	104	114
ND<2	ND<2	0	104	114
3.78	ND<2	1.78	105	114
3.51	ND<2	1.51	106	114
ND<2	ND<2	0	106	114
2.2	ND<2	0.2	107	114
2.12	ND<2	0.12	108	114
3.32	ND<2	1.32	109	114
3.97	ND<2	1.97	110	114
2.93	ND<2	0.93	111	114
ND<2	ND<2	0	111	114
3.78	ND<2	1.78	112	114
3.51	ND<2	1.51	113	114
ND<2	ND<2	0	113	114
2.2	ND<2	0.2	114	114
3.32	2.12	1.2	115	114
3.97	2.12	1.85	116	114
2.93	2.12	0.81	117	114
ND<2	2.12	-0.12	117	115
3.78	2.12	1.66	118	115
3.51	2.12	1.39	119	115
ND<2	2.12	-0.12	119	116
2.2	2.12	0.08	120	116
3.97	3.32	0.65	121	116
2.93	3.32	-0.39	121	117
ND<2	3.32	-1.32	121	118
3.78	3.32	0.46	122	118
3.51	3.32	0.19	123	118
ND<2	3.32	-1.32	123	119
2.2	3.32	-1.12	123	120

2.93	3.97	-1.04	123	121
ND<2	3.97	-1.97	123	122
3.78	3.97	-0.19	123	123
3.51	3.97	-0.46	123	124
ND<2	3.97	-1.97	123	125
2.2	3.97	-1.77	123	126
ND<2	2.93	-0.93	123	127
3.78	2.93	0.85	124	127
3.51	2.93	0.58	125	127
ND<2	2.93	-0.93	125	128
2.2	2.93	-0.73	125	129
3.78	ND<2	1.78	126	129
3.51	ND<2	1.51	127	129
ND<2	ND<2	0	127	129
2.2	ND<2	0.2	128	129
3.51	3.78	-0.27	128	130
ND<2	3.78	-1.78	128	131
2.2	3.78	-1.58	128	132
ND<2	3.51	-1.51	128	133
2.2	3.51	-1.31	128	134
2.2	ND<2	0.2	129	134

S Statistic = 129 - 134 = -5

Tied Group	Value	Members
1	2	9
2	5.6	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1

There are 0 time periods with multiple data

A = 1674
B = 0
C = 504
D = 0
E = 74
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1740.33
Z-Score = -0.0958835
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-0.0958835 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 154
Percent Non-Detects: 78.9744%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.28	ND<0.28

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	15 (60%)	7/20/1995	ND<2	ND<2
			8/24/1995	0.51 J	0.51 J
			9/28/1995	0.6 J	0.6 J
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	0.91 J	0.91 J
			10/25/2005	0.54 J	0.54 J
			4/29/2006	0.43 J	0.43 J
			11/18/2006	0.4 J	0.4 J
			5/23/2007	ND<2	ND<2
			11/28/2007	0.66 J	0.66 J
			6/5/2008	0.47 J	0.47 J
			11/20/2008	0.54 J	0.54 J
			6/11/2009	0.44 J	0.44 J

MW-8	25	19 (76%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	0.28 J	0.28 J	
			4/29/2006	0.36 J	0.36 J	
			11/18/2006	0.43 J	0.43 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.28 J	0.28 J	
			6/5/2008	0.32 J	0.32 J	
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.62 J	0.62 J	
MW-7	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.28		ND<0.28
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.28		ND<0.28	
MW-12BR	15	13 (86.6667%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	1.11 J	1.11 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	1.98 J	1.98 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.28		ND<0.28	
MW-12AR	15	9 (60%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	1.05 J	1.05 J		
		4/29/2006	1.14 J	1.14 J		
		11/18/2006	0.84 J	0.84 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.78 J	0.78 J		
		6/5/2008	0.97 J	0.97 J		
		11/20/2008	0.49 J	0.49 J		
		6/11/2009	ND<0.28		ND<0.28	
MW-11R	25	20 (80%)	7/20/1995		ND<2	ND<2
		8/24/1995	2.2	2.2		
		9/28/1995	2	2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	5.4	5.4		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 ND<2	ND<2		
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.3 J	0.3 J	
			6/5/2008 ND<2	ND<2		
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.48 J	0.48 J	
MW-10	25	13 (52%)	7/20/1995	ND<2	ND<2	
			8/24/1995	1.5 J	1.5 J	
			9/28/1995	4	4	
			10/26/1995	2	2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998 ND<2	ND<2		
			9/23/1998	ND<2	ND<2	
			3/16/1999	8.8	8.8	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 2.75	2.75		
			10/25/2005	3.99	3.99	
			4/29/2006	5.6	5.6	
			11/18/2006	3.9	3.9	
			5/23/2007	4.1	4.1	
			11/28/2007	5.99	5.99	
			6/5/2008 6.45	6.45		
			11/20/2008	ND<2	ND<2	
			6/11/2009	3.4	3.4	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 78.9744%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.44	FALSE
MW-8	6/11/2009	1	0.62	FALSE
MW-7	6/11/2009	1	0.28	FALSE
MW-6	6/11/2009	1	0.28	FALSE
MW-12BR	6/11/2009	1	0.28	FALSE
MW-12AR	6/11/2009	1	0.28	FALSE
MW-11R	6/11/2009	1	0.48	FALSE
MW-10	6/11/2009	1	3.4	TRUE

Kruskal-Wallis Non-Parametric Test

Parameter: 1,4-Dichlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	ND<2	77.5
	4/29/2006	ND<2	77.5
	11/18/2006	ND<2	77.5
	5/23/2007	ND<2	77.5
	11/28/2007	ND<2	77.5
	6/5/2008	ND<2	77.5
	11/20/2008	ND<2	77.5
	6/11/2009	ND<0.28	77.5

Rank Sum = 1162.5
Rank Mean = 77.5

Background Rank Sum = 1162.5
Background Rank Mean = 77.5

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	77.5
	8/24/1995	0.51 J	167
	9/28/1995	0.6 J	170
	10/26/1995	ND<2	77.5
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	0.91 J	175
	10/25/2005	0.54 J	168
	4/29/2006	0.43 J	161
	11/18/2006	0.4 J	160
	5/23/2007	ND<2	77.5
	11/28/2007	0.66 J	172
	6/5/2008	0.47 J	164

	11/20/2008	0.54 J	169
	6/11/2009	0.44 J	163

Rank Sum = 2831.5
Rank Mean = 113.26

MW-8	7/20/1995	ND<2	77.5
	8/24/1995	ND<2	77.5
	9/28/1995	ND<2	77.5
	10/26/1995	ND<2	77.5
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	0.28 J	155
	4/29/2006	0.36 J	159
	11/18/2006	0.43 J	162
	5/23/2007	ND<2	77.5
	11/28/2007	0.28 J	156
	6/5/2008	0.32 J	158
	11/20/2008	ND<2	77.5
	6/11/2009	0.62 J	171

Rank Sum = 2433.5
Rank Mean = 97.34

MW-7	7/20/1995	ND<2	77.5
	8/24/1995	ND<2	77.5
	9/28/1995	ND<2	77.5
	10/26/1995	ND<2	77.5
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	ND<2	77.5
	4/29/2006	ND<2	77.5
	11/18/2006	ND<2	77.5
	5/23/2007	ND<2	77.5
	11/28/2007	ND<2	77.5
	6/5/2008	ND<2	77.5
	11/20/2008	ND<2	77.5
	6/11/2009	ND<0.28	77.5

Rank Sum = 1937.5
Rank Mean = 77.5

MW-6	7/20/1995	ND<2	77.5

	8/24/1995	ND<2	77.5
	9/28/1995	ND<2	77.5
	10/26/1995	ND<2	77.5
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	ND<2	77.5
	4/29/2006	ND<2	77.5
	11/18/2006	ND<2	77.5
	5/23/2007	ND<2	77.5
	11/28/2007	ND<2	77.5
	6/5/2008	ND<2	77.5
	11/20/2008	ND<2	77.5
	6/11/2009	ND<0.28	77.5

Rank Sum = 1937.5
Rank Mean = 77.5

MW-12BR	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	1.11 J	178
	10/25/2005	ND<2	77.5
	4/29/2006	1.98 J	181
	11/18/2006	ND<2	77.5
	5/23/2007	ND<2	77.5
	11/28/2007	ND<2	77.5
	6/5/2008	ND<2	77.5
	11/20/2008	ND<2	77.5
	6/11/2009	ND<0.28	77.5

Rank Sum = 1366.5
Rank Mean = 91.1

MW-12AR	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	1.05 J	177
	4/29/2006	1.14 J	179
	11/18/2006	0.84 J	174
	5/23/2007	ND<2	77.5
	11/28/2007	0.78 J	173
	6/5/2008	0.97 J	176
	11/20/2008	0.49 J	166
	6/11/2009	ND<0.28	77.5

Rank Sum = 1742.5
Rank Mean = 116.167

MW-11R	7/20/1995	ND<2	77.5
	8/24/1995	2.2	184
	9/28/1995	2	182
	10/26/1995	ND<2	77.5
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	ND<2	77.5
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	5.4	191
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	ND<2	77.5
	10/25/2005	ND<2	77.5
	4/29/2006	ND<2	77.5
	11/18/2006	ND<2	77.5
	5/23/2007	ND<2	77.5
	11/28/2007	0.3 J	157
	6/5/2008	ND<2	77.5
	11/20/2008	ND<2	77.5
	6/11/2009	0.48 J	165

Rank Sum = 2429
Rank Mean = 97.16

MW-10	7/20/1995	ND<2	77.5
	8/24/1995	1.5 J	180
	9/28/1995	4	189
	10/26/1995	2	183
	11/19/1996	ND<2	77.5
	12/19/1996	ND<2	77.5
	3/24/1997	ND<2	77.5
	9/24/1997	ND<2	77.5
	4/7/1998	ND<2	77.5
	9/23/1998	ND<2	77.5
	3/16/1999	8.8	195
	9/23/1999	ND<2	77.5
	3/15/2000	ND<2	77.5
	9/24/2003	ND<2	77.5
	3/11/2004	ND<2	77.5
	10/12/2004	ND<2	77.5
	4/1/2005	2.75	185
	10/25/2005	3.99	188
	4/29/2006	5.6	192
	11/18/2006	3.9	187
	5/23/2007	4.1	190
	11/28/2007	5.99	193
	6/5/2008	6.45	194
	11/20/2008	ND<2	77.5
	6/11/2009	3.4	186

Rank Sum = 3269.5
Rank Mean = 130.78

Calculation Results:

Kruskal-Wallis H Statistic = 20.6261
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 40.6467

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
20.6261 > 15.5073 indicating a significant group difference at 5% significance level
40.6467 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 77.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	113.26	35.76	42.8788	
MW-8	97.34	19.84	42.8788	
MW-7	77.5	0	42.8788	
MW-6	77.5	0	42.8788	
MW-12BR		91.1	13.6	47.94
MW-12AR		116.167	38.6667	47.94
MW-11R	97.16	19.66	42.8788	
MW-10	130.78	53.28	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 77.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	113.26	35.76	46.3033	
MW-8	97.34	19.84	46.3033	
MW-7	77.5	0	46.3033	
MW-6	77.5	0	46.3033	
MW-12BR		91.1	13.6	51.7686
MW-12AR		116.167	38.6667	51.7686
MW-11R	97.16	19.66	46.3033	
MW-10	130.78	53.28	46.3033	

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-13

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<0.28		ND<2	-1.72	0	1
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<0.28		ND<2	-1.72	0	2
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<0.28		ND<2	-1.72	0	3
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	

ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<0.28		ND<2	-1.72	0	4
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<0.28		ND<2	-1.72	0	5
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<0.28		ND<2	-1.72	0	6
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<0.28		ND<2	-1.72	0	7
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<0.28		ND<2	-1.72	0	8
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<0.28		ND<2	-1.72	0	9
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<0.28		ND<2	-1.72	0	10
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<0.28		ND<2	-1.72	0	11

ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<0.28		ND<2	-1.72	0	12
ND<2	ND<2	0	0	12	
ND<0.28		ND<2	-1.72	0	13
ND<0.28		ND<2	-1.72	0	14

S Statistic = 0 - 14 = -14

Tied Group	Value	Members
1	2	14

Time Period		Observations
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 6006
B = 0
C = 2184
D = 0
E = 182
F = 0
a = 7350
b = 24570
c = 420
Group Variance = 74.6667
Z-Score = -1.50446
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.50446 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-9

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
0.51 J	ND<2	-1.49	0	1	
0.6 J	ND<2	-1.4	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
0.91 J	ND<2	-1.09	0	3	
0.54 J	ND<2	-1.46	0	4	
0.43 J	ND<2	-1.57	0	5	
0.4 J	ND<2	-1.6	0	6	
ND<2	ND<2	0	0	6	
0.66 J	ND<2	-1.34	0	7	
0.47 J	ND<2	-1.53	0	8	
0.54 J	ND<2	-1.46	0	9	
0.44 J	ND<2	-1.56	0	10	
0.6 J	0.51 J	0.09	1	10	
ND<2	0.51 J	1.49	2	10	
ND<2	0.51 J	1.49	3	10	
ND<2	0.51 J	1.49	4	10	
ND<2	0.51 J	1.49	5	10	
ND<2	0.51 J	1.49	6	10	
ND<2	0.51 J	1.49	7	10	
ND<2	0.51 J	1.49	8	10	
ND<2	0.51 J	1.49	9	10	
ND<2	0.51 J	1.49	10	10	
ND<2	0.51 J	1.49	11	10	
ND<2	0.51 J	1.49	12	10	
ND<2	0.51 J	1.49	13	10	
ND<2	0.51 J	1.49	14	10	
0.91 J	0.51 J	0.4	15	10	
0.54 J	0.51 J	0.03	16	10	
0.43 J	0.51 J	-0.08	16	11	
0.4 J	0.51 J	-0.11	16	12	
ND<2	0.51 J	1.49	17	12	
0.66 J	0.51 J	0.15	18	12	
0.47 J	0.51 J	-0.04	18	13	
0.54 J	0.51 J	0.03	19	13	
0.44 J	0.51 J	-0.07	19	14	

ND<2	0.6 J	1.4	20	14
ND<2	0.6 J	1.4	21	14
ND<2	0.6 J	1.4	22	14
ND<2	0.6 J	1.4	23	14
ND<2	0.6 J	1.4	24	14
ND<2	0.6 J	1.4	25	14
ND<2	0.6 J	1.4	26	14
ND<2	0.6 J	1.4	27	14
ND<2	0.6 J	1.4	28	14
ND<2	0.6 J	1.4	29	14
ND<2	0.6 J	1.4	30	14
ND<2	0.6 J	1.4	31	14
ND<2	0.6 J	1.4	32	14
0.91 J	0.6 J	0.31	33	14
0.54 J	0.6 J	-0.06	33	15
0.43 J	0.6 J	-0.17	33	16
0.4 J	0.6 J	-0.2	33	17
ND<2	0.6 J	1.4	34	17
0.66 J	0.6 J	0.06	35	17
0.47 J	0.6 J	-0.13	35	18
0.54 J	0.6 J	-0.06	35	19
0.44 J	0.6 J	-0.16	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
ND<2	ND<2	0	35	20
0.91 J	ND<2	-1.09	35	21
0.54 J	ND<2	-1.46	35	22
0.43 J	ND<2	-1.57	35	23
0.4 J	ND<2	-1.6	35	24
ND<2	ND<2	0	35	24
0.66 J	ND<2	-1.34	35	25
0.47 J	ND<2	-1.53	35	26
0.54 J	ND<2	-1.46	35	27
0.44 J	ND<2	-1.56	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
ND<2	ND<2	0	35	28
0.91 J	ND<2	-1.09	35	29
0.54 J	ND<2	-1.46	35	30
0.43 J	ND<2	-1.57	35	31
0.4 J	ND<2	-1.6	35	32
ND<2	ND<2	0	35	32

0.66 J	ND<2	-1.34	35	33
0.47 J	ND<2	-1.53	35	34
0.54 J	ND<2	-1.46	35	35
0.44 J	ND<2	-1.56	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
ND<2	ND<2	0	35	36
0.91 J	ND<2	-1.09	35	37
0.54 J	ND<2	-1.46	35	38
0.43 J	ND<2	-1.57	35	39
0.4 J	ND<2	-1.6	35	40
ND<2	ND<2	0	35	40
0.66 J	ND<2	-1.34	35	41
0.47 J	ND<2	-1.53	35	42
0.54 J	ND<2	-1.46	35	43
0.44 J	ND<2	-1.56	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
ND<2	ND<2	0	35	44
0.91 J	ND<2	-1.09	35	45
0.54 J	ND<2	-1.46	35	46
0.43 J	ND<2	-1.57	35	47
0.4 J	ND<2	-1.6	35	48
ND<2	ND<2	0	35	48
0.66 J	ND<2	-1.34	35	49
0.47 J	ND<2	-1.53	35	50
0.54 J	ND<2	-1.46	35	51
0.44 J	ND<2	-1.56	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
ND<2	ND<2	0	35	52
0.91 J	ND<2	-1.09	35	53
0.54 J	ND<2	-1.46	35	54
0.43 J	ND<2	-1.57	35	55
0.4 J	ND<2	-1.6	35	56
ND<2	ND<2	0	35	56
0.66 J	ND<2	-1.34	35	57
0.47 J	ND<2	-1.53	35	58
0.54 J	ND<2	-1.46	35	59
0.44 J	ND<2	-1.56	35	60

ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
ND<2	ND<2	0	35	60
0.91 J	ND<2	-1.09	35	61
0.54 J	ND<2	-1.46	35	62
0.43 J	ND<2	-1.57	35	63
0.4 J	ND<2	-1.6	35	64
ND<2	ND<2	0	35	64
0.66 J	ND<2	-1.34	35	65
0.47 J	ND<2	-1.53	35	66
0.54 J	ND<2	-1.46	35	67
0.44 J	ND<2	-1.56	35	68
ND<2	ND<2	0	35	68
ND<2	ND<2	0	35	68
ND<2	ND<2	0	35	68
ND<2	ND<2	0	35	68
ND<2	ND<2	0	35	68
ND<2	ND<2	0	35	68
0.91 J	ND<2	-1.09	35	69
0.54 J	ND<2	-1.46	35	70
0.43 J	ND<2	-1.57	35	71
0.4 J	ND<2	-1.6	35	72
ND<2	ND<2	0	35	72
0.66 J	ND<2	-1.34	35	73
0.47 J	ND<2	-1.53	35	74
0.54 J	ND<2	-1.46	35	75
0.44 J	ND<2	-1.56	35	76
ND<2	ND<2	0	35	76
ND<2	ND<2	0	35	76
ND<2	ND<2	0	35	76
ND<2	ND<2	0	35	76
ND<2	ND<2	0	35	76
0.91 J	ND<2	-1.09	35	77
0.54 J	ND<2	-1.46	35	78
0.43 J	ND<2	-1.57	35	79
0.4 J	ND<2	-1.6	35	80
ND<2	ND<2	0	35	80
0.66 J	ND<2	-1.34	35	81
0.47 J	ND<2	-1.53	35	82
0.54 J	ND<2	-1.46	35	83
0.44 J	ND<2	-1.56	35	84
ND<2	ND<2	0	35	84
ND<2	ND<2	0	35	84
ND<2	ND<2	0	35	84
ND<2	ND<2	0	35	84
0.91 J	ND<2	-1.09	35	85
0.54 J	ND<2	-1.46	35	86
0.43 J	ND<2	-1.57	35	87
0.4 J	ND<2	-1.6	35	88
ND<2	ND<2	0	35	88
0.66 J	ND<2	-1.34	35	89
0.47 J	ND<2	-1.53	35	90
0.54 J	ND<2	-1.46	35	91
0.44 J	ND<2	-1.56	35	92

ND<2	ND<2	0	35	92
ND<2	ND<2	0	35	92
ND<2	ND<2	0	35	92
0.91 J	ND<2	-1.09	35	93
0.54 J	ND<2	-1.46	35	94
0.43 J	ND<2	-1.57	35	95
0.4 J	ND<2	-1.6	35	96
ND<2	ND<2	0	35	96
0.66 J	ND<2	-1.34	35	97
0.47 J	ND<2	-1.53	35	98
0.54 J	ND<2	-1.46	35	99
0.44 J	ND<2	-1.56	35	100
ND<2	ND<2	0	35	100
ND<2	ND<2	0	35	100
0.91 J	ND<2	-1.09	35	101
0.54 J	ND<2	-1.46	35	102
0.43 J	ND<2	-1.57	35	103
0.4 J	ND<2	-1.6	35	104
ND<2	ND<2	0	35	104
0.66 J	ND<2	-1.34	35	105
0.47 J	ND<2	-1.53	35	106
0.54 J	ND<2	-1.46	35	107
0.44 J	ND<2	-1.56	35	108
ND<2	ND<2	0	35	108
0.91 J	ND<2	-1.09	35	109
0.54 J	ND<2	-1.46	35	110
0.43 J	ND<2	-1.57	35	111
0.4 J	ND<2	-1.6	35	112
ND<2	ND<2	0	35	112
0.66 J	ND<2	-1.34	35	113
0.47 J	ND<2	-1.53	35	114
0.54 J	ND<2	-1.46	35	115
0.44 J	ND<2	-1.56	35	116
0.91 J	ND<2	-1.09	35	117
0.54 J	ND<2	-1.46	35	118
0.43 J	ND<2	-1.57	35	119
0.4 J	ND<2	-1.6	35	120
ND<2	ND<2	0	35	120
0.66 J	ND<2	-1.34	35	121
0.47 J	ND<2	-1.53	35	122
0.54 J	ND<2	-1.46	35	123
0.44 J	ND<2	-1.56	35	124
0.54 J	0.91 J	-0.37	35	125
0.43 J	0.91 J	-0.48	35	126
0.4 J	0.91 J	-0.51	35	127
ND<2	0.91 J	1.09	36	127
0.66 J	0.91 J	-0.25	36	128
0.47 J	0.91 J	-0.44	36	129
0.54 J	0.91 J	-0.37	36	130
0.44 J	0.91 J	-0.47	36	131
0.43 J	0.54 J	-0.11	36	132
0.4 J	0.54 J	-0.14	36	133
ND<2	0.54 J	1.46	37	133
0.66 J	0.54 J	0.12	38	133
0.47 J	0.54 J	-0.07	38	134
0.54 J	0.54 J	0	38	134
0.44 J	0.54 J	-0.1	38	135

0.4 J	0.43 J	-0.03	38	136
ND<2	0.43 J	1.57	39	136
0.66 J	0.43 J	0.23	40	136
0.47 J	0.43 J	0.04	41	136
0.54 J	0.43 J	0.11	42	136
0.44 J	0.43 J	0.01	43	136
ND<2	0.4 J	1.6	44	136
0.66 J	0.4 J	0.26	45	136
0.47 J	0.4 J	0.07	46	136
0.54 J	0.4 J	0.14	47	136
0.44 J	0.4 J	0.04	48	136
0.66 J	ND<2	-1.34	48	137
0.47 J	ND<2	-1.53	48	138
0.54 J	ND<2	-1.46	48	139
0.44 J	ND<2	-1.56	48	140
0.47 J	0.66 J	-0.19	48	141
0.54 J	0.66 J	-0.12	48	142
0.44 J	0.66 J	-0.22	48	143
0.54 J	0.47 J	0.07	49	143
0.44 J	0.47 J	-0.03	49	144
0.44 J	0.54 J	-0.1	49	145

S Statistic = 49 - 145 = -96

Tied Group	Value	Members
1	2	15
2	0.54	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 7368
B = 0
C = 2730
D = 0
E = 212
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1424
Z-Score = -2.51749
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.51749 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
0.28 J	ND<2	-1.72	0	1	
0.36 J	ND<2	-1.64	0	2	
0.43 J	ND<2	-1.57	0	3	
ND<2	ND<2	0	0	3	
0.28 J	ND<2	-1.72	0	4	
0.32 J	ND<2	-1.68	0	5	
ND<2	ND<2	0	0	5	
0.62 J	ND<2	-1.38	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
0.28 J	ND<2	-1.72	0	7	
0.36 J	ND<2	-1.64	0	8	
0.43 J	ND<2	-1.57	0	9	
ND<2	ND<2	0	0	9	
0.28 J	ND<2	-1.72	0	10	
0.32 J	ND<2	-1.68	0	11	
ND<2	ND<2	0	0	11	
0.62 J	ND<2	-1.38	0	12	

ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
ND<2	ND<2	0	0	12
0.28 J	ND<2	-1.72	0	13
0.36 J	ND<2	-1.64	0	14
0.43 J	ND<2	-1.57	0	15
ND<2	ND<2	0	0	15
0.28 J	ND<2	-1.72	0	16
0.32 J	ND<2	-1.68	0	17
ND<2	ND<2	0	0	17
0.62 J	ND<2	-1.38	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
ND<2	ND<2	0	0	18
0.28 J	ND<2	-1.72	0	19
0.36 J	ND<2	-1.64	0	20
0.43 J	ND<2	-1.57	0	21
ND<2	ND<2	0	0	21
0.28 J	ND<2	-1.72	0	22
0.32 J	ND<2	-1.68	0	23
ND<2	ND<2	0	0	23
0.62 J	ND<2	-1.38	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
ND<2	ND<2	0	0	24
0.28 J	ND<2	-1.72	0	25
0.36 J	ND<2	-1.64	0	26
0.43 J	ND<2	-1.57	0	27
ND<2	ND<2	0	0	27

0.28 J	ND<2	-1.72	0	28
0.32 J	ND<2	-1.68	0	29
ND<2	ND<2	0	0	29
0.62 J	ND<2	-1.38	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
ND<2	ND<2	0	0	30
0.28 J	ND<2	-1.72	0	31
0.36 J	ND<2	-1.64	0	32
0.43 J	ND<2	-1.57	0	33
ND<2	ND<2	0	0	33
0.28 J	ND<2	-1.72	0	34
0.32 J	ND<2	-1.68	0	35
ND<2	ND<2	0	0	35
0.62 J	ND<2	-1.38	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
ND<2	ND<2	0	0	36
0.28 J	ND<2	-1.72	0	37
0.36 J	ND<2	-1.64	0	38
0.43 J	ND<2	-1.57	0	39
ND<2	ND<2	0	0	39
0.28 J	ND<2	-1.72	0	40
0.32 J	ND<2	-1.68	0	41
ND<2	ND<2	0	0	41
0.62 J	ND<2	-1.38	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
ND<2	ND<2	0	0	42
0.28 J	ND<2	-1.72	0	43
0.36 J	ND<2	-1.64	0	44
0.43 J	ND<2	-1.57	0	45
ND<2	ND<2	0	0	45
0.28 J	ND<2	-1.72	0	46
0.32 J	ND<2	-1.68	0	47
ND<2	ND<2	0	0	47
0.62 J	ND<2	-1.38	0	48

ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
ND<2	ND<2	0	0	48
0.28 J	ND<2	-1.72	0	49
0.36 J	ND<2	-1.64	0	50
0.43 J	ND<2	-1.57	0	51
ND<2	ND<2	0	0	51
0.28 J	ND<2	-1.72	0	52
0.32 J	ND<2	-1.68	0	53
ND<2	ND<2	0	0	53
0.62 J	ND<2	-1.38	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
ND<2	ND<2	0	0	54
0.28 J	ND<2	-1.72	0	55
0.36 J	ND<2	-1.64	0	56
0.43 J	ND<2	-1.57	0	57
ND<2	ND<2	0	0	57
0.28 J	ND<2	-1.72	0	58
0.32 J	ND<2	-1.68	0	59
ND<2	ND<2	0	0	59
0.62 J	ND<2	-1.38	0	60
ND<2	ND<2	0	0	60
ND<2	ND<2	0	0	60
ND<2	ND<2	0	0	60
ND<2	ND<2	0	0	60
ND<2	ND<2	0	0	60
ND<2	ND<2	0	0	60
0.28 J	ND<2	-1.72	0	61
0.36 J	ND<2	-1.64	0	62
0.43 J	ND<2	-1.57	0	63
ND<2	ND<2	0	0	63
0.28 J	ND<2	-1.72	0	64
0.32 J	ND<2	-1.68	0	65
ND<2	ND<2	0	0	65
0.62 J	ND<2	-1.38	0	66
ND<2	ND<2	0	0	66
ND<2	ND<2	0	0	66
ND<2	ND<2	0	0	66
ND<2	ND<2	0	0	66
ND<2	ND<2	0	0	66
0.28 J	ND<2	-1.72	0	67
0.36 J	ND<2	-1.64	0	68
0.43 J	ND<2	-1.57	0	69
ND<2	ND<2	0	0	69
0.28 J	ND<2	-1.72	0	70
0.32 J	ND<2	-1.68	0	71
ND<2	ND<2	0	0	71
0.62 J	ND<2	-1.38	0	72

ND<2	ND<2	0	0	72
ND<2	ND<2	0	0	72
ND<2	ND<2	0	0	72
ND<2	ND<2	0	0	72
0.28 J	ND<2	-1.72	0	73
0.36 J	ND<2	-1.64	0	74
0.43 J	ND<2	-1.57	0	75
ND<2	ND<2	0	0	75
0.28 J	ND<2	-1.72	0	76
0.32 J	ND<2	-1.68	0	77
ND<2	ND<2	0	0	77
0.62 J	ND<2	-1.38	0	78
ND<2	ND<2	0	0	78
ND<2	ND<2	0	0	78
ND<2	ND<2	0	0	78
0.28 J	ND<2	-1.72	0	79
0.36 J	ND<2	-1.64	0	80
0.43 J	ND<2	-1.57	0	81
ND<2	ND<2	0	0	81
0.28 J	ND<2	-1.72	0	82
0.32 J	ND<2	-1.68	0	83
ND<2	ND<2	0	0	83
0.62 J	ND<2	-1.38	0	84
ND<2	ND<2	0	0	84
ND<2	ND<2	0	0	84
0.28 J	ND<2	-1.72	0	85
0.36 J	ND<2	-1.64	0	86
0.43 J	ND<2	-1.57	0	87
ND<2	ND<2	0	0	87
0.28 J	ND<2	-1.72	0	88
0.32 J	ND<2	-1.68	0	89
ND<2	ND<2	0	0	89
0.62 J	ND<2	-1.38	0	90
ND<2	ND<2	0	0	90
0.28 J	ND<2	-1.72	0	91
0.36 J	ND<2	-1.64	0	92
0.43 J	ND<2	-1.57	0	93
ND<2	ND<2	0	0	93
0.28 J	ND<2	-1.72	0	94
0.32 J	ND<2	-1.68	0	95
ND<2	ND<2	0	0	95
0.62 J	ND<2	-1.38	0	96
0.28 J	ND<2	-1.72	0	97
0.36 J	ND<2	-1.64	0	98
0.43 J	ND<2	-1.57	0	99
ND<2	ND<2	0	0	99
0.28 J	ND<2	-1.72	0	100
0.32 J	ND<2	-1.68	0	101
ND<2	ND<2	0	0	101
0.62 J	ND<2	-1.38	0	102
0.36 J	0.28 J	0.08	1	102
0.43 J	0.28 J	0.15	2	102
ND<2	0.28 J	1.72	3	102
0.28 J	0.28 J	0	3	102
0.32 J	0.28 J	0.04	4	102
ND<2	0.28 J	1.72	5	102
0.62 J	0.28 J	0.34	6	102

0.43 J	0.36 J	0.07	7	102
ND<2	0.36 J	1.64	8	102
0.28 J	0.36 J	-0.08	8	103
0.32 J	0.36 J	-0.04	8	104
ND<2	0.36 J	1.64	9	104
0.62 J	0.36 J	0.26	10	104
ND<2	0.43 J	1.57	11	104
0.28 J	0.43 J	-0.15	11	105
0.32 J	0.43 J	-0.11	11	106
ND<2	0.43 J	1.57	12	106
0.62 J	0.43 J	0.19	13	106
0.28 J	ND<2	-1.72	13	107
0.32 J	ND<2	-1.68	13	108
ND<2	ND<2	0	13	108
0.62 J	ND<2	-1.38	13	109
0.32 J	0.28 J	0.04	14	109
ND<2	0.28 J	1.72	15	109
0.62 J	0.28 J	0.34	16	109
ND<2	0.32 J	1.68	17	109
0.62 J	0.32 J	0.3	18	109
0.62 J	ND<2	-1.38	18	110

S Statistic = 18 - 110 = -92

Tied Group	Value	Members
1	2	19
2	0.28	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1

There are 0 time periods with multiple data

A = 14724
B = 0
C = 5814
D = 0
E = 344
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1015.33
Z-Score = -2.85586
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.85586 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-7

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<0.28		ND<2	-1.72	0	1
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<0.28		ND<2	-1.72	0	2

ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<0.28		ND<2	-1.72	0	3
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<0.28		ND<2	-1.72	0	4
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	

ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<0.28		ND<2	-1.72	0	5
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
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ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<0.28		ND<2	-1.72	0	6
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
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ND<2	ND<2	0	0	6	
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ND<2	ND<2	0	0	6	
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ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<0.28		ND<2	-1.72	0	7
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<0.28		ND<2	-1.72	0	8

ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<0.28		ND<2	-1.72	0	9
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<0.28		ND<2	-1.72	0	10
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<0.28		ND<2	-1.72	0	11
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<0.28		ND<2	-1.72	0	12

ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<0.28		ND<2	-1.72	0	13
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<0.28		ND<2	-1.72	0	14
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<0.28		ND<2	-1.72	0	15
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<0.28		ND<2	-1.72	0	16
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<0.28		ND<2	-1.72	0	17
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<0.28		ND<2	-1.72	0	18

ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<0.28		ND<2	-1.72	0	19
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<0.28		ND<2	-1.72	0	20
ND<2	ND<2	0	0	20	
ND<2	ND<2	0	0	20	
ND<2	ND<2	0	0	20	
ND<0.28		ND<2	-1.72	0	21
ND<2	ND<2	0	0	21	
ND<2	ND<2	0	0	21	
ND<0.28		ND<2	-1.72	0	22
ND<2	ND<2	0	0	22	
ND<0.28		ND<2	-1.72	0	23
ND<0.28		ND<2	-1.72	0	24

S Statistic = 0 - 24 = -24

Tied Group	Value	Members
1	2	24

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 29256
B = 0
C = 12144
D = 0
E = 552
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 208
Z-Score = -1.59476
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.59476 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-6

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<0.28		ND<2	-1.72	0	1
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<2	ND<2	0	0	1	
ND<0.28		ND<2	-1.72	0	2

ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<0.28		ND<2	-1.72	0	3
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<0.28		ND<2	-1.72	0	4
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	

ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<2	ND<2	0	0	4	
ND<0.28		ND<2	-1.72	0	5
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<0.28		ND<2	-1.72	0	6
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<0.28		ND<2	-1.72	0	7
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<0.28		ND<2	-1.72	0	8

ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<0.28		ND<2	-1.72	0	9
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
ND<0.28		ND<2	-1.72	0	10
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<2	ND<2	0	0	10	
ND<0.28		ND<2	-1.72	0	11
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<0.28		ND<2	-1.72	0	12

ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<2	ND<2	0	0	12	
ND<0.28		ND<2	-1.72	0	13
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<2	ND<2	0	0	13	
ND<0.28		ND<2	-1.72	0	14
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<0.28		ND<2	-1.72	0	15
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<2	ND<2	0	0	15	
ND<0.28		ND<2	-1.72	0	16
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<2	ND<2	0	0	16	
ND<0.28		ND<2	-1.72	0	17
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<0.28		ND<2	-1.72	0	18

ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<2	ND<2	0	0	18	
ND<0.28		ND<2	-1.72	0	19
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<2	ND<2	0	0	19	
ND<0.28		ND<2	-1.72	0	20
ND<2	ND<2	0	0	20	
ND<2	ND<2	0	0	20	
ND<2	ND<2	0	0	20	
ND<0.28		ND<2	-1.72	0	21
ND<2	ND<2	0	0	21	
ND<2	ND<2	0	0	21	
ND<0.28		ND<2	-1.72	0	22
ND<2	ND<2	0	0	22	
ND<0.28		ND<2	-1.72	0	23
ND<0.28		ND<2	-1.72	0	24

S Statistic = 0 - 24 = -24

Tied Group	Value	Members
1	2	24

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 29256
B = 0
C = 12144
D = 0
E = 552
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 208
Z-Score = -1.59476
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.59476 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-12BR

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
1.11 J	ND<2	-0.89	0	1	
ND<2	ND<2	0	0	1	
1.98 J	ND<2	-0.02	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<2	ND<2	0	0	2	
ND<0.28		ND<2	-1.72	0	3
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
ND<2	ND<2	0	0	3	
1.11 J	ND<2	-0.89	0	4	
ND<2	ND<2	0	0	4	
1.98 J	ND<2	-0.02	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<2	ND<2	0	0	5	
ND<0.28		ND<2	-1.72	0	6
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
ND<2	ND<2	0	0	6	
1.11 J	ND<2	-0.89	0	7	
ND<2	ND<2	0	0	7	
1.98 J	ND<2	-0.02	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<2	ND<2	0	0	8	
ND<0.28		ND<2	-1.72	0	9
ND<2	ND<2	0	0	9	
ND<2	ND<2	0	0	9	
1.11 J	ND<2	-0.89	0	10	
ND<2	ND<2	0	0	10	
1.98 J	ND<2	-0.02	0	11	
ND<2	ND<2	0	0	11	

ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<2	ND<2	0	0	11	
ND<0.28		ND<2	-1.72	0	12
ND<2	ND<2	0	0	12	
1.11 J	ND<2	-0.89	0	13	
ND<2	ND<2	0	0	13	
1.98 J	ND<2	-0.02	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<0.28		ND<2	-1.72	0	15
1.11 J	ND<2	-0.89	0	16	
ND<2	ND<2	0	0	16	
1.98 J	ND<2	-0.02	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<2	ND<2	0	0	17	
ND<0.28		ND<2	-1.72	0	18
ND<2	1.11 J	0.89	1	18	
1.98 J	1.11 J	0.87	2	18	
ND<2	1.11 J	0.89	3	18	
ND<2	1.11 J	0.89	4	18	
ND<2	1.11 J	0.89	5	18	
ND<2	1.11 J	0.89	6	18	
ND<2	1.11 J	0.89	7	18	
ND<0.28		1.11 J	-0.83	7	19
1.98 J	ND<2	-0.02	7	20	
ND<2	ND<2	0	7	20	
ND<2	ND<2	0	7	20	
ND<2	ND<2	0	7	20	
ND<2	ND<2	0	7	20	
ND<2	ND<2	0	7	20	
ND<0.28		ND<2	-1.72	7	21
ND<2	1.98 J	0.02	8	21	
ND<2	1.98 J	0.02	9	21	
ND<2	1.98 J	0.02	10	21	
ND<2	1.98 J	0.02	11	21	
ND<2	1.98 J	0.02	12	21	
ND<0.28		1.98 J	-1.7	12	22
ND<2	ND<2	0	12	22	
ND<2	ND<2	0	12	22	
ND<2	ND<2	0	12	22	
ND<2	ND<2	0	12	22	
ND<0.28		ND<2	-1.72	12	23
ND<2	ND<2	0	12	23	
ND<2	ND<2	0	12	23	
ND<2	ND<2	0	12	23	
ND<0.28		ND<2	-1.72	12	24

ND<2	ND<2	0	12	24	
ND<2	ND<2	0	12	24	
ND<0.28		ND<2	-1.72	12	25
ND<2	ND<2	0	12	25	
ND<0.28		ND<2	-1.72	12	26
ND<0.28		ND<2	-1.72	12	27

S Statistic = 12 - 27 = -15

Tied Group	Value	Members
1	2	12

Time Period		Observations
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 3828
B = 0
C = 1320
D = 0
E = 132
F = 0
a = 7350
b = 24570
c = 420
Group Variance = 195.667
Z-Score = -1.00085
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.00085 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-12AR

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
1.05 J	ND<2	-0.95	0	1	
1.14 J	ND<2	-0.86	0	2	
0.84 J	ND<2	-1.16	0	3	
ND<2	ND<2	0	0	3	
0.78 J	ND<2	-1.22	0	4	
0.97 J	ND<2	-1.03	0	5	
0.49 J	ND<2	-1.51	0	6	
ND<0.28		ND<2	-1.72	0	7
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
ND<2	ND<2	0	0	7	
1.05 J	ND<2	-0.95	0	8	
1.14 J	ND<2	-0.86	0	9	
0.84 J	ND<2	-1.16	0	10	
ND<2	ND<2	0	0	10	
0.78 J	ND<2	-1.22	0	11	
0.97 J	ND<2	-1.03	0	12	
0.49 J	ND<2	-1.51	0	13	
ND<0.28		ND<2	-1.72	0	14
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
ND<2	ND<2	0	0	14	
1.05 J	ND<2	-0.95	0	15	
1.14 J	ND<2	-0.86	0	16	
0.84 J	ND<2	-1.16	0	17	
ND<2	ND<2	0	0	17	
0.78 J	ND<2	-1.22	0	18	
0.97 J	ND<2	-1.03	0	19	
0.49 J	ND<2	-1.51	0	20	
ND<0.28		ND<2	-1.72	0	21
ND<2	ND<2	0	0	21	
ND<2	ND<2	0	0	21	
ND<2	ND<2	0	0	21	
1.05 J	ND<2	-0.95	0	22	
1.14 J	ND<2	-0.86	0	23	
0.84 J	ND<2	-1.16	0	24	

ND<2	ND<2	0	0	24	
0.78 J	ND<2	-1.22	0	25	
0.97 J	ND<2	-1.03	0	26	
0.49 J	ND<2	-1.51	0	27	
ND<0.28		ND<2	-1.72	0	28
ND<2	ND<2	0	0	28	
ND<2	ND<2	0	0	28	
1.05 J	ND<2	-0.95	0	29	
1.14 J	ND<2	-0.86	0	30	
0.84 J	ND<2	-1.16	0	31	
ND<2	ND<2	0	0	31	
0.78 J	ND<2	-1.22	0	32	
0.97 J	ND<2	-1.03	0	33	
0.49 J	ND<2	-1.51	0	34	
ND<0.28		ND<2	-1.72	0	35
ND<2	ND<2	0	0	35	
1.05 J	ND<2	-0.95	0	36	
1.14 J	ND<2	-0.86	0	37	
0.84 J	ND<2	-1.16	0	38	
ND<2	ND<2	0	0	38	
0.78 J	ND<2	-1.22	0	39	
0.97 J	ND<2	-1.03	0	40	
0.49 J	ND<2	-1.51	0	41	
ND<0.28		ND<2	-1.72	0	42
1.05 J	ND<2	-0.95	0	43	
1.14 J	ND<2	-0.86	0	44	
0.84 J	ND<2	-1.16	0	45	
ND<2	ND<2	0	0	45	
0.78 J	ND<2	-1.22	0	46	
0.97 J	ND<2	-1.03	0	47	
0.49 J	ND<2	-1.51	0	48	
ND<0.28		ND<2	-1.72	0	49
1.14 J	1.05 J	0.09	1	49	
0.84 J	1.05 J	-0.21	1	50	
ND<2	1.05 J	0.95	2	50	
0.78 J	1.05 J	-0.27	2	51	
0.97 J	1.05 J	-0.08	2	52	
0.49 J	1.05 J	-0.56	2	53	
ND<0.28		1.05 J	-0.77	2	54
0.84 J	1.14 J	-0.3	2	55	
ND<2	1.14 J	0.86	3	55	
0.78 J	1.14 J	-0.36	3	56	
0.97 J	1.14 J	-0.17	3	57	
0.49 J	1.14 J	-0.65	3	58	
ND<0.28		1.14 J	-0.86	3	59
ND<2	0.84 J	1.16	4	59	
0.78 J	0.84 J	-0.06	4	60	
0.97 J	0.84 J	0.13	5	60	
0.49 J	0.84 J	-0.35	5	61	
ND<0.28		0.84 J	-0.56	5	62
0.78 J	ND<2	-1.22	5	63	
0.97 J	ND<2	-1.03	5	64	
0.49 J	ND<2	-1.51	5	65	
ND<0.28		ND<2	-1.72	5	66

0.97 J	0.78 J	0.19	6	66	
0.49 J	0.78 J	-0.29	6	67	
ND<0.28		0.78 J	-0.5	6	68
0.49 J	0.97 J	-0.48	6	69	
ND<0.28		0.97 J	-0.69	6	70
ND<0.28		0.49 J	-0.21	6	71

S Statistic = 6 - 71 = -65

Tied Group	Value	Members
1	2	8

Time Period		Observations
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 1176
B = 0
C = 336
D = 0
E = 56
F = 0
a = 7350
b = 24570
c = 420
Group Variance = 343
Z-Score = -3.45568
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.45568 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
2.2	ND<2	0.2	1	0	
2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
5.4	ND<2	3.4	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
ND<2	ND<2	0	2	0	
0.3 J	ND<2	-1.7	2	1	
ND<2	ND<2	0	2	1	
ND<2	ND<2	0	2	1	
0.48 J	ND<2	-1.52	2	2	
2	2.2	-0.2	2	3	
ND<2	2.2	-0.2	2	4	
ND<2	2.2	-0.2	2	5	
ND<2	2.2	-0.2	2	6	
ND<2	2.2	-0.2	2	7	
ND<2	2.2	-0.2	2	8	
ND<2	2.2	-0.2	2	9	
ND<2	2.2	-0.2	2	10	
ND<2	2.2	-0.2	2	11	
ND<2	2.2	-0.2	2	12	
ND<2	2.2	-0.2	2	13	
5.4	2.2	3.2	3	13	
ND<2	2.2	-0.2	3	14	
ND<2	2.2	-0.2	3	15	
ND<2	2.2	-0.2	3	16	
ND<2	2.2	-0.2	3	17	
ND<2	2.2	-0.2	3	18	
ND<2	2.2	-0.2	3	19	
ND<2	2.2	-0.2	3	20	
0.3 J	2.2	-1.9	3	21	
ND<2	2.2	-0.2	3	22	
ND<2	2.2	-0.2	3	23	
0.48 J	2.2	-1.72	3	24	

ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
ND<2	2	0	3	24
5.4	2	3.4	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
ND<2	2	0	4	24
0.3 J	2	-1.7	4	25
ND<2	2	0	4	25
ND<2	2	0	4	25
0.48 J	2	-1.52	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
ND<2	ND<2	0	4	26
5.4	ND<2	3.4	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
ND<2	ND<2	0	5	26
0.3 J	ND<2	-1.7	5	27
ND<2	ND<2	0	5	27
ND<2	ND<2	0	5	27
0.48 J	ND<2	-1.52	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
ND<2	ND<2	0	5	28
5.4	ND<2	3.4	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28
ND<2	ND<2	0	6	28

0.3 J	ND<2	-1.7	6	29
ND<2	ND<2	0	6	29
ND<2	ND<2	0	6	29
0.48 J	ND<2	-1.52	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
ND<2	ND<2	0	6	30
5.4	ND<2	3.4	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
ND<2	ND<2	0	7	30
0.3 J	ND<2	-1.7	7	31
ND<2	ND<2	0	7	31
ND<2	ND<2	0	7	31
0.48 J	ND<2	-1.52	7	32
ND<2	ND<2	0	7	32
ND<2	ND<2	0	7	32
ND<2	ND<2	0	7	32
ND<2	ND<2	0	7	32
ND<2	ND<2	0	7	32
ND<2	ND<2	0	7	32
5.4	ND<2	3.4	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
ND<2	ND<2	0	8	32
0.3 J	ND<2	-1.7	8	33
ND<2	ND<2	0	8	33
ND<2	ND<2	0	8	33
0.48 J	ND<2	-1.52	8	34
ND<2	ND<2	0	8	34
ND<2	ND<2	0	8	34
ND<2	ND<2	0	8	34
ND<2	ND<2	0	8	34
ND<2	ND<2	0	8	34
5.4	ND<2	3.4	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
ND<2	ND<2	0	9	34
0.3 J	ND<2	-1.7	9	35
ND<2	ND<2	0	9	35
ND<2	ND<2	0	9	35
0.48 J	ND<2	-1.52	9	36

ND<2	ND<2	0	9	36
ND<2	ND<2	0	9	36
ND<2	ND<2	0	9	36
ND<2	ND<2	0	9	36
5.4	ND<2	3.4	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
ND<2	ND<2	0	10	36
0.3 J	ND<2	-1.7	10	37
ND<2	ND<2	0	10	37
ND<2	ND<2	0	10	37
0.48 J	ND<2	-1.52	10	38
ND<2	ND<2	0	10	38
ND<2	ND<2	0	10	38
ND<2	ND<2	0	10	38
5.4	ND<2	3.4	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
ND<2	ND<2	0	11	38
0.3 J	ND<2	-1.7	11	39
ND<2	ND<2	0	11	39
ND<2	ND<2	0	11	39
0.48 J	ND<2	-1.52	11	40
ND<2	ND<2	0	11	40
ND<2	ND<2	0	11	40
5.4	ND<2	3.4	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
ND<2	ND<2	0	12	40
0.3 J	ND<2	-1.7	12	41
ND<2	ND<2	0	12	41
ND<2	ND<2	0	12	41
0.48 J	ND<2	-1.52	12	42
ND<2	ND<2	0	12	42
5.4	ND<2	3.4	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
ND<2	ND<2	0	13	42
0.3 J	ND<2	-1.7	13	43
ND<2	ND<2	0	13	43
ND<2	ND<2	0	13	43
0.48 J	ND<2	-1.52	13	44

5.4	ND<2	3.4	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
ND<2	ND<2	0	14	44
0.3 J	ND<2	-1.7	14	45
ND<2	ND<2	0	14	45
ND<2	ND<2	0	14	45
0.48 J	ND<2	-1.52	14	46
ND<2	5.4	-3.4	14	47
ND<2	5.4	-3.4	14	48
ND<2	5.4	-3.4	14	49
ND<2	5.4	-3.4	14	50
ND<2	5.4	-3.4	14	51
ND<2	5.4	-3.4	14	52
ND<2	5.4	-3.4	14	53
0.3 J	5.4	-5.1	14	54
ND<2	5.4	-3.4	14	55
ND<2	5.4	-3.4	14	56
0.48 J	5.4	-4.92	14	57
ND<2	ND<2	0	14	57
ND<2	ND<2	0	14	57
ND<2	ND<2	0	14	57
ND<2	ND<2	0	14	57
ND<2	ND<2	0	14	57
ND<2	ND<2	0	14	57
0.3 J	ND<2	-1.7	14	58
ND<2	ND<2	0	14	58
ND<2	ND<2	0	14	58
0.48 J	ND<2	-1.52	14	59
ND<2	ND<2	0	14	59
ND<2	ND<2	0	14	59
ND<2	ND<2	0	14	59
ND<2	ND<2	0	14	59
ND<2	ND<2	0	14	59
0.3 J	ND<2	-1.7	14	60
ND<2	ND<2	0	14	60
ND<2	ND<2	0	14	60
0.48 J	ND<2	-1.52	14	61
ND<2	ND<2	0	14	61
ND<2	ND<2	0	14	61
ND<2	ND<2	0	14	61
ND<2	ND<2	0	14	61
0.3 J	ND<2	-1.7	14	62
ND<2	ND<2	0	14	62
ND<2	ND<2	0	14	62
0.48 J	ND<2	-1.52	14	63
ND<2	ND<2	0	14	63
ND<2	ND<2	0	14	63
ND<2	ND<2	0	14	63
0.3 J	ND<2	-1.7	14	64
ND<2	ND<2	0	14	64
ND<2	ND<2	0	14	64
0.48 J	ND<2	-1.52	14	65

ND<2	ND<2	0	14	65
ND<2	ND<2	0	14	65
0.3 J	ND<2	-1.7	14	66
ND<2	ND<2	0	14	66
ND<2	ND<2	0	14	66
0.48 J	ND<2	-1.52	14	67
ND<2	ND<2	0	14	67
0.3 J	ND<2	-1.7	14	68
ND<2	ND<2	0	14	68
ND<2	ND<2	0	14	68
0.48 J	ND<2	-1.52	14	69
0.3 J	ND<2	-1.7	14	70
ND<2	ND<2	0	14	70
ND<2	ND<2	0	14	70
0.48 J	ND<2	-1.52	14	71
ND<2	0.3 J	1.7	15	71
ND<2	0.3 J	1.7	16	71
0.48 J	0.3 J	0.18	17	71
ND<2	ND<2	0	17	71
0.48 J	ND<2	-1.52	17	72
0.48 J	ND<2	-1.52	17	73

S Statistic = 17 - 73 = -56

Tied Group	Value	Members
1	2	21

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 19740
B = 0
C = 7980
D = 0
E = 420
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 736.667
Z-Score = -2.02641
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.02641 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: 1,4-Dichlorobenzene

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
1.5 J	ND<2	-0.5	0	1	
4	ND<2	2	1	1	
2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
ND<2	ND<2	0	1	1	
8.8	ND<2	6.8	2	1	
ND<2	ND<2	0	2	1	
ND<2	ND<2	0	2	1	
ND<2	ND<2	0	2	1	
ND<2	ND<2	0	2	1	
ND<2	ND<2	0	2	1	
2.75	ND<2	0.75	3	1	
3.99	ND<2	1.99	4	1	
5.6	ND<2	3.6	5	1	
3.9	ND<2	1.9	6	1	
4.1	ND<2	2.1	7	1	
5.99	ND<2	3.99	8	1	
6.45	ND<2	4.45	9	1	
ND<2	ND<2	0	9	1	
3.4	ND<2	1.4	10	1	
4	1.5 J	2.5	11	1	
2	1.5 J	0.5	12	1	
ND<2	1.5 J	0.5	13	1	
ND<2	1.5 J	0.5	14	1	
ND<2	1.5 J	0.5	15	1	
ND<2	1.5 J	0.5	16	1	
ND<2	1.5 J	0.5	17	1	
ND<2	1.5 J	0.5	18	1	
8.8	1.5 J	7.3	19	1	
ND<2	1.5 J	0.5	20	1	
ND<2	1.5 J	0.5	21	1	
ND<2	1.5 J	0.5	22	1	
ND<2	1.5 J	0.5	23	1	
ND<2	1.5 J	0.5	24	1	
2.75	1.5 J	1.25	25	1	
3.99	1.5 J	2.49	26	1	
5.6	1.5 J	4.1	27	1	
3.9	1.5 J	2.4	28	1	
4.1	1.5 J	2.6	29	1	
5.99	1.5 J	4.49	30	1	
6.45	1.5 J	4.95	31	1	
ND<2	1.5 J	0.5	32	1	
3.4	1.5 J	1.9	33	1	

2	4	-2	33	2
ND<2	4	-2	33	3
ND<2	4	-2	33	4
ND<2	4	-2	33	5
ND<2	4	-2	33	6
ND<2	4	-2	33	7
ND<2	4	-2	33	8
8.8	4	4.8	34	8
ND<2	4	-2	34	9
ND<2	4	-2	34	10
ND<2	4	-2	34	11
ND<2	4	-2	34	12
ND<2	4	-2	34	13
2.75	4	-1.25	34	14
3.99	4	-0.01	34	15
5.6	4	1.6	35	15
3.9	4	-0.1	35	16
4.1	4	0.1	36	16
5.99	4	1.99	37	16
6.45	4	2.45	38	16
ND<2	4	-2	38	17
3.4	4	-0.6	38	18
ND<2	2	0	38	18
ND<2	2	0	38	18
ND<2	2	0	38	18
ND<2	2	0	38	18
ND<2	2	0	38	18
ND<2	2	0	38	18
8.8	2	6.8	39	18
ND<2	2	0	39	18
ND<2	2	0	39	18
ND<2	2	0	39	18
ND<2	2	0	39	18
ND<2	2	0	39	18
2.75	2	0.75	40	18
3.99	2	1.99	41	18
5.6	2	3.6	42	18
3.9	2	1.9	43	18
4.1	2	2.1	44	18
5.99	2	3.99	45	18
6.45	2	4.45	46	18
ND<2	2	0	46	18
3.4	2	1.4	47	18
ND<2	ND<2	0	47	18
ND<2	ND<2	0	47	18
ND<2	ND<2	0	47	18
ND<2	ND<2	0	47	18
ND<2	ND<2	0	47	18
8.8	ND<2	6.8	48	18
ND<2	ND<2	0	48	18
ND<2	ND<2	0	48	18
ND<2	ND<2	0	48	18
ND<2	ND<2	0	48	18
ND<2	ND<2	0	48	18
2.75	ND<2	0.75	49	18
3.99	ND<2	1.99	50	18
5.6	ND<2	3.6	51	18
3.9	ND<2	1.9	52	18
4.1	ND<2	2.1	53	18

5.99	ND<2	3.99	54	18
6.45	ND<2	4.45	55	18
ND<2	ND<2	0	55	18
3.4	ND<2	1.4	56	18
ND<2	ND<2	0	56	18
ND<2	ND<2	0	56	18
ND<2	ND<2	0	56	18
ND<2	ND<2	0	56	18
8.8	ND<2	6.8	57	18
ND<2	ND<2	0	57	18
ND<2	ND<2	0	57	18
ND<2	ND<2	0	57	18
ND<2	ND<2	0	57	18
ND<2	ND<2	0	57	18
2.75	ND<2	0.75	58	18
3.99	ND<2	1.99	59	18
5.6	ND<2	3.6	60	18
3.9	ND<2	1.9	61	18
4.1	ND<2	2.1	62	18
5.99	ND<2	3.99	63	18
6.45	ND<2	4.45	64	18
ND<2	ND<2	0	64	18
3.4	ND<2	1.4	65	18
ND<2	ND<2	0	65	18
ND<2	ND<2	0	65	18
ND<2	ND<2	0	65	18
8.8	ND<2	6.8	66	18
ND<2	ND<2	0	66	18
ND<2	ND<2	0	66	18
ND<2	ND<2	0	66	18
ND<2	ND<2	0	66	18
ND<2	ND<2	0	66	18
2.75	ND<2	0.75	67	18
3.99	ND<2	1.99	68	18
5.6	ND<2	3.6	69	18
3.9	ND<2	1.9	70	18
4.1	ND<2	2.1	71	18
5.99	ND<2	3.99	72	18
6.45	ND<2	4.45	73	18
ND<2	ND<2	0	73	18
3.4	ND<2	1.4	74	18
ND<2	ND<2	0	74	18
ND<2	ND<2	0	74	18
8.8	ND<2	6.8	75	18
ND<2	ND<2	0	75	18
ND<2	ND<2	0	75	18
ND<2	ND<2	0	75	18
ND<2	ND<2	0	75	18
ND<2	ND<2	0	75	18
2.75	ND<2	0.75	76	18
3.99	ND<2	1.99	77	18
5.6	ND<2	3.6	78	18
3.9	ND<2	1.9	79	18
4.1	ND<2	2.1	80	18
5.99	ND<2	3.99	81	18
6.45	ND<2	4.45	82	18
ND<2	ND<2	0	82	18
3.4	ND<2	1.4	83	18

ND<2	ND<2	0	83	18
8.8	ND<2	6.8	84	18
ND<2	ND<2	0	84	18
ND<2	ND<2	0	84	18
ND<2	ND<2	0	84	18
ND<2	ND<2	0	84	18
ND<2	ND<2	0	84	18
2.75	ND<2	0.75	85	18
3.99	ND<2	1.99	86	18
5.6	ND<2	3.6	87	18
3.9	ND<2	1.9	88	18
4.1	ND<2	2.1	89	18
5.99	ND<2	3.99	90	18
6.45	ND<2	4.45	91	18
ND<2	ND<2	0	91	18
3.4	ND<2	1.4	92	18
8.8	ND<2	6.8	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
ND<2	ND<2	0	93	18
2.75	ND<2	0.75	94	18
3.99	ND<2	1.99	95	18
5.6	ND<2	3.6	96	18
3.9	ND<2	1.9	97	18
4.1	ND<2	2.1	98	18
5.99	ND<2	3.99	99	18
6.45	ND<2	4.45	100	18
ND<2	ND<2	0	100	18
3.4	ND<2	1.4	101	18
ND<2	8.8	-6.8	101	19
ND<2	8.8	-6.8	101	20
ND<2	8.8	-6.8	101	21
ND<2	8.8	-6.8	101	22
ND<2	8.8	-6.8	101	23
2.75	8.8	-6.05	101	24
3.99	8.8	-4.81	101	25
5.6	8.8	-3.2	101	26
3.9	8.8	-4.9	101	27
4.1	8.8	-4.7	101	28
5.99	8.8	-2.81	101	29
6.45	8.8	-2.35	101	30
ND<2	8.8	-6.8	101	31
3.4	8.8	-5.4	101	32
ND<2	ND<2	0	101	32
ND<2	ND<2	0	101	32
ND<2	ND<2	0	101	32
ND<2	ND<2	0	101	32
2.75	ND<2	0.75	102	32
3.99	ND<2	1.99	103	32
5.6	ND<2	3.6	104	32
3.9	ND<2	1.9	105	32
4.1	ND<2	2.1	106	32
5.99	ND<2	3.99	107	32
6.45	ND<2	4.45	108	32
ND<2	ND<2	0	108	32
3.4	ND<2	1.4	109	32

ND<2	ND<2	0	109	32
ND<2	ND<2	0	109	32
ND<2	ND<2	0	109	32
2.75	ND<2	0.75	110	32
3.99	ND<2	1.99	111	32
5.6	ND<2	3.6	112	32
3.9	ND<2	1.9	113	32
4.1	ND<2	2.1	114	32
5.99	ND<2	3.99	115	32
6.45	ND<2	4.45	116	32
ND<2	ND<2	0	116	32
3.4	ND<2	1.4	117	32
ND<2	ND<2	0	117	32
ND<2	ND<2	0	117	32
2.75	ND<2	0.75	118	32
3.99	ND<2	1.99	119	32
5.6	ND<2	3.6	120	32
3.9	ND<2	1.9	121	32
4.1	ND<2	2.1	122	32
5.99	ND<2	3.99	123	32
6.45	ND<2	4.45	124	32
ND<2	ND<2	0	124	32
3.4	ND<2	1.4	125	32
ND<2	ND<2	0	125	32
2.75	ND<2	0.75	126	32
3.99	ND<2	1.99	127	32
5.6	ND<2	3.6	128	32
3.9	ND<2	1.9	129	32
4.1	ND<2	2.1	130	32
5.99	ND<2	3.99	131	32
6.45	ND<2	4.45	132	32
ND<2	ND<2	0	132	32
3.4	ND<2	1.4	133	32
2.75	ND<2	0.75	134	32
3.99	ND<2	1.99	135	32
5.6	ND<2	3.6	136	32
3.9	ND<2	1.9	137	32
4.1	ND<2	2.1	138	32
5.99	ND<2	3.99	139	32
6.45	ND<2	4.45	140	32
ND<2	ND<2	0	140	32
3.4	ND<2	1.4	141	32
3.99	2.75	1.24	142	32
5.6	2.75	2.85	143	32
3.9	2.75	1.15	144	32
4.1	2.75	1.35	145	32
5.99	2.75	3.24	146	32
6.45	2.75	3.7	147	32
ND<2	2.75	-0.75	147	33
3.4	2.75	0.65	148	33
5.6	3.99	1.61	149	33
3.9	3.99	-0.09	149	34
4.1	3.99	0.11	150	34
5.99	3.99	2	151	34
6.45	3.99	2.46	152	34
ND<2	3.99	-1.99	152	35
3.4	3.99	-0.59	152	36

3.9	5.6	-1.7	152	37
4.1	5.6	-1.5	152	38
5.99	5.6	0.39	153	38
6.45	5.6	0.85	154	38
ND<2	5.6	-3.6	154	39
3.4	5.6	-2.2	154	40
4.1	3.9	0.2	155	40
5.99	3.9	2.09	156	40
6.45	3.9	2.55	157	40
ND<2	3.9	-1.9	157	41
3.4	3.9	-0.5	157	42
5.99	4.1	1.89	158	42
6.45	4.1	2.35	159	42
ND<2	4.1	-2.1	159	43
3.4	4.1	-0.7	159	44
6.45	5.99	0.46	160	44
ND<2	5.99	-3.99	160	45
3.4	5.99	-2.59	160	46
ND<2	6.45	-4.45	160	47
3.4	6.45	-3.05	160	48
3.4	ND<2	1.4	161	48

S Statistic = 161 - 48 = 113

Tied Group	Value	Members
1	2	14

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 6006
B = 0
C = 2184
D = 0
E = 182
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1499.67
Z-Score = 2.89215
Comparison Level at 95% confidence level = 1.65463 (upward trend)
2.89215 > 1.65463 indicating an upward trend

Concentrations (ppb)

Parameter: 2,4-Dimethylphenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 194
Percent Non-Detects: 99.4872%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<1.1	ND<1.1

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	24 (96%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	2.1 J	2.1 J

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1.1	ND<1.1	
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1.1	ND<1.1	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<1.1	ND<1.1		
MW-12BR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<1.1	ND<1.1		
MW-12AR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<1.1	ND<1.1		
MW-11R	25	25 (100%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1.1	ND<1.1	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1.1	ND<1.1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 2,4-Dimethylphenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4872%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	2.1	FALSE
MW-8	6/11/2009	1	1.1	FALSE
MW-7	6/11/2009	1	1.1	FALSE
MW-6	6/11/2009	1	1.1	FALSE
MW-12BR	6/11/2009	1	1.1	FALSE
MW-12AR	6/11/2009	1	1.1	FALSE
MW-11R	6/11/2009	1	1.1	FALSE
MW-10	6/11/2009	1	1.1	FALSE

Concentrations (ppb)

Parameter: 2-Acetylaminofluorene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 194
Percent Non-Detects: 99.4872%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.58	ND<0.58

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.58	ND<0.58

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.57		ND<0.57
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.56		ND<0.56
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.58		ND<0.58	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1 J B	1 J B		
MW-12AR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.57		ND<0.57	
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.56		ND<0.56
MW-10	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.58		ND<0.58

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 2-Acetylaminofluorene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4872%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.58	FALSE
MW-8	6/11/2009	1	0.57	FALSE
MW-7	6/11/2009	1	0.56	FALSE
MW-6	6/11/2009	1	0.58	FALSE
MW-12BR	6/11/2009	1	1	FALSE
MW-12AR	6/11/2009	1	0.57	FALSE
MW-11R	6/11/2009	1	0.56	FALSE
MW-10	6/11/2009	1	0.58	FALSE

Concentrations (ppb)

Parameter: 3-Methylcholanthrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 193
Percent Non-Detects: 98.9744%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.51		ND<0.51
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.52		ND<0.52	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.4 J B	1.4 J B		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	0.56 J B	0.56 J B		
MW-11R	25	25 (100%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998 ND<10	ND<10			
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 3-Methylcholanthrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.9744%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.52	FALSE
MW-8	6/11/2009	1	0.51	FALSE
MW-7	6/11/2009	1	0.5	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	1.4	FALSE
MW-12AR	6/11/2009	1	0.56	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: 4-Chloro-3-Methylphenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 204
Total Non-Detect: 203
Percent Non-Detects: 99.5098%
Total Background Measurements: 16
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original	
MW-13	16	16 (100%)	3/16/1999		ND<10	ND<10
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.54		ND<0.54
			6/11/2009	ND<1	ND<1	

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original	
MW-9	26	26 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.54		ND<0.54

			6/11/2009	ND<1	ND<1	
MW-8	26	26 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.53		ND<0.53
			6/11/2009	ND<1	ND<1	
MW-7	26	25 (96.1538%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	12	12	
			6/11/2009	ND<0.52		ND<0.52
MW-6	26	26 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	

		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<1	ND<1		
		6/11/2009	ND<0.54		ND<0.54	
MW-12BR	16	16 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.53		ND<0.53	
		6/11/2009	ND<1	ND<1		
MW-12AR	16	16 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.53		ND<0.53	
		6/11/2009	ND<1	ND<1		
MW-11R	26	26 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		

			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1	ND<1	
			6/11/2009	ND<0.52		ND<0.52
MW-10	26	26 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<1	ND<1	
			6/11/2009	ND<0.54		ND<0.54

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: 4-Chloro-3-Methylphenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.5098%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 16
Maximum Background Concentration = 10
Confidence Level = 66.7%
False Positive Rate = 33.3%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	2	0.77	FALSE
MW-8	6/11/2009	2	0.765	FALSE
MW-7	6/11/2009	2	6.26	FALSE
MW-6	6/11/2009	2	0.77	FALSE
MW-12BR	6/11/2009	2	0.765	FALSE
MW-12AR	6/11/2009	2	0.765	FALSE
MW-11R	6/11/2009	2	0.76	FALSE
MW-10	6/11/2009	2	0.77	FALSE

Concentrations (ppb)

Parameter: Acetone

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 162
Percent Non-Detects: 83.0769%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<4	ND<4
			9/23/1999	ND<4	ND<4
			3/15/2000	ND<4	ND<4
			9/24/2003	ND<4	ND<4
			3/11/2004	ND<4	ND<4
			10/12/2004	ND<4	ND<4
			4/1/2005	ND<4	ND<4
			10/25/2005	ND<4	ND<4
			4/29/2006	ND<4	ND<4
			11/18/2006	ND<4	ND<4
			5/23/2007	ND<4	ND<4
			11/28/2007	ND<4	ND<4
			6/5/2008	ND<4	ND<4
			11/20/2008	ND<4	ND<4
			6/11/2009	ND<5	ND<5

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	21 (84%)	7/20/1995	ND<4	ND<4
			8/24/1995	10	10
			9/28/1995	ND<4	ND<4
			10/26/1995	ND<4	ND<4
			11/19/1996	ND<4	ND<4
			12/19/1996	ND<4	ND<4
			3/24/1997	ND<4	ND<4
			9/24/1997	ND<4	ND<4
			4/7/1998	120	120
			9/23/1998	ND<4	ND<4
			3/16/1999	38.3	38.3
			9/23/1999	ND<4	ND<4
			3/15/2000	ND<4	ND<4
			9/24/2003	ND<4	ND<4
			3/11/2004	ND<4	ND<4
			10/12/2004	ND<4	ND<4
			4/1/2005	ND<4	ND<4
			10/25/2005	ND<4	ND<4
			4/29/2006	ND<4	ND<4
			11/18/2006	ND<4	ND<4
			5/23/2007	ND<4	ND<4
			11/28/2007	2.74 J	2.74 J
			6/5/2008	ND<4	ND<4
			11/20/2008	ND<4	ND<4
			6/11/2009	ND<5	ND<5

MW-8	25	19 (76%)	7/20/1995		ND<4	ND<4
			8/24/1995	ND<4	ND<4	
			9/28/1995	ND<4	ND<4	
			10/26/1995	ND<4	ND<4	
			11/19/1996	ND<4	ND<4	
			12/19/1996	ND<4	ND<4	
			3/24/1997	ND<4	ND<4	
			9/24/1997	ND<4	ND<4	
			4/7/1998	ND<4	ND<4	
			9/23/1998	ND<4	ND<4	
			3/16/1999	35.2	35.2	
			9/23/1999	136	136	
			3/15/2000	ND<4	ND<4	
			9/24/2003	ND<4	ND<4	
			3/11/2004	ND<4	ND<4	
			10/12/2004	160	160	
			4/1/2005	ND<4	ND<4	
			10/25/2005	1.27 J	1.27 J	
			4/29/2006	ND<4	ND<4	
			11/18/2006	ND<4	ND<4	
			5/23/2007	ND<4	ND<4	
			11/28/2007	ND<4	ND<4	
			6/5/2008	ND<4	ND<4	
			11/20/2008	9.72	9.72	
			6/11/2009	9.8 J	9.8 J	
MW-7	25	14 (56%)	7/20/1995		ND<4	ND<4
			8/24/1995	ND<4	ND<4	
			9/28/1995	ND<4	ND<4	
			10/26/1995	ND<4	ND<4	
			11/19/1996	ND<4	ND<4	
			12/19/1996	ND<4	ND<4	
			3/24/1997	260	260	
			9/24/1997	ND<4	ND<4	
			4/7/1998	ND<4	ND<4	
			9/23/1998	ND<4	ND<4	
			3/16/1999	4260	4260	
			9/23/1999	95.4	95.4	
			3/15/2000	130	130	
			9/24/2003	ND<4	ND<4	
			3/11/2004	ND<4	ND<4	
			10/12/2004	200	200	
			4/1/2005	ND<4	ND<4	
			10/25/2005	6.97	6.97	
			4/29/2006	ND<4	ND<4	
			11/18/2006	1.34 J	1.34 J	
			5/23/2007	ND<4	ND<4	
			11/28/2007	11.6	11.6	
			6/5/2008	932	932	
			11/20/2008	24	24	
			6/11/2009	52	52	
MW-6	25	22 (88%)	7/20/1995		ND<4	ND<4
			8/24/1995	3.9 J	3.9 J	
			9/28/1995	ND<4	ND<4	
			10/26/1995	ND<4	ND<4	
			11/19/1996	ND<4	ND<4	
			12/19/1996	ND<4	ND<4	
			3/24/1997	ND<4	ND<4	
			9/24/1997	ND<4	ND<4	
			4/7/1998	ND<4	ND<4	
			9/23/1998	ND<4	ND<4	

		3/16/1999	ND<4	ND<4		
		9/23/1999	ND<4	ND<4		
		3/15/2000	ND<4	ND<4		
		9/24/2003	ND<4	ND<4		
		3/11/2004	ND<4	ND<4		
		10/12/2004	ND<4	ND<4		
		4/1/2005	ND<4	ND<4		
		10/25/2005	2.2 J	2.2 J		
		4/29/2006	ND<4	ND<4		
		11/18/2006	ND<4	ND<4		
		5/23/2007	ND<4	ND<4		
		11/28/2007	ND<4	ND<4		
		6/5/2008	ND<4	ND<4		
		11/20/2008	ND<4	ND<4		
		6/11/2009	7.6 J	7.6 J		
MW-12BR	15	15 (100%)	3/16/1999		ND<4	ND<4
		9/23/1999	ND<4	ND<4		
		3/15/2000	ND<4	ND<4		
		9/24/2003	ND<4	ND<4		
		3/11/2004	ND<4	ND<4		
		10/12/2004	ND<4	ND<4		
		4/1/2005	ND<4	ND<4		
		10/25/2005	ND<4	ND<4		
		4/29/2006	ND<4	ND<4		
		11/18/2006	ND<4	ND<4		
		5/23/2007	ND<4	ND<4		
		11/28/2007	ND<4	ND<4		
		6/5/2008	ND<4	ND<4		
		11/20/2008	ND<4	ND<4		
		6/11/2009	ND<5	ND<5		
MW-12AR	15	15 (100%)	3/16/1999		ND<4	ND<4
		9/23/1999	ND<4	ND<4		
		3/15/2000	ND<4	ND<4		
		9/24/2003	ND<4	ND<4		
		3/11/2004	ND<4	ND<4		
		10/12/2004	ND<4	ND<4		
		4/1/2005	ND<4	ND<4		
		10/25/2005	ND<4	ND<4		
		4/29/2006	ND<4	ND<4		
		11/18/2006	ND<4	ND<4		
		5/23/2007	ND<4	ND<4		
		11/28/2007	ND<4	ND<4		
		6/5/2008	ND<4	ND<4		
		11/20/2008	ND<4	ND<4		
		6/11/2009	ND<5	ND<5		
MW-11R	25	17 (68%)	7/20/1995	ND<4	ND<4	
		8/24/1995	ND<4	ND<4		
		9/28/1995	16	16		
		10/26/1995	ND<4	ND<4		
		11/19/1996	ND<4	ND<4		
		12/19/1996	ND<4	ND<4		
		3/24/1997	ND<4	ND<4		
		9/24/1997	ND<4	ND<4		
		4/7/1998	ND<4	ND<4		
		9/23/1998	ND<4	ND<4		
		3/16/1999	350	350		
		9/23/1999	ND<4	ND<4		
		3/15/2000	ND<4	ND<4		
		9/24/2003	320	320		

			3/11/2004	400	400	
			10/12/2004	2400	2400	
			4/1/2005 ND<4	ND<4		
			10/25/2005	ND<4	ND<4	
			4/29/2006	ND<4	ND<4	
			11/18/2006	13.9	13.9	
			5/23/2007	100	100	
			11/28/2007	6.72	6.72	
			6/5/2008 ND<4	ND<4		
			11/20/2008	ND<4	ND<4	
			6/11/2009	ND<5	ND<5	
MW-10	25	24 (96%)	7/20/1995		ND<4	ND<4
			8/24/1995	ND<4	ND<4	
			9/28/1995	ND<4	ND<4	
			10/26/1995	ND<4	ND<4	
			11/19/1996	ND<4	ND<4	
			12/19/1996	ND<4	ND<4	
			3/24/1997	ND<4	ND<4	
			9/24/1997	ND<4	ND<4	
			4/7/1998 ND<4	ND<4		
			9/23/1998	ND<4	ND<4	
			3/16/1999	67.2	67.2	
			9/23/1999	ND<4	ND<4	
			3/15/2000	ND<4	ND<4	
			9/24/2003	ND<4	ND<4	
			3/11/2004	ND<4	ND<4	
			10/12/2004	ND<4	ND<4	
			4/1/2005 ND<4	ND<4		
			10/25/2005	ND<4	ND<4	
			4/29/2006	ND<4	ND<4	
			11/18/2006	ND<4	ND<4	
			5/23/2007	ND<4	ND<4	
			11/28/2007	ND<4	ND<4	
			6/5/2008 ND<4	ND<4		
			11/20/2008	ND<4	ND<4	
			6/11/2009	ND<5	ND<5	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Acetone

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<4	81.5
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 1222.5
Rank Mean = 81.5

Background Rank Sum = 1222.5
Background Rank Mean = 81.5

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<4	81.5
	8/24/1995	10	173
	9/28/1995	ND<4	81.5
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	ND<4	81.5
	9/24/1997	ND<4	81.5
	4/7/1998	120	184
	9/23/1998	ND<4	81.5
	3/16/1999	38.3	179
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	2.74 J	166
	6/5/2008	ND<4	81.5

	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 2413.5
Rank Mean = 96.54

MW-8	7/20/1995	ND<4	81.5
	8/24/1995	ND<4	81.5
	9/28/1995	ND<4	81.5
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	ND<4	81.5
	9/24/1997	ND<4	81.5
	4/7/1998	ND<4	81.5
	9/23/1998	ND<4	81.5
	3/16/1999	35.2	178
	9/23/1999	136	186
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	160	187
	4/1/2005	ND<4	81.5
	10/25/2005	1.27 J	163
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	9.72	171
	6/11/2009	9.8 J	172

Rank Sum = 2605.5
Rank Mean = 104.22

MW-7	7/20/1995	ND<4	81.5
	8/24/1995	ND<4	81.5
	9/28/1995	ND<4	81.5
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	260	189
	9/24/1997	ND<4	81.5
	4/7/1998	ND<4	81.5
	9/23/1998	ND<4	81.5
	3/16/1999	4260	195
	9/23/1999	95.4	182
	3/15/2000	130	185
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	200	188
	4/1/2005	ND<4	81.5
	10/25/2005	6.97	169
	4/29/2006	ND<4	81.5
	11/18/2006	1.34 J	164
	5/23/2007	ND<4	81.5
	11/28/2007	11.6	174
	6/5/2008	932	193
	11/20/2008	24	177
	6/11/2009	52	180

Rank Sum = 3137
Rank Mean = 125.48

MW-6	7/20/1995	ND<4	81.5

	8/24/1995	3.9 J	167
	9/28/1995	ND<4	81.5
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	ND<4	81.5
	9/24/1997	ND<4	81.5
	4/7/1998	ND<4	81.5
	9/23/1998	ND<4	81.5
	3/16/1999	ND<4	81.5
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	2.2 J	165
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	7.6 J	170

Rank Sum = 2295
Rank Mean = 91.8

MW-12BR	3/16/1999	ND<4	81.5
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 1222.5
Rank Mean = 81.5

MW-12AR	3/16/1999	ND<4	81.5
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 1222.5
Rank Mean = 81.5

MW-11R	7/20/1995	ND<4	81.5
	8/24/1995	ND<4	81.5
	9/28/1995	16	176
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	ND<4	81.5
	9/24/1997	ND<4	81.5
	4/7/1998	ND<4	81.5
	9/23/1998	ND<4	81.5
	3/16/1999	350	191
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	320	190
	3/11/2004	400	192
	10/12/2004	2400	194
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	13.9	175
	5/23/2007	100	183
	11/28/2007	6.72	168
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 2854.5
Rank Mean = 114.18

MW-10	7/20/1995	ND<4	81.5
	8/24/1995	ND<4	81.5
	9/28/1995	ND<4	81.5
	10/26/1995	ND<4	81.5
	11/19/1996	ND<4	81.5
	12/19/1996	ND<4	81.5
	3/24/1997	ND<4	81.5
	9/24/1997	ND<4	81.5
	4/7/1998	ND<4	81.5
	9/23/1998	ND<4	81.5
	3/16/1999	67.2	181
	9/23/1999	ND<4	81.5
	3/15/2000	ND<4	81.5
	9/24/2003	ND<4	81.5
	3/11/2004	ND<4	81.5
	10/12/2004	ND<4	81.5
	4/1/2005	ND<4	81.5
	10/25/2005	ND<4	81.5
	4/29/2006	ND<4	81.5
	11/18/2006	ND<4	81.5
	5/23/2007	ND<4	81.5
	11/28/2007	ND<4	81.5
	6/5/2008	ND<4	81.5
	11/20/2008	ND<4	81.5
	6/11/2009	ND<5	81.5

Rank Sum = 2137
Rank Mean = 85.48

Calculation Results:

Kruskal-Wallis H Statistic = 13.6813
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 32.0685

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
13.6813 < 15.5073 indicating no significant group difference at 5% significance level
32.0685 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 81.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	96.54	15.04	42.8788	
MW-8	104.22	22.72	42.8788	
MW-7	125.48	43.98	42.8788	
MW-6	91.8	10.3	42.8788	
MW-12BR		81.5	0	47.94
MW-12AR		81.5	0	47.94
MW-11R	114.18	32.68	42.8788	
MW-10	85.48	3.98	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 81.5

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	96.54	15.04	46.3033	
MW-8	104.22	22.72	46.3033	
MW-7	125.48	43.98	46.3033	
MW-6	91.8	10.3	46.3033	
MW-12BR		81.5	0	51.7686
MW-12AR		81.5	0	51.7686
MW-11R	114.18	32.68	46.3033	
MW-10	85.48	3.98	46.3033	

Mann-Kendall Trend Analysis

Parameter: Acetone

Location: MW-7

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<4	ND<4	0	0	0	
ND<4	ND<4	0	0	0	
ND<4	ND<4	0	0	0	
ND<4	ND<4	0	0	0	
ND<4	ND<4	0	0	0	
260	ND<4	256	1	0	
ND<4	ND<4	0	1	0	
ND<4	ND<4	0	1	0	
ND<4	ND<4	0	1	0	
4260	ND<4	4256	2	0	
95.4	ND<4	91.4	3	0	
130	ND<4	126	4	0	
ND<4	ND<4	0	4	0	
ND<4	ND<4	0	4	0	
200	ND<4	196	5	0	
ND<4	ND<4	0	5	0	
6.97	ND<4	2.97	6	0	
ND<4	ND<4	0	6	0	
1.34 J	ND<4	-2.66	6	1	
ND<4	ND<4	0	6	1	
11.6	ND<4	7.6	7	1	
932	ND<4	928	8	1	
24	ND<4	20	9	1	
52	ND<4	48	10	1	
ND<4	ND<4	0	10	1	
ND<4	ND<4	0	10	1	
ND<4	ND<4	0	10	1	
ND<4	ND<4	0	10	1	
260	ND<4	256	11	1	
ND<4	ND<4	0	11	1	
ND<4	ND<4	0	11	1	
ND<4	ND<4	0	11	1	
4260	ND<4	4256	12	1	
95.4	ND<4	91.4	13	1	
130	ND<4	126	14	1	
ND<4	ND<4	0	14	1	
ND<4	ND<4	0	14	1	
200	ND<4	196	15	1	
ND<4	ND<4	0	15	1	
6.97	ND<4	2.97	16	1	
ND<4	ND<4	0	16	1	
1.34 J	ND<4	-2.66	16	2	
ND<4	ND<4	0	16	2	
11.6	ND<4	7.6	17	2	
932	ND<4	928	18	2	
24	ND<4	20	19	2	
52	ND<4	48	20	2	

ND<4	ND<4	0	20	2
ND<4	ND<4	0	20	2
ND<4	ND<4	0	20	2
260	ND<4	256	21	2
ND<4	ND<4	0	21	2
ND<4	ND<4	0	21	2
ND<4	ND<4	0	21	2
4260	ND<4	4256	22	2
95.4	ND<4	91.4	23	2
130	ND<4	126	24	2
ND<4	ND<4	0	24	2
ND<4	ND<4	0	24	2
200	ND<4	196	25	2
ND<4	ND<4	0	25	2
6.97	ND<4	2.97	26	2
ND<4	ND<4	0	26	2
1.34 J	ND<4	-2.66	26	3
ND<4	ND<4	0	26	3
11.6	ND<4	7.6	27	3
932	ND<4	928	28	3
24	ND<4	20	29	3
52	ND<4	48	30	3
ND<4	ND<4	0	30	3
ND<4	ND<4	0	30	3
260	ND<4	256	31	3
ND<4	ND<4	0	31	3
ND<4	ND<4	0	31	3
ND<4	ND<4	0	31	3
4260	ND<4	4256	32	3
95.4	ND<4	91.4	33	3
130	ND<4	126	34	3
ND<4	ND<4	0	34	3
ND<4	ND<4	0	34	3
200	ND<4	196	35	3
ND<4	ND<4	0	35	3
6.97	ND<4	2.97	36	3
ND<4	ND<4	0	36	3
1.34 J	ND<4	-2.66	36	4
ND<4	ND<4	0	36	4
11.6	ND<4	7.6	37	4
932	ND<4	928	38	4
24	ND<4	20	39	4
52	ND<4	48	40	4
ND<4	ND<4	0	40	4
260	ND<4	256	41	4
ND<4	ND<4	0	41	4
ND<4	ND<4	0	41	4
ND<4	ND<4	0	41	4
4260	ND<4	4256	42	4
95.4	ND<4	91.4	43	4
130	ND<4	126	44	4
ND<4	ND<4	0	44	4
ND<4	ND<4	0	44	4
200	ND<4	196	45	4
ND<4	ND<4	0	45	4
6.97	ND<4	2.97	46	4
ND<4	ND<4	0	46	4
1.34 J	ND<4	-2.66	46	5
ND<4	ND<4	0	46	5

11.6	ND<4	7.6	47	5
932	ND<4	928	48	5
24	ND<4	20	49	5
52	ND<4	48	50	5
260	ND<4	256	51	5
ND<4	ND<4	0	51	5
ND<4	ND<4	0	51	5
ND<4	ND<4	0	51	5
4260	ND<4	4256	52	5
95.4	ND<4	91.4	53	5
130	ND<4	126	54	5
ND<4	ND<4	0	54	5
ND<4	ND<4	0	54	5
200	ND<4	196	55	5
ND<4	ND<4	0	55	5
6.97	ND<4	2.97	56	5
ND<4	ND<4	0	56	5
1.34 J	ND<4	-2.66	56	6
ND<4	ND<4	0	56	6
11.6	ND<4	7.6	57	6
932	ND<4	928	58	6
24	ND<4	20	59	6
52	ND<4	48	60	6
ND<4	260	-256	60	7
ND<4	260	-256	60	8
ND<4	260	-256	60	9
4260	260	4000	61	9
95.4	260	-164.6	61	10
130	260	-130	61	11
ND<4	260	-256	61	12
ND<4	260	-256	61	13
200	260	-60	61	14
ND<4	260	-256	61	15
6.97	260	-253.03	61	16
ND<4	260	-256	61	17
1.34 J	260	-258.66	61	18
ND<4	260	-256	61	19
11.6	260	-248.4	61	20
932	260	672	62	20
24	260	-236	62	21
52	260	-208	62	22
ND<4	ND<4	0	62	22
ND<4	ND<4	0	62	22
4260	ND<4	4256	63	22
95.4	ND<4	91.4	64	22
130	ND<4	126	65	22
ND<4	ND<4	0	65	22
ND<4	ND<4	0	65	22
200	ND<4	196	66	22
ND<4	ND<4	0	66	22
6.97	ND<4	2.97	67	22
ND<4	ND<4	0	67	22
1.34 J	ND<4	-2.66	67	23
ND<4	ND<4	0	67	23
11.6	ND<4	7.6	68	23
932	ND<4	928	69	23
24	ND<4	20	70	23
52	ND<4	48	71	23

ND<4	ND<4	0	71	23
4260	ND<4	4256	72	23
95.4	ND<4	91.4	73	23
130	ND<4	126	74	23
ND<4	ND<4	0	74	23
ND<4	ND<4	0	74	23
200	ND<4	196	75	23
ND<4	ND<4	0	75	23
6.97	ND<4	2.97	76	23
ND<4	ND<4	0	76	23
1.34 J	ND<4	-2.66	76	24
ND<4	ND<4	0	76	24
11.6	ND<4	7.6	77	24
932	ND<4	928	78	24
24	ND<4	20	79	24
52	ND<4	48	80	24
4260	ND<4	4256	81	24
95.4	ND<4	91.4	82	24
130	ND<4	126	83	24
ND<4	ND<4	0	83	24
ND<4	ND<4	0	83	24
200	ND<4	196	84	24
ND<4	ND<4	0	84	24
6.97	ND<4	2.97	85	24
ND<4	ND<4	0	85	24
1.34 J	ND<4	-2.66	85	25
ND<4	ND<4	0	85	25
11.6	ND<4	7.6	86	25
932	ND<4	928	87	25
24	ND<4	20	88	25
52	ND<4	48	89	25
95.4	4260	-4164.6	89	26
130	4260	-4130	89	27
ND<4	4260	-4256	89	28
ND<4	4260	-4256	89	29
200	4260	-4060	89	30
ND<4	4260	-4256	89	31
6.97	4260	-4253.03	89	32
ND<4	4260	-4256	89	33
1.34 J	4260	-4258.66	89	34
ND<4	4260	-4256	89	35
11.6	4260	-4248.4	89	36
932	4260	-3328	89	37
24	4260	-4236	89	38
52	4260	-4208	89	39
130	95.4	34.6	90	39
ND<4	95.4	-91.4	90	40
ND<4	95.4	-91.4	90	41
200	95.4	104.6	91	41
ND<4	95.4	-91.4	91	42
6.97	95.4	-88.43	91	43
ND<4	95.4	-91.4	91	44
1.34 J	95.4	-94.06	91	45
ND<4	95.4	-91.4	91	46
11.6	95.4	-83.8	91	47
932	95.4	836.6	92	47
24	95.4	-71.4	92	48
52	95.4	-43.4	92	49

ND<4	130	-126	92	50
ND<4	130	-126	92	51
200	130	70	93	51
ND<4	130	-126	93	52
6.97	130	-123.03	93	53
ND<4	130	-126	93	54
1.34 J	130	-128.66	93	55
ND<4	130	-126	93	56
11.6	130	-118.4	93	57
932	130	802	94	57
24	130	-106	94	58
52	130	-78	94	59
ND<4	ND<4	0	94	59
200	ND<4	196	95	59
ND<4	ND<4	0	95	59
6.97	ND<4	2.97	96	59
ND<4	ND<4	0	96	59
1.34 J	ND<4	-2.66	96	60
ND<4	ND<4	0	96	60
11.6	ND<4	7.6	97	60
932	ND<4	928	98	60
24	ND<4	20	99	60
52	ND<4	48	100	60
200	ND<4	196	101	60
ND<4	ND<4	0	101	60
6.97	ND<4	2.97	102	60
ND<4	ND<4	0	102	60
1.34 J	ND<4	-2.66	102	61
ND<4	ND<4	0	102	61
11.6	ND<4	7.6	103	61
932	ND<4	928	104	61
24	ND<4	20	105	61
52	ND<4	48	106	61
ND<4	200	-196	106	62
6.97	200	-193.03	106	63
ND<4	200	-196	106	64
1.34 J	200	-198.66	106	65
ND<4	200	-196	106	66
11.6	200	-188.4	106	67
932	200	732	107	67
24	200	-176	107	68
52	200	-148	107	69
6.97	ND<4	2.97	108	69
ND<4	ND<4	0	108	69
1.34 J	ND<4	-2.66	108	70
ND<4	ND<4	0	108	70
11.6	ND<4	7.6	109	70
932	ND<4	928	110	70
24	ND<4	20	111	70
52	ND<4	48	112	70
ND<4	6.97	-2.97	112	71
1.34 J	6.97	-5.63	112	72
ND<4	6.97	-2.97	112	73
11.6	6.97	4.63	113	73
932	6.97	925.03	114	73
24	6.97	17.03	115	73
52	6.97	45.03	116	73

1.34 J	ND<4	-2.66	116	74
ND<4	ND<4	0	116	74
11.6	ND<4	7.6	117	74
932	ND<4	928	118	74
24	ND<4	20	119	74
52	ND<4	48	120	74
ND<4	1.34 J	2.66	121	74
11.6	1.34 J	10.26	122	74
932	1.34 J	930.66	123	74
24	1.34 J	22.66	124	74
52	1.34 J	50.66	125	74
11.6	ND<4	7.6	126	74
932	ND<4	928	127	74
24	ND<4	20	128	74
52	ND<4	48	129	74
932	11.6	920.4	130	74
24	11.6	12.4	131	74
52	11.6	40.4	132	74
24	932	-908	132	75
52	932	-880	132	76
52	24	28	133	76

S Statistic = 133 - 76 = 57

Tied Group	Value	Members
1	4	14

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 6006
B = 0
C = 2184
D = 0
E = 182
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1499.67
Z-Score = 1.44607
Comparison Level at 95% confidence level = 1.65463 (upward trend)
1.44607 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Arsenic

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 123
Percent Non-Detects: 63.0769%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	12 (80%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	37	37
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	1.11 J	1.11 J
			11/28/2007	ND<2	ND<2
			6/5/2008	1.45 J	1.45 J
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.4	ND<0.4

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	10 (40%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	17	17
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	17	17
			3/16/1999	5	5
			9/23/1999	5	5
			3/15/2000	17	17
			9/24/2003	13	13
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	3.91	3.91
			10/25/2005	6.28	6.28
			4/29/2006	11	11
			11/18/2006	11.4	11.4
			5/23/2007	10.8	10.8
			11/28/2007	8.98	8.98
			6/5/2008	8.48	8.48
			11/20/2008	13.8	13.8
			6/11/2009	8.6	8.6

MW-8	25	13 (52%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	12.2	12.2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	2	2	
			9/23/1999	40	40	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	5.17	5.17	
			10/25/2005	6.67	6.67	
			4/29/2006	4.63	4.63	
			11/18/2006	3.32	3.32	
			5/23/2007	5.92	5.92	
			11/28/2007	5.85	5.85	
			6/5/2008	2.23	2.23	
			11/20/2008	1.05 J	1.05 J	
			6/11/2009	3.6	3.6	
MW-7	25	13 (52%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	12.7	12.7	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	11.7	11.7	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	5	5	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	5.76	5.76	
			10/25/2005	8.44	8.44	
			4/29/2006	9.41	9.41	
			11/18/2006	4.84	4.84	
			5/23/2007	9.45	9.45	
			11/28/2007	12.3	12.3	
			6/5/2008	8.8	8.8	
			11/20/2008	5.73	5.73	
			6/11/2009	5.2	5.2	
MW-6	25	21 (84%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	5	5		
		9/23/1999	2	2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	1.09 J	1.09 J		
		11/20/2008	5.75	5.75		
		6/11/2009	ND<0.4	ND<0.4		
MW-12BR	15	13 (86.6667%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	1.95 J	1.95 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	1.92 J	1.92 J		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.4	ND<0.4		
MW-12AR	15	8 (53.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	5	5		
		3/15/2000	16	16		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	2.02	2.02		
		4/29/2006	1.48 J	1.48 J		
		11/18/2006	1.05 J	1.05 J		
		5/23/2007	1.05 J	1.05 J		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	0.42 J	0.42 J		
MW-11R	25	17 (68%)	7/20/1995	ND<2	ND<2	
		8/24/1995	ND<2	ND<2		
		9/28/1995	ND<2	ND<2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	17	17		

			3/11/2004	ND<2	ND<2	
			10/12/2004	15	15	
			4/1/2005	10.4	10.4	
			10/25/2005	7.5	7.5	
			4/29/2006	7.92	7.92	
			11/18/2006	2.65	2.65	
			5/23/2007	25.5	25.5	
			11/28/2007	4.87	4.87	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.4	ND<0.4	
MW-10	25	16 (64%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	4	4	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	1.13 J	1.13 J	
			10/25/2005	ND<2	ND<2	
			4/29/2006	1.31 J	1.31 J	
			11/18/2006	1.88 J	1.88 J	
			5/23/2007	3.62	3.62	
			11/28/2007	4.82	4.82	
			6/5/2008	2.23	2.23	
			11/20/2008	2.11	2.11	
			6/11/2009	3.1	3.1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Arsenic

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	62
	9/23/1999	ND<2	62
	3/15/2000	37	194
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	ND<2	62
	10/25/2005	ND<2	62
	4/29/2006	ND<2	62
	11/18/2006	ND<2	62
	5/23/2007	1.11 J	129
	11/28/2007	ND<2	62
	6/5/2008	1.45 J	132
	11/20/2008	ND<2	62
	6/11/2009	ND<0.4	62

Rank Sum = 1199
Rank Mean = 79.9333

Background Rank Sum = 1199
Background Rank Mean = 79.9333

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	62
	8/24/1995	ND<2	62
	9/28/1995	ND<2	62
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	ND<2	62
	3/24/1997	17	189
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	17	190
	3/16/1999	5	154
	9/23/1999	5	155
	3/15/2000	17	191
	9/24/2003	13	185
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	3.91	148
	10/25/2005	6.28	166
	4/29/2006	11	179
	11/18/2006	11.4	180
	5/23/2007	10.8	178
	11/28/2007	8.98	174
	6/5/2008	8.48	171

	11/20/2008	13.8	186
	6/11/2009	8.6	172

Rank Sum = 3238
Rank Mean = 129.52

MW-8	7/20/1995	ND<2	62
	8/24/1995	ND<2	62
	9/28/1995	12.2	182
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	ND<2	62
	3/24/1997	ND<2	62
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	ND<2	62
	3/16/1999	2	137
	9/23/1999	40	195
	3/15/2000	ND<2	62
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	5.17	159
	10/25/2005	6.67	167
	4/29/2006	4.63	150
	11/18/2006	3.32	145
	5/23/2007	5.92	165
	11/28/2007	5.85	164
	6/5/2008	2.23	141
	11/20/2008	1.05 J	125
	6/11/2009	3.6	146

Rank Sum = 2682
Rank Mean = 107.28

MW-7	7/20/1995	ND<2	62
	8/24/1995	ND<2	62
	9/28/1995	12.7	184
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	11.7	181
	3/24/1997	ND<2	62
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	ND<2	62
	3/16/1999	5	156
	9/23/1999	ND<2	62
	3/15/2000	ND<2	62
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	5.76	163
	10/25/2005	8.44	170
	4/29/2006	9.41	175
	11/18/2006	4.84	152
	5/23/2007	9.45	176
	11/28/2007	12.3	183
	6/5/2008	8.8	173
	11/20/2008	5.73	161
	6/11/2009	5.2	160

Rank Sum = 2840
Rank Mean = 113.6

MW-6	7/20/1995	ND<2	62

	8/24/1995	ND<2	62
	9/28/1995	ND<2	62
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	ND<2	62
	3/24/1997	ND<2	62
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	ND<2	62
	3/16/1999	5	157
	9/23/1999	2	138
	3/15/2000	ND<2	62
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	ND<2	62
	10/25/2005	ND<2	62
	4/29/2006	ND<2	62
	11/18/2006	ND<2	62
	5/23/2007	ND<2	62
	11/28/2007	ND<2	62
	6/5/2008	1.09 J	128
	11/20/2008	5.75	162
	6/11/2009	ND<0.4	62

Rank Sum = 1887
Rank Mean = 75.48

MW-12BR	3/16/1999	ND<2	62
	9/23/1999	ND<2	62
	3/15/2000	ND<2	62
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	1.95 J	136
	10/25/2005	ND<2	62
	4/29/2006	ND<2	62
	11/18/2006	ND<2	62
	5/23/2007	ND<2	62
	11/28/2007	ND<2	62
	6/5/2008	1.92 J	135
	11/20/2008	ND<2	62
	6/11/2009	ND<0.4	62

Rank Sum = 1077
Rank Mean = 71.8

MW-12AR	3/16/1999	ND<2	62
	9/23/1999	5	158
	3/15/2000	16	188
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	ND<2	62
	10/25/2005	2.02	139
	4/29/2006	1.48 J	133
	11/18/2006	1.05 J	126
	5/23/2007	1.05 J	127
	11/28/2007	ND<2	62
	6/5/2008	ND<2	62
	11/20/2008	ND<2	62
	6/11/2009	0.42 J	124

Rank Sum = 1491
Rank Mean = 99.4

MW-11R	7/20/1995	ND<2	62
	8/24/1995	ND<2	62
	9/28/1995	ND<2	62
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	ND<2	62
	3/24/1997	ND<2	62
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	ND<2	62
	3/16/1999	ND<2	62
	9/23/1999	ND<2	62
	3/15/2000	ND<2	62
	9/24/2003	17	192
	3/11/2004	ND<2	62
	10/12/2004	15	187
	4/1/2005	10.4	177
	10/25/2005	7.5	168
	4/29/2006	7.92	169
	11/18/2006	2.65	143
	5/23/2007	25.5	193
	11/28/2007	4.87	153
	6/5/2008	ND<2	62
	11/20/2008	ND<2	62
	6/11/2009	ND<0.4	62

Rank Sum = 2436
Rank Mean = 97.44

MW-10	7/20/1995	ND<2	62
	8/24/1995	ND<2	62
	9/28/1995	ND<2	62
	10/26/1995	ND<2	62
	11/19/1996	ND<2	62
	12/19/1996	ND<2	62
	3/24/1997	ND<2	62
	9/24/1997	ND<2	62
	4/7/1998	ND<2	62
	9/23/1998	ND<2	62
	3/16/1999	4	149
	9/23/1999	ND<2	62
	3/15/2000	ND<2	62
	9/24/2003	ND<2	62
	3/11/2004	ND<2	62
	10/12/2004	ND<2	62
	4/1/2005	1.13 J	130
	10/25/2005	ND<2	62
	4/29/2006	1.31 J	131
	11/18/2006	1.88 J	134
	5/23/2007	3.62	147
	11/28/2007	4.82	151
	6/5/2008	2.23	142
	11/20/2008	2.11	140
	6/11/2009	3.1	144

Rank Sum = 2260
Rank Mean = 90.4

Calculation Results:

Kruskal-Wallis H Statistic = 19.6004
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 26.1672

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
19.6004 > 15.5073 indicating a significant group difference at 5% significance level
26.1672 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 79.9333

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	129.52	49.5867	42.8788
MW-8	107.28	27.3467	42.8788
MW-7	113.6	33.6667	42.8788
MW-6	75.48	-4.4533	42.8788
MW-12BR	71.8	-8.1333	47.94
MW-12AR	99.4	19.4667	47.94
MW-11R	97.44	17.5067	42.8788
MW-10	90.4	10.4667	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 79.9333

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	129.52	49.5867	46.3033
MW-8	107.28	27.3467	46.3033
MW-7	113.6	33.6667	46.3033
MW-6	75.48	-4.4533	46.3033
MW-12BR	71.8	-8.1333	51.7686
MW-12AR	99.4	19.4667	51.7686
MW-11R	97.44	17.5067	46.3033
MW-10	90.4	10.4667	46.3033

Mann-Kendall Trend Analysis

Parameter: Arsenic

Location: MW-9

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
17	ND<2	15	1	0	
ND<2	ND<2	0	1	0	
ND<2	ND<2	0	1	0	
17	ND<2	15	2	0	
5	ND<2	3	3	0	
5	ND<2	3	4	0	
17	ND<2	15	5	0	
13	ND<2	11	6	0	
ND<2	ND<2	0	6	0	
ND<2	ND<2	0	6	0	
3.91	ND<2	1.91	7	0	
6.28	ND<2	4.28	8	0	
11	ND<2	9	9	0	
11.4	ND<2	9.4	10	0	
10.8	ND<2	8.8	11	0	
8.98	ND<2	6.98	12	0	
8.48	ND<2	6.48	13	0	
13.8	ND<2	11.8	14	0	
8.6	ND<2	6.6	15	0	
ND<2	ND<2	0	15	0	
ND<2	ND<2	0	15	0	
ND<2	ND<2	0	15	0	
ND<2	ND<2	0	15	0	
17	ND<2	15	16	0	
ND<2	ND<2	0	16	0	
ND<2	ND<2	0	16	0	
17	ND<2	15	17	0	
5	ND<2	3	18	0	
5	ND<2	3	19	0	
17	ND<2	15	20	0	
13	ND<2	11	21	0	
ND<2	ND<2	0	21	0	
ND<2	ND<2	0	21	0	
3.91	ND<2	1.91	22	0	
6.28	ND<2	4.28	23	0	
11	ND<2	9	24	0	
11.4	ND<2	9.4	25	0	
10.8	ND<2	8.8	26	0	
8.98	ND<2	6.98	27	0	
8.48	ND<2	6.48	28	0	
13.8	ND<2	11.8	29	0	
8.6	ND<2	6.6	30	0	

ND<2	ND<2	0	30	0
ND<2	ND<2	0	30	0
ND<2	ND<2	0	30	0
17	ND<2	15	31	0
ND<2	ND<2	0	31	0
ND<2	ND<2	0	31	0
17	ND<2	15	32	0
5	ND<2	3	33	0
5	ND<2	3	34	0
17	ND<2	15	35	0
13	ND<2	11	36	0
ND<2	ND<2	0	36	0
ND<2	ND<2	0	36	0
3.91	ND<2	1.91	37	0
6.28	ND<2	4.28	38	0
11	ND<2	9	39	0
11.4	ND<2	9.4	40	0
10.8	ND<2	8.8	41	0
8.98	ND<2	6.98	42	0
8.48	ND<2	6.48	43	0
13.8	ND<2	11.8	44	0
8.6	ND<2	6.6	45	0
ND<2	ND<2	0	45	0
ND<2	ND<2	0	45	0
17	ND<2	15	46	0
ND<2	ND<2	0	46	0
ND<2	ND<2	0	46	0
17	ND<2	15	47	0
5	ND<2	3	48	0
5	ND<2	3	49	0
17	ND<2	15	50	0
13	ND<2	11	51	0
ND<2	ND<2	0	51	0
ND<2	ND<2	0	51	0
3.91	ND<2	1.91	52	0
6.28	ND<2	4.28	53	0
11	ND<2	9	54	0
11.4	ND<2	9.4	55	0
10.8	ND<2	8.8	56	0
8.98	ND<2	6.98	57	0
8.48	ND<2	6.48	58	0
13.8	ND<2	11.8	59	0
8.6	ND<2	6.6	60	0
ND<2	ND<2	0	60	0
17	ND<2	15	61	0
ND<2	ND<2	0	61	0
ND<2	ND<2	0	61	0
17	ND<2	15	62	0
5	ND<2	3	63	0
5	ND<2	3	64	0
17	ND<2	15	65	0
13	ND<2	11	66	0
ND<2	ND<2	0	66	0
ND<2	ND<2	0	66	0
3.91	ND<2	1.91	67	0
6.28	ND<2	4.28	68	0
11	ND<2	9	69	0
11.4	ND<2	9.4	70	0
10.8	ND<2	8.8	71	0

8.98	ND<2	6.98	72	0
8.48	ND<2	6.48	73	0
13.8	ND<2	11.8	74	0
8.6	ND<2	6.6	75	0
17	ND<2	15	76	0
ND<2	ND<2	0	76	0
ND<2	ND<2	0	76	0
17	ND<2	15	77	0
5	ND<2	3	78	0
5	ND<2	3	79	0
17	ND<2	15	80	0
13	ND<2	11	81	0
ND<2	ND<2	0	81	0
ND<2	ND<2	0	81	0
3.91	ND<2	1.91	82	0
6.28	ND<2	4.28	83	0
11	ND<2	9	84	0
11.4	ND<2	9.4	85	0
10.8	ND<2	8.8	86	0
8.98	ND<2	6.98	87	0
8.48	ND<2	6.48	88	0
13.8	ND<2	11.8	89	0
8.6	ND<2	6.6	90	0
ND<2	17	-15	90	1
ND<2	17	-15	90	2
17	17	0	90	2
5	17	-12	90	3
5	17	-12	90	4
17	17	0	90	4
13	17	-4	90	5
ND<2	17	-15	90	6
ND<2	17	-15	90	7
3.91	17	-13.09	90	8
6.28	17	-10.72	90	9
11	17	-6	90	10
11.4	17	-5.6	90	11
10.8	17	-6.2	90	12
8.98	17	-8.02	90	13
8.48	17	-8.52	90	14
13.8	17	-3.2	90	15
8.6	17	-8.4	90	16
ND<2	ND<2	0	90	16
17	ND<2	15	91	16
5	ND<2	3	92	16
5	ND<2	3	93	16
17	ND<2	15	94	16
13	ND<2	11	95	16
ND<2	ND<2	0	95	16
ND<2	ND<2	0	95	16
3.91	ND<2	1.91	96	16
6.28	ND<2	4.28	97	16
11	ND<2	9	98	16
11.4	ND<2	9.4	99	16
10.8	ND<2	8.8	100	16
8.98	ND<2	6.98	101	16
8.48	ND<2	6.48	102	16
13.8	ND<2	11.8	103	16
8.6	ND<2	6.6	104	16

17	ND<2	15	105	16
5	ND<2	3	106	16
5	ND<2	3	107	16
17	ND<2	15	108	16
13	ND<2	11	109	16
ND<2	ND<2	0	109	16
ND<2	ND<2	0	109	16
3.91	ND<2	1.91	110	16
6.28	ND<2	4.28	111	16
11	ND<2	9	112	16
11.4	ND<2	9.4	113	16
10.8	ND<2	8.8	114	16
8.98	ND<2	6.98	115	16
8.48	ND<2	6.48	116	16
13.8	ND<2	11.8	117	16
8.6	ND<2	6.6	118	16
5	17	-12	118	17
5	17	-12	118	18
17	17	0	118	18
13	17	-4	118	19
ND<2	17	-15	118	20
ND<2	17	-15	118	21
3.91	17	-13.09	118	22
6.28	17	-10.72	118	23
11	17	-6	118	24
11.4	17	-5.6	118	25
10.8	17	-6.2	118	26
8.98	17	-8.02	118	27
8.48	17	-8.52	118	28
13.8	17	-3.2	118	29
8.6	17	-8.4	118	30
5	5	0	118	30
17	5	12	119	30
13	5	8	120	30
ND<2	5	-3	120	31
ND<2	5	-3	120	32
3.91	5	-1.09	120	33
6.28	5	1.28	121	33
11	5	6	122	33
11.4	5	6.4	123	33
10.8	5	5.8	124	33
8.98	5	3.98	125	33
8.48	5	3.48	126	33
13.8	5	8.8	127	33
8.6	5	3.6	128	33
17	5	12	129	33
13	5	8	130	33
ND<2	5	-3	130	34
ND<2	5	-3	130	35
3.91	5	-1.09	130	36
6.28	5	1.28	131	36
11	5	6	132	36
11.4	5	6.4	133	36
10.8	5	5.8	134	36
8.98	5	3.98	135	36
8.48	5	3.48	136	36
13.8	5	8.8	137	36
8.6	5	3.6	138	36

13	17	-4	138	37
ND<2	17	-15	138	38
ND<2	17	-15	138	39
3.91	17	-13.09	138	40
6.28	17	-10.72	138	41
11	17	-6	138	42
11.4	17	-5.6	138	43
10.8	17	-6.2	138	44
8.98	17	-8.02	138	45
8.48	17	-8.52	138	46
13.8	17	-3.2	138	47
8.6	17	-8.4	138	48
ND<2	13	-11	138	49
ND<2	13	-11	138	50
3.91	13	-9.09	138	51
6.28	13	-6.72	138	52
11	13	-2	138	53
11.4	13	-1.6	138	54
10.8	13	-2.2	138	55
8.98	13	-4.02	138	56
8.48	13	-4.52	138	57
13.8	13	0.8	139	57
8.6	13	-4.4	139	58
ND<2	ND<2	0	139	58
3.91	ND<2	1.91	140	58
6.28	ND<2	4.28	141	58
11	ND<2	9	142	58
11.4	ND<2	9.4	143	58
10.8	ND<2	8.8	144	58
8.98	ND<2	6.98	145	58
8.48	ND<2	6.48	146	58
13.8	ND<2	11.8	147	58
8.6	ND<2	6.6	148	58
3.91	ND<2	1.91	149	58
6.28	ND<2	4.28	150	58
11	ND<2	9	151	58
11.4	ND<2	9.4	152	58
10.8	ND<2	8.8	153	58
8.98	ND<2	6.98	154	58
8.48	ND<2	6.48	155	58
13.8	ND<2	11.8	156	58
8.6	ND<2	6.6	157	58
6.28	3.91	2.37	158	58
11	3.91	7.09	159	58
11.4	3.91	7.49	160	58
10.8	3.91	6.89	161	58
8.98	3.91	5.07	162	58
8.48	3.91	4.57	163	58
13.8	3.91	9.89	164	58
8.6	3.91	4.69	165	58
11	6.28	4.72	166	58
11.4	6.28	5.12	167	58
10.8	6.28	4.52	168	58
8.98	6.28	2.7	169	58
8.48	6.28	2.2	170	58
13.8	6.28	7.52	171	58
8.6	6.28	2.32	172	58

11.4	11	0.4	173	58
10.8	11	-0.2	173	59
8.98	11	-2.02	173	60
8.48	11	-2.52	173	61
13.8	11	2.8	174	61
8.6	11	-2.4	174	62
10.8	11.4	-0.6	174	63
8.98	11.4	-2.42	174	64
8.48	11.4	-2.92	174	65
13.8	11.4	2.4	175	65
8.6	11.4	-2.8	175	66
8.98	10.8	-1.82	175	67
8.48	10.8	-2.32	175	68
13.8	10.8	3	176	68
8.6	10.8	-2.2	176	69
8.48	8.98	-0.5	176	70
13.8	8.98	4.82	177	70
8.6	8.98	-0.38	177	71
13.8	8.48	5.32	178	71
8.6	8.48	0.12	179	71
8.6	13.8	-5.2	179	72

S Statistic = 179 - 72 = 107

Tied Group	Value	Members
1	2	10
2	17	3
3	5	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	

11/20/2008	1
6/11/2009	1

There are 0 time periods with multiple data

A = 2334
B = 0
C = 726
D = 0
E = 98
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1703.67
Z-Score = 2.56811
Comparison Level at 95% confidence level = 1.65463 (upward trend)
2.56811 > 1.65463 indicating an upward trend

Concentrations (ppb)

Parameter: Barium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 99
Percent Non-Detects: 50.7692%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	5 (33.3333%)	3/16/1999	50	50
			9/23/1999	28	28
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	8.7 J	8.7 J
			10/25/2005	ND<10	ND<10
			4/29/2006	5 J	5 J
			11/18/2006	5.43 J	5.43 J
			5/23/2007	10.9	10.9
			11/28/2007	7 J	7 J
			6/5/2008	5.97 J	5.97 J
			11/20/2008	8 J	8 J
			6/11/2009	9	9

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	14 (56%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	20	20
			9/23/1999	52	52
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	40.7	40.7
			10/25/2005	39	39
			4/29/2006	40	40
			11/18/2006	49.3	49.3
			5/23/2007	70.4	70.4
			11/28/2007	47	47
			6/5/2008	44.8	44.8
			11/20/2008	49	49
			6/11/2009	46	46

MW-8	25	14 (56%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	60	60	
			9/23/1999	41	41	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	95.7	95.7	
			10/25/2005	65.2	65.2	
			4/29/2006	70	70	
			11/18/2006	85.5	85.5	
			5/23/2007	76.3	76.3	
			11/28/2007	100	100	
			6/5/2008	88.4	88.4	
			11/20/2008	64	64	
			6/11/2009	55	55	
MW-7	25	14 (56%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	60	60	
			9/23/1999	74	74	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	46.8	46.8	
			10/25/2005	47.5	47.5	
			4/29/2006	50	50	
			11/18/2006	37.7	37.7	
			5/23/2007	63.2	63.2	
			11/28/2007	8.3 J	8.3 J	
			6/5/2008	43.8	43.8	
			11/20/2008	60	60	
			6/11/2009	47	47	
MW-6	25	15 (60%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	20	20		
		9/23/1999	7 J	7 J		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	5.7 J	5.7 J		
		10/25/2005	5.5 J	5.5 J		
		4/29/2006	ND<10	ND<10		
		11/18/2006	6.07 J	6.07 J		
		5/23/2007	7.22	7.22		
		11/28/2007	6.22 J	6.22 J		
		6/5/2008	6.44 J	6.44 J		
		11/20/2008	8 J	8 J		
		6/11/2009	7	7		
MW-12BR	15	4 (26.6667%)	3/16/1999		30	30
		9/23/1999	33	33		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	40.1	40.1		
		10/25/2005	35	35		
		4/29/2006	30	30		
		11/18/2006	34.5	34.5		
		5/23/2007	41.5	41.5		
		11/28/2007	40	40		
		6/5/2008	36.8	36.8		
		11/20/2008	43	43		
		6/11/2009	42	42		
MW-12AR	15	4 (26.6667%)	3/16/1999		40	40
		9/23/1999	40	40		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	36	36		
		10/25/2005	27.7	27.7		
		4/29/2006	30	30		
		11/18/2006	33.2	33.2		
		5/23/2007	34.1	34.1		
		11/28/2007	42	42		
		6/5/2008	34.8	34.8		
		11/20/2008	45	45		
		6/11/2009	38	38		
MW-11R	25	15 (60%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	40	40		
		9/23/1999	21	21		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	28.8	28.8	
			10/25/2005	19.1	19.1	
			4/29/2006	30	30	
			11/18/2006	116	116	
			5/23/2007	50	50	
			11/28/2007	34	34	
			6/5/2008	ND<10	ND<10	
			11/20/2008	10	10	
			6/11/2009	11	11	
MW-10	25	14 (56%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	90	90	
			9/23/1999	72	72	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	77.9	77.9	
			10/25/2005	76.8	76.8	
			4/29/2006	11	11	
			11/18/2006	123	123	
			5/23/2007	139	139	
			11/28/2007	118	118	
			6/5/2008	150	150	
			11/20/2008	150	150	
			6/11/2009	170	170	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Barium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	50	166
	9/23/1999	28	126
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	8.7 J	115
	10/25/2005	ND<10	50
	4/29/2006	5 J	100
	11/18/2006	5.43 J	101
	5/23/2007	10.9	118
	11/28/2007	7 J	108
	6/5/2008	5.97 J	104
	11/20/2008	8 J	112
	6/11/2009	9	116

Rank Sum = 1416
Rank Mean = 94.4

Background Rank Sum = 1416
Background Rank Mean = 94.4

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<10	50
	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	20	122
	9/23/1999	52	169
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	40.7	150
	10/25/2005	39	143
	4/29/2006	40	144
	11/18/2006	49.3	165
	5/23/2007	70.4	178
	11/28/2007	47	161
	6/5/2008	44.8	157

	11/20/2008	49	164
	6/11/2009	46	159

Rank Sum = 2412
Rank Mean = 96.48

MW-8	7/20/1995	ND<10	50
	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	60	171
	9/23/1999	41	151
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	95.7	187
	10/25/2005	65.2	176
	4/29/2006	70	177
	11/18/2006	85.5	184
	5/23/2007	76.3	181
	11/28/2007	100	188
	6/5/2008	88.4	185
	11/20/2008	64	175
	6/11/2009	55	170

Rank Sum = 2645
Rank Mean = 105.8

MW-7	7/20/1995	ND<10	50
	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	60	172
	9/23/1999	74	180
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	46.8	160
	10/25/2005	47.5	163
	4/29/2006	50	167
	11/18/2006	37.7	141
	5/23/2007	63.2	174
	11/28/2007	8.3 J	114
	6/5/2008	43.8	156
	11/20/2008	60	173
	6/11/2009	47	162

Rank Sum = 2462
Rank Mean = 98.48

MW-6	7/20/1995	ND<10	50

	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	20	123
	9/23/1999	7 J	109
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	5.7 J	103
	10/25/2005	5.5 J	102
	4/29/2006	ND<10	50
	11/18/2006	6.07 J	105
	5/23/2007	7.22	111
	11/28/2007	6.22 J	106
	6/5/2008	6.44 J	107
	11/20/2008	8 J	113
	6/11/2009	7	110

Rank Sum = 1839
Rank Mean = 73.56

MW-12BR	3/16/1999	30	128
	9/23/1999	33	132
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	40.1	149
	10/25/2005	35	138
	4/29/2006	30	129
	11/18/2006	34.5	136
	5/23/2007	41.5	152
	11/28/2007	40	145
	6/5/2008	36.8	140
	11/20/2008	43	155
	6/11/2009	42	153

Rank Sum = 1757
Rank Mean = 117.133

MW-12AR	3/16/1999	40	146
	9/23/1999	40	147
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	36	139
	10/25/2005	27.7	125
	4/29/2006	30	130
	11/18/2006	33.2	133
	5/23/2007	34.1	135
	11/28/2007	42	154
	6/5/2008	34.8	137
	11/20/2008	45	158
	6/11/2009	38	142

Rank Sum = 1746
Rank Mean = 116.4

MW-11R	7/20/1995	ND<10	50
	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	40	148
	9/23/1999	21	124
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	28.8	127
	10/25/2005	19.1	121
	4/29/2006	30	131
	11/18/2006	116	189
	5/23/2007	50	168
	11/28/2007	34	134
	6/5/2008	ND<10	50
	11/20/2008	10	117
	6/11/2009	11	119

Rank Sum = 2128
Rank Mean = 85.12

MW-10	7/20/1995	ND<10	50
	8/24/1995	ND<10	50
	9/28/1995	ND<10	50
	10/26/1995	ND<10	50
	11/19/1996	ND<10	50
	12/19/1996	ND<10	50
	3/24/1997	ND<10	50
	9/24/1997	ND<10	50
	4/7/1998	ND<10	50
	9/23/1998	ND<10	50
	3/16/1999	90	186
	9/23/1999	72	179
	3/15/2000	ND<10	50
	9/24/2003	ND<10	50
	3/11/2004	ND<10	50
	10/12/2004	ND<10	50
	4/1/2005	77.9	183
	10/25/2005	76.8	182
	4/29/2006	11	120
	11/18/2006	123	191
	5/23/2007	139	192
	11/28/2007	118	190
	6/5/2008	150	193
	11/20/2008	150	194
	6/11/2009	170	195

Rank Sum = 2705
Rank Mean = 108.2

Calculation Results:

Kruskal-Wallis H Statistic = 10.6844
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 12.2929

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
10.6844 < 15.5073 indicating no significant group difference at 5% significance level
12.2929 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Benzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 129
Percent Non-Detects: 66.1538%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.25	ND<0.25

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	12 (48%)	7/20/1995	2.5	2.5
			8/24/1995	2.6	2.6
			9/28/1995	3	3
			10/26/1995	3	3
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	2.2	2.2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	1.92 J	1.92 J
			10/25/2005	1.09 J	1.09 J
			4/29/2006	0.71 J	0.71 J
			11/18/2006	0.8 J	0.8 J
			5/23/2007	2.2	2.2
			11/28/2007	1.54 J	1.54 J
			6/5/2008	ND<2	ND<2
			11/20/2008	1.35 J	1.35 J
			6/11/2009	1.9	1.9

MW-8	25	12 (48%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	5.4	5.4	
			4/7/1998	ND<2	ND<2	
			9/23/1998	5.6	5.6	
			3/16/1999	3.5	3.5	
			9/23/1999	3.6	3.6	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	3.22	3.22	
			10/25/2005	4.99	4.99	
			4/29/2006	2.54	2.54	
			11/18/2006	4.03	4.03	
			5/23/2007	3.2	3.2	
			11/28/2007	4.5	4.5	
			6/5/2008	4.07	4.07	
			11/20/2008	2.72	2.72	
			6/11/2009	3.6	3.6	
MW-7	25	18 (72%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	0.51 J	0.51 J	
			4/29/2006	0.68 J	0.68 J	
			11/18/2006	0.36 J	0.36 J	
			5/23/2007	1.2	1.2	
			11/28/2007	0.5 J	0.5 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	1.02 J	1.02 J	
			6/11/2009	0.73 J	0.73 J	
MW-6	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	1.2	1.2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12BR	15	13 (86.6667%)	3/16/1999		3.8	3.8
		9/23/1999	3	3		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12AR	15	10 (66.6667%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	1.03 J	1.03 J		
		4/29/2006	1.04 J	1.04 J		
		11/18/2006	0.76 J	0.76 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.84 J	0.84 J		
		6/5/2008	ND<2	ND<2		
		11/20/2008	0.53 J	0.53 J		
		6/11/2009	ND<0.25		ND<0.25	
MW-11R	25	11 (44%)	7/20/1995		2.1	2.1
		8/24/1995	6.3	6.3		
		9/28/1995	6	6		
		10/26/1995	8	8		
		11/19/1996	ND<2	ND<2		
		12/19/1996	9	9		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	5	5		
		3/16/1999	5	5		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	4.58	4.58	
			10/25/2005	1.54 J	1.54 J	
			4/29/2006	0.83 J	0.83 J	
			11/18/2006	0.93 J	0.93 J	
			5/23/2007	2.1	2.1	
			11/28/2007	1.3 J	1.3 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.59 J	0.59 J	
MW-10	25	14 (56%)	7/20/1995	ND<2	ND<2	
			8/24/1995	1.2 J	1.2 J	
			9/28/1995	2	2	
			10/26/1995	2	2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	2.2	2.2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	1.8 J	1.8 J	
			10/25/2005	1.32 J	1.32 J	
			4/29/2006	1.31 J	1.31 J	
			11/18/2006	0.96 J	0.96 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	1.38	1.38	
			6/5/2008	ND<2	ND<2	
			11/20/2008	1 J	1 J	
			6/11/2009	1	1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Benzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	65
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	ND<2	65
	10/25/2005	ND<2	65
	4/29/2006	ND<2	65
	11/18/2006	ND<2	65
	5/23/2007	ND<2	65
	11/28/2007	ND<2	65
	6/5/2008	ND<2	65
	11/20/2008	ND<2	65
	6/11/2009	ND<0.25	65

Rank Sum = 975
Rank Mean = 65

Background Rank Sum = 975
Background Rank Mean = 65

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	2.5	170
	8/24/1995	2.6	172
	9/28/1995	3	174
	10/26/1995	3	175
	11/19/1996	ND<2	65
	12/19/1996	ND<2	65
	3/24/1997	ND<2	65
	9/24/1997	ND<2	65
	4/7/1998	ND<2	65
	9/23/1998	ND<2	65
	3/16/1999	2.2	167
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	1.92 J	162
	10/25/2005	1.09 J	149
	4/29/2006	0.71 J	136
	11/18/2006	0.8 J	139
	5/23/2007	2.2	168
	11/28/2007	1.54 J	158
	6/5/2008	ND<2	65

	11/20/2008	1.35 J	156
	6/11/2009	1.9	161

Rank Sum = 2867
Rank Mean = 114.68

MW-8	7/20/1995	ND<2	65
	8/24/1995	ND<2	65
	9/28/1995	ND<2	65
	10/26/1995	ND<2	65
	11/19/1996	ND<2	65
	12/19/1996	ND<2	65
	3/24/1997	ND<2	65
	9/24/1997	5.4	190
	4/7/1998	ND<2	65
	9/23/1998	5.6	191
	3/16/1999	3.5	179
	9/23/1999	3.6	180
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	3.22	178
	10/25/2005	4.99	187
	4/29/2006	2.54	171
	11/18/2006	4.03	183
	5/23/2007	3.2	177
	11/28/2007	4.5	185
	6/5/2008	4.07	184
	11/20/2008	2.72	173
	6/11/2009	3.6	181

Rank Sum = 3139
Rank Mean = 125.56

MW-7	7/20/1995	ND<2	65
	8/24/1995	ND<2	65
	9/28/1995	ND<2	65
	10/26/1995	ND<2	65
	11/19/1996	ND<2	65
	12/19/1996	ND<2	65
	3/24/1997	ND<2	65
	9/24/1997	ND<2	65
	4/7/1998	ND<2	65
	9/23/1998	ND<2	65
	3/16/1999	ND<2	65
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	ND<2	65
	10/25/2005	0.51 J	132
	4/29/2006	0.68 J	135
	11/18/2006	0.36 J	130
	5/23/2007	1.2	150
	11/28/2007	0.5 J	131
	6/5/2008	ND<2	65
	11/20/2008	1.02 J	146
	6/11/2009	0.73 J	137

Rank Sum = 2131
Rank Mean = 85.24

MW-6	7/20/1995	ND<2	65

	8/24/1995	ND<2	65
	9/28/1995	ND<2	65
	10/26/1995	ND<2	65
	11/19/1996	ND<2	65
	12/19/1996	ND<2	65
	3/24/1997	ND<2	65
	9/24/1997	ND<2	65
	4/7/1998	ND<2	65
	9/23/1998	ND<2	65
	3/16/1999	ND<2	65
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	ND<2	65
	10/25/2005	ND<2	65
	4/29/2006	ND<2	65
	11/18/2006	ND<2	65
	5/23/2007	1.2	151
	11/28/2007	ND<2	65
	6/5/2008	ND<2	65
	11/20/2008	ND<2	65
	6/11/2009	ND<0.25	65

Rank Sum = 1711
Rank Mean = 68.44

MW-12BR	3/16/1999	3.8	182
	9/23/1999	3	176
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	ND<2	65
	10/25/2005	ND<2	65
	4/29/2006	ND<2	65
	11/18/2006	ND<2	65
	5/23/2007	ND<2	65
	11/28/2007	ND<2	65
	6/5/2008	ND<2	65
	11/20/2008	ND<2	65
	6/11/2009	ND<0.25	65

Rank Sum = 1203
Rank Mean = 80.2

MW-12AR	3/16/1999	ND<2	65
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	ND<2	65
	10/25/2005	1.03 J	147
	4/29/2006	1.04 J	148
	11/18/2006	0.76 J	138
	5/23/2007	ND<2	65
	11/28/2007	0.84 J	141
	6/5/2008	ND<2	65
	11/20/2008	0.53 J	133
	6/11/2009	ND<0.25	65

Rank Sum = 1357
Rank Mean = 90.4667

MW-11R	7/20/1995	2.1	165
	8/24/1995	6.3	193
	9/28/1995	6	192
	10/26/1995	8	194
	11/19/1996	ND<2	65
	12/19/1996	9	195
	3/24/1997	ND<2	65
	9/24/1997	ND<2	65
	4/7/1998	ND<2	65
	9/23/1998	5	188
	3/16/1999	5	189
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	4.58	186
	10/25/2005	1.54 J	159
	4/29/2006	0.83 J	140
	11/18/2006	0.93 J	142
	5/23/2007	2.1	166
	11/28/2007	1.3 J	153
	6/5/2008	ND<2	65
	11/20/2008	ND<2	65
	6/11/2009	0.59 J	134

Rank Sum = 3111
Rank Mean = 124.44

MW-10	7/20/1995	ND<2	65
	8/24/1995	1.2 J	152
	9/28/1995	2	163
	10/26/1995	2	164
	11/19/1996	ND<2	65
	12/19/1996	ND<2	65
	3/24/1997	ND<2	65
	9/24/1997	ND<2	65
	4/7/1998	ND<2	65
	9/23/1998	ND<2	65
	3/16/1999	2.2	169
	9/23/1999	ND<2	65
	3/15/2000	ND<2	65
	9/24/2003	ND<2	65
	3/11/2004	ND<2	65
	10/12/2004	ND<2	65
	4/1/2005	1.8 J	160
	10/25/2005	1.32 J	155
	4/29/2006	1.31 J	154
	11/18/2006	0.96 J	143
	5/23/2007	ND<2	65
	11/28/2007	1.38	157
	6/5/2008	ND<2	65
	11/20/2008	1 J	144
	6/11/2009	1	145

Rank Sum = 2616
Rank Mean = 104.64

Calculation Results:

Kruskal-Wallis H Statistic = 29.004
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 40.822

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
29.004 > 15.5073 indicating a significant group difference at 5% significance level
40.822 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 65

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	114.68	49.68	42.8788	
MW-8	125.56	60.56	42.8788	
MW-7	85.24	20.24	42.8788	
MW-6	68.44	3.44	42.8788	
MW-12BR		80.2	15.2	47.94
MW-12AR		90.4667	25.4667	47.94
MW-11R	124.44	59.44	42.8788	
MW-10	104.64	39.64	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 65

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	114.68	49.68	46.3033	
MW-8	125.56	60.56	46.3033	
MW-7	85.24	20.24	46.3033	
MW-6	68.44	3.44	46.3033	
MW-12BR		80.2	15.2	51.7686
MW-12AR		90.4667	25.4667	51.7686
MW-11R	124.44	59.44	46.3033	
MW-10	104.64	39.64	46.3033	

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-9

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
2.6	2.5	0.1	1	0	
3	2.5	0.5	2	0	
3	2.5	0.5	3	0	
ND<2	2.5	-0.5	3	1	
ND<2	2.5	-0.5	3	2	
ND<2	2.5	-0.5	3	3	
ND<2	2.5	-0.5	3	4	
ND<2	2.5	-0.5	3	5	
ND<2	2.5	-0.5	3	6	
2.2	2.5	-0.3	3	7	
ND<2	2.5	-0.5	3	8	
ND<2	2.5	-0.5	3	9	
ND<2	2.5	-0.5	3	10	
ND<2	2.5	-0.5	3	11	
ND<2	2.5	-0.5	3	12	
1.92 J	2.5	-0.58	3	13	
1.09 J	2.5	-1.41	3	14	
0.71 J	2.5	-1.79	3	15	
0.8 J	2.5	-1.7	3	16	
2.2	2.5	-0.3	3	17	
1.54 J	2.5	-0.96	3	18	
ND<2	2.5	-0.5	3	19	
1.35 J	2.5	-1.15	3	20	
1.9	2.5	-0.6	3	21	
3	2.6	0.4	4	21	
3	2.6	0.4	5	21	
ND<2	2.6	-0.6	5	22	
ND<2	2.6	-0.6	5	23	
ND<2	2.6	-0.6	5	24	
ND<2	2.6	-0.6	5	25	
ND<2	2.6	-0.6	5	26	
ND<2	2.6	-0.6	5	27	
2.2	2.6	-0.4	5	28	
ND<2	2.6	-0.6	5	29	
ND<2	2.6	-0.6	5	30	
ND<2	2.6	-0.6	5	31	
ND<2	2.6	-0.6	5	32	
ND<2	2.6	-0.6	5	33	
1.92 J	2.6	-0.68	5	34	
1.09 J	2.6	-1.51	5	35	
0.71 J	2.6	-1.89	5	36	
0.8 J	2.6	-1.8	5	37	
2.2	2.6	-0.4	5	38	
1.54 J	2.6	-1.06	5	39	
ND<2	2.6	-0.6	5	40	
1.35 J	2.6	-1.25	5	41	
1.9	2.6	-0.7	5	42	

3	3	0	5	42
ND<2	3	-1	5	43
ND<2	3	-1	5	44
ND<2	3	-1	5	45
ND<2	3	-1	5	46
ND<2	3	-1	5	47
ND<2	3	-1	5	48
2.2	3	-0.8	5	49
ND<2	3	-1	5	50
ND<2	3	-1	5	51
ND<2	3	-1	5	52
ND<2	3	-1	5	53
ND<2	3	-1	5	54
1.92 J	3	-1.08	5	55
1.09 J	3	-1.91	5	56
0.71 J	3	-2.29	5	57
0.8 J	3	-2.2	5	58
2.2	3	-0.8	5	59
1.54 J	3	-1.46	5	60
ND<2	3	-1	5	61
1.35 J	3	-1.65	5	62
1.9	3	-1.1	5	63
ND<2	3	-1	5	64
ND<2	3	-1	5	65
ND<2	3	-1	5	66
ND<2	3	-1	5	67
ND<2	3	-1	5	68
ND<2	3	-1	5	69
2.2	3	-0.8	5	70
ND<2	3	-1	5	71
ND<2	3	-1	5	72
ND<2	3	-1	5	73
ND<2	3	-1	5	74
ND<2	3	-1	5	75
1.92 J	3	-1.08	5	76
1.09 J	3	-1.91	5	77
0.71 J	3	-2.29	5	78
0.8 J	3	-2.2	5	79
2.2	3	-0.8	5	80
1.54 J	3	-1.46	5	81
ND<2	3	-1	5	82
1.35 J	3	-1.65	5	83
1.9	3	-1.1	5	84
ND<2	ND<2	0	5	84
ND<2	ND<2	0	5	84
ND<2	ND<2	0	5	84
ND<2	ND<2	0	5	84
ND<2	ND<2	0	5	84
2.2	ND<2	0.2	6	84
ND<2	ND<2	0	6	84
ND<2	ND<2	0	6	84
ND<2	ND<2	0	6	84
ND<2	ND<2	0	6	84
ND<2	ND<2	0	6	84
1.92 J	ND<2	-0.08	6	85
1.09 J	ND<2	-0.91	6	86
0.71 J	ND<2	-1.29	6	87
0.8 J	ND<2	-1.2	6	88
2.2	ND<2	0.2	7	88

1.54 J	ND<2	-0.46	7	89
ND<2	ND<2	0	7	89
1.35 J	ND<2	-0.65	7	90
1.9	ND<2	-0.1	7	91
ND<2	ND<2	0	7	91
ND<2	ND<2	0	7	91
ND<2	ND<2	0	7	91
ND<2	ND<2	0	7	91
2.2	ND<2	0.2	8	91
ND<2	ND<2	0	8	91
ND<2	ND<2	0	8	91
ND<2	ND<2	0	8	91
ND<2	ND<2	0	8	91
ND<2	ND<2	0	8	91
1.92 J	ND<2	-0.08	8	92
1.09 J	ND<2	-0.91	8	93
0.71 J	ND<2	-1.29	8	94
0.8 J	ND<2	-1.2	8	95
2.2	ND<2	0.2	9	95
1.54 J	ND<2	-0.46	9	96
ND<2	ND<2	0	9	96
1.35 J	ND<2	-0.65	9	97
1.9	ND<2	-0.1	9	98
ND<2	ND<2	0	9	98
ND<2	ND<2	0	9	98
ND<2	ND<2	0	9	98
2.2	ND<2	0.2	10	98
ND<2	ND<2	0	10	98
ND<2	ND<2	0	10	98
ND<2	ND<2	0	10	98
ND<2	ND<2	0	10	98
ND<2	ND<2	0	10	98
1.92 J	ND<2	-0.08	10	99
1.09 J	ND<2	-0.91	10	100
0.71 J	ND<2	-1.29	10	101
0.8 J	ND<2	-1.2	10	102
2.2	ND<2	0.2	11	102
1.54 J	ND<2	-0.46	11	103
ND<2	ND<2	0	11	103
1.35 J	ND<2	-0.65	11	104
1.9	ND<2	-0.1	11	105
ND<2	ND<2	0	11	105
ND<2	ND<2	0	11	105
2.2	ND<2	0.2	12	105
ND<2	ND<2	0	12	105
ND<2	ND<2	0	12	105
ND<2	ND<2	0	12	105
ND<2	ND<2	0	12	105
ND<2	ND<2	0	12	105
1.92 J	ND<2	-0.08	12	106
1.09 J	ND<2	-0.91	12	107
0.71 J	ND<2	-1.29	12	108
0.8 J	ND<2	-1.2	12	109
2.2	ND<2	0.2	13	109
1.54 J	ND<2	-0.46	13	110
ND<2	ND<2	0	13	110
1.35 J	ND<2	-0.65	13	111
1.9	ND<2	-0.1	13	112

ND<2	ND<2	0	13	112
2.2	ND<2	0.2	14	112
ND<2	ND<2	0	14	112
ND<2	ND<2	0	14	112
ND<2	ND<2	0	14	112
ND<2	ND<2	0	14	112
ND<2	ND<2	0	14	112
1.92 J	ND<2	-0.08	14	113
1.09 J	ND<2	-0.91	14	114
0.71 J	ND<2	-1.29	14	115
0.8 J	ND<2	-1.2	14	116
2.2	ND<2	0.2	15	116
1.54 J	ND<2	-0.46	15	117
ND<2	ND<2	0	15	117
1.35 J	ND<2	-0.65	15	118
1.9	ND<2	-0.1	15	119
2.2	ND<2	0.2	16	119
ND<2	ND<2	0	16	119
ND<2	ND<2	0	16	119
ND<2	ND<2	0	16	119
ND<2	ND<2	0	16	119
ND<2	ND<2	0	16	119
1.92 J	ND<2	-0.08	16	120
1.09 J	ND<2	-0.91	16	121
0.71 J	ND<2	-1.29	16	122
0.8 J	ND<2	-1.2	16	123
2.2	ND<2	0.2	17	123
1.54 J	ND<2	-0.46	17	124
ND<2	ND<2	0	17	124
1.35 J	ND<2	-0.65	17	125
1.9	ND<2	-0.1	17	126
ND<2	2.2	-0.2	17	127
ND<2	2.2	-0.2	17	128
ND<2	2.2	-0.2	17	129
ND<2	2.2	-0.2	17	130
ND<2	2.2	-0.2	17	131
1.92 J	2.2	-0.28	17	132
1.09 J	2.2	-1.11	17	133
0.71 J	2.2	-1.49	17	134
0.8 J	2.2	-1.4	17	135
2.2	2.2	0	17	135
1.54 J	2.2	-0.66	17	136
ND<2	2.2	-0.2	17	137
1.35 J	2.2	-0.85	17	138
1.9	2.2	-0.3	17	139
ND<2	ND<2	0	17	139
ND<2	ND<2	0	17	139
ND<2	ND<2	0	17	139
ND<2	ND<2	0	17	139
1.92 J	ND<2	-0.08	17	140
1.09 J	ND<2	-0.91	17	141
0.71 J	ND<2	-1.29	17	142
0.8 J	ND<2	-1.2	17	143
2.2	ND<2	0.2	18	143
1.54 J	ND<2	-0.46	18	144
ND<2	ND<2	0	18	144
1.35 J	ND<2	-0.65	18	145
1.9	ND<2	-0.1	18	146

ND<2	ND<2	0	18	146
ND<2	ND<2	0	18	146
ND<2	ND<2	0	18	146
1.92 J	ND<2	-0.08	18	147
1.09 J	ND<2	-0.91	18	148
0.71 J	ND<2	-1.29	18	149
0.8 J	ND<2	-1.2	18	150
2.2	ND<2	0.2	19	150
1.54 J	ND<2	-0.46	19	151
ND<2	ND<2	0	19	151
1.35 J	ND<2	-0.65	19	152
1.9	ND<2	-0.1	19	153
ND<2	ND<2	0	19	153
ND<2	ND<2	0	19	153
1.92 J	ND<2	-0.08	19	154
1.09 J	ND<2	-0.91	19	155
0.71 J	ND<2	-1.29	19	156
0.8 J	ND<2	-1.2	19	157
2.2	ND<2	0.2	20	157
1.54 J	ND<2	-0.46	20	158
ND<2	ND<2	0	20	158
1.35 J	ND<2	-0.65	20	159
1.9	ND<2	-0.1	20	160
ND<2	ND<2	0	20	160
1.92 J	ND<2	-0.08	20	161
1.09 J	ND<2	-0.91	20	162
0.71 J	ND<2	-1.29	20	163
0.8 J	ND<2	-1.2	20	164
2.2	ND<2	0.2	21	164
1.54 J	ND<2	-0.46	21	165
ND<2	ND<2	0	21	165
1.35 J	ND<2	-0.65	21	166
1.9	ND<2	-0.1	21	167
1.92 J	ND<2	-0.08	21	168
1.09 J	ND<2	-0.91	21	169
0.71 J	ND<2	-1.29	21	170
0.8 J	ND<2	-1.2	21	171
2.2	ND<2	0.2	22	171
1.54 J	ND<2	-0.46	22	172
ND<2	ND<2	0	22	172
1.35 J	ND<2	-0.65	22	173
1.9	ND<2	-0.1	22	174
1.09 J	1.92 J	-0.83	22	175
0.71 J	1.92 J	-1.21	22	176
0.8 J	1.92 J	-1.12	22	177
2.2	1.92 J	0.28	23	177
1.54 J	1.92 J	-0.38	23	178
ND<2	1.92 J	0.08	24	178
1.35 J	1.92 J	-0.57	24	179
1.9	1.92 J	-0.02	24	180
0.71 J	1.09 J	-0.38	24	181
0.8 J	1.09 J	-0.29	24	182
2.2	1.09 J	1.11	25	182
1.54 J	1.09 J	0.45	26	182
ND<2	1.09 J	0.91	27	182
1.35 J	1.09 J	0.26	28	182
1.9	1.09 J	0.81	29	182

0.8 J	0.71 J	0.09	30	182
2.2	0.71 J	1.49	31	182
1.54 J	0.71 J	0.83	32	182
ND<2	0.71 J	1.29	33	182
1.35 J	0.71 J	0.64	34	182
1.9	0.71 J	1.19	35	182
2.2	0.8 J	1.4	36	182
1.54 J	0.8 J	0.74	37	182
ND<2	0.8 J	1.2	38	182
1.35 J	0.8 J	0.55	39	182
1.9	0.8 J	1.1	40	182
1.54 J	2.2	-0.66	40	183
ND<2	2.2	-0.2	40	184
1.35 J	2.2	-0.85	40	185
1.9	2.2	-0.3	40	186
ND<2	1.54 J	0.46	41	186
1.35 J	1.54 J	-0.19	41	187
1.9	1.54 J	0.36	42	187
1.35 J	ND<2	-0.65	42	188
1.9	ND<2	-0.1	42	189
1.9	1.35 J	0.55	43	189

S Statistic = 43 - 189 = -146

Tied Group	Value	Members
1	3	2
2	2	12
3	2.2	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	

11/20/2008	1
6/11/2009	1

There are 0 time periods with multiple data

A = 3864
B = 0
C = 1320
D = 0
E = 136
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1618.67
Z-Score = -3.60404
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.60404 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
5.4	ND<2	3.4	1	0	
ND<2	ND<2	0	1	0	
5.6	ND<2	3.6	2	0	
3.5	ND<2	1.5	3	0	
3.6	ND<2	1.6	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
3.22	ND<2	1.22	5	0	
4.99	ND<2	2.99	6	0	
2.54	ND<2	0.54	7	0	
4.03	ND<2	2.03	8	0	
3.2	ND<2	1.2	9	0	
4.5	ND<2	2.5	10	0	
4.07	ND<2	2.07	11	0	
2.72	ND<2	0.72	12	0	
3.6	ND<2	1.6	13	0	
ND<2	ND<2	0	13	0	
ND<2	ND<2	0	13	0	
ND<2	ND<2	0	13	0	
ND<2	ND<2	0	13	0	
ND<2	ND<2	0	13	0	
5.4	ND<2	3.4	14	0	
ND<2	ND<2	0	14	0	
5.6	ND<2	3.6	15	0	
3.5	ND<2	1.5	16	0	
3.6	ND<2	1.6	17	0	
ND<2	ND<2	0	17	0	
ND<2	ND<2	0	17	0	
ND<2	ND<2	0	17	0	
ND<2	ND<2	0	17	0	
3.22	ND<2	1.22	18	0	
4.99	ND<2	2.99	19	0	
2.54	ND<2	0.54	20	0	
4.03	ND<2	2.03	21	0	
3.2	ND<2	1.2	22	0	
4.5	ND<2	2.5	23	0	
4.07	ND<2	2.07	24	0	
2.72	ND<2	0.72	25	0	
3.6	ND<2	1.6	26	0	

ND<2	ND<2	0	26	0
ND<2	ND<2	0	26	0
ND<2	ND<2	0	26	0
ND<2	ND<2	0	26	0
5.4	ND<2	3.4	27	0
ND<2	ND<2	0	27	0
5.6	ND<2	3.6	28	0
3.5	ND<2	1.5	29	0
3.6	ND<2	1.6	30	0
ND<2	ND<2	0	30	0
ND<2	ND<2	0	30	0
ND<2	ND<2	0	30	0
ND<2	ND<2	0	30	0
3.22	ND<2	1.22	31	0
4.99	ND<2	2.99	32	0
2.54	ND<2	0.54	33	0
4.03	ND<2	2.03	34	0
3.2	ND<2	1.2	35	0
4.5	ND<2	2.5	36	0
4.07	ND<2	2.07	37	0
2.72	ND<2	0.72	38	0
3.6	ND<2	1.6	39	0
ND<2	ND<2	0	39	0
ND<2	ND<2	0	39	0
ND<2	ND<2	0	39	0
5.4	ND<2	3.4	40	0
ND<2	ND<2	0	40	0
5.6	ND<2	3.6	41	0
3.5	ND<2	1.5	42	0
3.6	ND<2	1.6	43	0
ND<2	ND<2	0	43	0
ND<2	ND<2	0	43	0
ND<2	ND<2	0	43	0
ND<2	ND<2	0	43	0
3.22	ND<2	1.22	44	0
4.99	ND<2	2.99	45	0
2.54	ND<2	0.54	46	0
4.03	ND<2	2.03	47	0
3.2	ND<2	1.2	48	0
4.5	ND<2	2.5	49	0
4.07	ND<2	2.07	50	0
2.72	ND<2	0.72	51	0
3.6	ND<2	1.6	52	0
ND<2	ND<2	0	52	0
ND<2	ND<2	0	52	0
5.4	ND<2	3.4	53	0
ND<2	ND<2	0	53	0
5.6	ND<2	3.6	54	0
3.5	ND<2	1.5	55	0
3.6	ND<2	1.6	56	0
ND<2	ND<2	0	56	0
ND<2	ND<2	0	56	0
ND<2	ND<2	0	56	0
ND<2	ND<2	0	56	0
3.22	ND<2	1.22	57	0
4.99	ND<2	2.99	58	0
2.54	ND<2	0.54	59	0
4.03	ND<2	2.03	60	0
3.2	ND<2	1.2	61	0

4.5	ND<2	2.5	62	0
4.07	ND<2	2.07	63	0
2.72	ND<2	0.72	64	0
3.6	ND<2	1.6	65	0
ND<2	ND<2	0	65	0
5.4	ND<2	3.4	66	0
ND<2	ND<2	0	66	0
5.6	ND<2	3.6	67	0
3.5	ND<2	1.5	68	0
3.6	ND<2	1.6	69	0
ND<2	ND<2	0	69	0
ND<2	ND<2	0	69	0
ND<2	ND<2	0	69	0
ND<2	ND<2	0	69	0
3.22	ND<2	1.22	70	0
4.99	ND<2	2.99	71	0
2.54	ND<2	0.54	72	0
4.03	ND<2	2.03	73	0
3.2	ND<2	1.2	74	0
4.5	ND<2	2.5	75	0
4.07	ND<2	2.07	76	0
2.72	ND<2	0.72	77	0
3.6	ND<2	1.6	78	0
5.4	ND<2	3.4	79	0
ND<2	ND<2	0	79	0
5.6	ND<2	3.6	80	0
3.5	ND<2	1.5	81	0
3.6	ND<2	1.6	82	0
ND<2	ND<2	0	82	0
ND<2	ND<2	0	82	0
ND<2	ND<2	0	82	0
ND<2	ND<2	0	82	0
3.22	ND<2	1.22	83	0
4.99	ND<2	2.99	84	0
2.54	ND<2	0.54	85	0
4.03	ND<2	2.03	86	0
3.2	ND<2	1.2	87	0
4.5	ND<2	2.5	88	0
4.07	ND<2	2.07	89	0
2.72	ND<2	0.72	90	0
3.6	ND<2	1.6	91	0
ND<2	5.4	-3.4	91	1
5.6	5.4	0.2	92	1
3.5	5.4	-1.9	92	2
3.6	5.4	-1.8	92	3
ND<2	5.4	-3.4	92	4
ND<2	5.4	-3.4	92	5
ND<2	5.4	-3.4	92	6
ND<2	5.4	-3.4	92	7
3.22	5.4	-2.18	92	8
4.99	5.4	-0.41	92	9
2.54	5.4	-2.86	92	10
4.03	5.4	-1.37	92	11
3.2	5.4	-2.2	92	12
4.5	5.4	-0.9	92	13
4.07	5.4	-1.33	92	14
2.72	5.4	-2.68	92	15
3.6	5.4	-1.8	92	16

5.6	ND<2	3.6	93	16
3.5	ND<2	1.5	94	16
3.6	ND<2	1.6	95	16
ND<2	ND<2	0	95	16
ND<2	ND<2	0	95	16
ND<2	ND<2	0	95	16
ND<2	ND<2	0	95	16
3.22	ND<2	1.22	96	16
4.99	ND<2	2.99	97	16
2.54	ND<2	0.54	98	16
4.03	ND<2	2.03	99	16
3.2	ND<2	1.2	100	16
4.5	ND<2	2.5	101	16
4.07	ND<2	2.07	102	16
2.72	ND<2	0.72	103	16
3.6	ND<2	1.6	104	16
3.5	5.6	-2.1	104	17
3.6	5.6	-2	104	18
ND<2	5.6	-3.6	104	19
ND<2	5.6	-3.6	104	20
ND<2	5.6	-3.6	104	21
ND<2	5.6	-3.6	104	22
3.22	5.6	-2.38	104	23
4.99	5.6	-0.61	104	24
2.54	5.6	-3.06	104	25
4.03	5.6	-1.57	104	26
3.2	5.6	-2.4	104	27
4.5	5.6	-1.1	104	28
4.07	5.6	-1.53	104	29
2.72	5.6	-2.88	104	30
3.6	5.6	-2	104	31
3.6	3.5	0.1	105	31
ND<2	3.5	-1.5	105	32
ND<2	3.5	-1.5	105	33
ND<2	3.5	-1.5	105	34
ND<2	3.5	-1.5	105	35
3.22	3.5	-0.28	105	36
4.99	3.5	1.49	106	36
2.54	3.5	-0.96	106	37
4.03	3.5	0.53	107	37
3.2	3.5	-0.3	107	38
4.5	3.5	1	108	38
4.07	3.5	0.57	109	38
2.72	3.5	-0.78	109	39
3.6	3.5	0.1	110	39
ND<2	3.6	-1.6	110	40
ND<2	3.6	-1.6	110	41
ND<2	3.6	-1.6	110	42
ND<2	3.6	-1.6	110	43
3.22	3.6	-0.38	110	44
4.99	3.6	1.39	111	44
2.54	3.6	-1.06	111	45
4.03	3.6	0.43	112	45
3.2	3.6	-0.4	112	46
4.5	3.6	0.9	113	46
4.07	3.6	0.47	114	46
2.72	3.6	-0.88	114	47
3.6	3.6	0	114	47

ND<2	ND<2	0	114	47
ND<2	ND<2	0	114	47
ND<2	ND<2	0	114	47
3.22	ND<2	1.22	115	47
4.99	ND<2	2.99	116	47
2.54	ND<2	0.54	117	47
4.03	ND<2	2.03	118	47
3.2	ND<2	1.2	119	47
4.5	ND<2	2.5	120	47
4.07	ND<2	2.07	121	47
2.72	ND<2	0.72	122	47
3.6	ND<2	1.6	123	47
ND<2	ND<2	0	123	47
ND<2	ND<2	0	123	47
3.22	ND<2	1.22	124	47
4.99	ND<2	2.99	125	47
2.54	ND<2	0.54	126	47
4.03	ND<2	2.03	127	47
3.2	ND<2	1.2	128	47
4.5	ND<2	2.5	129	47
4.07	ND<2	2.07	130	47
2.72	ND<2	0.72	131	47
3.6	ND<2	1.6	132	47
ND<2	ND<2	0	132	47
3.22	ND<2	1.22	133	47
4.99	ND<2	2.99	134	47
2.54	ND<2	0.54	135	47
4.03	ND<2	2.03	136	47
3.2	ND<2	1.2	137	47
4.5	ND<2	2.5	138	47
4.07	ND<2	2.07	139	47
2.72	ND<2	0.72	140	47
3.6	ND<2	1.6	141	47
3.22	ND<2	1.22	142	47
4.99	ND<2	2.99	143	47
2.54	ND<2	0.54	144	47
4.03	ND<2	2.03	145	47
3.2	ND<2	1.2	146	47
4.5	ND<2	2.5	147	47
4.07	ND<2	2.07	148	47
2.72	ND<2	0.72	149	47
3.6	ND<2	1.6	150	47
4.99	3.22	1.77	151	47
2.54	3.22	-0.68	151	48
4.03	3.22	0.81	152	48
3.2	3.22	-0.02	152	49
4.5	3.22	1.28	153	49
4.07	3.22	0.85	154	49
2.72	3.22	-0.5	154	50
3.6	3.22	0.38	155	50
2.54	4.99	-2.45	155	51
4.03	4.99	-0.96	155	52
3.2	4.99	-1.79	155	53
4.5	4.99	-0.49	155	54
4.07	4.99	-0.92	155	55
2.72	4.99	-2.27	155	56
3.6	4.99	-1.39	155	57

4.03	2.54	1.49	156	57
3.2	2.54	0.66	157	57
4.5	2.54	1.96	158	57
4.07	2.54	1.53	159	57
2.72	2.54	0.18	160	57
3.6	2.54	1.06	161	57
3.2	4.03	-0.83	161	58
4.5	4.03	0.47	162	58
4.07	4.03	0.04	163	58
2.72	4.03	-1.31	163	59
3.6	4.03	-0.43	163	60
4.5	3.2	1.3	164	60
4.07	3.2	0.87	165	60
2.72	3.2	-0.48	165	61
3.6	3.2	0.4	166	61
4.07	4.5	-0.43	166	62
2.72	4.5	-1.78	166	63
3.6	4.5	-0.9	166	64
2.72	4.07	-1.35	166	65
3.6	4.07	-0.47	166	66
3.6	2.72	0.88	167	66

S Statistic = 167 - 66 = 101

Tied Group	Value	Members
1	2	12
2	3.6	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 3846
B = 0
C = 1320
D = 0
E = 134
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1619.67
Z-Score = 2.48478
Comparison Level at 95% confidence level = 1.65463 (upward trend)
2.48478 > 1.65463 indicating an upward trend

Mann-Kendall Trend Analysis

Parameter: Benzene

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
6.3	2.1	4.2	1	0	
6	2.1	3.9	2	0	
8	2.1	5.9	3	0	
ND<2	2.1	-0.1	3	1	
9	2.1	6.9	4	1	
ND<2	2.1	-0.1	4	2	
ND<2	2.1	-0.1	4	3	
ND<2	2.1	-0.1	4	4	
5	2.1	2.9	5	4	
5	2.1	2.9	6	4	
ND<2	2.1	-0.1	6	5	
ND<2	2.1	-0.1	6	6	
ND<2	2.1	-0.1	6	7	
ND<2	2.1	-0.1	6	8	
ND<2	2.1	-0.1	6	9	
4.58	2.1	2.48	7	9	
1.54 J	2.1	-0.56	7	10	
0.83 J	2.1	-1.27	7	11	
0.93 J	2.1	-1.17	7	12	
2.1	2.1	0	7	12	
1.3 J	2.1	-0.8	7	13	
ND<2	2.1	-0.1	7	14	
ND<2	2.1	-0.1	7	15	
0.59 J	2.1	-1.51	7	16	
6	6.3	-0.3	7	17	
8	6.3	1.7	8	17	
ND<2	6.3	-4.3	8	18	
9	6.3	2.7	9	18	
ND<2	6.3	-4.3	9	19	
ND<2	6.3	-4.3	9	20	
ND<2	6.3	-4.3	9	21	
5	6.3	-1.3	9	22	
5	6.3	-1.3	9	23	
ND<2	6.3	-4.3	9	24	
ND<2	6.3	-4.3	9	25	
ND<2	6.3	-4.3	9	26	
ND<2	6.3	-4.3	9	27	
ND<2	6.3	-4.3	9	28	
4.58	6.3	-1.72	9	29	
1.54 J	6.3	-4.76	9	30	
0.83 J	6.3	-5.47	9	31	
0.93 J	6.3	-5.37	9	32	
2.1	6.3	-4.2	9	33	
1.3 J	6.3	-5	9	34	
ND<2	6.3	-4.3	9	35	
ND<2	6.3	-4.3	9	36	
0.59 J	6.3	-5.71	9	37	

8	6	2	10	37
ND<2	6	-4	10	38
9	6	3	11	38
ND<2	6	-4	11	39
ND<2	6	-4	11	40
ND<2	6	-4	11	41
5	6	-1	11	42
5	6	-1	11	43
ND<2	6	-4	11	44
ND<2	6	-4	11	45
ND<2	6	-4	11	46
ND<2	6	-4	11	47
ND<2	6	-4	11	48
4.58	6	-1.42	11	49
1.54 J	6	-4.46	11	50
0.83 J	6	-5.17	11	51
0.93 J	6	-5.07	11	52
2.1	6	-3.9	11	53
1.3 J	6	-4.7	11	54
ND<2	6	-4	11	55
ND<2	6	-4	11	56
0.59 J	6	-5.41	11	57
ND<2	8	-6	11	58
9	8	1	12	58
ND<2	8	-6	12	59
ND<2	8	-6	12	60
ND<2	8	-6	12	61
5	8	-3	12	62
5	8	-3	12	63
ND<2	8	-6	12	64
ND<2	8	-6	12	65
ND<2	8	-6	12	66
ND<2	8	-6	12	67
ND<2	8	-6	12	68
4.58	8	-3.42	12	69
1.54 J	8	-6.46	12	70
0.83 J	8	-7.17	12	71
0.93 J	8	-7.07	12	72
2.1	8	-5.9	12	73
1.3 J	8	-6.7	12	74
ND<2	8	-6	12	75
ND<2	8	-6	12	76
0.59 J	8	-7.41	12	77
9	ND<2	7	13	77
ND<2	ND<2	0	13	77
ND<2	ND<2	0	13	77
ND<2	ND<2	0	13	77
5	ND<2	3	14	77
5	ND<2	3	15	77
ND<2	ND<2	0	15	77
ND<2	ND<2	0	15	77
ND<2	ND<2	0	15	77
ND<2	ND<2	0	15	77
ND<2	ND<2	0	15	77
4.58	ND<2	2.58	16	77
1.54 J	ND<2	-0.46	16	78
0.83 J	ND<2	-1.17	16	79
0.93 J	ND<2	-1.07	16	80
2.1	ND<2	0.1	17	80

1.3 J	ND<2	-0.7	17	81
ND<2	ND<2	0	17	81
ND<2	ND<2	0	17	81
0.59 J	ND<2	-1.41	17	82
ND<2	9	-7	17	83
ND<2	9	-7	17	84
ND<2	9	-7	17	85
5	9	-4	17	86
5	9	-4	17	87
ND<2	9	-7	17	88
ND<2	9	-7	17	89
ND<2	9	-7	17	90
ND<2	9	-7	17	91
ND<2	9	-7	17	92
4.58	9	-4.42	17	93
1.54 J	9	-7.46	17	94
0.83 J	9	-8.17	17	95
0.93 J	9	-8.07	17	96
2.1	9	-6.9	17	97
1.3 J	9	-7.7	17	98
ND<2	9	-7	17	99
ND<2	9	-7	17	100
0.59 J	9	-8.41	17	101
ND<2	ND<2	0	17	101
ND<2	ND<2	0	17	101
5	ND<2	3	18	101
5	ND<2	3	19	101
ND<2	ND<2	0	19	101
ND<2	ND<2	0	19	101
ND<2	ND<2	0	19	101
ND<2	ND<2	0	19	101
ND<2	ND<2	0	19	101
4.58	ND<2	2.58	20	101
1.54 J	ND<2	-0.46	20	102
0.83 J	ND<2	-1.17	20	103
0.93 J	ND<2	-1.07	20	104
2.1	ND<2	0.1	21	104
1.3 J	ND<2	-0.7	21	105
ND<2	ND<2	0	21	105
ND<2	ND<2	0	21	105
0.59 J	ND<2	-1.41	21	106
ND<2	ND<2	0	21	106
5	ND<2	3	22	106
5	ND<2	3	23	106
ND<2	ND<2	0	23	106
ND<2	ND<2	0	23	106
ND<2	ND<2	0	23	106
ND<2	ND<2	0	23	106
ND<2	ND<2	0	23	106
4.58	ND<2	2.58	24	106
1.54 J	ND<2	-0.46	24	107
0.83 J	ND<2	-1.17	24	108
0.93 J	ND<2	-1.07	24	109
2.1	ND<2	0.1	25	109
1.3 J	ND<2	-0.7	25	110
ND<2	ND<2	0	25	110
ND<2	ND<2	0	25	110
0.59 J	ND<2	-1.41	25	111

5	ND<2	3	26	111
5	ND<2	3	27	111
ND<2	ND<2	0	27	111
ND<2	ND<2	0	27	111
ND<2	ND<2	0	27	111
ND<2	ND<2	0	27	111
ND<2	ND<2	0	27	111
4.58	ND<2	2.58	28	111
1.54 J	ND<2	-0.46	28	112
0.83 J	ND<2	-1.17	28	113
0.93 J	ND<2	-1.07	28	114
2.1	ND<2	0.1	29	114
1.3 J	ND<2	-0.7	29	115
ND<2	ND<2	0	29	115
ND<2	ND<2	0	29	115
0.59 J	ND<2	-1.41	29	116
5	5	0	29	116
ND<2	5	-3	29	117
ND<2	5	-3	29	118
ND<2	5	-3	29	119
ND<2	5	-3	29	120
ND<2	5	-3	29	121
4.58	5	-0.42	29	122
1.54 J	5	-3.46	29	123
0.83 J	5	-4.17	29	124
0.93 J	5	-4.07	29	125
2.1	5	-2.9	29	126
1.3 J	5	-3.7	29	127
ND<2	5	-3	29	128
ND<2	5	-3	29	129
0.59 J	5	-4.41	29	130
ND<2	5	-3	29	131
ND<2	5	-3	29	132
ND<2	5	-3	29	133
ND<2	5	-3	29	134
ND<2	5	-3	29	135
4.58	5	-0.42	29	136
1.54 J	5	-3.46	29	137
0.83 J	5	-4.17	29	138
0.93 J	5	-4.07	29	139
2.1	5	-2.9	29	140
1.3 J	5	-3.7	29	141
ND<2	5	-3	29	142
ND<2	5	-3	29	143
0.59 J	5	-4.41	29	144
ND<2	ND<2	0	29	144
ND<2	ND<2	0	29	144
ND<2	ND<2	0	29	144
ND<2	ND<2	0	29	144
4.58	ND<2	2.58	30	144
1.54 J	ND<2	-0.46	30	145
0.83 J	ND<2	-1.17	30	146
0.93 J	ND<2	-1.07	30	147
2.1	ND<2	0.1	31	147
1.3 J	ND<2	-0.7	31	148
ND<2	ND<2	0	31	148
ND<2	ND<2	0	31	148
0.59 J	ND<2	-1.41	31	149

ND<2	ND<2	0	31	149
ND<2	ND<2	0	31	149
ND<2	ND<2	0	31	149
4.58	ND<2	2.58	32	149
1.54 J	ND<2	-0.46	32	150
0.83 J	ND<2	-1.17	32	151
0.93 J	ND<2	-1.07	32	152
2.1	ND<2	0.1	33	152
1.3 J	ND<2	-0.7	33	153
ND<2	ND<2	0	33	153
ND<2	ND<2	0	33	153
0.59 J	ND<2	-1.41	33	154
ND<2	ND<2	0	33	154
ND<2	ND<2	0	33	154
4.58	ND<2	2.58	34	154
1.54 J	ND<2	-0.46	34	155
0.83 J	ND<2	-1.17	34	156
0.93 J	ND<2	-1.07	34	157
2.1	ND<2	0.1	35	157
1.3 J	ND<2	-0.7	35	158
ND<2	ND<2	0	35	158
ND<2	ND<2	0	35	158
0.59 J	ND<2	-1.41	35	159
ND<2	ND<2	0	35	159
4.58	ND<2	2.58	36	159
1.54 J	ND<2	-0.46	36	160
0.83 J	ND<2	-1.17	36	161
0.93 J	ND<2	-1.07	36	162
2.1	ND<2	0.1	37	162
1.3 J	ND<2	-0.7	37	163
ND<2	ND<2	0	37	163
ND<2	ND<2	0	37	163
0.59 J	ND<2	-1.41	37	164
4.58	ND<2	2.58	38	164
1.54 J	ND<2	-0.46	38	165
0.83 J	ND<2	-1.17	38	166
0.93 J	ND<2	-1.07	38	167
2.1	ND<2	0.1	39	167
1.3 J	ND<2	-0.7	39	168
ND<2	ND<2	0	39	168
ND<2	ND<2	0	39	168
0.59 J	ND<2	-1.41	39	169
1.54 J	4.58	-3.04	39	170
0.83 J	4.58	-3.75	39	171
0.93 J	4.58	-3.65	39	172
2.1	4.58	-2.48	39	173
1.3 J	4.58	-3.28	39	174
ND<2	4.58	-2.58	39	175
ND<2	4.58	-2.58	39	176
0.59 J	4.58	-3.99	39	177
0.83 J	1.54 J	-0.71	39	178
0.93 J	1.54 J	-0.61	39	179
2.1	1.54 J	0.56	40	179
1.3 J	1.54 J	-0.24	40	180
ND<2	1.54 J	0.46	41	180
ND<2	1.54 J	0.46	42	180
0.59 J	1.54 J	-0.95	42	181

0.93 J	0.83 J	0.1	43	181
2.1	0.83 J	1.27	44	181
1.3 J	0.83 J	0.47	45	181
ND<2	0.83 J	1.17	46	181
ND<2	0.83 J	1.17	47	181
0.59 J	0.83 J	-0.24	47	182
2.1	0.93 J	1.17	48	182
1.3 J	0.93 J	0.37	49	182
ND<2	0.93 J	1.07	50	182
ND<2	0.93 J	1.07	51	182
0.59 J	0.93 J	-0.34	51	183
1.3 J	2.1	-0.8	51	184
ND<2	2.1	-0.1	51	185
ND<2	2.1	-0.1	51	186
0.59 J	2.1	-1.51	51	187
ND<2	1.3 J	0.7	52	187
ND<2	1.3 J	0.7	53	187
0.59 J	1.3 J	-0.71	53	188
ND<2	ND<2	0	53	188
0.59 J	ND<2	-1.41	53	189
0.59 J	ND<2	-1.41	53	190

S Statistic = 53 - 190 = -137

Tied Group	Value	Members
1	2.1	2
2	2	11
3	5	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	

11/20/2008	1
6/11/2009	1

There are 0 time periods with multiple data

A = 3006
B = 0
C = 990
D = 0
E = 114
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1666.33
Z-Score = -3.33164
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.33164 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Benzo[a]pyrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 193
Percent Non-Detects: 98.9744%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.51		ND<0.51
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.52		ND<0.52	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.6 J B	1.6 J B		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	0.62 J B	0.62 J B		
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Benzo[a]pyrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.9744%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.52	FALSE
MW-8	6/11/2009	1	0.51	FALSE
MW-7	6/11/2009	1	0.5	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	1.6	FALSE
MW-12AR	6/11/2009	1	0.62	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: Benzo[b]fluoranthene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 194
Percent Non-Detects: 99.4872%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.7	ND<0.7

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.7	ND<0.7

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.68		ND<0.68
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.67		ND<0.67
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.7	ND<0.7		
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.3 J B	1.3 J B		
MW-12AR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.68		ND<0.68	
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.67		ND<0.67
MW-10	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.7	ND<0.7	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Benzo[b]fluoranthene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4872%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.7	FALSE
MW-8	6/11/2009	1	0.68	FALSE
MW-7	6/11/2009	1	0.67	FALSE
MW-6	6/11/2009	1	0.7	FALSE
MW-12BR	6/11/2009	1	1.3	FALSE
MW-12AR	6/11/2009	1	0.68	FALSE
MW-11R	6/11/2009	1	0.67	FALSE
MW-10	6/11/2009	1	0.7	FALSE

Concentrations (ppb)

Parameter: Benzo[g,h,i]perylene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 191
Percent Non-Detects: 97.9487%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.7	ND<0.7

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.7	ND<0.7

MW-8	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	0.97 J B	0.97 J B	
MW-7	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	0.72 J B	0.72 J B	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.7	ND<0.7		
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.6 J B	1.6 J B		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.2 J B	1.2 J B		
MW-11R	25	25 (100%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998 ND<10	ND<10			
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.67		ND<0.67
MW-10	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.7	ND<0.7	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Benzo[g,h,i]perylene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.9487%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.7	FALSE
MW-8	6/11/2009	1	0.97	FALSE
MW-7	6/11/2009	1	0.72	FALSE
MW-6	6/11/2009	1	0.7	FALSE
MW-12BR	6/11/2009	1	1.6	FALSE
MW-12AR	6/11/2009	1	1.2	FALSE
MW-11R	6/11/2009	1	0.67	FALSE
MW-10	6/11/2009	1	0.7	FALSE

Concentrations (ppb)

Parameter: Benzo[k]fluoranthene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 194
Percent Non-Detects: 99.4872%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.51		ND<0.51
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.52		ND<0.52	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.2 J B	1.2 J B		
MW-12AR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.51		ND<0.51	
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Benzo[k]fluoranthene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 99.4872%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.52	FALSE
MW-8	6/11/2009	1	0.51	FALSE
MW-7	6/11/2009	1	0.5	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	1.2	FALSE
MW-12AR	6/11/2009	1	0.51	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: Beryllium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 188
Percent Non-Detects: 96.4103%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original	
MW-13	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
			9/23/1999	ND<10	ND<10	
			3/15/2000	2 J	2 J	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.07		ND<0.07

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original	
MW-9	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	41	41	
			6/11/2009	ND<0.07		ND<0.07

MW-8	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	46	46	
			6/11/2009	ND<0.07		ND<0.07
MW-7	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	44	44	
			6/11/2009	ND<0.07		ND<0.07
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.07		ND<0.07	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	0.36	0.36		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	0.13 J	0.13 J		
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.07		ND<0.07
MW-10	25	24 (96%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	56	56	
			6/11/2009	ND<0.07		ND<0.07

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Beryllium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.4103%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.07	FALSE
MW-8	6/11/2009	1	0.07	FALSE
MW-7	6/11/2009	1	0.07	FALSE
MW-6	6/11/2009	1	0.07	FALSE
MW-12BR	6/11/2009	1	0.36	FALSE
MW-12AR	6/11/2009	1	0.13	FALSE
MW-11R	6/11/2009	1	0.07	FALSE
MW-10	6/11/2009	1	0.07	FALSE

Concentrations (ppb)

Parameter: Chlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 161
Percent Non-Detects: 82.5641%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.25	ND<0.25

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	14 (56%)	7/20/1995	ND<2	ND<2
			8/24/1995	0.3 J	0.3 J
			9/28/1995	ND<2	ND<2
			10/26/1995	0.3 J	0.3 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	0.52 J	0.52 J
			10/25/2005	0.34 J	0.34 J
			4/29/2006	0.25 J	0.25 J
			11/18/2006	0.28 J	0.28 J
			5/23/2007	1.1	1.1
			11/28/2007	0.74 J	0.74 J
			6/5/2008	0.56 J	0.56 J
			11/20/2008	0.65 J	0.65 J
			6/11/2009	0.81 J	0.81 J

MW-8	25	18 (72%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	2.75	2.75	
			4/29/2006	1.69 J	1.69 J	
			11/18/2006	3.46	3.46	
			5/23/2007	2.2	2.2	
			11/28/2007	3.36	3.36	
			6/5/2008	ND<2	ND<2	
			11/20/2008	2.18	2.18	
			6/11/2009	4.8	4.8	
MW-7	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.29 J	0.29 J	
			6/11/2009	ND<0.25		ND<0.25
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	1.01 J	1.01 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12AR	15	9 (60%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	0.57 J	0.57 J		
		4/29/2006	0.62 J	0.62 J		
		11/18/2006	0.53 J	0.53 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.56 J	0.56 J		
		6/5/2008	0.65 J	0.65 J		
		11/20/2008	0.4 J	0.4 J		
		6/11/2009	ND<0.25		ND<0.25	
MW-11R	25	25 (100%)	7/20/1995		ND<2	ND<2
		8/24/1995	ND<2	ND<2		
		9/28/1995	ND<2	ND<2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.25		ND<0.25
MW-10	25	17 (68%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.33 J	0.33 J	
			10/25/2005	0.43 J	0.43 J	
			4/29/2006	0.59 J	0.59 J	
			11/18/2006	0.4 J	0.4 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.59 J	0.59 J	
			6/5/2008	0.6 J	0.6 J	
			11/20/2008	0.62 J	0.62 J	
			6/11/2009	0.45 J	0.45 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 82.5641%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.81	FALSE
MW-8	6/11/2009	1	4.8	TRUE
MW-7	6/11/2009	1	0.25	FALSE
MW-6	6/11/2009	1	0.25	FALSE
MW-12BR	6/11/2009	1	0.25	FALSE
MW-12AR	6/11/2009	1	0.25	FALSE
MW-11R	6/11/2009	1	0.25	FALSE
MW-10	6/11/2009	1	0.45	FALSE

Kruskal-Wallis Non-Parametric Test

Parameter: Chlorobenzene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	ND<2	81
	4/29/2006	ND<2	81
	11/18/2006	ND<2	81
	5/23/2007	ND<2	81
	11/28/2007	ND<2	81
	6/5/2008	ND<2	81
	11/20/2008	ND<2	81
	6/11/2009	ND<0.25	81

Rank Sum = 1215
Rank Mean = 81

Background Rank Sum = 1215
Background Rank Mean = 81

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	81
	8/24/1995	0.3 J	165
	9/28/1995	ND<2	81
	10/26/1995	0.3 J	166
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	0.52 J	173
	10/25/2005	0.34 J	168
	4/29/2006	0.25 J	162
	11/18/2006	0.28 J	163
	5/23/2007	1.1	188
	11/28/2007	0.74 J	185
	6/5/2008	0.56 J	175

	11/20/2008	0.65 J	183
	6/11/2009	0.81 J	186

Rank Sum = 3048
Rank Mean = 121.92

MW-8	7/20/1995	ND<2	81
	8/24/1995	ND<2	81
	9/28/1995	ND<2	81
	10/26/1995	ND<2	81
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	2.75	192
	4/29/2006	1.69 J	189
	11/18/2006	3.46	194
	5/23/2007	2.2	191
	11/28/2007	3.36	193
	6/5/2008	ND<2	81
	11/20/2008	2.18	190
	6/11/2009	4.8	195

Rank Sum = 2802
Rank Mean = 112.08

MW-7	7/20/1995	ND<2	81
	8/24/1995	ND<2	81
	9/28/1995	ND<2	81
	10/26/1995	ND<2	81
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	ND<2	81
	4/29/2006	ND<2	81
	11/18/2006	ND<2	81
	5/23/2007	ND<2	81
	11/28/2007	ND<2	81
	6/5/2008	ND<2	81
	11/20/2008	0.29 J	164
	6/11/2009	ND<0.25	81

Rank Sum = 2108
Rank Mean = 84.32

MW-6	7/20/1995	ND<2	81

	8/24/1995	ND<2	81
	9/28/1995	ND<2	81
	10/26/1995	ND<2	81
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	ND<2	81
	4/29/2006	ND<2	81
	11/18/2006	ND<2	81
	5/23/2007	ND<2	81
	11/28/2007	ND<2	81
	6/5/2008	ND<2	81
	11/20/2008	ND<2	81
	6/11/2009	ND<0.25	81

Rank Sum = 2025
Rank Mean = 81

MW-12BR	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	1.01 J	187
	10/25/2005	ND<2	81
	4/29/2006	ND<2	81
	11/18/2006	ND<2	81
	5/23/2007	ND<2	81
	11/28/2007	ND<2	81
	6/5/2008	ND<2	81
	11/20/2008	ND<2	81
	6/11/2009	ND<0.25	81

Rank Sum = 1321
Rank Mean = 88.0667

MW-12AR	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	0.57 J	177
	4/29/2006	0.62 J	181
	11/18/2006	0.53 J	174
	5/23/2007	ND<2	81
	11/28/2007	0.56 J	176
	6/5/2008	0.65 J	184
	11/20/2008	0.4 J	169
	6/11/2009	ND<0.25	81

Rank Sum = 1790
Rank Mean = 119.333

MW-11R	7/20/1995	ND<2	81
	8/24/1995	ND<2	81
	9/28/1995	ND<2	81
	10/26/1995	ND<2	81
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	ND<2	81
	10/25/2005	ND<2	81
	4/29/2006	ND<2	81
	11/18/2006	ND<2	81
	5/23/2007	ND<2	81
	11/28/2007	ND<2	81
	6/5/2008	ND<2	81
	11/20/2008	ND<2	81
	6/11/2009	ND<0.25	81

Rank Sum = 2025
Rank Mean = 81

MW-10	7/20/1995	ND<2	81
	8/24/1995	ND<2	81
	9/28/1995	ND<2	81
	10/26/1995	ND<2	81
	11/19/1996	ND<2	81
	12/19/1996	ND<2	81
	3/24/1997	ND<2	81
	9/24/1997	ND<2	81
	4/7/1998	ND<2	81
	9/23/1998	ND<2	81
	3/16/1999	ND<2	81
	9/23/1999	ND<2	81
	3/15/2000	ND<2	81
	9/24/2003	ND<2	81
	3/11/2004	ND<2	81
	10/12/2004	ND<2	81
	4/1/2005	0.33 J	167
	10/25/2005	0.43 J	171
	4/29/2006	0.59 J	178
	11/18/2006	0.4 J	170
	5/23/2007	ND<2	81
	11/28/2007	0.59 J	179
	6/5/2008	0.6 J	180
	11/20/2008	0.62 J	182
	6/11/2009	0.45 J	172

Rank Sum = 2776
Rank Mean = 111.04

Calculation Results:

Kruskal-Wallis H Statistic = 17.3569
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 39.7018

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
17.3569 > 15.5073 indicating a significant group difference at 5% significance level
39.7018 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 81

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	121.92	40.92	42.8788
MW-8	112.08	31.08	42.8788
MW-7	84.32	3.32	42.8788
MW-6	81	0	42.8788
MW-12BR	88.0667	7.06667	47.94
MW-12AR	119.333	38.3333	47.94
MW-11R	81	0	42.8788
MW-10	111.04	30.04	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 81

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	121.92	40.92	46.3033
MW-8	112.08	31.08	46.3033
MW-7	84.32	3.32	46.3033
MW-6	81	0	46.3033
MW-12BR	88.0667	7.06667	51.7686
MW-12AR	119.333	38.3333	51.7686
MW-11R	81	0	46.3033
MW-10	111.04	30.04	46.3033

Mann-Kendall Trend Analysis

Parameter: Chlorobenzene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
ND<2	ND<2	0	0	0	
2.75	ND<2	0.75	1	0	
1.69 J	ND<2	-0.31	1	1	
3.46	ND<2	1.46	2	1	
2.2	ND<2	0.2	3	1	
3.36	ND<2	1.36	4	1	
ND<2	ND<2	0	4	1	
2.18	ND<2	0.18	5	1	
4.8	ND<2	2.8	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
ND<2	ND<2	0	6	1	
2.75	ND<2	0.75	7	1	
1.69 J	ND<2	-0.31	7	2	
3.46	ND<2	1.46	8	2	
2.2	ND<2	0.2	9	2	
3.36	ND<2	1.36	10	2	
ND<2	ND<2	0	10	2	
2.18	ND<2	0.18	11	2	
4.8	ND<2	2.8	12	2	

ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
ND<2	ND<2	0	12	2
2.75	ND<2	0.75	13	2
1.69 J	ND<2	-0.31	13	3
3.46	ND<2	1.46	14	3
2.2	ND<2	0.2	15	3
3.36	ND<2	1.36	16	3
ND<2	ND<2	0	16	3
2.18	ND<2	0.18	17	3
4.8	ND<2	2.8	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
ND<2	ND<2	0	18	3
2.75	ND<2	0.75	19	3
1.69 J	ND<2	-0.31	19	4
3.46	ND<2	1.46	20	4
2.2	ND<2	0.2	21	4
3.36	ND<2	1.36	22	4
ND<2	ND<2	0	22	4
2.18	ND<2	0.18	23	4
4.8	ND<2	2.8	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
ND<2	ND<2	0	24	4
2.75	ND<2	0.75	25	4
1.69 J	ND<2	-0.31	25	5
3.46	ND<2	1.46	26	5
2.2	ND<2	0.2	27	5

3.36	ND<2	1.36	28	5
ND<2	ND<2	0	28	5
2.18	ND<2	0.18	29	5
4.8	ND<2	2.8	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
ND<2	ND<2	0	30	5
2.75	ND<2	0.75	31	5
1.69 J	ND<2	-0.31	31	6
3.46	ND<2	1.46	32	6
2.2	ND<2	0.2	33	6
3.36	ND<2	1.36	34	6
ND<2	ND<2	0	34	6
2.18	ND<2	0.18	35	6
4.8	ND<2	2.8	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
ND<2	ND<2	0	36	6
2.75	ND<2	0.75	37	6
1.69 J	ND<2	-0.31	37	7
3.46	ND<2	1.46	38	7
2.2	ND<2	0.2	39	7
3.36	ND<2	1.36	40	7
ND<2	ND<2	0	40	7
2.18	ND<2	0.18	41	7
4.8	ND<2	2.8	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
ND<2	ND<2	0	42	7
2.75	ND<2	0.75	43	7
1.69 J	ND<2	-0.31	43	8
3.46	ND<2	1.46	44	8
2.2	ND<2	0.2	45	8
3.36	ND<2	1.36	46	8
ND<2	ND<2	0	46	8
2.18	ND<2	0.18	47	8
4.8	ND<2	2.8	48	8

ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
ND<2	ND<2	0	48	8
2.75	ND<2	0.75	49	8
1.69 J	ND<2	-0.31	49	9
3.46	ND<2	1.46	50	9
2.2	ND<2	0.2	51	9
3.36	ND<2	1.36	52	9
ND<2	ND<2	0	52	9
2.18	ND<2	0.18	53	9
4.8	ND<2	2.8	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
ND<2	ND<2	0	54	9
2.75	ND<2	0.75	55	9
1.69 J	ND<2	-0.31	55	10
3.46	ND<2	1.46	56	10
2.2	ND<2	0.2	57	10
3.36	ND<2	1.36	58	10
ND<2	ND<2	0	58	10
2.18	ND<2	0.18	59	10
4.8	ND<2	2.8	60	10
ND<2	ND<2	0	60	10
ND<2	ND<2	0	60	10
ND<2	ND<2	0	60	10
ND<2	ND<2	0	60	10
ND<2	ND<2	0	60	10
ND<2	ND<2	0	60	10
2.75	ND<2	0.75	61	10
1.69 J	ND<2	-0.31	61	11
3.46	ND<2	1.46	62	11
2.2	ND<2	0.2	63	11
3.36	ND<2	1.36	64	11
ND<2	ND<2	0	64	11
2.18	ND<2	0.18	65	11
4.8	ND<2	2.8	66	11
ND<2	ND<2	0	66	11
ND<2	ND<2	0	66	11
ND<2	ND<2	0	66	11
ND<2	ND<2	0	66	11
ND<2	ND<2	0	66	11
2.75	ND<2	0.75	67	11
1.69 J	ND<2	-0.31	67	12
3.46	ND<2	1.46	68	12
2.2	ND<2	0.2	69	12
3.36	ND<2	1.36	70	12
ND<2	ND<2	0	70	12
2.18	ND<2	0.18	71	12
4.8	ND<2	2.8	72	12

ND<2	ND<2	0	72	12
ND<2	ND<2	0	72	12
ND<2	ND<2	0	72	12
ND<2	ND<2	0	72	12
2.75	ND<2	0.75	73	12
1.69 J	ND<2	-0.31	73	13
3.46	ND<2	1.46	74	13
2.2	ND<2	0.2	75	13
3.36	ND<2	1.36	76	13
ND<2	ND<2	0	76	13
2.18	ND<2	0.18	77	13
4.8	ND<2	2.8	78	13
ND<2	ND<2	0	78	13
ND<2	ND<2	0	78	13
ND<2	ND<2	0	78	13
2.75	ND<2	0.75	79	13
1.69 J	ND<2	-0.31	79	14
3.46	ND<2	1.46	80	14
2.2	ND<2	0.2	81	14
3.36	ND<2	1.36	82	14
ND<2	ND<2	0	82	14
2.18	ND<2	0.18	83	14
4.8	ND<2	2.8	84	14
ND<2	ND<2	0	84	14
ND<2	ND<2	0	84	14
2.75	ND<2	0.75	85	14
1.69 J	ND<2	-0.31	85	15
3.46	ND<2	1.46	86	15
2.2	ND<2	0.2	87	15
3.36	ND<2	1.36	88	15
ND<2	ND<2	0	88	15
2.18	ND<2	0.18	89	15
4.8	ND<2	2.8	90	15
ND<2	ND<2	0	90	15
2.75	ND<2	0.75	91	15
1.69 J	ND<2	-0.31	91	16
3.46	ND<2	1.46	92	16
2.2	ND<2	0.2	93	16
3.36	ND<2	1.36	94	16
ND<2	ND<2	0	94	16
2.18	ND<2	0.18	95	16
4.8	ND<2	2.8	96	16
2.75	ND<2	0.75	97	16
1.69 J	ND<2	-0.31	97	17
3.46	ND<2	1.46	98	17
2.2	ND<2	0.2	99	17
3.36	ND<2	1.36	100	17
ND<2	ND<2	0	100	17
2.18	ND<2	0.18	101	17
4.8	ND<2	2.8	102	17
1.69 J	2.75	-1.06	102	18
3.46	2.75	0.71	103	18
2.2	2.75	-0.55	103	19
3.36	2.75	0.61	104	19
ND<2	2.75	-0.75	104	20
2.18	2.75	-0.57	104	21
4.8	2.75	2.05	105	21

3.46	1.69 J	1.77	106	21
2.2	1.69 J	0.51	107	21
3.36	1.69 J	1.67	108	21
ND<2	1.69 J	0.31	109	21
2.18	1.69 J	0.49	110	21
4.8	1.69 J	3.11	111	21
2.2	3.46	-1.26	111	22
3.36	3.46	-0.1	111	23
ND<2	3.46	-1.46	111	24
2.18	3.46	-1.28	111	25
4.8	3.46	1.34	112	25
3.36	2.2	1.16	113	25
ND<2	2.2	-0.2	113	26
2.18	2.2	-0.02	113	27
4.8	2.2	2.6	114	27
ND<2	3.36	-1.36	114	28
2.18	3.36	-1.18	114	29
4.8	3.36	1.44	115	29
2.18	ND<2	0.18	116	29
4.8	ND<2	2.8	117	29
4.8	2.18	2.62	118	29

S Statistic = 118 - 29 = 89

Tied Group	Value	Members
1	2	18

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 12546
B = 0
C = 4896
D = 0
E = 306
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1136.33
Z-Score = 2.61054
Comparison Level at 95% confidence level = 1.65463 (upward trend)
2.61054 > 1.65463 indicating an upward trend

Concentrations (ppb)

Parameter: Chloroform

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 182
Percent Non-Detects: 93.3333%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.14	ND<0.14

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	21 (84%)	7/20/1995	0.96 J	0.96 J
			8/24/1995	0.6 J	0.6 J
			9/28/1995	0.5 J	0.5 J
			10/26/1995	0.5 J	0.5 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.14	ND<0.14

MW-8	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.14		ND<0.14
MW-7	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.14		ND<0.14
MW-6	25	20 (80%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	0.24 J	0.24 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.27 J	0.27 J		
		6/5/2008	0.21 J	0.21 J		
		11/20/2008	0.21 J	0.21 J		
		6/11/2009	0.31 J	0.31 J		
MW-12BR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.14		ND<0.14	
MW-12AR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.14		ND<0.14	
MW-11R	25	21 (84%)	7/20/1995	0.38 J	0.38 J	
		8/24/1995	ND<2	ND<2		
		9/28/1995	0.6 J	0.6 J		
		10/26/1995	0.9 J	0.9 J		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.22 J	0.22 J	
			6/11/2009	ND<0.14		ND<0.14
MW-10	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.14		ND<0.14

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chloroform

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.3333%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.14	FALSE
MW-8	6/11/2009	1	0.14	FALSE
MW-7	6/11/2009	1	0.14	FALSE
MW-6	6/11/2009	1	0.31	FALSE
MW-12BR	6/11/2009	1	0.14	FALSE
MW-12AR	6/11/2009	1	0.14	FALSE
MW-11R	6/11/2009	1	0.14	FALSE
MW-10	6/11/2009	1	0.14	FALSE

Concentrations (ppb)

Parameter: Chloromethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 188
Percent Non-Detects: 96.4103%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.33	ND<0.33

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	24 (96%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	0.9 J	0.9 J
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.33	ND<0.33

MW-8	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	2.13	2.13	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.33		ND<0.33
MW-7	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.33		ND<0.33
MW-6	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	0.3 J	0.3 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2	
		3/15/2000	ND<2	ND<2	
		9/24/2003	ND<2	ND<2	
		3/11/2004	ND<2	ND<2	
		10/12/2004	ND<2	ND<2	
		4/1/2005	ND<2	ND<2	
		10/25/2005	ND<2	ND<2	
		4/29/2006	ND<2	ND<2	
		11/18/2006	ND<2	ND<2	
		5/23/2007	ND<2	ND<2	
		11/28/2007	ND<2	ND<2	
		6/5/2008	ND<2	ND<2	
		11/20/2008	ND<2	ND<2	
		6/11/2009	ND<0.33	ND<0.33	
MW-12BR	15	15 (100%)	3/16/1999	ND<2	ND<2
		9/23/1999	ND<2	ND<2	
		3/15/2000	ND<2	ND<2	
		9/24/2003	ND<2	ND<2	
		3/11/2004	ND<2	ND<2	
		10/12/2004	ND<2	ND<2	
		4/1/2005	ND<2	ND<2	
		10/25/2005	ND<2	ND<2	
		4/29/2006	ND<2	ND<2	
		11/18/2006	ND<2	ND<2	
		5/23/2007	ND<2	ND<2	
		11/28/2007	ND<2	ND<2	
		6/5/2008	ND<2	ND<2	
		11/20/2008	ND<2	ND<2	
		6/11/2009	ND<0.33	ND<0.33	
MW-12AR	15	14 (93.3333%)	3/16/1999	ND<2	ND<2
		9/23/1999	ND<2	ND<2	
		3/15/2000	ND<2	ND<2	
		9/24/2003	ND<2	ND<2	
		3/11/2004	ND<2	ND<2	
		10/12/2004	ND<2	ND<2	
		4/1/2005	ND<2	ND<2	
		10/25/2005	ND<2	ND<2	
		4/29/2006	ND<2	ND<2	
		11/18/2006	2.05	2.05	
		5/23/2007	ND<2	ND<2	
		11/28/2007	ND<2	ND<2	
		6/5/2008	ND<2	ND<2	
		11/20/2008	ND<2	ND<2	
		6/11/2009	ND<0.33	ND<0.33	
MW-11R	25	24 (96%)	7/20/1995	ND<2	ND<2
		8/24/1995	ND<2	ND<2	
		9/28/1995	ND<2	ND<2	
		10/26/1995	ND<2	ND<2	
		11/19/1996	ND<2	ND<2	
		12/19/1996	ND<2	ND<2	
		3/24/1997	ND<2	ND<2	
		9/24/1997	ND<2	ND<2	
		4/7/1998	ND<2	ND<2	
		9/23/1998	ND<2	ND<2	
		3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2	
		3/15/2000	ND<2	ND<2	
		9/24/2003	ND<2	ND<2	

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	2.44	2.44	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.33		ND<0.33
MW-10	25	23 (92%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	5	5	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.45 J	0.45 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Chloromethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.4103%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.33	FALSE
MW-8	6/11/2009	1	0.33	FALSE
MW-7	6/11/2009	1	0.33	FALSE
MW-6	6/11/2009	1	0.33	FALSE
MW-12BR	6/11/2009	1	0.33	FALSE
MW-12AR	6/11/2009	1	0.33	FALSE
MW-11R	6/11/2009	1	0.33	FALSE
MW-10	6/11/2009	1	0.45	FALSE

Concentrations (ppb)

Parameter: Chromium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 143
Percent Non-Detects: 73.3333%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	10 (66.6667%)	3/16/1999	40	40
			9/23/1999	14 J	14 J
			3/15/2000	150	150
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	5.63 J	5.63 J
			11/20/2008	ND<20	ND<20
			6/11/2009	0.17 J	0.17 J

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	22 (88%)	7/20/1995	ND<20	ND<20
			8/24/1995	ND<20	ND<20
			9/28/1995	ND<20	ND<20
			10/26/1995	ND<20	ND<20
			11/19/1996	ND<20	ND<20
			12/19/1996	ND<20	ND<20
			3/24/1997	ND<20	ND<20
			9/24/1997	ND<20	ND<20
			4/7/1998	ND<20	ND<20
			9/23/1998	ND<20	ND<20
			3/16/1999	ND<20	ND<20
			9/23/1999	11 J	11 J
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	5.2 J	5.2 J
			11/20/2008	ND<20	ND<20
			6/11/2009	0.62 J	0.62 J

MW-8	25	19 (76%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	56.2	56.2	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	30.1	30.1	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	18 J	18 J	
			3/16/1999	ND<20	ND<20	
			9/23/1999	32	32	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	7.9 J	7.9 J	
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.2 J	0.2 J	
MW-7	25	15 (60%)	7/20/1995		ND<20	ND<20
			8/24/1995	12.8 J	12.8 J	
			9/28/1995	79.9	79.9	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	36.6	36.6	
			3/24/1997	ND<20	ND<20	
			9/24/1997	14 J	14 J	
			4/7/1998	28	28	
			9/23/1998	ND<20	ND<20	
			3/16/1999	40	40	
			9/23/1999	42	42	
			3/15/2000	10 J	10 J	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	8.11 J	8.11 J	
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.71 J	0.71 J	
MW-6	25	17 (68%)	7/20/1995		12.4 J	12.4 J
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	13.8 J	13.8 J	
			11/19/1996	ND<20	ND<20	
			12/19/1996	16.1 J	16.1 J	
			3/24/1997	14 J	14 J	
			9/24/1997	ND<20	ND<20	
			4/7/1998	23	23	
			9/23/1998	14 J	14 J	

		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	32	32		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	5.12	5.12		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<0.16		ND<0.16	
MW-12BR	15	12 (80%)	3/16/1999		8 J	8 J
		9/23/1999	12 J	12 J		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	5.66 J	5.66 J		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<0.16		ND<0.16	
MW-12AR	15	11 (73.3333%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	82	82		
		9/24/2003	ND<20	ND<20		
		3/11/2004	12 J	12 J		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	4.5 J	4.5 J		
		11/20/2008	ND<20	ND<20		
		6/11/2009	0.3 J	0.3 J		
MW-11R	25	17 (68%)	7/20/1995	ND<20	ND<20	
		8/24/1995	ND<20	ND<20		
		9/28/1995	ND<20	ND<20		
		10/26/1995	25.8	25.8		
		11/19/1996	ND<20	ND<20		
		12/19/1996	16 J	16 J		
		3/24/1997	ND<20	ND<20		
		9/24/1997	ND<20	ND<20		
		4/7/1998	14 J	14 J		
		9/23/1998	ND<20	ND<20		
		3/16/1999	7 J	7 J		
		9/23/1999	11 J	11 J		
		3/15/2000	12 J	12 J		
		9/24/2003	ND<20	ND<20		

			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	4.61 J	4.61 J	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.17 J	0.17 J	
MW-10	25	20 (80%)	7/20/1995	ND<20	ND<20	
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	15 J	15 J	
			3/24/1997	ND<20	ND<20	
			9/24/1997	14	14	
			4/7/1998 ND<20	ND<20		
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	29	29	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008 3.11 J	3.11 J		
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.22 J	0.22 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Chromium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	40	189
	9/23/1999	14 J	171
	3/15/2000	150	195
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	5.63 J	156
	11/20/2008	ND<20	72
	6/11/2009	0.17 J	144

Rank Sum = 1575
Rank Mean = 105

Background Rank Sum = 1575
Background Rank Mean = 105

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<20	72
	8/24/1995	ND<20	72
	9/28/1995	ND<20	72
	10/26/1995	ND<20	72
	11/19/1996	ND<20	72
	12/19/1996	ND<20	72
	3/24/1997	ND<20	72
	9/24/1997	ND<20	72
	4/7/1998	ND<20	72
	9/23/1998	ND<20	72
	3/16/1999	ND<20	72
	9/23/1999	11 J	163
	3/15/2000	ND<20	72
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	5.2 J	155

	11/20/2008	ND<20	72
	6/11/2009	0.62 J	149

Rank Sum = 2051
Rank Mean = 82.04

MW-8	7/20/1995	ND<20	72
	8/24/1995	ND<20	72
	9/28/1995	56.2	192
	10/26/1995	ND<20	72
	11/19/1996	ND<20	72
	12/19/1996	30.1	185
	3/24/1997	ND<20	72
	9/24/1997	ND<20	72
	4/7/1998	ND<20	72
	9/23/1998	18 J	180
	3/16/1999	ND<20	72
	9/23/1999	32	186
	3/15/2000	ND<20	72
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	7.9 J	159
	11/20/2008	ND<20	72
	6/11/2009	0.2 J	146

Rank Sum = 2416
Rank Mean = 96.64

MW-7	7/20/1995	ND<20	72
	8/24/1995	12.8 J	169
	9/28/1995	79.9	193
	10/26/1995	ND<20	72
	11/19/1996	ND<20	72
	12/19/1996	36.6	188
	3/24/1997	ND<20	72
	9/24/1997	14 J	172
	4/7/1998	28	183
	9/23/1998	ND<20	72
	3/16/1999	40	190
	9/23/1999	42	191
	3/15/2000	10 J	162
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	8.11 J	161
	11/20/2008	ND<20	72
	6/11/2009	0.71 J	150

Rank Sum = 2839
Rank Mean = 113.56

MW-6	7/20/1995	12.4 J	168

	8/24/1995	ND<20	72
	9/28/1995	ND<20	72
	10/26/1995	13.8 J	170
	11/19/1996	ND<20	72
	12/19/1996	16.1 J	179
	3/24/1997	14 J	173
	9/24/1997	ND<20	72
	4/7/1998	23	181
	9/23/1998	14 J	174
	3/16/1999	ND<20	72
	9/23/1999	ND<20	72
	3/15/2000	32	187
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	5.12	154
	11/20/2008	ND<20	72
	6/11/2009	ND<0.16	72

Rank Sum = 2610
Rank Mean = 104.4

MW-12BR	3/16/1999	8 J	160
	9/23/1999	12 J	165
	3/15/2000	ND<20	72
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	5.66 J	157
	11/20/2008	ND<20	72
	6/11/2009	ND<0.16	72

Rank Sum = 1346
Rank Mean = 89.7333

MW-12AR	3/16/1999	ND<20	72
	9/23/1999	ND<20	72
	3/15/2000	82	194
	9/24/2003	ND<20	72
	3/11/2004	12 J	166
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	4.5 J	152
	11/20/2008	ND<20	72
	6/11/2009	0.3 J	148

Rank Sum = 1452
Rank Mean = 96.8

MW-11R	7/20/1995	ND<20	72
	8/24/1995	ND<20	72
	9/28/1995	ND<20	72
	10/26/1995	25.8	182
	11/19/1996	ND<20	72
	12/19/1996	16 J	178
	3/24/1997	ND<20	72
	9/24/1997	ND<20	72
	4/7/1998	14 J	175
	9/23/1998	ND<20	72
	3/16/1999	7 J	158
	9/23/1999	11 J	164
	3/15/2000	12 J	167
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	4.61 J	153
	11/28/2007	ND<20	72
	6/5/2008	ND<20	72
	11/20/2008	ND<20	72
	6/11/2009	0.17 J	145

Rank Sum = 2546
Rank Mean = 101.84

MW-10	7/20/1995	ND<20	72
	8/24/1995	ND<20	72
	9/28/1995	ND<20	72
	10/26/1995	ND<20	72
	11/19/1996	ND<20	72
	12/19/1996	15 J	177
	3/24/1997	ND<20	72
	9/24/1997	14	176
	4/7/1998	ND<20	72
	9/23/1998	ND<20	72
	3/16/1999	ND<20	72
	9/23/1999	29	184
	3/15/2000	ND<20	72
	9/24/2003	ND<20	72
	3/11/2004	ND<20	72
	10/12/2004	ND<20	72
	4/1/2005	ND<20	72
	10/25/2005	ND<20	72
	4/29/2006	ND<20	72
	11/18/2006	ND<20	72
	5/23/2007	ND<20	72
	11/28/2007	ND<20	72
	6/5/2008	3.11 J	151
	11/20/2008	ND<20	72
	6/11/2009	0.22 J	147

Rank Sum = 2275
Rank Mean = 91

Calculation Results:

Kruskal-Wallis H Statistic = 5.29558
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 8.7438

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
5.29558 < 15.5073 indicating no significant group difference at 5% significance level
8.7438 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 107
Percent Non-Detects: 54.8718%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.15	ND<0.15

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	12 (48%)	7/20/1995	1.2 J	1.2 J
			8/24/1995	1.1 J	1.1 J
			9/28/1995	1 J	1 J
			10/26/1995	1 J	1 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	64	64
			10/12/2004	ND<2	ND<2
			4/1/2005	1.78 J	1.78 J
			10/25/2005	1.26 J	1.26 J
			4/29/2006	0.88 J	0.88 J
			11/18/2006	0.71 J	0.71 J
			5/23/2007	3	3
			11/28/2007	ND<0 J	ND<0 J
			6/5/2008	0.5 J	0.5 J
			11/20/2008	1.79 J	1.79 J
			6/11/2009	2.3	2.3

MW-8	25	2 (8%)	7/20/1995	1.1 J	1.1 J	
			8/24/1995	20	20	
			9/28/1995	17	17	
			10/26/1995	2	2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	130	130	
			3/24/1997	160	160	
			9/24/1997	280	280	
			4/7/1998	180	180	
			9/23/1998	360	360	
			3/16/1999	159	159	
			9/23/1999	139	139	
			3/15/2000	330	330	
			9/24/2003	35	35	
			3/11/2004	130	130	
			10/12/2004	140	140	
			4/1/2005	55.9	55.9	
			10/25/2005	105	105	
			4/29/2006	42.5	42.5	
			11/18/2006	42.4	42.4	
			5/23/2007	25	25	
			11/28/2007	60.9	60.9	
			6/5/2008	ND<2	ND<2	
			11/20/2008	35	35	
			6/11/2009	39	39	
MW-7	25	24 (96%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.21 J	0.21 J	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.15	ND<0.15	
MW-6	25	25 (100%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.15		ND<0.15	
MW-12BR	15	13 (86.6667%)	3/16/1999		14.8	14.8
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	10.7	10.7		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.15		ND<0.15	
MW-12AR	15	6 (40%)	3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2		
		3/15/2000	14	14		
		9/24/2003	10	10		
		3/11/2004	10	10		
		10/12/2004	9.4	9.4		
		4/1/2005	ND<2	ND<2		
		10/25/2005	2.9	2.9		
		4/29/2006	3.19	3.19		
		11/18/2006	1.09 J	1.09 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	1.22 J	1.22 J		
		6/5/2008	ND<2	ND<2		
		11/20/2008	0.83 J	0.83 J		
		6/11/2009	ND<0.15		ND<0.15	
MW-11R	25	6 (24%)	7/20/1995	5.4	5.4	
		8/24/1995	11	11		
		9/28/1995	10	10		
		10/26/1995	15	15		
		11/19/1996	ND<2	ND<2		
		12/19/1996	16	16		
		3/24/1997	12	12		
		9/24/1997	ND<2	ND<2		
		4/7/1998	5.2	5.2		
		9/23/1998	13	13		
		3/16/1999	11.1	11.1		
		9/23/1999	ND<2	ND<2		
		3/15/2000	12	12		
		9/24/2003	10	10		

			3/11/2004	11	11
			10/12/2004	ND<2	ND<2
			4/1/2005	9.47	9.47
			10/25/2005	4.56	4.56
			4/29/2006	2.88	2.88
			11/18/2006	1.71 J	1.71 J
			5/23/2007	5.7	5.7
			11/28/2007	3.24	3.24
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	1.3	1.3
MW-10	25	4 (16%)	7/20/1995	4	4
			8/24/1995	15	15
			9/28/1995	32	32
			10/26/1995	26	26
			11/19/1996	ND<2	ND<2
			12/19/1996	40	40
			3/24/1997	26	26
			9/24/1997	38	38
			4/7/1998	7.6	7.6
			9/23/1998	32	32
			3/16/1999	42.7	42.7
			9/23/1999	24.9	24.9
			3/15/2000	11	11
			9/24/2003	11	11
			3/11/2004	7.1	7.1
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	13.4	13.4
			4/29/2006	15.8	15.8
			11/18/2006	8.96	8.96
			5/23/2007	9.1	9.1
			11/28/2007	13.6	13.6
			6/5/2008	13.5	13.5
			11/20/2008	ND<2	ND<2
			6/11/2009	9	9

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: cis-1,2-Dichloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	54
	9/23/1999	ND<2	54
	3/15/2000	ND<2	54
	9/24/2003	ND<2	54
	3/11/2004	ND<2	54
	10/12/2004	ND<2	54
	4/1/2005	ND<2	54
	10/25/2005	ND<2	54
	4/29/2006	ND<2	54
	11/18/2006	ND<2	54
	5/23/2007	ND<2	54
	11/28/2007	ND<2	54
	6/5/2008	ND<2	54
	11/20/2008	ND<2	54
	6/11/2009	ND<0.15	54

Rank Sum = 810
Rank Mean = 54

Background Rank Sum = 810
Background Rank Mean = 54

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	1.2 J	118
	8/24/1995	1.1 J	116
	9/28/1995	1 J	113
	10/26/1995	1 J	114
	11/19/1996	ND<2	54
	12/19/1996	ND<2	54
	3/24/1997	ND<2	54
	9/24/1997	ND<2	54
	4/7/1998	ND<2	54
	9/23/1998	ND<2	54
	3/16/1999	ND<2	54
	9/23/1999	ND<2	54
	3/15/2000	ND<2	54
	9/24/2003	ND<2	54
	3/11/2004	64	184
	10/12/2004	ND<2	54
	4/1/2005	1.78 J	123
	10/25/2005	1.26 J	120
	4/29/2006	0.88 J	112
	11/18/2006	0.71 J	110
	5/23/2007	3	129
	11/28/2007	ND<0 J	54
	6/5/2008	0.5 J	109

	11/20/2008	1.79 J	124
	6/11/2009	2.3	126

Rank Sum = 2246
Rank Mean = 89.84

MW-8	7/20/1995	1.1 J	117
	8/24/1995	20	167
	9/28/1995	17	166
	10/26/1995	2	125
	11/19/1996	ND<2	54
	12/19/1996	130	186
	3/24/1997	160	191
	9/24/1997	280	193
	4/7/1998	180	192
	9/23/1998	360	195
	3/16/1999	159	190
	9/23/1999	139	188
	3/15/2000	330	194
	9/24/2003	35	174
	3/11/2004	130	187
	10/12/2004	140	189
	4/1/2005	55.9	182
	10/25/2005	105	185
	4/29/2006	42.5	180
	11/18/2006	42.4	179
	5/23/2007	25	169
	11/28/2007	60.9	183
	6/5/2008	ND<2	54
	11/20/2008	35	175
	6/11/2009	39	177

Rank Sum = 4192
Rank Mean = 167.68

MW-7	7/20/1995	ND<2	54
	8/24/1995	ND<2	54
	9/28/1995	ND<2	54
	10/26/1995	ND<2	54
	11/19/1996	ND<2	54
	12/19/1996	ND<2	54
	3/24/1997	ND<2	54
	9/24/1997	ND<2	54
	4/7/1998	ND<2	54
	9/23/1998	ND<2	54
	3/16/1999	ND<2	54
	9/23/1999	ND<2	54
	3/15/2000	ND<2	54
	9/24/2003	ND<2	54
	3/11/2004	ND<2	54
	10/12/2004	ND<2	54
	4/1/2005	0.21 J	108
	10/25/2005	ND<2	54
	4/29/2006	ND<2	54
	11/18/2006	ND<2	54
	5/23/2007	ND<2	54
	11/28/2007	ND<2	54
	6/5/2008	ND<2	54
	11/20/2008	ND<2	54
	6/11/2009	ND<0.15	54

Rank Sum = 1404
Rank Mean = 56.16

MW-6	7/20/1995	ND<2	54

	8/24/1995	ND<2	54
	9/28/1995	ND<2	54
	10/26/1995	ND<2	54
	11/19/1996	ND<2	54
	12/19/1996	ND<2	54
	3/24/1997	ND<2	54
	9/24/1997	ND<2	54
	4/7/1998	ND<2	54
	9/23/1998	ND<2	54
	3/16/1999	ND<2	54
	9/23/1999	ND<2	54
	3/15/2000	ND<2	54
	9/24/2003	ND<2	54
	3/11/2004	ND<2	54
	10/12/2004	ND<2	54
	4/1/2005	ND<2	54
	10/25/2005	ND<2	54
	4/29/2006	ND<2	54
	11/18/2006	ND<2	54
	5/23/2007	ND<2	54
	11/28/2007	ND<2	54
	6/5/2008	ND<2	54
	11/20/2008	ND<2	54
	6/11/2009	ND<0.15	54

Rank Sum = 1350
Rank Mean = 54

MW-12BR	3/16/1999	14.8	161
	9/23/1999	ND<2	54
	3/15/2000	ND<2	54
	9/24/2003	ND<2	54
	3/11/2004	ND<2	54
	10/12/2004	ND<2	54
	4/1/2005	10.7	148
	10/25/2005	ND<2	54
	4/29/2006	ND<2	54
	11/18/2006	ND<2	54
	5/23/2007	ND<2	54
	11/28/2007	ND<2	54
	6/5/2008	ND<2	54
	11/20/2008	ND<2	54
	6/11/2009	ND<0.15	54

Rank Sum = 1011
Rank Mean = 67.4

MW-12AR	3/16/1999	ND<2	54
	9/23/1999	ND<2	54
	3/15/2000	14	160
	9/24/2003	10	144
	3/11/2004	10	145
	10/12/2004	9.4	142
	4/1/2005	ND<2	54
	10/25/2005	2.9	128
	4/29/2006	3.19	130
	11/18/2006	1.09 J	115
	5/23/2007	ND<2	54
	11/28/2007	1.22 J	119
	6/5/2008	ND<2	54
	11/20/2008	0.83 J	111
	6/11/2009	ND<0.15	54

Rank Sum = 1518
Rank Mean = 101.2

MW-11R	7/20/1995	5.4	135
	8/24/1995	11	149
	9/28/1995	10	146
	10/26/1995	15	162
	11/19/1996	ND<2	54
	12/19/1996	16	165
	3/24/1997	12	154
	9/24/1997	ND<2	54
	4/7/1998	5.2	134
	9/23/1998	13	156
	3/16/1999	11.1	153
	9/23/1999	ND<2	54
	3/15/2000	12	155
	9/24/2003	10	147
	3/11/2004	11	150
	10/12/2004	ND<2	54
	4/1/2005	9.47	143
	10/25/2005	4.56	133
	4/29/2006	2.88	127
	11/18/2006	1.71 J	122
	5/23/2007	5.7	136
	11/28/2007	3.24	131
	6/5/2008	ND<2	54
	11/20/2008	ND<2	54
	6/11/2009	1.3	121

Rank Sum = 3043
Rank Mean = 121.72

MW-10	7/20/1995	4	132
	8/24/1995	15	163
	9/28/1995	32	172
	10/26/1995	26	170
	11/19/1996	ND<2	54
	12/19/1996	40	178
	3/24/1997	26	171
	9/24/1997	38	176
	4/7/1998	7.6	138
	9/23/1998	32	173
	3/16/1999	42.7	181
	9/23/1999	24.9	168
	3/15/2000	11	151
	9/24/2003	11	152
	3/11/2004	7.1	137
	10/12/2004	ND<2	54
	4/1/2005	ND<2	54
	10/25/2005	13.4	157
	4/29/2006	15.8	164
	11/18/2006	8.96	139
	5/23/2007	9.1	141
	11/28/2007	13.6	159
	6/5/2008	13.5	158
	11/20/2008	ND<2	54
	6/11/2009	9	140

Rank Sum = 3536
Rank Mean = 141.44

Calculation Results:

Kruskal-Wallis H Statistic = 100.374
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 120.238

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
100.374 > 15.5073 indicating a significant group difference at 5% significance level
120.238 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 54

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	89.84	35.84	42.8788	
MW-8	167.68	113.68	42.8788	
MW-7	56.16	2.16	42.8788	
MW-6	54	0	42.8788	
MW-12BR		67.4	13.4	47.94
MW-12AR		101.2	47.2	47.94
MW-11R	121.72	67.72	42.8788	
MW-10	141.44	87.44	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 54

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	89.84	35.84	46.3033	
MW-8	167.68	113.68	46.3033	
MW-7	56.16	2.16	46.3033	
MW-6	54	0	46.3033	
MW-12BR		67.4	13.4	51.7686
MW-12AR		101.2	47.2	51.7686
MW-11R	121.72	67.72	46.3033	
MW-10	141.44	87.44	46.3033	

Mann-Kendall Trend Analysis

Parameter: cis-1,2-Dichloroethene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
20	1.1 J	18.9	1	0	
17	1.1 J	15.9	2	0	
2	1.1 J	0.9	3	0	
ND<2	1.1 J	0.9	4	0	
130	1.1 J	128.9	5	0	
160	1.1 J	158.9	6	0	
280	1.1 J	278.9	7	0	
180	1.1 J	178.9	8	0	
360	1.1 J	358.9	9	0	
159	1.1 J	157.9	10	0	
139	1.1 J	137.9	11	0	
330	1.1 J	328.9	12	0	
35	1.1 J	33.9	13	0	
130	1.1 J	128.9	14	0	
140	1.1 J	138.9	15	0	
55.9	1.1 J	54.8	16	0	
105	1.1 J	103.9	17	0	
42.5	1.1 J	41.4	18	0	
42.4	1.1 J	41.3	19	0	
25	1.1 J	23.9	20	0	
60.9	1.1 J	59.8	21	0	
ND<2	1.1 J	0.9	22	0	
35	1.1 J	33.9	23	0	
39	1.1 J	37.9	24	0	
17	20	-3	24	1	
2	20	-18	24	2	
ND<2	20	-18	24	3	
130	20	110	25	3	
160	20	140	26	3	
280	20	260	27	3	
180	20	160	28	3	
360	20	340	29	3	
159	20	139	30	3	
139	20	119	31	3	
330	20	310	32	3	
35	20	15	33	3	
130	20	110	34	3	
140	20	120	35	3	
55.9	20	35.9	36	3	
105	20	85	37	3	
42.5	20	22.5	38	3	
42.4	20	22.4	39	3	
25	20	5	40	3	
60.9	20	40.9	41	3	
ND<2	20	-18	41	4	
35	20	15	42	4	
39	20	19	43	4	

2	17	-15	43	5
ND<2	17	-15	43	6
130	17	113	44	6
160	17	143	45	6
280	17	263	46	6
180	17	163	47	6
360	17	343	48	6
159	17	142	49	6
139	17	122	50	6
330	17	313	51	6
35	17	18	52	6
130	17	113	53	6
140	17	123	54	6
55.9	17	38.9	55	6
105	17	88	56	6
42.5	17	25.5	57	6
42.4	17	25.4	58	6
25	17	8	59	6
60.9	17	43.9	60	6
ND<2	17	-15	60	7
35	17	18	61	7
39	17	22	62	7
ND<2	2	0	62	7
130	2	128	63	7
160	2	158	64	7
280	2	278	65	7
180	2	178	66	7
360	2	358	67	7
159	2	157	68	7
139	2	137	69	7
330	2	328	70	7
35	2	33	71	7
130	2	128	72	7
140	2	138	73	7
55.9	2	53.9	74	7
105	2	103	75	7
42.5	2	40.5	76	7
42.4	2	40.4	77	7
25	2	23	78	7
60.9	2	58.9	79	7
ND<2	2	0	79	7
35	2	33	80	7
39	2	37	81	7
130	ND<2	128	82	7
160	ND<2	158	83	7
280	ND<2	278	84	7
180	ND<2	178	85	7
360	ND<2	358	86	7
159	ND<2	157	87	7
139	ND<2	137	88	7
330	ND<2	328	89	7
35	ND<2	33	90	7
130	ND<2	128	91	7
140	ND<2	138	92	7
55.9	ND<2	53.9	93	7
105	ND<2	103	94	7
42.5	ND<2	40.5	95	7
42.4	ND<2	40.4	96	7
25	ND<2	23	97	7

60.9	ND<2	58.9	98	7
ND<2	ND<2	0	98	7
35	ND<2	33	99	7
39	ND<2	37	100	7
160	130	30	101	7
280	130	150	102	7
180	130	50	103	7
360	130	230	104	7
159	130	29	105	7
139	130	9	106	7
330	130	200	107	7
35	130	-95	107	8
130	130	0	107	8
140	130	10	108	8
55.9	130	-74.1	108	9
105	130	-25	108	10
42.5	130	-87.5	108	11
42.4	130	-87.6	108	12
25	130	-105	108	13
60.9	130	-69.1	108	14
ND<2	130	-128	108	15
35	130	-95	108	16
39	130	-91	108	17
280	160	120	109	17
180	160	20	110	17
360	160	200	111	17
159	160	-1	111	18
139	160	-21	111	19
330	160	170	112	19
35	160	-125	112	20
130	160	-30	112	21
140	160	-20	112	22
55.9	160	-104.1	112	23
105	160	-55	112	24
42.5	160	-117.5	112	25
42.4	160	-117.6	112	26
25	160	-135	112	27
60.9	160	-99.1	112	28
ND<2	160	-158	112	29
35	160	-125	112	30
39	160	-121	112	31
180	280	-100	112	32
360	280	80	113	32
159	280	-121	113	33
139	280	-141	113	34
330	280	50	114	34
35	280	-245	114	35
130	280	-150	114	36
140	280	-140	114	37
55.9	280	-224.1	114	38
105	280	-175	114	39
42.5	280	-237.5	114	40
42.4	280	-237.6	114	41
25	280	-255	114	42
60.9	280	-219.1	114	43
ND<2	280	-278	114	44
35	280	-245	114	45
39	280	-241	114	46

360	180	180	115	46
159	180	-21	115	47
139	180	-41	115	48
330	180	150	116	48
35	180	-145	116	49
130	180	-50	116	50
140	180	-40	116	51
55.9	180	-124.1	116	52
105	180	-75	116	53
42.5	180	-137.5	116	54
42.4	180	-137.6	116	55
25	180	-155	116	56
60.9	180	-119.1	116	57
ND<2	180	-178	116	58
35	180	-145	116	59
39	180	-141	116	60
159	360	-201	116	61
139	360	-221	116	62
330	360	-30	116	63
35	360	-325	116	64
130	360	-230	116	65
140	360	-220	116	66
55.9	360	-304.1	116	67
105	360	-255	116	68
42.5	360	-317.5	116	69
42.4	360	-317.6	116	70
25	360	-335	116	71
60.9	360	-299.1	116	72
ND<2	360	-358	116	73
35	360	-325	116	74
39	360	-321	116	75
139	159	-20	116	76
330	159	171	117	76
35	159	-124	117	77
130	159	-29	117	78
140	159	-19	117	79
55.9	159	-103.1	117	80
105	159	-54	117	81
42.5	159	-116.5	117	82
42.4	159	-116.6	117	83
25	159	-134	117	84
60.9	159	-98.1	117	85
ND<2	159	-157	117	86
35	159	-124	117	87
39	159	-120	117	88
330	139	191	118	88
35	139	-104	118	89
130	139	-9	118	90
140	139	1	119	90
55.9	139	-83.1	119	91
105	139	-34	119	92
42.5	139	-96.5	119	93
42.4	139	-96.6	119	94
25	139	-114	119	95
60.9	139	-78.1	119	96
ND<2	139	-137	119	97
35	139	-104	119	98
39	139	-100	119	99

35	330	-295	119	100
130	330	-200	119	101
140	330	-190	119	102
55.9	330	-274.1	119	103
105	330	-225	119	104
42.5	330	-287.5	119	105
42.4	330	-287.6	119	106
25	330	-305	119	107
60.9	330	-269.1	119	108
ND<2	330	-328	119	109
35	330	-295	119	110
39	330	-291	119	111
130	35	95	120	111
140	35	105	121	111
55.9	35	20.9	122	111
105	35	70	123	111
42.5	35	7.5	124	111
42.4	35	7.4	125	111
25	35	-10	125	112
60.9	35	25.9	126	112
ND<2	35	-33	126	113
35	35	0	126	113
39	35	4	127	113
140	130	10	128	113
55.9	130	-74.1	128	114
105	130	-25	128	115
42.5	130	-87.5	128	116
42.4	130	-87.6	128	117
25	130	-105	128	118
60.9	130	-69.1	128	119
ND<2	130	-128	128	120
35	130	-95	128	121
39	130	-91	128	122
55.9	140	-84.1	128	123
105	140	-35	128	124
42.5	140	-97.5	128	125
42.4	140	-97.6	128	126
25	140	-115	128	127
60.9	140	-79.1	128	128
ND<2	140	-138	128	129
35	140	-105	128	130
39	140	-101	128	131
105	55.9	49.1	129	131
42.5	55.9	-13.4	129	132
42.4	55.9	-13.5	129	133
25	55.9	-30.9	129	134
60.9	55.9	5	130	134
ND<2	55.9	-53.9	130	135
35	55.9	-20.9	130	136
39	55.9	-16.9	130	137
42.5	105	-62.5	130	138
42.4	105	-62.6	130	139
25	105	-80	130	140
60.9	105	-44.1	130	141
ND<2	105	-103	130	142
35	105	-70	130	143
39	105	-66	130	144

42.4	42.5	-0.1	130	145
25	42.5	-17.5	130	146
60.9	42.5	18.4	131	146
ND<2	42.5	-40.5	131	147
35	42.5	-7.5	131	148
39	42.5	-3.5	131	149
25	42.4	-17.4	131	150
60.9	42.4	18.5	132	150
ND<2	42.4	-40.4	132	151
35	42.4	-7.4	132	152
39	42.4	-3.4	132	153
60.9	25	35.9	133	153
ND<2	25	-23	133	154
35	25	10	134	154
39	25	14	135	154
ND<2	60.9	-58.9	135	155
35	60.9	-25.9	135	156
39	60.9	-21.9	135	157
35	ND<2	33	136	157
39	ND<2	37	137	157
39	35	4	138	157

S Statistic = 138 - 157 = -19

Tied Group	Value	Members
1	2	3
2	130	2
3	35	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	

11/20/2008	1
6/11/2009	1

There are 0 time periods with multiple data

A = 102
B = 0
C = 6
D = 0
E = 10
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1827.67
Z-Score = -0.421041
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-0.421041 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: cis-1,2-Dichloroethene

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
11	5.4	5.6	1	0	
10	5.4	4.6	2	0	
15	5.4	9.6	3	0	
ND<2	5.4	-3.4	3	1	
16	5.4	10.6	4	1	
12	5.4	6.6	5	1	
ND<2	5.4	-3.4	5	2	
5.2	5.4	-0.2	5	3	
13	5.4	7.6	6	3	
11.1	5.4	5.7	7	3	
ND<2	5.4	-3.4	7	4	
12	5.4	6.6	8	4	
10	5.4	4.6	9	4	
11	5.4	5.6	10	4	
ND<2	5.4	-3.4	10	5	
9.47	5.4	4.07	11	5	
4.56	5.4	-0.84	11	6	
2.88	5.4	-2.52	11	7	
1.71 J	5.4	-3.69	11	8	
5.7	5.4	0.3	12	8	
3.24	5.4	-2.16	12	9	
ND<2	5.4	-3.4	12	10	
ND<2	5.4	-3.4	12	11	
1.3	5.4	-4.1	12	12	
10	11	-1	12	13	
15	11	4	13	13	
ND<2	11	-9	13	14	
16	11	5	14	14	
12	11	1	15	14	
ND<2	11	-9	15	15	
5.2	11	-5.8	15	16	
13	11	2	16	16	
11.1	11	0.1	17	16	
ND<2	11	-9	17	17	
12	11	1	18	17	
10	11	-1	18	18	
11	11	0	18	18	
ND<2	11	-9	18	19	
9.47	11	-1.53	18	20	
4.56	11	-6.44	18	21	
2.88	11	-8.12	18	22	
1.71 J	11	-9.29	18	23	
5.7	11	-5.3	18	24	
3.24	11	-7.76	18	25	
ND<2	11	-9	18	26	
ND<2	11	-9	18	27	
1.3	11	-9.7	18	28	

15	10	5	19	28
ND<2	10	-8	19	29
16	10	6	20	29
12	10	2	21	29
ND<2	10	-8	21	30
5.2	10	-4.8	21	31
13	10	3	22	31
11.1	10	1.1	23	31
ND<2	10	-8	23	32
12	10	2	24	32
10	10	0	24	32
11	10	1	25	32
ND<2	10	-8	25	33
9.47	10	-0.53	25	34
4.56	10	-5.44	25	35
2.88	10	-7.12	25	36
1.71 J	10	-8.29	25	37
5.7	10	-4.3	25	38
3.24	10	-6.76	25	39
ND<2	10	-8	25	40
ND<2	10	-8	25	41
1.3	10	-8.7	25	42
ND<2	15	-13	25	43
16	15	1	26	43
12	15	-3	26	44
ND<2	15	-13	26	45
5.2	15	-9.8	26	46
13	15	-2	26	47
11.1	15	-3.9	26	48
ND<2	15	-13	26	49
12	15	-3	26	50
10	15	-5	26	51
11	15	-4	26	52
ND<2	15	-13	26	53
9.47	15	-5.53	26	54
4.56	15	-10.44	26	55
2.88	15	-12.12	26	56
1.71 J	15	-13.29	26	57
5.7	15	-9.3	26	58
3.24	15	-11.76	26	59
ND<2	15	-13	26	60
ND<2	15	-13	26	61
1.3	15	-13.7	26	62
16	ND<2	14	27	62
12	ND<2	10	28	62
ND<2	ND<2	0	28	62
5.2	ND<2	3.2	29	62
13	ND<2	11	30	62
11.1	ND<2	9.1	31	62
ND<2	ND<2	0	31	62
12	ND<2	10	32	62
10	ND<2	8	33	62
11	ND<2	9	34	62
ND<2	ND<2	0	34	62
9.47	ND<2	7.47	35	62
4.56	ND<2	2.56	36	62
2.88	ND<2	0.88	37	62
1.71 J	ND<2	-0.29	37	63
5.7	ND<2	3.7	38	63

3.24	ND<2	1.24	39	63
ND<2	ND<2	0	39	63
ND<2	ND<2	0	39	63
1.3	ND<2	-0.7	39	64
12	16	-4	39	65
ND<2	16	-14	39	66
5.2	16	-10.8	39	67
13	16	-3	39	68
11.1	16	-4.9	39	69
ND<2	16	-14	39	70
12	16	-4	39	71
10	16	-6	39	72
11	16	-5	39	73
ND<2	16	-14	39	74
9.47	16	-6.53	39	75
4.56	16	-11.44	39	76
2.88	16	-13.12	39	77
1.71 J	16	-14.29	39	78
5.7	16	-10.3	39	79
3.24	16	-12.76	39	80
ND<2	16	-14	39	81
ND<2	16	-14	39	82
1.3	16	-14.7	39	83
ND<2	12	-10	39	84
5.2	12	-6.8	39	85
13	12	1	40	85
11.1	12	-0.9	40	86
ND<2	12	-10	40	87
12	12	0	40	87
10	12	-2	40	88
11	12	-1	40	89
ND<2	12	-10	40	90
9.47	12	-2.53	40	91
4.56	12	-7.44	40	92
2.88	12	-9.12	40	93
1.71 J	12	-10.29	40	94
5.7	12	-6.3	40	95
3.24	12	-8.76	40	96
ND<2	12	-10	40	97
ND<2	12	-10	40	98
1.3	12	-10.7	40	99
5.2	ND<2	3.2	41	99
13	ND<2	11	42	99
11.1	ND<2	9.1	43	99
ND<2	ND<2	0	43	99
12	ND<2	10	44	99
10	ND<2	8	45	99
11	ND<2	9	46	99
ND<2	ND<2	0	46	99
9.47	ND<2	7.47	47	99
4.56	ND<2	2.56	48	99
2.88	ND<2	0.88	49	99
1.71 J	ND<2	-0.29	49	100
5.7	ND<2	3.7	50	100
3.24	ND<2	1.24	51	100
ND<2	ND<2	0	51	100
ND<2	ND<2	0	51	100
1.3	ND<2	-0.7	51	101

13	5.2	7.8	52	101
11.1	5.2	5.9	53	101
ND<2	5.2	-3.2	53	102
12	5.2	6.8	54	102
10	5.2	4.8	55	102
11	5.2	5.8	56	102
ND<2	5.2	-3.2	56	103
9.47	5.2	4.27	57	103
4.56	5.2	-0.64	57	104
2.88	5.2	-2.32	57	105
1.71 J	5.2	-3.49	57	106
5.7	5.2	0.5	58	106
3.24	5.2	-1.96	58	107
ND<2	5.2	-3.2	58	108
ND<2	5.2	-3.2	58	109
1.3	5.2	-3.9	58	110
11.1	13	-1.9	58	111
ND<2	13	-11	58	112
12	13	-1	58	113
10	13	-3	58	114
11	13	-2	58	115
ND<2	13	-11	58	116
9.47	13	-3.53	58	117
4.56	13	-8.44	58	118
2.88	13	-10.12	58	119
1.71 J	13	-11.29	58	120
5.7	13	-7.3	58	121
3.24	13	-9.76	58	122
ND<2	13	-11	58	123
ND<2	13	-11	58	124
1.3	13	-11.7	58	125
ND<2	11.1	-9.1	58	126
12	11.1	0.9	59	126
10	11.1	-1.1	59	127
11	11.1	-0.1	59	128
ND<2	11.1	-9.1	59	129
9.47	11.1	-1.63	59	130
4.56	11.1	-6.54	59	131
2.88	11.1	-8.22	59	132
1.71 J	11.1	-9.39	59	133
5.7	11.1	-5.4	59	134
3.24	11.1	-7.86	59	135
ND<2	11.1	-9.1	59	136
ND<2	11.1	-9.1	59	137
1.3	11.1	-9.8	59	138
12	ND<2	10	60	138
10	ND<2	8	61	138
11	ND<2	9	62	138
ND<2	ND<2	0	62	138
9.47	ND<2	7.47	63	138
4.56	ND<2	2.56	64	138
2.88	ND<2	0.88	65	138
1.71 J	ND<2	-0.29	65	139
5.7	ND<2	3.7	66	139
3.24	ND<2	1.24	67	139
ND<2	ND<2	0	67	139
ND<2	ND<2	0	67	139
1.3	ND<2	-0.7	67	140

10	12	-2	67	141
11	12	-1	67	142
ND<2	12	-10	67	143
9.47	12	-2.53	67	144
4.56	12	-7.44	67	145
2.88	12	-9.12	67	146
1.71 J	12	-10.29	67	147
5.7	12	-6.3	67	148
3.24	12	-8.76	67	149
ND<2	12	-10	67	150
ND<2	12	-10	67	151
1.3	12	-10.7	67	152
11	10	1	68	152
ND<2	10	-8	68	153
9.47	10	-0.53	68	154
4.56	10	-5.44	68	155
2.88	10	-7.12	68	156
1.71 J	10	-8.29	68	157
5.7	10	-4.3	68	158
3.24	10	-6.76	68	159
ND<2	10	-8	68	160
ND<2	10	-8	68	161
1.3	10	-8.7	68	162
ND<2	11	-9	68	163
9.47	11	-1.53	68	164
4.56	11	-6.44	68	165
2.88	11	-8.12	68	166
1.71 J	11	-9.29	68	167
5.7	11	-5.3	68	168
3.24	11	-7.76	68	169
ND<2	11	-9	68	170
ND<2	11	-9	68	171
1.3	11	-9.7	68	172
9.47	ND<2	7.47	69	172
4.56	ND<2	2.56	70	172
2.88	ND<2	0.88	71	172
1.71 J	ND<2	-0.29	71	173
5.7	ND<2	3.7	72	173
3.24	ND<2	1.24	73	173
ND<2	ND<2	0	73	173
ND<2	ND<2	0	73	173
1.3	ND<2	-0.7	73	174
4.56	9.47	-4.91	73	175
2.88	9.47	-6.59	73	176
1.71 J	9.47	-7.76	73	177
5.7	9.47	-3.77	73	178
3.24	9.47	-6.23	73	179
ND<2	9.47	-7.47	73	180
ND<2	9.47	-7.47	73	181
1.3	9.47	-8.17	73	182
2.88	4.56	-1.68	73	183
1.71 J	4.56	-2.85	73	184
5.7	4.56	1.14	74	184
3.24	4.56	-1.32	74	185
ND<2	4.56	-2.56	74	186
ND<2	4.56	-2.56	74	187
1.3	4.56	-3.26	74	188

1.71 J	2.88	-1.17	74	189
5.7	2.88	2.82	75	189
3.24	2.88	0.36	76	189
ND<2	2.88	-0.88	76	190
ND<2	2.88	-0.88	76	191
1.3	2.88	-1.58	76	192
5.7	1.71 J	3.99	77	192
3.24	1.71 J	1.53	78	192
ND<2	1.71 J	0.29	79	192
ND<2	1.71 J	0.29	80	192
1.3	1.71 J	-0.41	80	193
3.24	5.7	-2.46	80	194
ND<2	5.7	-3.7	80	195
ND<2	5.7	-3.7	80	196
1.3	5.7	-4.4	80	197
ND<2	3.24	-1.24	80	198
ND<2	3.24	-1.24	80	199
1.3	3.24	-1.94	80	200
ND<2	ND<2	0	80	200
1.3	ND<2	-0.7	80	201
1.3	ND<2	-0.7	80	202

S Statistic = 80 - 202 = -122

Tied Group	Value	Members
1	11	2
2	10	2
3	2	6
4	12	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1

6/5/2008 1
11/20/2008 1
6/11/2009 1
There are 0 time periods with multiple data

A = 564
B = 0
C = 120
D = 0
E = 36
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1802
Z-Score = -2.85041
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.85041 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: cis-1,2-Dichloroethene

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
15	4	11	1	0	
32	4	28	2	0	
26	4	22	3	0	
ND<2	4	-2	3	1	
40	4	36	4	1	
26	4	22	5	1	
38	4	34	6	1	
7.6	4	3.6	7	1	
32	4	28	8	1	
42.7	4	38.7	9	1	
24.9	4	20.9	10	1	
11	4	7	11	1	
11	4	7	12	1	
7.1	4	3.1	13	1	
ND<2	4	-2	13	2	
ND<2	4	-2	13	3	
13.4	4	9.4	14	3	
15.8	4	11.8	15	3	
8.96	4	4.96	16	3	
9.1	4	5.1	17	3	
13.6	4	9.6	18	3	
13.5	4	9.5	19	3	
ND<2	4	-2	19	4	
9	4	5	20	4	
32	15	17	21	4	
26	15	11	22	4	
ND<2	15	-13	22	5	
40	15	25	23	5	
26	15	11	24	5	
38	15	23	25	5	
7.6	15	-7.4	25	6	
32	15	17	26	6	
42.7	15	27.7	27	6	
24.9	15	9.9	28	6	
11	15	-4	28	7	
11	15	-4	28	8	
7.1	15	-7.9	28	9	
ND<2	15	-13	28	10	
ND<2	15	-13	28	11	
13.4	15	-1.6	28	12	
15.8	15	0.8	29	12	
8.96	15	-6.04	29	13	
9.1	15	-5.9	29	14	
13.6	15	-1.4	29	15	
13.5	15	-1.5	29	16	
ND<2	15	-13	29	17	
9	15	-6	29	18	

26	32	-6	29	19
ND<2	32	-30	29	20
40	32	8	30	20
26	32	-6	30	21
38	32	6	31	21
7.6	32	-24.4	31	22
32	32	0	31	22
42.7	32	10.7	32	22
24.9	32	-7.1	32	23
11	32	-21	32	24
11	32	-21	32	25
7.1	32	-24.9	32	26
ND<2	32	-30	32	27
ND<2	32	-30	32	28
13.4	32	-18.6	32	29
15.8	32	-16.2	32	30
8.96	32	-23.04	32	31
9.1	32	-22.9	32	32
13.6	32	-18.4	32	33
13.5	32	-18.5	32	34
ND<2	32	-30	32	35
9	32	-23	32	36
ND<2	26	-24	32	37
40	26	14	33	37
26	26	0	33	37
38	26	12	34	37
7.6	26	-18.4	34	38
32	26	6	35	38
42.7	26	16.7	36	38
24.9	26	-1.1	36	39
11	26	-15	36	40
11	26	-15	36	41
7.1	26	-18.9	36	42
ND<2	26	-24	36	43
ND<2	26	-24	36	44
13.4	26	-12.6	36	45
15.8	26	-10.2	36	46
8.96	26	-17.04	36	47
9.1	26	-16.9	36	48
13.6	26	-12.4	36	49
13.5	26	-12.5	36	50
ND<2	26	-24	36	51
9	26	-17	36	52
40	ND<2	38	37	52
26	ND<2	24	38	52
38	ND<2	36	39	52
7.6	ND<2	5.6	40	52
32	ND<2	30	41	52
42.7	ND<2	40.7	42	52
24.9	ND<2	22.9	43	52
11	ND<2	9	44	52
11	ND<2	9	45	52
7.1	ND<2	5.1	46	52
ND<2	ND<2	0	46	52
ND<2	ND<2	0	46	52
13.4	ND<2	11.4	47	52
15.8	ND<2	13.8	48	52
8.96	ND<2	6.96	49	52
9.1	ND<2	7.1	50	52

13.6	ND<2	11.6	51	52
13.5	ND<2	11.5	52	52
ND<2	ND<2	0	52	52
9	ND<2	7	53	52
26	40	-14	53	53
38	40	-2	53	54
7.6	40	-32.4	53	55
32	40	-8	53	56
42.7	40	2.7	54	56
24.9	40	-15.1	54	57
11	40	-29	54	58
11	40	-29	54	59
7.1	40	-32.9	54	60
ND<2	40	-38	54	61
ND<2	40	-38	54	62
13.4	40	-26.6	54	63
15.8	40	-24.2	54	64
8.96	40	-31.04	54	65
9.1	40	-30.9	54	66
13.6	40	-26.4	54	67
13.5	40	-26.5	54	68
ND<2	40	-38	54	69
9	40	-31	54	70
38	26	12	55	70
7.6	26	-18.4	55	71
32	26	6	56	71
42.7	26	16.7	57	71
24.9	26	-1.1	57	72
11	26	-15	57	73
11	26	-15	57	74
7.1	26	-18.9	57	75
ND<2	26	-24	57	76
ND<2	26	-24	57	77
13.4	26	-12.6	57	78
15.8	26	-10.2	57	79
8.96	26	-17.04	57	80
9.1	26	-16.9	57	81
13.6	26	-12.4	57	82
13.5	26	-12.5	57	83
ND<2	26	-24	57	84
9	26	-17	57	85
7.6	38	-30.4	57	86
32	38	-6	57	87
42.7	38	4.7	58	87
24.9	38	-13.1	58	88
11	38	-27	58	89
11	38	-27	58	90
7.1	38	-30.9	58	91
ND<2	38	-36	58	92
ND<2	38	-36	58	93
13.4	38	-24.6	58	94
15.8	38	-22.2	58	95
8.96	38	-29.04	58	96
9.1	38	-28.9	58	97
13.6	38	-24.4	58	98
13.5	38	-24.5	58	99
ND<2	38	-36	58	100
9	38	-29	58	101

32	7.6	24.4	59	101
42.7	7.6	35.1	60	101
24.9	7.6	17.3	61	101
11	7.6	3.4	62	101
11	7.6	3.4	63	101
7.1	7.6	-0.5	63	102
ND<2	7.6	-5.6	63	103
ND<2	7.6	-5.6	63	104
13.4	7.6	5.8	64	104
15.8	7.6	8.2	65	104
8.96	7.6	1.36	66	104
9.1	7.6	1.5	67	104
13.6	7.6	6	68	104
13.5	7.6	5.9	69	104
ND<2	7.6	-5.6	69	105
9	7.6	1.4	70	105
42.7	32	10.7	71	105
24.9	32	-7.1	71	106
11	32	-21	71	107
11	32	-21	71	108
7.1	32	-24.9	71	109
ND<2	32	-30	71	110
ND<2	32	-30	71	111
13.4	32	-18.6	71	112
15.8	32	-16.2	71	113
8.96	32	-23.04	71	114
9.1	32	-22.9	71	115
13.6	32	-18.4	71	116
13.5	32	-18.5	71	117
ND<2	32	-30	71	118
9	32	-23	71	119
24.9	42.7	-17.8	71	120
11	42.7	-31.7	71	121
11	42.7	-31.7	71	122
7.1	42.7	-35.6	71	123
ND<2	42.7	-40.7	71	124
ND<2	42.7	-40.7	71	125
13.4	42.7	-29.3	71	126
15.8	42.7	-26.9	71	127
8.96	42.7	-33.74	71	128
9.1	42.7	-33.6	71	129
13.6	42.7	-29.1	71	130
13.5	42.7	-29.2	71	131
ND<2	42.7	-40.7	71	132
9	42.7	-33.7	71	133
11	24.9	-13.9	71	134
11	24.9	-13.9	71	135
7.1	24.9	-17.8	71	136
ND<2	24.9	-22.9	71	137
ND<2	24.9	-22.9	71	138
13.4	24.9	-11.5	71	139
15.8	24.9	-9.1	71	140
8.96	24.9	-15.94	71	141
9.1	24.9	-15.8	71	142
13.6	24.9	-11.3	71	143
13.5	24.9	-11.4	71	144
ND<2	24.9	-22.9	71	145
9	24.9	-15.9	71	146

11	11	0	71	146
7.1	11	-3.9	71	147
ND<2	11	-9	71	148
ND<2	11	-9	71	149
13.4	11	2.4	72	149
15.8	11	4.8	73	149
8.96	11	-2.04	73	150
9.1	11	-1.9	73	151
13.6	11	2.6	74	151
13.5	11	2.5	75	151
ND<2	11	-9	75	152
9	11	-2	75	153
7.1	11	-3.9	75	154
ND<2	11	-9	75	155
ND<2	11	-9	75	156
13.4	11	2.4	76	156
15.8	11	4.8	77	156
8.96	11	-2.04	77	157
9.1	11	-1.9	77	158
13.6	11	2.6	78	158
13.5	11	2.5	79	158
ND<2	11	-9	79	159
9	11	-2	79	160
ND<2	7.1	-5.1	79	161
ND<2	7.1	-5.1	79	162
13.4	7.1	6.3	80	162
15.8	7.1	8.7	81	162
8.96	7.1	1.86	82	162
9.1	7.1	2	83	162
13.6	7.1	6.5	84	162
13.5	7.1	6.4	85	162
ND<2	7.1	-5.1	85	163
9	7.1	1.9	86	163
ND<2	ND<2	0	86	163
13.4	ND<2	11.4	87	163
15.8	ND<2	13.8	88	163
8.96	ND<2	6.96	89	163
9.1	ND<2	7.1	90	163
13.6	ND<2	11.6	91	163
13.5	ND<2	11.5	92	163
ND<2	ND<2	0	92	163
9	ND<2	7	93	163
13.4	ND<2	11.4	94	163
15.8	ND<2	13.8	95	163
8.96	ND<2	6.96	96	163
9.1	ND<2	7.1	97	163
13.6	ND<2	11.6	98	163
13.5	ND<2	11.5	99	163
ND<2	ND<2	0	99	163
9	ND<2	7	100	163
15.8	13.4	2.4	101	163
8.96	13.4	-4.44	101	164
9.1	13.4	-4.3	101	165
13.6	13.4	0.2	102	165
13.5	13.4	0.1	103	165
ND<2	13.4	-11.4	103	166
9	13.4	-4.4	103	167

8.96	15.8	-6.84	103	168
9.1	15.8	-6.7	103	169
13.6	15.8	-2.2	103	170
13.5	15.8	-2.3	103	171
ND<2	15.8	-13.8	103	172
9	15.8	-6.8	103	173
9.1	8.96	0.14	104	173
13.6	8.96	4.64	105	173
13.5	8.96	4.54	106	173
ND<2	8.96	-6.96	106	174
9	8.96	0.04	107	174
13.6	9.1	4.5	108	174
13.5	9.1	4.4	109	174
ND<2	9.1	-7.1	109	175
9	9.1	-0.1	109	176
13.5	13.6	-0.1	109	177
ND<2	13.6	-11.6	109	178
9	13.6	-4.6	109	179
ND<2	13.5	-11.5	109	180
9	13.5	-4.5	109	181
9	ND<2	7	110	181

S Statistic = 110 - 181 = -71

Tied Group	Value	Members
1	32	2
2	26	2
3	2	4
4	11	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1

6/5/2008 1
11/20/2008 1
6/11/2009 1
There are 0 time periods with multiple data

A = 210
B = 0
C = 24
D = 0
E = 18
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1821.67
Z-Score = -1.64007
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-1.64007 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Cobalt

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 167
Percent Non-Detects: 85.641%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	14 (93.3333%)	3/16/1999	ND<20	ND<20
			9/23/1999	ND<20	ND<20
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	ND<20	ND<20
			11/20/2008	ND<20	ND<20
			6/11/2009	0.11 J	0.11 J

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	21 (84%)	7/20/1995	ND<20	ND<20
			8/24/1995	ND<20	ND<20
			9/28/1995	ND<20	ND<20
			10/26/1995	ND<20	ND<20
			11/19/1996	ND<20	ND<20
			12/19/1996	ND<20	ND<20
			3/24/1997	ND<20	ND<20
			9/24/1997	ND<20	ND<20
			4/7/1998	ND<20	ND<20
			9/23/1998	ND<20	ND<20
			3/16/1999	ND<20	ND<20
			9/23/1999	ND<20	ND<20
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	1.25 J	1.25 J
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	1.02 J	1.02 J
			11/20/2008	3 J	3 J
			6/11/2009	1	1

MW-8	25	22 (88%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	1 J	1 J	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	0.609 J	0.609 J	
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.4	0.4	
MW-7	25	22 (88%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	0.586 J	0.586 J	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	0.989 J	0.989 J	
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.48	0.48	
MW-6	25	24 (96%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	

		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	0.13 J	0.13 J		
MW-12BR	15	12 (80%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	1.46 J	1.46 J		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	1.48 J	1.48 J		
		11/20/2008	ND<20	ND<20		
		6/11/2009	1.1	1.1		
MW-12AR	15	12 (80%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	0.698 J	0.698 J		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	1.48 J	1.48 J		
		11/20/2008	ND<20	ND<20		
		6/11/2009	0.69	0.69		
MW-11R	25	22 (88%)	7/20/1995	ND<20	ND<20	
		8/24/1995	ND<20	ND<20		
		9/28/1995	ND<20	ND<20		
		10/26/1995	ND<20	ND<20		
		11/19/1996	ND<20	ND<20		
		12/19/1996	ND<20	ND<20		
		3/24/1997	ND<20	ND<20		
		9/24/1997	ND<20	ND<20		
		4/7/1998	ND<20	ND<20		
		9/23/1998	ND<20	ND<20		
		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		

			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	2.13 J	2.13 J	
			5/23/2007	1.02 J	1.02 J	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.25	0.25	
MW-10	25	18 (72%)	7/20/1995	ND<20	ND<20	
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998 ND<20	ND<20		
			9/23/1998	ND<20	ND<20	
			3/16/1999	5	5	
			9/23/1999	25	25	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	1.45 J	1.45 J	
			5/23/2007	ND<20	ND<20	
			11/28/2007	3 J	3 J	
			6/5/2008 2.72 J	2.72 J		
			11/20/2008	6 J	6 J	
			6/11/2009	2	2	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Cobalt

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	ND<20	84
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	ND<20	84
	11/20/2008	ND<20	84
	6/11/2009	0.11 J	168

Rank Sum = 1344
Rank Mean = 89.6

Background Rank Sum = 1344
Background Rank Mean = 89.6

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<20	84
	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	1.25 J	183
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	1.02 J	180

	11/20/2008	3 J	191
	6/11/2009	1	178

Rank Sum = 2496
Rank Mean = 99.84

MW-8	7/20/1995	ND<20	84
	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	1 J	179
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	0.609 J	174
	11/20/2008	ND<20	84
	6/11/2009	0.4	171

Rank Sum = 2372
Rank Mean = 94.88

MW-7	7/20/1995	ND<20	84
	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	0.586 J	173
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	0.989 J	177
	11/20/2008	ND<20	84
	6/11/2009	0.48	172

Rank Sum = 2370
Rank Mean = 94.8

MW-6	7/20/1995	ND<20	84

	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	ND<20	84
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	ND<20	84
	11/20/2008	ND<20	84
	6/11/2009	0.13 J	169

Rank Sum = 2185
Rank Mean = 87.4

MW-12BR	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	1.46 J	185
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	1.48 J	186
	11/20/2008	ND<20	84
	6/11/2009	1.1	182

Rank Sum = 1561
Rank Mean = 104.067

MW-12AR	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	0.698 J	176
	5/23/2007	ND<20	84
	11/28/2007	ND<20	84
	6/5/2008	1.48 J	187
	11/20/2008	ND<20	84
	6/11/2009	0.69	175

Rank Sum = 1546
Rank Mean = 103.067

MW-11R	7/20/1995	ND<20	84
	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	ND<20	84
	9/23/1999	ND<20	84
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	2.13 J	189
	5/23/2007	1.02 J	181
	11/28/2007	ND<20	84
	6/5/2008	ND<20	84
	11/20/2008	ND<20	84
	6/11/2009	0.25	170

Rank Sum = 2388
Rank Mean = 95.52

MW-10	7/20/1995	ND<20	84
	8/24/1995	ND<20	84
	9/28/1995	ND<20	84
	10/26/1995	ND<20	84
	11/19/1996	ND<20	84
	12/19/1996	ND<20	84
	3/24/1997	ND<20	84
	9/24/1997	ND<20	84
	4/7/1998	ND<20	84
	9/23/1998	ND<20	84
	3/16/1999	5	193
	9/23/1999	25	195
	3/15/2000	ND<20	84
	9/24/2003	ND<20	84
	3/11/2004	ND<20	84
	10/12/2004	ND<20	84
	4/1/2005	ND<20	84
	10/25/2005	ND<20	84
	4/29/2006	ND<20	84
	11/18/2006	1.45 J	184
	5/23/2007	ND<20	84
	11/28/2007	3 J	192
	6/5/2008	2.72 J	190
	11/20/2008	6 J	194
	6/11/2009	2	188

Rank Sum = 2848
Rank Mean = 113.92

Calculation Results:

Kruskal-Wallis H Statistic = 3.7295
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 10.0287

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
3.7295 < 15.5073 indicating no significant group difference at 5% significance level
10.0287 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Copper

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 164
Percent Non-Detects: 84.1026%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	12 (80%)	3/16/1999	10 J	10 J
			9/23/1999	9 J	9 J
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	ND<20	ND<20
			11/20/2008	ND<20	ND<20
			6/11/2009	0.5 J	0.5 J

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	20 (80%)	7/20/1995	ND<20	ND<20
			8/24/1995	ND<20	ND<20
			9/28/1995	ND<20	ND<20
			10/26/1995	ND<20	ND<20
			11/19/1996	ND<20	ND<20
			12/19/1996	ND<20	ND<20
			3/24/1997	ND<20	ND<20
			9/24/1997	ND<20	ND<20
			4/7/1998	ND<20	ND<20
			9/23/1998	ND<20	ND<20
			3/16/1999	20	20
			9/23/1999	ND<20	ND<20
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	0.01 J	0.01 J
			11/18/2006	13.8	13.8
			5/23/2007	5.59 J	5.59 J
			11/28/2007	ND<20	ND<20
			6/5/2008	ND<20	ND<20
			11/20/2008	ND<20	ND<20
			6/11/2009	0.76 J	0.76 J

MW-8	25	22 (88%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	51.1	51.1	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	30	30	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	ND<20	ND<20	
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.31 J	0.31 J	
MW-7	25	16 (64%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	78.2	78.2	
			10/26/1995	26.1	26.1	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	50	50	
			9/23/1999	10 J	10 J	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	10.8	10.8	
			11/28/2007	7.06 J	7.06 J	
			6/5/2008	7.55 J	7.55 J	
			11/20/2008	6 J	6 J	
			6/11/2009	2.3	2.3	
MW-6	25	23 (92%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	

		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	5.16 J	5.16 J		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	1.2	1.2		
MW-12BR	15	13 (86.6667%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	6 J	6 J		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	1.6	1.6		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	0.37 J	0.37 J		
MW-11R	25	21 (84%)	7/20/1995	ND<20	ND<20	
		8/24/1995	ND<20	ND<20		
		9/28/1995	ND<20	ND<20		
		10/26/1995	ND<20	ND<20		
		11/19/1996	ND<20	ND<20		
		12/19/1996	ND<20	ND<20		
		3/24/1997	ND<20	ND<20		
		9/24/1997	ND<20	ND<20		
		4/7/1998	ND<20	ND<20		
		9/23/1998	ND<20	ND<20		
		3/16/1999	ND<20	ND<20		
		9/23/1999	32	32		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		

			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	10 J	10 J	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	8 J	8 J	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.59 J	0.59 J	
MW-10	25	23 (92%)	7/20/1995	ND<20	ND<20	
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998 ND<20	ND<20		
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	6.64 J	6.64 J	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	0.39 J	0.39 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Copper

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	10 J	184
	9/23/1999	9 J	183
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	ND<20	82.5
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	0.5 J	169

Rank Sum = 1526
Rank Mean = 101.733

Background Rank Sum = 1526
Background Rank Mean = 101.733

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<20	82.5
	8/24/1995	ND<20	82.5
	9/28/1995	ND<20	82.5
	10/26/1995	ND<20	82.5
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	20	189
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	0.01 J	165
	11/18/2006	13.8	188
	5/23/2007	5.59 J	176
	11/28/2007	ND<20	82.5
	6/5/2008	ND<20	82.5

	11/20/2008	ND<20	82.5
	6/11/2009	0.76 J	171

Rank Sum = 2539
Rank Mean = 101.56

MW-8	7/20/1995	ND<20	82.5
	8/24/1995	ND<20	82.5
	9/28/1995	51.1	194
	10/26/1995	ND<20	82.5
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	30	191
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	ND<20	82.5
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	0.31 J	166

Rank Sum = 2366
Rank Mean = 94.64

MW-7	7/20/1995	ND<20	82.5
	8/24/1995	ND<20	82.5
	9/28/1995	78.2	195
	10/26/1995	26.1	190
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	50	193
	9/23/1999	10 J	185
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	10.8	187
	11/28/2007	7.06 J	180
	6/5/2008	7.55 J	181
	11/20/2008	6 J	177
	6/11/2009	2.3	174

Rank Sum = 2982
Rank Mean = 119.28

MW-6	7/20/1995	ND<20	82.5

	8/24/1995	ND<20	82.5
	9/28/1995	ND<20	82.5
	10/26/1995	ND<20	82.5
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	ND<20	82.5
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	5.16 J	175
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	1.2	172

Rank Sum = 2244.5
Rank Mean = 89.78

MW-12BR	3/16/1999	ND<20	82.5
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	6 J	178
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	1.6	173

Rank Sum = 1423.5
Rank Mean = 94.9

MW-12AR	3/16/1999	ND<20	82.5
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	ND<20	82.5
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	0.37 J	167

Rank Sum = 1322
Rank Mean = 88.1333

MW-11R	7/20/1995	ND<20	82.5
	8/24/1995	ND<20	82.5
	9/28/1995	ND<20	82.5
	10/26/1995	ND<20	82.5
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	ND<20	82.5
	9/23/1999	32	192
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	10 J	186
	11/18/2006	ND<20	82.5
	5/23/2007	ND<20	82.5
	11/28/2007	8 J	182
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	0.59 J	170

Rank Sum = 2462.5
Rank Mean = 98.5

MW-10	7/20/1995	ND<20	82.5
	8/24/1995	ND<20	82.5
	9/28/1995	ND<20	82.5
	10/26/1995	ND<20	82.5
	11/19/1996	ND<20	82.5
	12/19/1996	ND<20	82.5
	3/24/1997	ND<20	82.5
	9/24/1997	ND<20	82.5
	4/7/1998	ND<20	82.5
	9/23/1998	ND<20	82.5
	3/16/1999	ND<20	82.5
	9/23/1999	ND<20	82.5
	3/15/2000	ND<20	82.5
	9/24/2003	ND<20	82.5
	3/11/2004	ND<20	82.5
	10/12/2004	ND<20	82.5
	4/1/2005	ND<20	82.5
	10/25/2005	ND<20	82.5
	4/29/2006	ND<20	82.5
	11/18/2006	ND<20	82.5
	5/23/2007	6.64 J	179
	11/28/2007	ND<20	82.5
	6/5/2008	ND<20	82.5
	11/20/2008	ND<20	82.5
	6/11/2009	0.39 J	168

Rank Sum = 2244.5
Rank Mean = 89.78

Calculation Results:

Kruskal-Wallis H Statistic = 5.37463
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 13.2665

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
5.37463 < 15.5073 indicating no significant group difference at 5% significance level
13.2665 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Dibenz(a,h)anthracene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 191
Percent Non-Detects: 97.9487%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original	
MW-13	15	15 (100%)	3/16/1999		ND<10	ND<10
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original	
MW-9	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

MW-8	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	0.77 J B	0.77 J B	
MW-7	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	0.63 J B	0.63 J B	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.52		ND<0.52	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.5 J B	1.5 J B		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005 ND<10	ND<10			
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008 ND<10	ND<10			
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.1 J B	1.1 J B		
MW-11R	25	25 (100%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998 ND<10	ND<10			
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Dibenz(a,h)anthracene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.9487%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.52	FALSE
MW-8	6/11/2009	1	0.77	FALSE
MW-7	6/11/2009	1	0.63	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	1.5	FALSE
MW-12AR	6/11/2009	1	1.1	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: Dichlorodifluoromethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 139
Percent Non-Detects: 71.2821%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.25	ND<0.25

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	16 (64%)	7/20/1995	ND<2	ND<2
			8/24/1995	49	49
			9/28/1995	42	42
			10/26/1995	ND<2	ND<2
			11/19/1996	49	49
			12/19/1996	71	71
			3/24/1997	18	18
			9/24/1997	20	20
			4/7/1998	5.7	5.7
			9/23/1998	ND<2	ND<2
			3/16/1999	11	11
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	1.66 J	1.66 J
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.25	ND<0.25

MW-8	25	15 (60%)	7/20/1995		ND<2	ND<2
			8/24/1995	8.8	8.8	
			9/28/1995	8	8	
			10/26/1995	ND<2	ND<2	
			11/19/1996	12	12	
			12/19/1996	13	13	
			3/24/1997	8	8	
			9/24/1997	ND<2	ND<2	
			4/7/1998	5.7	5.7	
			9/23/1998	ND<2	ND<2	
			3/16/1999	2.1	2.1	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	0.61 J	0.61 J	
			11/18/2006	0.58 J	0.58 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	1.9	1.9	
MW-7	25	20 (80%)	7/20/1995		ND<2	ND<2
			8/24/1995	19	19	
			9/28/1995	20	20	
			10/26/1995	ND<2	ND<2	
			11/19/1996	20	20	
			12/19/1996	ND<2	ND<2	
			3/24/1997	10	10	
			9/24/1997	ND<2	ND<2	
			4/7/1998	5.7	5.7	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.25		ND<0.25
MW-6	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	0.6 J	0.6 J	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12BR	15	13 (86.6667%)	3/16/1999		9.6	9.6
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	3.73	3.73		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-12AR	15	9 (60%)	3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2		
		3/15/2000	12	12		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	5.11	5.11		
		4/29/2006	4.41	4.41		
		11/18/2006	3.61	3.61		
		5/23/2007	ND<2	ND<2		
		11/28/2007	1.81 J	1.81 J		
		6/5/2008	1.45 J	1.45 J		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.25		ND<0.25	
MW-11R	25	9 (36%)	7/20/1995	ND<2	ND<2	
		8/24/1995	59	59		
		9/28/1995	16	16		
		10/26/1995	ND<2	ND<2		
		11/19/1996	120	120		
		12/19/1996	120	120		
		3/24/1997	49	49		
		9/24/1997	20	20		
		4/7/1998	27	27		
		9/23/1998	13	13		
		3/16/1999	8.1	8.1		
		9/23/1999	ND<2	ND<2		
		3/15/2000	15	15		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	4.85	4.85	
			10/25/2005	0.8 J	0.8 J	
			4/29/2006	ND<2	ND<2	
			11/18/2006	0.68 J	0.68 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.41 J	0.41 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	1.64 J	1.64 J	
			6/11/2009	1.3	1.3	
MW-10	25	18 (72%)	7/20/1995		ND<2	ND<2
			8/24/1995	1.7 J	1.7 J	
			9/28/1995	2	2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	8	8	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	2.96	2.96	
			10/25/2005	2.13	2.13	
			4/29/2006	1.5 J	1.5 J	
			11/18/2006	0.62 J	0.62 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.25		ND<0.25

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Dichlorodifluoromethane

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	70
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	ND<2	70
	10/25/2005	ND<2	70
	4/29/2006	ND<2	70
	11/18/2006	ND<2	70
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 1050
Rank Mean = 70

Background Rank Sum = 1050
Background Rank Mean = 70

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	70
	8/24/1995	49	189
	9/28/1995	42	188
	10/26/1995	ND<2	70
	11/19/1996	49	190
	12/19/1996	71	193
	3/24/1997	18	181
	9/24/1997	20	183
	4/7/1998	5.7	164
	9/23/1998	ND<2	70
	3/16/1999	11	174
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	1.66 J	151
	10/25/2005	ND<2	70
	4/29/2006	ND<2	70
	11/18/2006	ND<2	70
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70

	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 2733
Rank Mean = 109.32

MW-8	7/20/1995	ND<2	70
	8/24/1995	8.8	171
	9/28/1995	8	167
	10/26/1995	ND<2	70
	11/19/1996	12	175
	12/19/1996	13	177
	3/24/1997	8	168
	9/24/1997	ND<2	70
	4/7/1998	5.7	165
	9/23/1998	ND<2	70
	3/16/1999	2.1	156
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	ND<2	70
	10/25/2005	ND<2	70
	4/29/2006	0.61 J	143
	11/18/2006	0.58 J	141
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	1.9	154

Rank Sum = 2667
Rank Mean = 106.68

MW-7	7/20/1995	ND<2	70
	8/24/1995	19	182
	9/28/1995	20	184
	10/26/1995	ND<2	70
	11/19/1996	20	185
	12/19/1996	ND<2	70
	3/24/1997	10	173
	9/24/1997	ND<2	70
	4/7/1998	5.7	166
	9/23/1998	ND<2	70
	3/16/1999	ND<2	70
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	ND<2	70
	10/25/2005	ND<2	70
	4/29/2006	ND<2	70
	11/18/2006	ND<2	70
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 2290
Rank Mean = 91.6

MW-6	7/20/1995	ND<2	70

	8/24/1995	ND<2	70
	9/28/1995	0.6 J	142
	10/26/1995	ND<2	70
	11/19/1996	ND<2	70
	12/19/1996	ND<2	70
	3/24/1997	ND<2	70
	9/24/1997	ND<2	70
	4/7/1998	ND<2	70
	9/23/1998	ND<2	70
	3/16/1999	ND<2	70
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	ND<2	70
	10/25/2005	ND<2	70
	4/29/2006	ND<2	70
	11/18/2006	ND<2	70
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 1822
Rank Mean = 72.88

MW-12BR	3/16/1999	9.6	172
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	3.73	160
	10/25/2005	ND<2	70
	4/29/2006	ND<2	70
	11/18/2006	ND<2	70
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 1242
Rank Mean = 82.8

MW-12AR	3/16/1999	ND<2	70
	9/23/1999	ND<2	70
	3/15/2000	12	176
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	ND<2	70
	10/25/2005	5.11	163
	4/29/2006	4.41	161
	11/18/2006	3.61	159
	5/23/2007	ND<2	70
	11/28/2007	1.81 J	153
	6/5/2008	1.45 J	148
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 1590
Rank Mean = 106

MW-11R	7/20/1995	ND<2	70
	8/24/1995	59	192
	9/28/1995	16	180
	10/26/1995	ND<2	70
	11/19/1996	120	194
	12/19/1996	120	195
	3/24/1997	49	191
	9/24/1997	20	186
	4/7/1998	27	187
	9/23/1998	13	178
	3/16/1999	8.1	170
	9/23/1999	ND<2	70
	3/15/2000	15	179
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	4.85	162
	10/25/2005	0.8 J	146
	4/29/2006	ND<2	70
	11/18/2006	0.68 J	145
	5/23/2007	ND<2	70
	11/28/2007	0.41 J	140
	6/5/2008	ND<2	70
	11/20/2008	1.64 J	150
	6/11/2009	1.3	147

Rank Sum = 3372
Rank Mean = 134.88

MW-10	7/20/1995	ND<2	70
	8/24/1995	1.7 J	152
	9/28/1995	2	155
	10/26/1995	ND<2	70
	11/19/1996	ND<2	70
	12/19/1996	8	169
	3/24/1997	ND<2	70
	9/24/1997	ND<2	70
	4/7/1998	ND<2	70
	9/23/1998	ND<2	70
	3/16/1999	ND<2	70
	9/23/1999	ND<2	70
	3/15/2000	ND<2	70
	9/24/2003	ND<2	70
	3/11/2004	ND<2	70
	10/12/2004	ND<2	70
	4/1/2005	2.96	158
	10/25/2005	2.13	157
	4/29/2006	1.5 J	149
	11/18/2006	0.62 J	144
	5/23/2007	ND<2	70
	11/28/2007	ND<2	70
	6/5/2008	ND<2	70
	11/20/2008	ND<2	70
	6/11/2009	ND<0.25	70

Rank Sum = 2344
Rank Mean = 93.76

Calculation Results:

Kruskal-Wallis H Statistic = 22.7708
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 35.7012

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
22.7708 > 15.5073 indicating a significant group difference at 5% significance level
35.7012 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 70

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	109.32	39.32	42.8788	
MW-8	106.68	36.68	42.8788	
MW-7	91.6	21.6	42.8788	
MW-6	72.88	2.88	42.8788	
MW-12BR		82.8	12.8	47.94
MW-12AR		106	36	47.94
MW-11R	134.88	64.88	42.8788	
MW-10	93.76	23.76	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 70

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	109.32	39.32	46.3033	
MW-8	106.68	36.68	46.3033	
MW-7	91.6	21.6	46.3033	
MW-6	72.88	2.88	46.3033	
MW-12BR		82.8	12.8	51.7686
MW-12AR		106	36	51.7686
MW-11R	134.88	64.88	46.3033	
MW-10	93.76	23.76	46.3033	

Mann-Kendall Trend Analysis

Parameter: Dichlorodifluoromethane

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
59	ND<2	57	1	0	
16	ND<2	14	2	0	
ND<2	ND<2	0	2	0	
120	ND<2	118	3	0	
120	ND<2	118	4	0	
49	ND<2	47	5	0	
20	ND<2	18	6	0	
27	ND<2	25	7	0	
13	ND<2	11	8	0	
8.1	ND<2	6.1	9	0	
ND<2	ND<2	0	9	0	
15	ND<2	13	10	0	
ND<2	ND<2	0	10	0	
ND<2	ND<2	0	10	0	
ND<2	ND<2	0	10	0	
4.85	ND<2	2.85	11	0	
0.8 J	ND<2	-1.2	11	1	
ND<2	ND<2	0	11	1	
0.68 J	ND<2	-1.32	11	2	
ND<2	ND<2	0	11	2	
0.41 J	ND<2	-1.59	11	3	
ND<2	ND<2	0	11	3	
1.64 J	ND<2	-0.36	11	4	
1.3	ND<2	-0.7	11	5	
16	59	-43	11	6	
ND<2	59	-57	11	7	
120	59	61	12	7	
120	59	61	13	7	
49	59	-10	13	8	
20	59	-39	13	9	
27	59	-32	13	10	
13	59	-46	13	11	
8.1	59	-50.9	13	12	
ND<2	59	-57	13	13	
15	59	-44	13	14	
ND<2	59	-57	13	15	
ND<2	59	-57	13	16	
ND<2	59	-57	13	17	
4.85	59	-54.15	13	18	
0.8 J	59	-58.2	13	19	
ND<2	59	-57	13	20	
0.68 J	59	-58.32	13	21	
ND<2	59	-57	13	22	
0.41 J	59	-58.59	13	23	
ND<2	59	-57	13	24	
1.64 J	59	-57.36	13	25	
1.3	59	-57.7	13	26	

ND<2	16	-14	13	27
120	16	104	14	27
120	16	104	15	27
49	16	33	16	27
20	16	4	17	27
27	16	11	18	27
13	16	-3	18	28
8.1	16	-7.9	18	29
ND<2	16	-14	18	30
15	16	-1	18	31
ND<2	16	-14	18	32
ND<2	16	-14	18	33
ND<2	16	-14	18	34
4.85	16	-11.15	18	35
0.8 J	16	-15.2	18	36
ND<2	16	-14	18	37
0.68 J	16	-15.32	18	38
ND<2	16	-14	18	39
0.41 J	16	-15.59	18	40
ND<2	16	-14	18	41
1.64 J	16	-14.36	18	42
1.3	16	-14.7	18	43
120	ND<2	118	19	43
120	ND<2	118	20	43
49	ND<2	47	21	43
20	ND<2	18	22	43
27	ND<2	25	23	43
13	ND<2	11	24	43
8.1	ND<2	6.1	25	43
ND<2	ND<2	0	25	43
15	ND<2	13	26	43
ND<2	ND<2	0	26	43
ND<2	ND<2	0	26	43
ND<2	ND<2	0	26	43
4.85	ND<2	2.85	27	43
0.8 J	ND<2	-1.2	27	44
ND<2	ND<2	0	27	44
0.68 J	ND<2	-1.32	27	45
ND<2	ND<2	0	27	45
0.41 J	ND<2	-1.59	27	46
ND<2	ND<2	0	27	46
1.64 J	ND<2	-0.36	27	47
1.3	ND<2	-0.7	27	48
120	120	0	27	48
49	120	-71	27	49
20	120	-100	27	50
27	120	-93	27	51
13	120	-107	27	52
8.1	120	-111.9	27	53
ND<2	120	-118	27	54
15	120	-105	27	55
ND<2	120	-118	27	56
ND<2	120	-118	27	57
ND<2	120	-118	27	58
4.85	120	-115.15	27	59
0.8 J	120	-119.2	27	60
ND<2	120	-118	27	61
0.68 J	120	-119.32	27	62
ND<2	120	-118	27	63

0.41 J	120	-119.59	27	64
ND<2	120	-118	27	65
1.64 J	120	-118.36	27	66
1.3	120	-118.7	27	67
49	120	-71	27	68
20	120	-100	27	69
27	120	-93	27	70
13	120	-107	27	71
8.1	120	-111.9	27	72
ND<2	120	-118	27	73
15	120	-105	27	74
ND<2	120	-118	27	75
ND<2	120	-118	27	76
ND<2	120	-118	27	77
4.85	120	-115.15	27	78
0.8 J	120	-119.2	27	79
ND<2	120	-118	27	80
0.68 J	120	-119.32	27	81
ND<2	120	-118	27	82
0.41 J	120	-119.59	27	83
ND<2	120	-118	27	84
1.64 J	120	-118.36	27	85
1.3	120	-118.7	27	86
20	49	-29	27	87
27	49	-22	27	88
13	49	-36	27	89
8.1	49	-40.9	27	90
ND<2	49	-47	27	91
15	49	-34	27	92
ND<2	49	-47	27	93
ND<2	49	-47	27	94
ND<2	49	-47	27	95
4.85	49	-44.15	27	96
0.8 J	49	-48.2	27	97
ND<2	49	-47	27	98
0.68 J	49	-48.32	27	99
ND<2	49	-47	27	100
0.41 J	49	-48.59	27	101
ND<2	49	-47	27	102
1.64 J	49	-47.36	27	103
1.3	49	-47.7	27	104
27	20	7	28	104
13	20	-7	28	105
8.1	20	-11.9	28	106
ND<2	20	-18	28	107
15	20	-5	28	108
ND<2	20	-18	28	109
ND<2	20	-18	28	110
ND<2	20	-18	28	111
4.85	20	-15.15	28	112
0.8 J	20	-19.2	28	113
ND<2	20	-18	28	114
0.68 J	20	-19.32	28	115
ND<2	20	-18	28	116
0.41 J	20	-19.59	28	117
ND<2	20	-18	28	118
1.64 J	20	-18.36	28	119
1.3	20	-18.7	28	120

13	27	-14	28	121
8.1	27	-18.9	28	122
ND<2	27	-25	28	123
15	27	-12	28	124
ND<2	27	-25	28	125
ND<2	27	-25	28	126
ND<2	27	-25	28	127
4.85	27	-22.15	28	128
0.8 J	27	-26.2	28	129
ND<2	27	-25	28	130
0.68 J	27	-26.32	28	131
ND<2	27	-25	28	132
0.41 J	27	-26.59	28	133
ND<2	27	-25	28	134
1.64 J	27	-25.36	28	135
1.3	27	-25.7	28	136
8.1	13	-4.9	28	137
ND<2	13	-11	28	138
15	13	2	29	138
ND<2	13	-11	29	139
ND<2	13	-11	29	140
ND<2	13	-11	29	141
4.85	13	-8.15	29	142
0.8 J	13	-12.2	29	143
ND<2	13	-11	29	144
0.68 J	13	-12.32	29	145
ND<2	13	-11	29	146
0.41 J	13	-12.59	29	147
ND<2	13	-11	29	148
1.64 J	13	-11.36	29	149
1.3	13	-11.7	29	150
ND<2	8.1	-6.1	29	151
15	8.1	6.9	30	151
ND<2	8.1	-6.1	30	152
ND<2	8.1	-6.1	30	153
ND<2	8.1	-6.1	30	154
4.85	8.1	-3.25	30	155
0.8 J	8.1	-7.3	30	156
ND<2	8.1	-6.1	30	157
0.68 J	8.1	-7.42	30	158
ND<2	8.1	-6.1	30	159
0.41 J	8.1	-7.69	30	160
ND<2	8.1	-6.1	30	161
1.64 J	8.1	-6.46	30	162
1.3	8.1	-6.8	30	163
15	ND<2	13	31	163
ND<2	ND<2	0	31	163
ND<2	ND<2	0	31	163
ND<2	ND<2	0	31	163
4.85	ND<2	2.85	32	163
0.8 J	ND<2	-1.2	32	164
ND<2	ND<2	0	32	164
0.68 J	ND<2	-1.32	32	165
ND<2	ND<2	0	32	165
0.41 J	ND<2	-1.59	32	166
ND<2	ND<2	0	32	166
1.64 J	ND<2	-0.36	32	167
1.3	ND<2	-0.7	32	168

ND<2	15	-13	32	169
ND<2	15	-13	32	170
ND<2	15	-13	32	171
4.85	15	-10.15	32	172
0.8 J	15	-14.2	32	173
ND<2	15	-13	32	174
0.68 J	15	-14.32	32	175
ND<2	15	-13	32	176
0.41 J	15	-14.59	32	177
ND<2	15	-13	32	178
1.64 J	15	-13.36	32	179
1.3	15	-13.7	32	180
ND<2	ND<2	0	32	180
ND<2	ND<2	0	32	180
4.85	ND<2	2.85	33	180
0.8 J	ND<2	-1.2	33	181
ND<2	ND<2	0	33	181
0.68 J	ND<2	-1.32	33	182
ND<2	ND<2	0	33	182
0.41 J	ND<2	-1.59	33	183
ND<2	ND<2	0	33	183
1.64 J	ND<2	-0.36	33	184
1.3	ND<2	-0.7	33	185
ND<2	ND<2	0	33	185
4.85	ND<2	2.85	34	185
0.8 J	ND<2	-1.2	34	186
ND<2	ND<2	0	34	186
0.68 J	ND<2	-1.32	34	187
ND<2	ND<2	0	34	187
0.41 J	ND<2	-1.59	34	188
ND<2	ND<2	0	34	188
1.64 J	ND<2	-0.36	34	189
1.3	ND<2	-0.7	34	190
4.85	ND<2	2.85	35	190
0.8 J	ND<2	-1.2	35	191
ND<2	ND<2	0	35	191
0.68 J	ND<2	-1.32	35	192
ND<2	ND<2	0	35	192
0.41 J	ND<2	-1.59	35	193
ND<2	ND<2	0	35	193
1.64 J	ND<2	-0.36	35	194
1.3	ND<2	-0.7	35	195
0.8 J	4.85	-4.05	35	196
ND<2	4.85	-2.85	35	197
0.68 J	4.85	-4.17	35	198
ND<2	4.85	-2.85	35	199
0.41 J	4.85	-4.44	35	200
ND<2	4.85	-2.85	35	201
1.64 J	4.85	-3.21	35	202
1.3	4.85	-3.55	35	203
ND<2	0.8 J	1.2	36	203
0.68 J	0.8 J	-0.12	36	204
ND<2	0.8 J	1.2	37	204
0.41 J	0.8 J	-0.39	37	205
ND<2	0.8 J	1.2	38	205
1.64 J	0.8 J	0.84	39	205
1.3	0.8 J	0.5	40	205

0.68 J	ND<2	-1.32	40	206
ND<2	ND<2	0	40	206
0.41 J	ND<2	-1.59	40	207
ND<2	ND<2	0	40	207
1.64 J	ND<2	-0.36	40	208
1.3	ND<2	-0.7	40	209
ND<2	0.68 J	1.32	41	209
0.41 J	0.68 J	-0.27	41	210
ND<2	0.68 J	1.32	42	210
1.64 J	0.68 J	0.96	43	210
1.3	0.68 J	0.62	44	210
0.41 J	ND<2	-1.59	44	211
ND<2	ND<2	0	44	211
1.64 J	ND<2	-0.36	44	212
1.3	ND<2	-0.7	44	213
ND<2	0.41 J	1.59	45	213
1.64 J	0.41 J	1.23	46	213
1.3	0.41 J	0.89	47	213
1.64 J	ND<2	-0.36	47	214
1.3	ND<2	-0.7	47	215
1.3	1.64 J	-0.34	47	216

S Statistic = 47 - 216 = -169

Tied Group	Value	Members
1	2	9
2	120	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1

There are 0 time periods with multiple data

A = 1674
B = 0
C = 504
D = 0
E = 74
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1740.33
Z-Score = -4.02711
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-4.02711 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Diethyl Phthalate

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 188
Percent Non-Detects: 96.4103%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.52	ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	22 (88%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	2.55 J	2.55 J
			11/28/2007	1.44 J	1.44 J
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	0.95 J	0.95 J

MW-8	25	24 (96%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	1.06 J	1.06 J	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.51		ND<0.51
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999		ND<10	ND<10	
		9/23/1999		ND<10	ND<10	
		3/15/2000		ND<10	ND<10	
		9/24/2003		ND<10	ND<10	
		3/11/2004		ND<10	ND<10	
		10/12/2004		ND<10	ND<10	
		4/1/2005	ND<10	ND<10		
		10/25/2005		ND<10	ND<10	
		4/29/2006		ND<10	ND<10	
		11/18/2006		ND<10	ND<10	
		5/23/2007		ND<10	ND<10	
		11/28/2007		ND<10	ND<10	
		6/5/2008	ND<10	ND<10		
		11/20/2008		ND<10	ND<10	
		6/11/2009		ND<0.52		ND<0.52
MW-12BR	15	14 (93.3333%)		3/16/1999		ND<10 ND<10
		9/23/1999		ND<10	ND<10	
		3/15/2000		ND<10	ND<10	
		9/24/2003		ND<10	ND<10	
		3/11/2004		ND<10	ND<10	
		10/12/2004		ND<10	ND<10	
		4/1/2005	3.49 J	3.49 J		
		10/25/2005		ND<10	ND<10	
		4/29/2006		ND<10	ND<10	
		11/18/2006		ND<10	ND<10	
		5/23/2007		ND<10	ND<10	
		11/28/2007		ND<10	ND<10	
		6/5/2008	ND<10	ND<10		
		11/20/2008		ND<10	ND<10	
		6/11/2009		ND<0.51		ND<0.51
MW-12AR	15	13 (86.6667%)		3/16/1999		ND<10 ND<10
		9/23/1999		ND<10	ND<10	
		3/15/2000		ND<10	ND<10	
		9/24/2003		ND<10	ND<10	
		3/11/2004		ND<10	ND<10	
		10/12/2004		ND<10	ND<10	
		4/1/2005	ND<10	ND<10		
		10/25/2005		1.51 J	1.51 J	
		4/29/2006		ND<10	ND<10	
		11/18/2006		ND<10	ND<10	
		5/23/2007		1.28 J	1.28 J	
		11/28/2007		ND<10	ND<10	
		6/5/2008	ND<10	ND<10		
		11/20/2008		ND<10	ND<10	
		6/11/2009		ND<0.51		ND<0.51
MW-11R	25	25 (100%)	7/20/1995		ND<10	ND<10
		8/24/1995		ND<10	ND<10	
		9/28/1995		ND<10	ND<10	
		10/26/1995		ND<10	ND<10	
		11/19/1996		ND<10	ND<10	
		12/19/1996		ND<10	ND<10	
		3/24/1997		ND<10	ND<10	
		9/24/1997		ND<10	ND<10	
		4/7/1998	ND<10	ND<10		
		9/23/1998		ND<10	ND<10	
		3/16/1999		ND<10	ND<10	
		9/23/1999		ND<10	ND<10	
		3/15/2000		ND<10	ND<10	
		9/24/2003		ND<10	ND<10	

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998 ND<10	ND<10		
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005 ND<10	ND<10		
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008 ND<10	ND<10		
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Diethyl Phthalate

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 96.4103%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.95	FALSE
MW-8	6/11/2009	1	0.51	FALSE
MW-7	6/11/2009	1	0.5	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	0.51	FALSE
MW-12AR	6/11/2009	1	0.51	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: Ethyl Chloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 165
Percent Non-Detects: 84.6154%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<1	ND<1

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	22 (88%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	0.22 J	0.22 J
			5/23/2007	ND<2	ND<2
			11/28/2007	0.53 J	0.53 J
			6/5/2008	0.43 J	0.43 J
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<1	ND<1

MW-8	25	19 (76%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.76 J	0.76 J	
			10/25/2005	0.96 J	0.96 J	
			4/29/2006	0.3 J	0.3 J	
			11/18/2006	0.38 J	0.38 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	1.1 J	1.1 J	
			6/11/2009	9.1	9.1	
MW-7	25	14 (56%)	7/20/1995		1.2 J	1.2 J
			8/24/1995	0.75 J	0.75 J	
			9/28/1995	0.9 J	0.9 J	
			10/26/1995	0.9 J	0.9 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	2.74	2.74	
			10/25/2005	1.47 J	1.47 J	
			4/29/2006	2.27	2.27	
			11/18/2006	0.72 J	0.72 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.98 J	0.98 J	
			6/5/2008	0.83 J	0.83 J	
			11/20/2008	1.23 J	1.23 J	
			6/11/2009	ND<1	ND<1	
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<1	ND<1		
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	0.4 J	0.4 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<1	ND<1		
MW-12AR	15	15 (100%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<1	ND<1		
MW-11R	25	18 (72%)	7/20/1995	0.4 J	0.4 J	
		8/24/1995	ND<2	ND<2		
		9/28/1995	0.4 J	0.4 J		
		10/26/1995	0.7 J	0.7 J		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 ND<2	ND<2		
			10/25/2005	0.42 J	0.42 J	
			4/29/2006	0.56 J	0.56 J	
			11/18/2006	0.82 J	0.82 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.2 J	0.2 J	
			6/5/2008 ND<2	ND<2		
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<1	ND<1	
MW-10	25	23 (92%)	7/20/1995		ND<2	ND<2
			8/24/1995	0.27 J	0.27 J	
			9/28/1995	ND<2	ND<2	
			10/26/1995	0.4 J	0.4 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998 ND<2	ND<2		
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 ND<2	ND<2		
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008 ND<2	ND<2		
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<1	ND<1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Ethyl Chloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	ND<2	83
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 1245
Rank Mean = 83

Background Rank Sum = 1245
Background Rank Mean = 83

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	83
	8/24/1995	ND<2	83
	9/28/1995	ND<2	83
	10/26/1995	ND<2	83
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	0.22 J	167
	5/23/2007	ND<2	83
	11/28/2007	0.53 J	177
	6/5/2008	0.43 J	176

	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 2346
Rank Mean = 93.84

MW-8	7/20/1995	ND<2	83
	8/24/1995	ND<2	83
	9/28/1995	ND<2	83
	10/26/1995	ND<2	83
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	0.76 J	182
	10/25/2005	0.96 J	187
	4/29/2006	0.3 J	169
	11/18/2006	0.38 J	170
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	1.1 J	189
	6/11/2009	9.1	195

Rank Sum = 2669
Rank Mean = 106.76

MW-7	7/20/1995	1.2 J	190
	8/24/1995	0.75 J	181
	9/28/1995	0.9 J	185
	10/26/1995	0.9 J	186
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	2.74	194
	10/25/2005	1.47 J	192
	4/29/2006	2.27	193
	11/18/2006	0.72 J	180
	5/23/2007	ND<2	83
	11/28/2007	0.98 J	188
	6/5/2008	0.83 J	184
	11/20/2008	1.23 J	191
	6/11/2009	ND<1	83

Rank Sum = 3226
Rank Mean = 129.04

MW-6	7/20/1995	ND<2	83

	8/24/1995	ND<2	83
	9/28/1995	ND<2	83
	10/26/1995	ND<2	83
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	ND<2	83
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 2075
Rank Mean = 83

MW-12BR	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	0.4 J	171
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	ND<2	83
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 1333
Rank Mean = 88.8667

MW-12AR	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	ND<2	83
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 1245
Rank Mean = 83

MW-11R	7/20/1995	0.4 J	172
	8/24/1995	ND<2	83
	9/28/1995	0.4 J	173
	10/26/1995	0.7 J	179
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	0.42 J	175
	4/29/2006	0.56 J	178
	11/18/2006	0.82 J	183
	5/23/2007	ND<2	83
	11/28/2007	0.2 J	166
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 2720
Rank Mean = 108.8

MW-10	7/20/1995	ND<2	83
	8/24/1995	0.27 J	168
	9/28/1995	ND<2	83
	10/26/1995	0.4 J	174
	11/19/1996	ND<2	83
	12/19/1996	ND<2	83
	3/24/1997	ND<2	83
	9/24/1997	ND<2	83
	4/7/1998	ND<2	83
	9/23/1998	ND<2	83
	3/16/1999	ND<2	83
	9/23/1999	ND<2	83
	3/15/2000	ND<2	83
	9/24/2003	ND<2	83
	3/11/2004	ND<2	83
	10/12/2004	ND<2	83
	4/1/2005	ND<2	83
	10/25/2005	ND<2	83
	4/29/2006	ND<2	83
	11/18/2006	ND<2	83
	5/23/2007	ND<2	83
	11/28/2007	ND<2	83
	6/5/2008	ND<2	83
	11/20/2008	ND<2	83
	6/11/2009	ND<1	83

Rank Sum = 2251
Rank Mean = 90.04

Calculation Results:

Kruskal-Wallis H Statistic = 13.992
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 35.4964

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
13.992 < 15.5073 indicating no significant group difference at 5% significance level
35.4964 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 83

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	93.84	10.84	42.8788	
MW-8	106.76	23.76	42.8788	
MW-7	129.04	46.04	42.8788	
MW-6	83	0	42.8788	
MW-12BR		88.8667	5.86667	47.94
MW-12AR		83	0	47.94
MW-11R	108.8	25.8	42.8788	
MW-10	90.04	7.04	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 83

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	93.84	10.84	46.3033	
MW-8	106.76	23.76	46.3033	
MW-7	129.04	46.04	46.3033	
MW-6	83	0	46.3033	
MW-12BR		88.8667	5.86667	51.7686
MW-12AR		83	0	51.7686
MW-11R	108.8	25.8	46.3033	
MW-10	90.04	7.04	46.3033	

Mann-Kendall Trend Analysis

Parameter: Ethyl Chloride

Location: MW-7

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
0.75 J	1.2 J	-0.45	0	1	
0.9 J	1.2 J	-0.3	0	2	
0.9 J	1.2 J	-0.3	0	3	
ND<2	1.2 J	0.8	1	3	
ND<2	1.2 J	0.8	2	3	
ND<2	1.2 J	0.8	3	3	
ND<2	1.2 J	0.8	4	3	
ND<2	1.2 J	0.8	5	3	
ND<2	1.2 J	0.8	6	3	
ND<2	1.2 J	0.8	7	3	
ND<2	1.2 J	0.8	8	3	
ND<2	1.2 J	0.8	9	3	
ND<2	1.2 J	0.8	10	3	
ND<2	1.2 J	0.8	11	3	
ND<2	1.2 J	0.8	12	3	
2.74	1.2 J	1.54	13	3	
1.47 J	1.2 J	0.27	14	3	
2.27	1.2 J	1.07	15	3	
0.72 J	1.2 J	-0.48	15	4	
ND<2	1.2 J	0.8	16	4	
0.98 J	1.2 J	-0.22	16	5	
0.83 J	1.2 J	-0.37	16	6	
1.23 J	1.2 J	0.03	17	6	
ND<1	1.2 J	-0.2	17	7	
0.9 J	0.75 J	0.15	18	7	
0.9 J	0.75 J	0.15	19	7	
ND<2	0.75 J	1.25	20	7	
ND<2	0.75 J	1.25	21	7	
ND<2	0.75 J	1.25	22	7	
ND<2	0.75 J	1.25	23	7	
ND<2	0.75 J	1.25	24	7	
ND<2	0.75 J	1.25	25	7	
ND<2	0.75 J	1.25	26	7	
ND<2	0.75 J	1.25	27	7	
ND<2	0.75 J	1.25	28	7	
ND<2	0.75 J	1.25	29	7	
ND<2	0.75 J	1.25	30	7	
ND<2	0.75 J	1.25	31	7	
2.74	0.75 J	1.99	32	7	
1.47 J	0.75 J	0.72	33	7	
2.27	0.75 J	1.52	34	7	
0.72 J	0.75 J	-0.03	34	8	
ND<2	0.75 J	1.25	35	8	
0.98 J	0.75 J	0.23	36	8	
0.83 J	0.75 J	0.08	37	8	
1.23 J	0.75 J	0.48	38	8	
ND<1	0.75 J	0.25	39	8	

0.9 J	0.9 J	0	39	8
ND<2	0.9 J	1.1	40	8
ND<2	0.9 J	1.1	41	8
ND<2	0.9 J	1.1	42	8
ND<2	0.9 J	1.1	43	8
ND<2	0.9 J	1.1	44	8
ND<2	0.9 J	1.1	45	8
ND<2	0.9 J	1.1	46	8
ND<2	0.9 J	1.1	47	8
ND<2	0.9 J	1.1	48	8
ND<2	0.9 J	1.1	49	8
ND<2	0.9 J	1.1	50	8
ND<2	0.9 J	1.1	51	8
2.74	0.9 J	1.84	52	8
1.47 J	0.9 J	0.57	53	8
2.27	0.9 J	1.37	54	8
0.72 J	0.9 J	-0.18	54	9
ND<2	0.9 J	1.1	55	9
0.98 J	0.9 J	0.08	56	9
0.83 J	0.9 J	-0.07	56	10
1.23 J	0.9 J	0.33	57	10
ND<1	0.9 J	0.1	58	10
ND<2	0.9 J	1.1	59	10
ND<2	0.9 J	1.1	60	10
ND<2	0.9 J	1.1	61	10
ND<2	0.9 J	1.1	62	10
ND<2	0.9 J	1.1	63	10
ND<2	0.9 J	1.1	64	10
ND<2	0.9 J	1.1	65	10
ND<2	0.9 J	1.1	66	10
ND<2	0.9 J	1.1	67	10
ND<2	0.9 J	1.1	68	10
ND<2	0.9 J	1.1	69	10
ND<2	0.9 J	1.1	70	10
2.74	0.9 J	1.84	71	10
1.47 J	0.9 J	0.57	72	10
2.27	0.9 J	1.37	73	10
0.72 J	0.9 J	-0.18	73	11
ND<2	0.9 J	1.1	74	11
0.98 J	0.9 J	0.08	75	11
0.83 J	0.9 J	-0.07	75	12
1.23 J	0.9 J	0.33	76	12
ND<1	0.9 J	0.1	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
ND<2	ND<2	0	77	12
2.74	ND<2	0.74	78	12
1.47 J	ND<2	-0.53	78	13
2.27	ND<2	0.27	79	13
0.72 J	ND<2	-1.28	79	14
ND<2	ND<2	0	79	14

0.98 J	ND<2	-1.02	79	15
0.83 J	ND<2	-1.17	79	16
1.23 J	ND<2	-0.77	79	17
ND<1	ND<2	-1	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
ND<2	ND<2	0	79	18
2.74	ND<2	0.74	80	18
1.47 J	ND<2	-0.53	80	19
2.27	ND<2	0.27	81	19
0.72 J	ND<2	-1.28	81	20
ND<2	ND<2	0	81	20
0.98 J	ND<2	-1.02	81	21
0.83 J	ND<2	-1.17	81	22
1.23 J	ND<2	-0.77	81	23
ND<1	ND<2	-1	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
ND<2	ND<2	0	81	24
2.74	ND<2	0.74	82	24
1.47 J	ND<2	-0.53	82	25
2.27	ND<2	0.27	83	25
0.72 J	ND<2	-1.28	83	26
ND<2	ND<2	0	83	26
0.98 J	ND<2	-1.02	83	27
0.83 J	ND<2	-1.17	83	28
1.23 J	ND<2	-0.77	83	29
ND<1	ND<2	-1	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
ND<2	ND<2	0	83	30
2.74	ND<2	0.74	84	30
1.47 J	ND<2	-0.53	84	31
2.27	ND<2	0.27	85	31
0.72 J	ND<2	-1.28	85	32
ND<2	ND<2	0	85	32
0.98 J	ND<2	-1.02	85	33
0.83 J	ND<2	-1.17	85	34
1.23 J	ND<2	-0.77	85	35
ND<1	ND<2	-1	85	36

ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
ND<2	ND<2	0	85	36
2.74	ND<2	0.74	86	36
1.47 J	ND<2	-0.53	86	37
2.27	ND<2	0.27	87	37
0.72 J	ND<2	-1.28	87	38
ND<2	ND<2	0	87	38
0.98 J	ND<2	-1.02	87	39
0.83 J	ND<2	-1.17	87	40
1.23 J	ND<2	-0.77	87	41
ND<1	ND<2	-1	87	42
ND<2	ND<2	0	87	42
ND<2	ND<2	0	87	42
ND<2	ND<2	0	87	42
ND<2	ND<2	0	87	42
ND<2	ND<2	0	87	42
ND<2	ND<2	0	87	42
2.74	ND<2	0.74	88	42
1.47 J	ND<2	-0.53	88	43
2.27	ND<2	0.27	89	43
0.72 J	ND<2	-1.28	89	44
ND<2	ND<2	0	89	44
0.98 J	ND<2	-1.02	89	45
0.83 J	ND<2	-1.17	89	46
1.23 J	ND<2	-0.77	89	47
ND<1	ND<2	-1	89	48
ND<2	ND<2	0	89	48
ND<2	ND<2	0	89	48
ND<2	ND<2	0	89	48
ND<2	ND<2	0	89	48
ND<2	ND<2	0	89	48
2.74	ND<2	0.74	90	48
1.47 J	ND<2	-0.53	90	49
2.27	ND<2	0.27	91	49
0.72 J	ND<2	-1.28	91	50
ND<2	ND<2	0	91	50
0.98 J	ND<2	-1.02	91	51
0.83 J	ND<2	-1.17	91	52
1.23 J	ND<2	-0.77	91	53
ND<1	ND<2	-1	91	54
ND<2	ND<2	0	91	54
ND<2	ND<2	0	91	54
ND<2	ND<2	0	91	54
ND<2	ND<2	0	91	54
2.74	ND<2	0.74	92	54
1.47 J	ND<2	-0.53	92	55
2.27	ND<2	0.27	93	55
0.72 J	ND<2	-1.28	93	56
ND<2	ND<2	0	93	56
0.98 J	ND<2	-1.02	93	57
0.83 J	ND<2	-1.17	93	58
1.23 J	ND<2	-0.77	93	59
ND<1	ND<2	-1	93	60

ND<2	ND<2	0	93	60
ND<2	ND<2	0	93	60
ND<2	ND<2	0	93	60
2.74	ND<2	0.74	94	60
1.47 J	ND<2	-0.53	94	61
2.27	ND<2	0.27	95	61
0.72 J	ND<2	-1.28	95	62
ND<2	ND<2	0	95	62
0.98 J	ND<2	-1.02	95	63
0.83 J	ND<2	-1.17	95	64
1.23 J	ND<2	-0.77	95	65
ND<1	ND<2	-1	95	66
ND<2	ND<2	0	95	66
ND<2	ND<2	0	95	66
2.74	ND<2	0.74	96	66
1.47 J	ND<2	-0.53	96	67
2.27	ND<2	0.27	97	67
0.72 J	ND<2	-1.28	97	68
ND<2	ND<2	0	97	68
0.98 J	ND<2	-1.02	97	69
0.83 J	ND<2	-1.17	97	70
1.23 J	ND<2	-0.77	97	71
ND<1	ND<2	-1	97	72
ND<2	ND<2	0	97	72
2.74	ND<2	0.74	98	72
1.47 J	ND<2	-0.53	98	73
2.27	ND<2	0.27	99	73
0.72 J	ND<2	-1.28	99	74
ND<2	ND<2	0	99	74
0.98 J	ND<2	-1.02	99	75
0.83 J	ND<2	-1.17	99	76
1.23 J	ND<2	-0.77	99	77
ND<1	ND<2	-1	99	78
2.74	ND<2	0.74	100	78
1.47 J	ND<2	-0.53	100	79
2.27	ND<2	0.27	101	79
0.72 J	ND<2	-1.28	101	80
ND<2	ND<2	0	101	80
0.98 J	ND<2	-1.02	101	81
0.83 J	ND<2	-1.17	101	82
1.23 J	ND<2	-0.77	101	83
ND<1	ND<2	-1	101	84
1.47 J	2.74	-1.27	101	85
2.27	2.74	-0.47	101	86
0.72 J	2.74	-2.02	101	87
ND<2	2.74	-0.74	101	88
0.98 J	2.74	-1.76	101	89
0.83 J	2.74	-1.91	101	90
1.23 J	2.74	-1.51	101	91
ND<1	2.74	-1.74	101	92
2.27	1.47 J	0.8	102	92
0.72 J	1.47 J	-0.75	102	93
ND<2	1.47 J	0.53	103	93
0.98 J	1.47 J	-0.49	103	94
0.83 J	1.47 J	-0.64	103	95
1.23 J	1.47 J	-0.24	103	96
ND<1	1.47 J	-0.47	103	97

0.72 J	2.27	-1.55	103	98
ND<2	2.27	-0.27	103	99
0.98 J	2.27	-1.29	103	100
0.83 J	2.27	-1.44	103	101
1.23 J	2.27	-1.04	103	102
ND<1	2.27	-1.27	103	103
ND<2	0.72 J	1.28	104	103
0.98 J	0.72 J	0.26	105	103
0.83 J	0.72 J	0.11	106	103
1.23 J	0.72 J	0.51	107	103
ND<1	0.72 J	0.28	108	103
0.98 J	ND<2	-1.02	108	104
0.83 J	ND<2	-1.17	108	105
1.23 J	ND<2	-0.77	108	106
ND<1	ND<2	-1	108	107
0.83 J	0.98 J	-0.15	108	108
1.23 J	0.98 J	0.25	109	108
ND<1	0.98 J	0.02	110	108
1.23 J	0.83 J	0.4	111	108
ND<1	0.83 J	0.17	112	108
ND<1	1.23 J	-0.23	112	109

S Statistic = 112 - 109 = 3

Tied Group	Value	Members
1	0.9	2
2	2	13

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 4854
B = 0
C = 1716
D = 0
E = 158
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1563.67
Z-Score = 0.0505776
Comparison Level at 95% confidence level = 1.65463 (upward trend)
0.0505776 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Indeno[1,2,3-cd]pyrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 193
Percent Non-Detects: 98.9744%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.9	ND<0.9

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<10	ND<10
			8/24/1995	ND<10	ND<10
			9/28/1995	ND<10	ND<10
			10/26/1995	ND<10	ND<10
			11/19/1996	ND<10	ND<10
			12/19/1996	ND<10	ND<10
			3/24/1997	ND<10	ND<10
			9/24/1997	ND<10	ND<10
			4/7/1998	ND<10	ND<10
			9/23/1998	ND<10	ND<10
			3/16/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/15/2000	ND<10	ND<10
			9/24/2003	ND<10	ND<10
			3/11/2004	ND<10	ND<10
			10/12/2004	ND<10	ND<10
			4/1/2005	ND<10	ND<10
			10/25/2005	ND<10	ND<10
			4/29/2006	ND<10	ND<10
			11/18/2006	ND<10	ND<10
			5/23/2007	ND<10	ND<10
			11/28/2007	ND<10	ND<10
			6/5/2008	ND<10	ND<10
			11/20/2008	ND<10	ND<10
			6/11/2009	ND<0.9	ND<0.9

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.88		ND<0.88
MW-7	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.86		ND<0.86
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.9	ND<0.9		
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.8 J B	1.8 J B		
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	1.1 J B	1.1 J B		
MW-11R	25	25 (100%)	7/20/1995	ND<10	ND<10	
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.86		ND<0.86
MW-10	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.9	ND<0.9	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Indeno[1,2,3-cd]pyrene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 98.9744%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.9	FALSE
MW-8	6/11/2009	1	0.88	FALSE
MW-7	6/11/2009	1	0.86	FALSE
MW-6	6/11/2009	1	0.9	FALSE
MW-12BR	6/11/2009	1	1.8	FALSE
MW-12AR	6/11/2009	1	1.1	FALSE
MW-11R	6/11/2009	1	0.86	FALSE
MW-10	6/11/2009	1	0.9	FALSE

Concentrations (ppb)

Parameter: Lead

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 144
Percent Non-Detects: 73.8462%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	12 (80%)	3/16/1999	5	5
			9/23/1999	8	8
			3/15/2000	21	21
			9/24/2003	ND<1	ND<1
			3/11/2004	ND<1	ND<1
			10/12/2004	ND<1	ND<1
			4/1/2005	ND<1	ND<1
			10/25/2005	ND<1	ND<1
			4/29/2006	ND<1	ND<1
			11/18/2006	ND<1	ND<1
			5/23/2007	ND<1	ND<1
			11/28/2007	ND<1	ND<1
			6/5/2008	ND<1	ND<1
			11/20/2008	ND<1	ND<1
			6/11/2009	ND<0.08	ND<0.08

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	20 (80%)	7/20/1995	4	4
			8/24/1995	3	3
			9/28/1995	3.5	3.5
			10/26/1995	ND<1	ND<1
			11/19/1996	ND<1	ND<1
			12/19/1996	ND<1	ND<1
			3/24/1997	ND<1	ND<1
			9/24/1997	22	22
			4/7/1998	ND<1	ND<1
			9/23/1998	ND<1	ND<1
			3/16/1999	ND<1	ND<1
			9/23/1999	ND<1	ND<1
			3/15/2000	ND<1	ND<1
			9/24/2003	ND<1	ND<1
			3/11/2004	ND<1	ND<1
			10/12/2004	ND<1	ND<1
			4/1/2005	ND<1	ND<1
			10/25/2005	ND<1	ND<1
			4/29/2006	0.66 J	0.66 J
			11/18/2006	ND<1	ND<1
			5/23/2007	ND<1	ND<1
			11/28/2007	ND<1	ND<1
			6/5/2008	ND<1	ND<1
			11/20/2008	ND<1	ND<1
			6/11/2009	ND<0.08	ND<0.08

MW-8	25	18 (72%)	7/20/1995		3	3
			8/24/1995	8.9	8.9	
			9/28/1995	19.6	19.6	
			10/26/1995	ND<1	ND<1	
			11/19/1996	ND<1	ND<1	
			12/19/1996	13.3	13.3	
			3/24/1997	ND<1	ND<1	
			9/24/1997	ND<1	ND<1	
			4/7/1998	ND<1	ND<1	
			9/23/1998	13	13	
			3/16/1999	ND<1	ND<1	
			9/23/1999	73	73	
			3/15/2000	ND<1	ND<1	
			9/24/2003	ND<1	ND<1	
			3/11/2004	ND<1	ND<1	
			10/12/2004	ND<1	ND<1	
			4/1/2005	ND<1	ND<1	
			10/25/2005	ND<1	ND<1	
			4/29/2006	ND<1	ND<1	
			11/18/2006	ND<1	ND<1	
			5/23/2007	ND<1	ND<1	
			11/28/2007	ND<1	ND<1	
			6/5/2008	ND<1	ND<1	
			11/20/2008	0.658 J	0.658 J	
			6/11/2009	ND<0.08		ND<0.08
MW-7	25	16 (64%)	7/20/1995		ND<1	ND<1
			8/24/1995	12.8	12.8	
			9/28/1995	40.6	40.6	
			10/26/1995	14.1	14.1	
			11/19/1996	ND<1	ND<1	
			12/19/1996	21.5	21.5	
			3/24/1997	ND<1	ND<1	
			9/24/1997	ND<1	ND<1	
			4/7/1998	ND<1	ND<1	
			9/23/1998	ND<1	ND<1	
			3/16/1999	9	9	
			9/23/1999	5	5	
			3/15/2000	ND<1	ND<1	
			9/24/2003	ND<1	ND<1	
			3/11/2004	ND<1	ND<1	
			10/12/2004	ND<1	ND<1	
			4/1/2005	ND<1	ND<1	
			10/25/2005	ND<1	ND<1	
			4/29/2006	ND<1	ND<1	
			11/18/2006	ND<1	ND<1	
			5/23/2007	ND<1	ND<1	
			11/28/2007	ND<1	ND<1	
			6/5/2008	0.522 J	0.522 J	
			11/20/2008	0.734 J	0.734 J	
			6/11/2009	0.17 J	0.17 J	
MW-6	25	19 (76%)	7/20/1995		8.1	8.1
			8/24/1995	5.9	5.9	
			9/28/1995	3.4	3.4	
			10/26/1995	ND<1	ND<1	
			11/19/1996	ND<1	ND<1	
			12/19/1996	10.3	10.3	
			3/24/1997	ND<1	ND<1	
			9/24/1997	12	12	
			4/7/1998	13	13	
			9/23/1998	ND<1	ND<1	

		3/16/1999	ND<1	ND<1		
		9/23/1999	ND<1	ND<1		
		3/15/2000	ND<1	ND<1		
		9/24/2003	ND<1	ND<1		
		3/11/2004	ND<1	ND<1		
		10/12/2004	ND<1	ND<1		
		4/1/2005	ND<1	ND<1		
		10/25/2005	ND<1	ND<1		
		4/29/2006	ND<1	ND<1		
		11/18/2006	ND<1	ND<1		
		5/23/2007	ND<1	ND<1		
		11/28/2007	ND<1	ND<1		
		6/5/2008	ND<1	ND<1		
		11/20/2008	ND<1	ND<1		
		6/11/2009	ND<0.08		ND<0.08	
MW-12BR	15	10 (66.6667%)	3/16/1999		ND<1	ND<1
		9/23/1999	6	6		
		3/15/2000	ND<1	ND<1		
		9/24/2003	ND<1	ND<1		
		3/11/2004	ND<1	ND<1		
		10/12/2004	ND<1	ND<1		
		4/1/2005	ND<1	ND<1		
		10/25/2005	0.623 J	0.623 J		
		4/29/2006	0.5 J	0.5 J		
		11/18/2006	ND<1	ND<1		
		5/23/2007	ND<1	ND<1		
		11/28/2007	ND<1	ND<1		
		6/5/2008	ND<1	ND<1		
		11/20/2008	2.72	2.72		
		6/11/2009	0.17 J	0.17 J		
MW-12AR	15	9 (60%)	3/16/1999	ND<1	ND<1	
		9/23/1999	6	6		
		3/15/2000	11	11		
		9/24/2003	ND<1	ND<1		
		3/11/2004	ND<1	ND<1		
		10/12/2004	ND<1	ND<1		
		4/1/2005	ND<1	ND<1		
		10/25/2005	ND<1	ND<1		
		4/29/2006	0.68 J	0.68 J		
		11/18/2006	ND<1	ND<1		
		5/23/2007	0.819 J	0.819 J		
		11/28/2007	ND<1	ND<1		
		6/5/2008	ND<1	ND<1		
		11/20/2008	0.738 J	0.738 J		
		6/11/2009	0.34	0.34		
MW-11R	25	18 (72%)	7/20/1995	3.8	3.8	
		8/24/1995	6	6		
		9/28/1995	3.7	3.7		
		10/26/1995	11.9	11.9		
		11/19/1996	ND<1	ND<1		
		12/19/1996	ND<1	ND<1		
		3/24/1997	ND<1	ND<1		
		9/24/1997	ND<1	ND<1		
		4/7/1998	ND<1	ND<1		
		9/23/1998	ND<1	ND<1		
		3/16/1999	ND<1	ND<1		
		9/23/1999	9	9		
		3/15/2000	ND<1	ND<1		
		9/24/2003	ND<1	ND<1		

			3/11/2004	ND<1	ND<1	
			10/12/2004	ND<1	ND<1	
			4/1/2005 ND<1	ND<1		
			10/25/2005	ND<1	ND<1	
			4/29/2006	1.22	1.22	
			11/18/2006	ND<1	ND<1	
			5/23/2007	ND<1	ND<1	
			11/28/2007	ND<1	ND<1	
			6/5/2008 ND<1	ND<1		
			11/20/2008	0.636 J	0.636 J	
			6/11/2009	ND<0.08		ND<0.08
MW-10	25	22 (88%)	7/20/1995	ND<1	ND<1	
			8/24/1995	4.8	4.8	
			9/28/1995	ND<1	ND<1	
			10/26/1995	ND<1	ND<1	
			11/19/1996	ND<1	ND<1	
			12/19/1996	ND<1	ND<1	
			3/24/1997	ND<1	ND<1	
			9/24/1997	ND<1	ND<1	
			4/7/1998 ND<1	ND<1		
			9/23/1998	ND<1	ND<1	
			3/16/1999	ND<1	ND<1	
			9/23/1999	5	5	
			3/15/2000	ND<1	ND<1	
			9/24/2003	ND<1	ND<1	
			3/11/2004	ND<1	ND<1	
			10/12/2004	ND<1	ND<1	
			4/1/2005 ND<1	ND<1		
			10/25/2005	ND<1	ND<1	
			4/29/2006	ND<1	ND<1	
			11/18/2006	ND<1	ND<1	
			5/23/2007	ND<1	ND<1	
			11/28/2007	ND<1	ND<1	
			6/5/2008 ND<1	ND<1		
			11/20/2008	ND<1	ND<1	
			6/11/2009	0.14 J	0.14 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Lead

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	5	169
	9/23/1999	8	176
	3/15/2000	21	191
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	ND<1	72.5
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	ND<1	72.5
	6/11/2009	ND<0.08	72.5

Rank Sum = 1406
Rank Mean = 93.7333

Background Rank Sum = 1406
Background Rank Mean = 93.7333

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	4	167
	8/24/1995	3	161
	9/28/1995	3.5	164
	10/26/1995	ND<1	72.5
	11/19/1996	ND<1	72.5
	12/19/1996	ND<1	72.5
	3/24/1997	ND<1	72.5
	9/24/1997	22	193
	4/7/1998	ND<1	72.5
	9/23/1998	ND<1	72.5
	3/16/1999	ND<1	72.5
	9/23/1999	ND<1	72.5
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	0.66 J	154
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5

	11/20/2008	ND<1	72.5	
	6/11/2009	ND<0.08		72.5

Rank Sum = 2289
Rank Mean = 91.56

MW-8	7/20/1995	3	162
	8/24/1995	8.9	178
	9/28/1995	19.6	190
	10/26/1995	ND<1	72.5
	11/19/1996	ND<1	72.5
	12/19/1996	13.3	188
	3/24/1997	ND<1	72.5
	9/24/1997	ND<1	72.5
	4/7/1998	ND<1	72.5
	9/23/1998	13	186
	3/16/1999	ND<1	72.5
	9/23/1999	73	195
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	ND<1	72.5
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	0.658 J	153
	6/11/2009	ND<0.08	72.5

Rank Sum = 2557
Rank Mean = 102.28

MW-7	7/20/1995	ND<1	72.5
	8/24/1995	12.8	185
	9/28/1995	40.6	194
	10/26/1995	14.1	189
	11/19/1996	ND<1	72.5
	12/19/1996	21.5	192
	3/24/1997	ND<1	72.5
	9/24/1997	ND<1	72.5
	4/7/1998	ND<1	72.5
	9/23/1998	ND<1	72.5
	3/16/1999	9	179
	9/23/1999	5	170
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	ND<1	72.5
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	0.522 J	150
	11/20/2008	0.734 J	156
	6/11/2009	0.17 J	146

Rank Sum = 2721
Rank Mean = 108.84

MW-6	7/20/1995	8.1	177

	8/24/1995	5.9	172
	9/28/1995	3.4	163
	10/26/1995	ND<1	72.5
	11/19/1996	ND<1	72.5
	12/19/1996	10.3	181
	3/24/1997	ND<1	72.5
	9/24/1997	12	184
	4/7/1998	13	187
	9/23/1998	ND<1	72.5
	3/16/1999	ND<1	72.5
	9/23/1999	ND<1	72.5
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	ND<1	72.5
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	ND<1	72.5
	6/11/2009	ND<0.08	72.5

Rank Sum = 2441.5
Rank Mean = 97.66

MW-12BR	3/16/1999	ND<1	72.5
	9/23/1999	6	173
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	0.623 J	151
	4/29/2006	0.5 J	149
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	2.72	160
	6/11/2009	0.17 J	147

Rank Sum = 1505
Rank Mean = 100.333

MW-12AR	3/16/1999	ND<1	72.5
	9/23/1999	6	174
	3/15/2000	11	182
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	0.68 J	155
	11/18/2006	ND<1	72.5
	5/23/2007	0.819 J	158
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	0.738 J	157
	6/11/2009	0.34	148

Rank Sum = 1626.5
Rank Mean = 108.433

MW-11R	7/20/1995	3.8	166	
	8/24/1995	6	175	
	9/28/1995	3.7	165	
	10/26/1995	11.9	183	
	11/19/1996	ND<1	72.5	
	12/19/1996	ND<1	72.5	
	3/24/1997	ND<1	72.5	
	9/24/1997	ND<1	72.5	
	4/7/1998	ND<1	72.5	
	9/23/1998	ND<1	72.5	
	3/16/1999	ND<1	72.5	
	9/23/1999	9	180	
	3/15/2000	ND<1	72.5	
	9/24/2003	ND<1	72.5	
	3/11/2004	ND<1	72.5	
	10/12/2004	ND<1	72.5	
	4/1/2005	ND<1	72.5	
	10/25/2005	ND<1	72.5	
	4/29/2006	1.22	159	
	11/18/2006	ND<1	72.5	
	5/23/2007	ND<1	72.5	
	11/28/2007	ND<1	72.5	
	6/5/2008	ND<1	72.5	
	11/20/2008	0.636 J	152	
	6/11/2009	ND<0.08		72.5

Rank Sum = 2485
Rank Mean = 99.4

MW-10	7/20/1995	ND<1	72.5
	8/24/1995	4.8	168
	9/28/1995	ND<1	72.5
	10/26/1995	ND<1	72.5
	11/19/1996	ND<1	72.5
	12/19/1996	ND<1	72.5
	3/24/1997	ND<1	72.5
	9/24/1997	ND<1	72.5
	4/7/1998	ND<1	72.5
	9/23/1998	ND<1	72.5
	3/16/1999	ND<1	72.5
	9/23/1999	5	171
	3/15/2000	ND<1	72.5
	9/24/2003	ND<1	72.5
	3/11/2004	ND<1	72.5
	10/12/2004	ND<1	72.5
	4/1/2005	ND<1	72.5
	10/25/2005	ND<1	72.5
	4/29/2006	ND<1	72.5
	11/18/2006	ND<1	72.5
	5/23/2007	ND<1	72.5
	11/28/2007	ND<1	72.5
	6/5/2008	ND<1	72.5
	11/20/2008	ND<1	72.5
	6/11/2009	0.14 J	145

Rank Sum = 2079
Rank Mean = 83.16

Calculation Results:

Kruskal-Wallis H Statistic = 3.7606
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 6.29593

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
3.7606 < 15.5073 indicating no significant group difference at 5% significance level
6.29593 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Mercury

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 182
Percent Non-Detects: 93.3333%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	13 (86.6667%)	3/16/1999	0.5	0.5
			9/23/1999	ND<0.5	ND<0.5
			3/15/2000	ND<0.5	ND<0.5
			9/24/2003	ND<0.5	ND<0.5
			3/11/2004	ND<0.5	ND<0.5
			10/12/2004	ND<0.5	ND<0.5
			4/1/2005	ND<0.5	ND<0.5
			10/25/2005	ND<0.5	ND<0.5
			4/29/2006	ND<0.5	ND<0.5
			11/18/2006	ND<0.5	ND<0.5
			5/23/2007	0.12 J	0.12 J
			11/28/2007	ND<0.5	ND<0.5
			6/5/2008	ND<0.5	ND<0.5
			11/20/2008	ND<0.5	ND<0.5
			6/11/2009	ND<0.091	ND<0.091

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	25 (100%)	7/20/1995	ND<0.5	ND<0.5
			8/24/1995	ND<0.5	ND<0.5
			9/28/1995	ND<0.5	ND<0.5
			10/26/1995	ND<0.5	ND<0.5
			11/19/1996	ND<0.5	ND<0.5
			12/19/1996	ND<0.5	ND<0.5
			3/24/1997	ND<0.5	ND<0.5
			9/24/1997	ND<0.5	ND<0.5
			4/7/1998	ND<0.5	ND<0.5
			9/23/1998	ND<0.5	ND<0.5
			3/16/1999	ND<0.5	ND<0.5
			9/23/1999	ND<0.5	ND<0.5
			3/15/2000	ND<0.5	ND<0.5
			9/24/2003	ND<0.5	ND<0.5
			3/11/2004	ND<0.5	ND<0.5
			10/12/2004	ND<0.5	ND<0.5
			4/1/2005	ND<0.5	ND<0.5
			10/25/2005	ND<0.5	ND<0.5
			4/29/2006	ND<0.5	ND<0.5
			11/18/2006	ND<0.5	ND<0.5
			5/23/2007	ND<0.5	ND<0.5
			11/28/2007	ND<0.5	ND<0.5
			6/5/2008	ND<0.5	ND<0.5
			11/20/2008	ND<0.5	ND<0.5
			6/11/2009	ND<0.091	ND<0.091

MW-8	25	21 (84%)	7/20/1995	ND<0.5	ND<0.5	
			8/24/1995	ND<0.5	ND<0.5	
			9/28/1995	ND<0.5	ND<0.5	
			10/26/1995	ND<0.5	ND<0.5	
			11/19/1996	1.03	1.03	
			12/19/1996	1.62	1.62	
			3/24/1997	ND<0.5	ND<0.5	
			9/24/1997	ND<0.5	ND<0.5	
			4/7/1998	1.2	1.2	
			9/23/1998	ND<0.5	ND<0.5	
			3/16/1999	0.4 J	0.4 J	
			9/23/1999	ND<0.5	ND<0.5	
			3/15/2000	ND<0.5	ND<0.5	
			9/24/2003	ND<0.5	ND<0.5	
			3/11/2004	ND<0.5	ND<0.5	
			10/12/2004	ND<0.5	ND<0.5	
			4/1/2005	ND<0.5	ND<0.5	
			10/25/2005	ND<0.5	ND<0.5	
			4/29/2006	ND<0.5	ND<0.5	
			11/18/2006	ND<0.5	ND<0.5	
			5/23/2007	ND<0.5	ND<0.5	
			11/28/2007	ND<0.5	ND<0.5	
			6/5/2008	ND<0.5	ND<0.5	
			11/20/2008	ND<0.5	ND<0.5	
			6/11/2009	ND<0.091		ND<0.091
MW-7	25	24 (96%)	7/20/1995	ND<0.5	ND<0.5	
			8/24/1995	ND<0.5	ND<0.5	
			9/28/1995	ND<0.5	ND<0.5	
			10/26/1995	ND<0.5	ND<0.5	
			11/19/1996	ND<0.5	ND<0.5	
			12/19/1996	ND<0.5	ND<0.5	
			3/24/1997	ND<0.5	ND<0.5	
			9/24/1997	ND<0.5	ND<0.5	
			4/7/1998	ND<0.5	ND<0.5	
			9/23/1998	ND<0.5	ND<0.5	
			3/16/1999	1.4	1.4	
			9/23/1999	ND<0.5	ND<0.5	
			3/15/2000	ND<0.5	ND<0.5	
			9/24/2003	ND<0.5	ND<0.5	
			3/11/2004	ND<0.5	ND<0.5	
			10/12/2004	ND<0.5	ND<0.5	
			4/1/2005	ND<0.5	ND<0.5	
			10/25/2005	ND<0.5	ND<0.5	
			4/29/2006	ND<0.5	ND<0.5	
			11/18/2006	ND<0.5	ND<0.5	
			5/23/2007	ND<0.5	ND<0.5	
			11/28/2007	ND<0.5	ND<0.5	
			6/5/2008	ND<0.5	ND<0.5	
			11/20/2008	ND<0.5	ND<0.5	
			6/11/2009	ND<0.091		ND<0.091
MW-6	25	24 (96%)	7/20/1995	ND<0.5	ND<0.5	
			8/24/1995	ND<0.5	ND<0.5	
			9/28/1995	ND<0.5	ND<0.5	
			10/26/1995	ND<0.5	ND<0.5	
			11/19/1996	5.19	5.19	
			12/19/1996	ND<0.5	ND<0.5	
			3/24/1997	ND<0.5	ND<0.5	
			9/24/1997	ND<0.5	ND<0.5	
			4/7/1998	ND<0.5	ND<0.5	
			9/23/1998	ND<0.5	ND<0.5	

		3/16/1999	ND<0.5	ND<0.5		
		9/23/1999	ND<0.5	ND<0.5		
		3/15/2000	ND<0.5	ND<0.5		
		9/24/2003	ND<0.5	ND<0.5		
		3/11/2004	ND<0.5	ND<0.5		
		10/12/2004	ND<0.5	ND<0.5		
		4/1/2005	ND<0.5	ND<0.5		
		10/25/2005	ND<0.5	ND<0.5		
		4/29/2006	ND<0.5	ND<0.5		
		11/18/2006	ND<0.5	ND<0.5		
		5/23/2007	ND<0.5	ND<0.5		
		11/28/2007	ND<0.5	ND<0.5		
		6/5/2008	ND<0.5	ND<0.5		
		11/20/2008	ND<0.5	ND<0.5		
		6/11/2009	ND<0.091		ND<0.091	
MW-12BR	15	14 (93.3333%)	3/16/1999		0.5	0.5
		9/23/1999	ND<0.5	ND<0.5		
		3/15/2000	ND<0.5	ND<0.5		
		9/24/2003	ND<0.5	ND<0.5		
		3/11/2004	ND<0.5	ND<0.5		
		10/12/2004	ND<0.5	ND<0.5		
		4/1/2005	ND<0.5	ND<0.5		
		10/25/2005	ND<0.5	ND<0.5		
		4/29/2006	ND<0.5	ND<0.5		
		11/18/2006	ND<0.5	ND<0.5		
		5/23/2007	ND<0.5	ND<0.5		
		11/28/2007	ND<0.5	ND<0.5		
		6/5/2008	ND<0.5	ND<0.5		
		11/20/2008	ND<0.5	ND<0.5		
		6/11/2009	ND<0.091		ND<0.091	
MW-12AR	15	15 (100%)	3/16/1999		ND<0.5	ND<0.5
		9/23/1999	ND<0.5	ND<0.5		
		3/15/2000	ND<0.5	ND<0.5		
		9/24/2003	ND<0.5	ND<0.5		
		3/11/2004	ND<0.5	ND<0.5		
		10/12/2004	ND<0.5	ND<0.5		
		4/1/2005	ND<0.5	ND<0.5		
		10/25/2005	ND<0.5	ND<0.5		
		4/29/2006	ND<0.5	ND<0.5		
		11/18/2006	ND<0.5	ND<0.5		
		5/23/2007	ND<0.5	ND<0.5		
		11/28/2007	ND<0.5	ND<0.5		
		6/5/2008	ND<0.5	ND<0.5		
		11/20/2008	ND<0.5	ND<0.5		
		6/11/2009	ND<0.091		ND<0.091	
MW-11R	25	22 (88%)	7/20/1995		ND<0.5	ND<0.5
		8/24/1995	ND<0.5	ND<0.5		
		9/28/1995	ND<0.5	ND<0.5		
		10/26/1995	ND<0.5	ND<0.5		
		11/19/1996	ND<0.5	ND<0.5		
		12/19/1996	ND<0.5	ND<0.5		
		3/24/1997	ND<0.5	ND<0.5		
		9/24/1997	ND<0.5	ND<0.5		
		4/7/1998	ND<0.5	ND<0.5		
		9/23/1998	ND<0.5	ND<0.5		
		3/16/1999	1.5	1.5		
		9/23/1999	ND<0.5	ND<0.5		
		3/15/2000	ND<0.5	ND<0.5		
		9/24/2003	ND<0.5	ND<0.5		

			3/11/2004	ND<0.5	ND<0.5	
			10/12/2004	ND<0.5	ND<0.5	
			4/1/2005	ND<0.5	ND<0.5	
			10/25/2005	ND<0.5	ND<0.5	
			4/29/2006	ND<0.5	ND<0.5	
			11/18/2006	ND<0.5	ND<0.5	
			5/23/2007	ND<0.5	ND<0.5	
			11/28/2007	ND<0.5	ND<0.5	
			6/5/2008	ND<0.5	ND<0.5	
			11/20/2008	0.2 J	0.2 J	
			6/11/2009	0.11 J	0.11 J	
MW-10	25	24 (96%)	7/20/1995		ND<0.5	ND<0.5
			8/24/1995	ND<0.5	ND<0.5	
			9/28/1995	ND<0.5	ND<0.5	
			10/26/1995	ND<0.5	ND<0.5	
			11/19/1996	ND<0.5	ND<0.5	
			12/19/1996	ND<0.5	ND<0.5	
			3/24/1997	ND<0.5	ND<0.5	
			9/24/1997	ND<0.5	ND<0.5	
			4/7/1998	ND<0.5	ND<0.5	
			9/23/1998	ND<0.5	ND<0.5	
			3/16/1999	1	1	
			9/23/1999	ND<0.5	ND<0.5	
			3/15/2000	ND<0.5	ND<0.5	
			9/24/2003	ND<0.5	ND<0.5	
			3/11/2004	ND<0.5	ND<0.5	
			10/12/2004	ND<0.5	ND<0.5	
			4/1/2005	ND<0.5	ND<0.5	
			10/25/2005	ND<0.5	ND<0.5	
			4/29/2006	ND<0.5	ND<0.5	
			11/18/2006	ND<0.5	ND<0.5	
			5/23/2007	ND<0.5	ND<0.5	
			11/28/2007	ND<0.5	ND<0.5	
			6/5/2008	ND<0.5	ND<0.5	
			11/20/2008	ND<0.5	ND<0.5	
			6/11/2009	ND<0.091		ND<0.091

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Mercury

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 93.3333%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 0.5
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.091	FALSE
MW-8	6/11/2009	1	0.091	FALSE
MW-7	6/11/2009	1	0.091	FALSE
MW-6	6/11/2009	1	0.091	FALSE
MW-12BR	6/11/2009	1	0.091	FALSE
MW-12AR	6/11/2009	1	0.091	FALSE
MW-11R	6/11/2009	1	0.11	FALSE
MW-10	6/11/2009	1	0.091	FALSE

Concentrations (ppb)

Parameter: Nickel

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 161
Percent Non-Detects: 82.5641%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	11 (73.3333%)	3/16/1999	6 J	6 J
			9/23/1999	ND<50	ND<50
			3/15/2000	ND<50	ND<50
			9/24/2003	ND<50	ND<50
			3/11/2004	ND<50	ND<50
			10/12/2004	ND<50	ND<50
			4/1/2005	ND<50	ND<50
			10/25/2005	ND<50	ND<50
			4/29/2006	ND<50	ND<50
			11/18/2006	1.27 J	1.27 J
			5/23/2007	ND<50	ND<50
			11/28/2007	ND<50	ND<50
			6/5/2008	1.04 J	1.04 J
			11/20/2008	ND<50	ND<50
			6/11/2009	0.36 J	0.36 J

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	22 (88%)	7/20/1995	ND<50	ND<50
			8/24/1995	ND<50	ND<50
			9/28/1995	ND<50	ND<50
			10/26/1995	ND<50	ND<50
			11/19/1996	ND<50	ND<50
			12/19/1996	ND<50	ND<50
			3/24/1997	ND<50	ND<50
			9/24/1997	ND<50	ND<50
			4/7/1998	72	72
			9/23/1998	ND<50	ND<50
			3/16/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/15/2000	ND<50	ND<50
			9/24/2003	ND<50	ND<50
			3/11/2004	ND<50	ND<50
			10/12/2004	ND<50	ND<50
			4/1/2005	ND<50	ND<50
			10/25/2005	ND<50	ND<50
			4/29/2006	ND<50	ND<50
			11/18/2006	ND<50	ND<50
			5/23/2007	ND<50	ND<50
			11/28/2007	ND<50	ND<50
			6/5/2008	1.03 J	1.03 J
			11/20/2008	ND<50	ND<50
			6/11/2009	0.87	0.87

MW-8	25	22 (88%)	7/20/1995		ND<50	ND<50
			8/24/1995	ND<50	ND<50	
			9/28/1995	ND<50	ND<50	
			10/26/1995	ND<50	ND<50	
			11/19/1996	ND<50	ND<50	
			12/19/1996	ND<50	ND<50	
			3/24/1997	ND<50	ND<50	
			9/24/1997	ND<50	ND<50	
			4/7/1998	60	60	
			9/23/1998	ND<50	ND<50	
			3/16/1999	ND<50	ND<50	
			9/23/1999	ND<50	ND<50	
			3/15/2000	ND<50	ND<50	
			9/24/2003	ND<50	ND<50	
			3/11/2004	ND<50	ND<50	
			10/12/2004	ND<50	ND<50	
			4/1/2005	ND<50	ND<50	
			10/25/2005	ND<50	ND<50	
			4/29/2006	ND<50	ND<50	
			11/18/2006	ND<50	ND<50	
			5/23/2007	ND<50	ND<50	
			11/28/2007	ND<50	ND<50	
			6/5/2008	1.03 J	1.03 J	
			11/20/2008	ND<50	ND<50	
			6/11/2009	0.54 J	0.54 J	
MW-7	25	19 (76%)	7/20/1995		ND<50	ND<50
			8/24/1995	ND<50	ND<50	
			9/28/1995	ND<50	ND<50	
			10/26/1995	ND<50	ND<50	
			11/19/1996	ND<50	ND<50	
			12/19/1996	ND<50	ND<50	
			3/24/1997	ND<50	ND<50	
			9/24/1997	ND<50	ND<50	
			4/7/1998	63	63	
			9/23/1998	ND<50	ND<50	
			3/16/1999	6	6	
			9/23/1999	ND<50	ND<50	
			3/15/2000	ND<50	ND<50	
			9/24/2003	ND<50	ND<50	
			3/11/2004	ND<50	ND<50	
			10/12/2004	ND<50	ND<50	
			4/1/2005	ND<50	ND<50	
			10/25/2005	ND<50	ND<50	
			4/29/2006	ND<50	ND<50	
			11/18/2006	1.74 J	1.74 J	
			5/23/2007	ND<50	ND<50	
			11/28/2007	ND<50	ND<50	
			6/5/2008	1.89 J	1.89 J	
			11/20/2008	16 J	16 J	
			6/11/2009	0.71	0.71	
MW-6	25	22 (88%)	7/20/1995		ND<50	ND<50
			8/24/1995	ND<50	ND<50	
			9/28/1995	ND<50	ND<50	
			10/26/1995	ND<50	ND<50	
			11/19/1996	ND<50	ND<50	
			12/19/1996	ND<50	ND<50	
			3/24/1997	ND<50	ND<50	
			9/24/1997	ND<50	ND<50	
			4/7/1998	ND<50	ND<50	
			9/23/1998	ND<50	ND<50	

		3/16/1999	ND<50	ND<50		
		9/23/1999	10 J	10 J		
		3/15/2000	ND<50	ND<50		
		9/24/2003	ND<50	ND<50		
		3/11/2004	ND<50	ND<50		
		10/12/2004	ND<50	ND<50		
		4/1/2005 ND<50	ND<50			
		10/25/2005	ND<50	ND<50		
		4/29/2006	ND<50	ND<50		
		11/18/2006	4.96 J	4.96 J		
		5/23/2007	ND<50	ND<50		
		11/28/2007	ND<50	ND<50		
		6/5/2008 ND<50	ND<50			
		11/20/2008	ND<50	ND<50		
		6/11/2009	0.35 J	0.35 J		
MW-12BR	15	11 (73.3333%)	3/16/1999		ND<50	ND<50
		9/23/1999	ND<50	ND<50		
		3/15/2000	ND<50	ND<50		
		9/24/2003	ND<50	ND<50		
		3/11/2004	ND<50	ND<50		
		10/12/2004	ND<50	ND<50		
		4/1/2005 ND<50	ND<50			
		10/25/2005	ND<50	ND<50		
		4/29/2006	ND<50	ND<50		
		11/18/2006	2.29 J	2.29 J		
		5/23/2007	ND<50	ND<50		
		11/28/2007	4 J	4 J		
		6/5/2008 3.1 J	3.1 J			
		11/20/2008	ND<50	ND<50		
		6/11/2009	2.2	2.2		
MW-12AR	15	13 (86.6667%)	3/16/1999		ND<50	ND<50
		9/23/1999	ND<50	ND<50		
		3/15/2000	ND<50	ND<50		
		9/24/2003	ND<50	ND<50		
		3/11/2004	ND<50	ND<50		
		10/12/2004	ND<50	ND<50		
		4/1/2005 ND<50	ND<50			
		10/25/2005	ND<50	ND<50		
		4/29/2006	ND<50	ND<50		
		11/18/2006	ND<50	ND<50		
		5/23/2007	ND<50	ND<50		
		11/28/2007	ND<50	ND<50		
		6/5/2008 1.25 J	1.25 J			
		11/20/2008	ND<50	ND<50		
		6/11/2009	1.1	1.1		
MW-11R	25	21 (84%)	7/20/1995	ND<50	ND<50	
		8/24/1995	ND<50	ND<50		
		9/28/1995	ND<50	ND<50		
		10/26/1995	ND<50	ND<50		
		11/19/1996	ND<50	ND<50		
		12/19/1996	ND<50	ND<50		
		3/24/1997	ND<50	ND<50		
		9/24/1997	10 J	10 J		
		4/7/1998 ND<50	ND<50			
		9/23/1998	ND<50	ND<50		
		3/16/1999	ND<50	ND<50		
		9/23/1999	6 J	6 J		
		3/15/2000	ND<50	ND<50		
		9/24/2003	ND<50	ND<50		

			3/11/2004	ND<50	ND<50	
			10/12/2004	ND<50	ND<50	
			4/1/2005 ND<50	ND<50		
			10/25/2005	ND<50	ND<50	
			4/29/2006	ND<50	ND<50	
			11/18/2006	1.41 J	1.41 J	
			5/23/2007	ND<50	ND<50	
			11/28/2007	ND<50	ND<50	
			6/5/2008 ND<50	ND<50		
			11/20/2008	ND<50	ND<50	
			6/11/2009	0.63	0.63	
MW-10	25	20 (80%)	7/20/1995	ND<50	ND<50	
			8/24/1995	ND<50	ND<50	
			9/28/1995	ND<50	ND<50	
			10/26/1995	ND<50	ND<50	
			11/19/1996	ND<50	ND<50	
			12/19/1996	ND<50	ND<50	
			3/24/1997	ND<50	ND<50	
			9/24/1997	ND<50	ND<50	
			4/7/1998 180	180		
			9/23/1998	ND<50	ND<50	
			3/16/1999	5 J	5 J	
			9/23/1999	38 J	38 J	
			3/15/2000	ND<50	ND<50	
			9/24/2003	ND<50	ND<50	
			3/11/2004	ND<50	ND<50	
			10/12/2004	ND<50	ND<50	
			4/1/2005 ND<50	ND<50		
			10/25/2005	ND<50	ND<50	
			4/29/2006	ND<50	ND<50	
			11/18/2006	ND<50	ND<50	
			5/23/2007	ND<50	ND<50	
			11/28/2007	ND<50	ND<50	
			6/5/2008 1.31 J	1.31 J		
			11/20/2008	ND<50	ND<50	
			6/11/2009	0.59 J	0.59 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Nickel

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	6 J	185
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	1.27 J	174
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.04 J	171
	11/20/2008	ND<50	81
	6/11/2009	0.36 J	163

Rank Sum = 1584
Rank Mean = 105.6

Background Rank Sum = 1584
Background Rank Mean = 105.6

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<50	81
	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	ND<50	81
	4/7/1998	72	194
	9/23/1998	ND<50	81
	3/16/1999	ND<50	81
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	ND<50	81
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.03 J	169

	11/20/2008	ND<50	81
	6/11/2009	0.87	168

Rank Sum = 2313
Rank Mean = 92.52

MW-8	7/20/1995	ND<50	81
	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	ND<50	81
	4/7/1998	60	192
	9/23/1998	ND<50	81
	3/16/1999	ND<50	81
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	ND<50	81
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.03 J	170
	11/20/2008	ND<50	81
	6/11/2009	0.54 J	164

Rank Sum = 2308
Rank Mean = 92.32

MW-7	7/20/1995	ND<50	81
	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	ND<50	81
	4/7/1998	63	193
	9/23/1998	ND<50	81
	3/16/1999	6	186
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	1.74 J	177
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.89 J	178
	11/20/2008	16 J	190
	6/11/2009	0.71	167

Rank Sum = 2630
Rank Mean = 105.2

MW-6	7/20/1995	ND<50	81

	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	ND<50	81
	4/7/1998	ND<50	81
	9/23/1998	ND<50	81
	3/16/1999	ND<50	81
	9/23/1999	10 J	188
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	4.96 J	183
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	ND<50	81
	11/20/2008	ND<50	81
	6/11/2009	0.35 J	162

Rank Sum = 2315
Rank Mean = 92.6

MW-12BR	3/16/1999	ND<50	81
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	2.29 J	180
	5/23/2007	ND<50	81
	11/28/2007	4 J	182
	6/5/2008	3.1 J	181
	11/20/2008	ND<50	81
	6/11/2009	2.2	179

Rank Sum = 1613
Rank Mean = 107.533

MW-12AR	3/16/1999	ND<50	81
	9/23/1999	ND<50	81
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	ND<50	81
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.25 J	173
	11/20/2008	ND<50	81
	6/11/2009	1.1	172

Rank Sum = 1398
Rank Mean = 93.2

MW-11R	7/20/1995	ND<50	81
	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	10 J	189
	4/7/1998	ND<50	81
	9/23/1998	ND<50	81
	3/16/1999	ND<50	81
	9/23/1999	6 J	187
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	1.41 J	176
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	ND<50	81
	11/20/2008	ND<50	81
	6/11/2009	0.63	166

Rank Sum = 2419
Rank Mean = 96.76

MW-10	7/20/1995	ND<50	81
	8/24/1995	ND<50	81
	9/28/1995	ND<50	81
	10/26/1995	ND<50	81
	11/19/1996	ND<50	81
	12/19/1996	ND<50	81
	3/24/1997	ND<50	81
	9/24/1997	ND<50	81
	4/7/1998	180	195
	9/23/1998	ND<50	81
	3/16/1999	5 J	184
	9/23/1999	38 J	191
	3/15/2000	ND<50	81
	9/24/2003	ND<50	81
	3/11/2004	ND<50	81
	10/12/2004	ND<50	81
	4/1/2005	ND<50	81
	10/25/2005	ND<50	81
	4/29/2006	ND<50	81
	11/18/2006	ND<50	81
	5/23/2007	ND<50	81
	11/28/2007	ND<50	81
	6/5/2008	1.31 J	175
	11/20/2008	ND<50	81
	6/11/2009	0.59 J	165

Rank Sum = 2530
Rank Mean = 101.2

Calculation Results:

Kruskal-Wallis H Statistic = 2.02575
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 4.63367

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
2.02575 < 15.5073 indicating no significant group difference at 5% significance level
4.63367 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (mg/L)

Parameter: Nitrate

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 141
Total Non-Detect: 110
Percent Non-Detects: 78.0142%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	11 (73.3333%)	3/16/1999	ND<0.03	ND<0.03
			9/23/1999	ND<0.03	ND<0.03
			3/15/2000	ND<0.03	ND<0.03
			9/24/2003	ND<0.03	ND<0.03
			3/11/2004	ND<0.03	ND<0.03
			10/12/2004	ND<0.03	ND<0.03
			4/1/2005	ND<0.04	ND<0.04
			10/25/2005	ND<0.04	ND<0.04
			4/29/2006	0.068	0.068
			11/18/2006	0.094	0.094
			5/23/2007	0.014 J	0.014 J
			11/28/2007	ND<0.03	ND<0.03
			6/5/2008	ND<0.03	ND<0.03
			11/20/2008	ND<0.03	ND<0.03
			6/11/2009	0.42 J	0.42 J

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	16	13 (81.25%)	9/23/1998	ND<0.03	ND<0.03
			3/16/1999	ND<0.03	ND<0.03
			9/23/1999	ND<0.03	ND<0.03
			3/15/2000	ND<0.03	ND<0.03
			9/24/2003	ND<0.03	ND<0.03
			3/11/2004	ND<0.03	ND<0.03
			10/12/2004	ND<0.03	ND<0.03
			4/1/2005	ND<0.04	ND<0.04
			10/25/2005	ND<0.04	ND<0.04
			4/29/2006	0.01 J	0.01 J
			11/18/2006	0.015 J	0.015 J
			5/23/2007	0.029 J	0.029 J
			11/28/2007	ND<0.03	ND<0.03
			6/5/2008	ND<0.03	ND<0.03
			11/20/2008	ND<0.03	ND<0.03
			6/11/2009	ND<0.1	ND<0.1
MW-8	16	14 (87.5%)	9/23/1998	ND<0.03	ND<0.03
			3/16/1999	ND<0.03	ND<0.03
			9/23/1999	ND<0.03	ND<0.03
			3/15/2000	ND<0.03	ND<0.03
			9/24/2003	ND<0.03	ND<0.03
			3/11/2004	ND<0.03	ND<0.03
			10/12/2004	ND<0.03	ND<0.03
			4/1/2005	ND<0.04	ND<0.04
			10/25/2005	ND<0.04	ND<0.04

			4/29/2006	ND<0.04	ND<0.04	
			11/18/2006	0.017 J	0.017 J	
			5/23/2007	0.035	0.035	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	ND<0.1	ND<0.1	
MW-7	16	12 (75%)	9/23/1998	ND<0.03	ND<0.03	
			3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	
			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.022 J	0.022 J	
			11/18/2006	0.058	0.058	
			5/23/2007	0.074	0.074	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	0.18 J M	0.18 J M	
MW-6	16	12 (75%)	9/23/1998	ND<0.03	ND<0.03	
			3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	
			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.055	0.055	
			11/18/2006	0.021 J	0.021 J	
			5/23/2007	0.036	0.036	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	0.2 J M	0.2 J M	
MW-12BR	15	11 (73.3333%)	3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	
			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.033 J	0.033 J	
			11/18/2006	0.022 J	0.022 J	
			5/23/2007	0.02 J	0.02 J	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	0.15 J M	0.15 J M	
MW-12AR	15	11 (73.3333%)	3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	

			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.16	0.16	
			11/18/2006	0.276	0.276	
			5/23/2007	0.217	0.217	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	0.24 J M	0.24 J M	
MW-11R	16	12 (75%)	9/23/1998	ND<0.03	ND<0.03	
			3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	
			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.018 J	0.018 J	
			11/18/2006	0.06	0.06	
			5/23/2007	0.033	0.033	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	0.27 J M	0.27 J M	
MW-10	16	14 (87.5%)	9/23/1998	ND<0.03	ND<0.03	
			3/16/1999	ND<0.03	ND<0.03	
			9/23/1999	ND<0.03	ND<0.03	
			3/15/2000	ND<0.03	ND<0.03	
			9/24/2003	ND<0.03	ND<0.03	
			3/11/2004	ND<0.03	ND<0.03	
			10/12/2004	ND<0.03	ND<0.03	
			4/1/2005	ND<0.04	ND<0.04	
			10/25/2005	ND<0.04	ND<0.04	
			4/29/2006	0.038 J	0.038 J	
			11/18/2006	ND<0.03	ND<0.03	
			5/23/2007	0.038	0.038	
			11/28/2007	ND<0.03	ND<0.03	
			6/5/2008	ND<0.03	ND<0.03	
			11/20/2008	ND<0.03	ND<0.03	
			6/11/2009	ND<0.1	ND<0.1	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Nitrate

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.068	130
	11/18/2006	0.094	132
	5/23/2007	0.014 J	112
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.42 J	141

Rank Sum = 1125.5
Rank Mean = 75.0333

Background Rank Sum = 1125.5
Background Rank Mean = 75.0333

Compliance Wells

Well ID	Date	Result	Rank
MW-9	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.01 J	111
	11/18/2006	0.015 J	113
	5/23/2007	0.029 J	120
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	ND<0.1	55.5

Rank Sum = 1065.5
Rank Mean = 66.5938

MW-8	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5

	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	ND<0.04	55.5
	11/18/2006	0.017 J	114
	5/23/2007	0.035	123
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	ND<0.1	55.5

Rank Sum = 1014
Rank Mean = 63.375

MW-7	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.022 J	118
	11/18/2006	0.058	128
	5/23/2007	0.074	131
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.18 J M	135

Rank Sum = 1178
Rank Mean = 73.625

MW-6	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.055	127
	11/18/2006	0.021 J	117
	5/23/2007	0.036	124
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.2 J M	136

Rank Sum = 1170
Rank Mean = 73.125

MW-12BR	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5

	4/29/2006	0.033 J	121
	11/18/2006	0.022 J	119
	5/23/2007	0.02 J	116
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.15 J M	133

Rank Sum = 1099.5
Rank Mean = 73.3

MW-12AR	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.16	134
	11/18/2006	0.276	140
	5/23/2007	0.217	137
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.24 J M	138

Rank Sum = 1159.5
Rank Mean = 77.3

MW-11R	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.018 J	115
	11/18/2006	0.06	129
	5/23/2007	0.033	122
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5
	6/11/2009	0.27 J M	139

Rank Sum = 1171
Rank Mean = 73.1875

MW-10	9/23/1998	ND<0.03	55.5
	3/16/1999	ND<0.03	55.5
	9/23/1999	ND<0.03	55.5
	3/15/2000	ND<0.03	55.5
	9/24/2003	ND<0.03	55.5
	3/11/2004	ND<0.03	55.5
	10/12/2004	ND<0.03	55.5
	4/1/2005	ND<0.04	55.5
	10/25/2005	ND<0.04	55.5
	4/29/2006	0.038 J	125
	11/18/2006	ND<0.03	55.5
	5/23/2007	0.038	126
	11/28/2007	ND<0.03	55.5
	6/5/2008	ND<0.03	55.5
	11/20/2008	ND<0.03	55.5

6/11/2009 ND<0.1 55.5
Rank Sum = 1028
Rank Mean = 64.25

Calculation Results:

Kruskal-Wallis H Statistic = 1.88653
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 3.59199
95% Confidence comparison value is 15.5073 at 8 degrees of freedom
1.88653 < 15.5073 indicating no significant group difference at 5% significance level
3.59199 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Phenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 190
Percent Non-Detects: 97.4359%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original	
MW-13	15	15 (100%)	3/16/1999		ND<10	ND<10
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original	
MW-9	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

MW-8	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.51		ND<0.51
MW-7	25	21 (84%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	2.89 J	2.89 J	
			11/28/2007	ND<10	ND<10	
			6/5/2008	15.2	15.2	
			11/20/2008	4.42 J	4.42 J	
			6/11/2009	1.7 J	1.7 J	
MW-6	25	25 (100%)	7/20/1995		ND<10	ND<10
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	

		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.52		ND<0.52	
MW-12BR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.51		ND<0.51	
MW-12AR	15	15 (100%)	3/16/1999		ND<10	ND<10
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		
		3/11/2004	ND<10	ND<10		
		10/12/2004	ND<10	ND<10		
		4/1/2005	ND<10	ND<10		
		10/25/2005	ND<10	ND<10		
		4/29/2006	ND<10	ND<10		
		11/18/2006	ND<10	ND<10		
		5/23/2007	ND<10	ND<10		
		11/28/2007	ND<10	ND<10		
		6/5/2008	ND<10	ND<10		
		11/20/2008	ND<10	ND<10		
		6/11/2009	ND<0.51		ND<0.51	
MW-11R	25	24 (96%)	7/20/1995		ND<10	ND<10
		8/24/1995	ND<10	ND<10		
		9/28/1995	ND<10	ND<10		
		10/26/1995	ND<10	ND<10		
		11/19/1996	ND<10	ND<10		
		12/19/1996	ND<10	ND<10		
		3/24/1997	ND<10	ND<10		
		9/24/1997	ND<10	ND<10		
		4/7/1998	ND<10	ND<10		
		9/23/1998	ND<10	ND<10		
		3/16/1999	ND<10	ND<10		
		9/23/1999	ND<10	ND<10		
		3/15/2000	ND<10	ND<10		
		9/24/2003	ND<10	ND<10		

			3/11/2004	18	18	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.5	ND<0.5	
MW-10	25	25 (100%)	7/20/1995	ND<10	ND<10	
			8/24/1995	ND<10	ND<10	
			9/28/1995	ND<10	ND<10	
			10/26/1995	ND<10	ND<10	
			11/19/1996	ND<10	ND<10	
			12/19/1996	ND<10	ND<10	
			3/24/1997	ND<10	ND<10	
			9/24/1997	ND<10	ND<10	
			4/7/1998	ND<10	ND<10	
			9/23/1998	ND<10	ND<10	
			3/16/1999	ND<10	ND<10	
			9/23/1999	ND<10	ND<10	
			3/15/2000	ND<10	ND<10	
			9/24/2003	ND<10	ND<10	
			3/11/2004	ND<10	ND<10	
			10/12/2004	ND<10	ND<10	
			4/1/2005	ND<10	ND<10	
			10/25/2005	ND<10	ND<10	
			4/29/2006	ND<10	ND<10	
			11/18/2006	ND<10	ND<10	
			5/23/2007	ND<10	ND<10	
			11/28/2007	ND<10	ND<10	
			6/5/2008	ND<10	ND<10	
			11/20/2008	ND<10	ND<10	
			6/11/2009	ND<0.52		ND<0.52

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Phenol

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.4359%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 10
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.52	FALSE
MW-8	6/11/2009	1	0.51	FALSE
MW-7	6/11/2009	1	1.7	FALSE
MW-6	6/11/2009	1	0.52	FALSE
MW-12BR	6/11/2009	1	0.51	FALSE
MW-12AR	6/11/2009	1	0.51	FALSE
MW-11R	6/11/2009	1	0.5	FALSE
MW-10	6/11/2009	1	0.52	FALSE

Concentrations (ppb)

Parameter: Selenium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 172
Percent Non-Detects: 88.2051%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.21	ND<0.21

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	20 (80%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	27	27
			9/24/1997	ND<2	ND<2
			4/7/1998	68	68
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	1.54 J	1.54 J
			10/25/2005	1.83 J	1.83 J
			4/29/2006	1.32 J	1.32 J
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.21	ND<0.21

MW-8	25	21 (84%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	52	52	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	1.63 J	1.63 J	
			10/25/2005	1.52 J	1.52 J	
			4/29/2006	1.04 J	1.04 J	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.21		ND<0.21
MW-7	25	21 (84%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	58	58	
			9/23/1998	ND<2	ND<2	
			3/16/1999	90	90	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	1.34 J	1.34 J	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.27 J	0.27 J	
MW-6	25	25 (100%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.21		ND<0.21	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	1.89 J	1.89 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.21		ND<0.21	
MW-12AR	15	13 (86.6667%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	1.54 J	1.54 J		
		4/29/2006	1.83 J	1.83 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.21		ND<0.21	
MW-11R	25	22 (88%)	7/20/1995		ND<2	ND<2
		8/24/1995	ND<2	ND<2		
		9/28/1995	ND<2	ND<2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	20	20		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 ND<2	ND<2		
			10/25/2005	ND<2	ND<2	
			4/29/2006	1.39 J	1.39 J	
			11/18/2006	1.12 J	1.12 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008 ND<2	ND<2		
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.21		ND<0.21
MW-10	25	21 (84%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998 160	160		
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005 ND<2	ND<2		
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	1.04 J	1.04 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008 2.06	2.06		
			11/20/2008	ND<2	ND<2	
			6/11/2009	0.25 J	0.25 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Selenium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	ND<2	86.5
	10/25/2005	ND<2	86.5
	4/29/2006	ND<2	86.5
	11/18/2006	ND<2	86.5
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	ND<2	86.5
	11/20/2008	ND<2	86.5
	6/11/2009	ND<0.21	86.5

Rank Sum = 1297.5
Rank Mean = 86.5

Background Rank Sum = 1297.5
Background Rank Mean = 86.5

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	86.5
	8/24/1995	ND<2	86.5
	9/28/1995	ND<2	86.5
	10/26/1995	ND<2	86.5
	11/19/1996	ND<2	86.5
	12/19/1996	ND<2	86.5
	3/24/1997	27	190
	9/24/1997	ND<2	86.5
	4/7/1998	68	193
	9/23/1998	ND<2	86.5
	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	1.54 J	182
	10/25/2005	1.83 J	185
	4/29/2006	1.32 J	178
	11/18/2006	ND<2	86.5
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	ND<2	86.5

	11/20/2008	ND<2	86.5	
	6/11/2009	ND<0.21		86.5

Rank Sum = 2658
Rank Mean = 106.32

MW-8	7/20/1995	ND<2	86.5	
	8/24/1995	ND<2	86.5	
	9/28/1995	ND<2	86.5	
	10/26/1995	ND<2	86.5	
	11/19/1996	ND<2	86.5	
	12/19/1996	ND<2	86.5	
	3/24/1997	ND<2	86.5	
	9/24/1997	ND<2	86.5	
	4/7/1998	52	191	
	9/23/1998	ND<2	86.5	
	3/16/1999	ND<2	86.5	
	9/23/1999	ND<2	86.5	
	3/15/2000	ND<2	86.5	
	9/24/2003	ND<2	86.5	
	3/11/2004	ND<2	86.5	
	10/12/2004	ND<2	86.5	
	4/1/2005	1.63 J	184	
	10/25/2005	1.52 J	181	
	4/29/2006	1.04 J	175	
	11/18/2006	ND<2	86.5	
	5/23/2007	ND<2	86.5	
	11/28/2007	ND<2	86.5	
	6/5/2008	ND<2	86.5	
	11/20/2008	ND<2	86.5	
	6/11/2009	ND<0.21		86.5

Rank Sum = 2547.5
Rank Mean = 101.9

MW-7	7/20/1995	ND<2	86.5	
	8/24/1995	ND<2	86.5	
	9/28/1995	ND<2	86.5	
	10/26/1995	ND<2	86.5	
	11/19/1996	ND<2	86.5	
	12/19/1996	ND<2	86.5	
	3/24/1997	ND<2	86.5	
	9/24/1997	ND<2	86.5	
	4/7/1998	58	192	
	9/23/1998	ND<2	86.5	
	3/16/1999	90	194	
	9/23/1999	ND<2	86.5	
	3/15/2000	ND<2	86.5	
	9/24/2003	ND<2	86.5	
	3/11/2004	ND<2	86.5	
	10/12/2004	ND<2	86.5	
	4/1/2005	ND<2	86.5	
	10/25/2005	ND<2	86.5	
	4/29/2006	1.34 J	179	
	11/18/2006	ND<2	86.5	
	5/23/2007	ND<2	86.5	
	11/28/2007	ND<2	86.5	
	6/5/2008	ND<2	86.5	
	11/20/2008	ND<2	86.5	
	6/11/2009	0.27 J	174	

Rank Sum = 2555.5
Rank Mean = 102.22

MW-6	7/20/1995	ND<2	86.5

	8/24/1995	ND<2	86.5
	9/28/1995	ND<2	86.5
	10/26/1995	ND<2	86.5
	11/19/1996	ND<2	86.5
	12/19/1996	ND<2	86.5
	3/24/1997	ND<2	86.5
	9/24/1997	ND<2	86.5
	4/7/1998	ND<2	86.5
	9/23/1998	ND<2	86.5
	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	ND<2	86.5
	10/25/2005	ND<2	86.5
	4/29/2006	ND<2	86.5
	11/18/2006	ND<2	86.5
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	ND<2	86.5
	11/20/2008	ND<2	86.5
	6/11/2009	ND<0.21	86.5

Rank Sum = 2162.5
Rank Mean = 86.5

MW-12BR	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	1.89 J	187
	10/25/2005	ND<2	86.5
	4/29/2006	ND<2	86.5
	11/18/2006	ND<2	86.5
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	ND<2	86.5
	11/20/2008	ND<2	86.5
	6/11/2009	ND<0.21	86.5

Rank Sum = 1398
Rank Mean = 93.2

MW-12AR	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	ND<2	86.5
	10/25/2005	1.54 J	183
	4/29/2006	1.83 J	186
	11/18/2006	ND<2	86.5
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	ND<2	86.5
	11/20/2008	ND<2	86.5
	6/11/2009	ND<0.21	86.5

Rank Sum = 1493.5
Rank Mean = 99.5667

MW-11R	7/20/1995	ND<2	86.5	
	8/24/1995	ND<2	86.5	
	9/28/1995	ND<2	86.5	
	10/26/1995	ND<2	86.5	
	11/19/1996	ND<2	86.5	
	12/19/1996	ND<2	86.5	
	3/24/1997	ND<2	86.5	
	9/24/1997	ND<2	86.5	
	4/7/1998	20	189	
	9/23/1998	ND<2	86.5	
	3/16/1999	ND<2	86.5	
	9/23/1999	ND<2	86.5	
	3/15/2000	ND<2	86.5	
	9/24/2003	ND<2	86.5	
	3/11/2004	ND<2	86.5	
	10/12/2004	ND<2	86.5	
	4/1/2005	ND<2	86.5	
	10/25/2005	ND<2	86.5	
	4/29/2006	1.39 J	180	
	11/18/2006	1.12 J	177	
	5/23/2007	ND<2	86.5	
	11/28/2007	ND<2	86.5	
	6/5/2008	ND<2	86.5	
	11/20/2008	ND<2	86.5	
	6/11/2009	ND<0.21		86.5

Rank Sum = 2449
Rank Mean = 97.96

MW-10	7/20/1995	ND<2	86.5
	8/24/1995	ND<2	86.5
	9/28/1995	ND<2	86.5
	10/26/1995	ND<2	86.5
	11/19/1996	ND<2	86.5
	12/19/1996	ND<2	86.5
	3/24/1997	ND<2	86.5
	9/24/1997	ND<2	86.5
	4/7/1998	160	195
	9/23/1998	ND<2	86.5
	3/16/1999	ND<2	86.5
	9/23/1999	ND<2	86.5
	3/15/2000	ND<2	86.5
	9/24/2003	ND<2	86.5
	3/11/2004	ND<2	86.5
	10/12/2004	ND<2	86.5
	4/1/2005	ND<2	86.5
	10/25/2005	ND<2	86.5
	4/29/2006	ND<2	86.5
	11/18/2006	1.04 J	176
	5/23/2007	ND<2	86.5
	11/28/2007	ND<2	86.5
	6/5/2008	2.06	188
	11/20/2008	ND<2	86.5
	6/11/2009	0.25 J	173

Rank Sum = 2548.5
Rank Mean = 101.94

Calculation Results:

Kruskal-Wallis H Statistic = 2.70536
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 8.62248

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
2.70536 < 15.5073 indicating no significant group difference at 5% significance level
8.62248 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties

Concentrations (ppb)

Parameter: Tetrachloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 137
Percent Non-Detects: 70.2564%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.15	ND<0.15

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	14 (56%)	7/20/1995	0.43 J	0.43 J
			8/24/1995	0.51 J	0.51 J
			9/28/1995	0.8 J	0.8 J
			10/26/1995	0.9 J	0.9 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	0.32 J	0.32 J
			10/25/2005	ND<2	ND<2
			4/29/2006	0.29 J	0.29 J
			11/18/2006	0.21 J	0.21 J
			5/23/2007	ND<2	ND<2
			11/28/2007	0.28 J	0.28 J
			6/5/2008	0.41 J	0.41 J
			11/20/2008	0.41 J	0.41 J
			6/11/2009	0.39 J	0.39 J

MW-8	25	6 (24%)	7/20/1995	3.2	3.2	
			8/24/1995	99	99	
			9/28/1995	88	88	
			10/26/1995	8	8	
			11/19/1996	ND<2	ND<2	
			12/19/1996	59	59	
			3/24/1997	49	49	
			9/24/1997	34	34	
			4/7/1998	ND<2	ND<2	
			9/23/1998	31	31	
			3/16/1999	30.4	30.4	
			9/23/1999	32.2	32.2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	6	6	
			10/12/2004	ND<2	ND<2	
			4/1/2005	5.34	5.34	
			10/25/2005	2.18	2.18	
			4/29/2006	2.4	2.4	
			11/18/2006	2.69	2.69	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.54 J	0.54 J	
			6/5/2008	0.84 J	0.84 J	
			11/20/2008	0.65 J	0.65 J	
			6/11/2009	0.8 J	0.8 J	
MW-7	25	21 (84%)	7/20/1995	0.86 J	0.86 J	
			8/24/1995	0.67 J	0.67 J	
			9/28/1995	0.8 J	0.8 J	
			10/26/1995	0.9 J	0.9 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.15	ND<0.15	
MW-6	25	25 (100%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.15		ND<0.15	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	0.42 J	0.42 J		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.15		ND<0.15	
MW-12AR	15	12 (80%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	0.32 J	0.32 J		
		4/29/2006	0.35 J	0.35 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	0.3 J	0.3 J		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.15		ND<0.15	
MW-11R	25	14 (56%)	7/20/1995	2.1	2.1	
		8/24/1995	4.4	4.4		
		9/28/1995	2	2		
		10/26/1995	4	4		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	2.7	2.7		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	2.64	2.64	
			10/25/2005	0.46 J	0.46 J	
			4/29/2006	ND<2	ND<2	
			11/18/2006	0.49 J	0.49 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.38 J	0.38 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.4 J	0.4 J	
			6/11/2009	2.3	2.3	
MW-10	25	16 (64%)	7/20/1995		0.71 J	0.71 J
			8/24/1995	1.6	1.6	
			9/28/1995	ND<2	ND<2	
			10/26/1995	2	2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.75 J	0.75 J	
			10/25/2005	0.71 J	0.71 J	
			4/29/2006	0.96 J	0.96 J	
			11/18/2006	0.55 J	0.55 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.31 J	0.31 J	
			6/5/2008	0.36 J	0.36 J	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.15		ND<0.15

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Tetrachloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	ND<2	69
	10/25/2005	ND<2	69
	4/29/2006	ND<2	69
	11/18/2006	ND<2	69
	5/23/2007	ND<2	69
	11/28/2007	ND<2	69
	6/5/2008	ND<2	69
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 1035
Rank Mean = 69

Background Rank Sum = 1035
Background Rank Mean = 69

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	0.43 J	153
	8/24/1995	0.51 J	156
	9/28/1995	0.8 J	164
	10/26/1995	0.9 J	169
	11/19/1996	ND<2	69
	12/19/1996	ND<2	69
	3/24/1997	ND<2	69
	9/24/1997	ND<2	69
	4/7/1998	ND<2	69
	9/23/1998	ND<2	69
	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	0.32 J	143
	10/25/2005	ND<2	69
	4/29/2006	0.29 J	140
	11/18/2006	0.21 J	138
	5/23/2007	ND<2	69
	11/28/2007	0.28 J	139
	6/5/2008	0.41 J	150

	11/20/2008	0.41 J	151
	6/11/2009	0.39 J	148

Rank Sum = 2617
Rank Mean = 104.68

MW-8	7/20/1995	3.2	182
	8/24/1995	99	195
	9/28/1995	88	194
	10/26/1995	8	187
	11/19/1996	ND<2	69
	12/19/1996	59	193
	3/24/1997	49	192
	9/24/1997	34	191
	4/7/1998	ND<2	69
	9/23/1998	31	189
	3/16/1999	30.4	188
	9/23/1999	32.2	190
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	6	186
	10/12/2004	ND<2	69
	4/1/2005	5.34	185
	10/25/2005	2.18	176
	4/29/2006	2.4	178
	11/18/2006	2.69	180
	5/23/2007	ND<2	69
	11/28/2007	0.54 J	157
	6/5/2008	0.84 J	167
	11/20/2008	0.65 J	159
	6/11/2009	0.8 J	165

Rank Sum = 3868
Rank Mean = 154.72

MW-7	7/20/1995	0.86 J	168
	8/24/1995	0.67 J	160
	9/28/1995	0.8 J	166
	10/26/1995	0.9 J	170
	11/19/1996	ND<2	69
	12/19/1996	ND<2	69
	3/24/1997	ND<2	69
	9/24/1997	ND<2	69
	4/7/1998	ND<2	69
	9/23/1998	ND<2	69
	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	ND<2	69
	10/25/2005	ND<2	69
	4/29/2006	ND<2	69
	11/18/2006	ND<2	69
	5/23/2007	ND<2	69
	11/28/2007	ND<2	69
	6/5/2008	ND<2	69
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 2113
Rank Mean = 84.52

MW-6	7/20/1995	ND<2	69

	8/24/1995	ND<2	69
	9/28/1995	ND<2	69
	10/26/1995	ND<2	69
	11/19/1996	ND<2	69
	12/19/1996	ND<2	69
	3/24/1997	ND<2	69
	9/24/1997	ND<2	69
	4/7/1998	ND<2	69
	9/23/1998	ND<2	69
	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	ND<2	69
	10/25/2005	ND<2	69
	4/29/2006	ND<2	69
	11/18/2006	ND<2	69
	5/23/2007	ND<2	69
	11/28/2007	ND<2	69
	6/5/2008	ND<2	69
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 1725
Rank Mean = 69

MW-12BR	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	0.42 J	152
	10/25/2005	ND<2	69
	4/29/2006	ND<2	69
	11/18/2006	ND<2	69
	5/23/2007	ND<2	69
	11/28/2007	ND<2	69
	6/5/2008	ND<2	69
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 1118
Rank Mean = 74.5333

MW-12AR	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	ND<2	69
	10/25/2005	0.32 J	144
	4/29/2006	0.35 J	145
	11/18/2006	ND<2	69
	5/23/2007	ND<2	69
	11/28/2007	ND<2	69
	6/5/2008	0.3 J	141
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 1258
Rank Mean = 83.8667

MW-11R	7/20/1995	2.1	175
	8/24/1995	4.4	184
	9/28/1995	2	173
	10/26/1995	4	183
	11/19/1996	ND<2	69
	12/19/1996	ND<2	69
	3/24/1997	ND<2	69
	9/24/1997	ND<2	69
	4/7/1998	ND<2	69
	9/23/1998	ND<2	69
	3/16/1999	2.7	181
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	2.64	179
	10/25/2005	0.46 J	154
	4/29/2006	ND<2	69
	11/18/2006	0.49 J	155
	5/23/2007	ND<2	69
	11/28/2007	0.38 J	147
	6/5/2008	ND<2	69
	11/20/2008	0.4 J	149
	6/11/2009	2.3	177

Rank Sum = 2823
Rank Mean = 112.92

MW-10	7/20/1995	0.71 J	161
	8/24/1995	1.6	172
	9/28/1995	ND<2	69
	10/26/1995	2	174
	11/19/1996	ND<2	69
	12/19/1996	ND<2	69
	3/24/1997	ND<2	69
	9/24/1997	ND<2	69
	4/7/1998	ND<2	69
	9/23/1998	ND<2	69
	3/16/1999	ND<2	69
	9/23/1999	ND<2	69
	3/15/2000	ND<2	69
	9/24/2003	ND<2	69
	3/11/2004	ND<2	69
	10/12/2004	ND<2	69
	4/1/2005	0.75 J	163
	10/25/2005	0.71 J	162
	4/29/2006	0.96 J	171
	11/18/2006	0.55 J	158
	5/23/2007	ND<2	69
	11/28/2007	0.31 J	142
	6/5/2008	0.36 J	146
	11/20/2008	ND<2	69
	6/11/2009	ND<0.15	69

Rank Sum = 2553
Rank Mean = 102.12

Calculation Results:

Kruskal-Wallis H Statistic = 43.0058
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 65.8359

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
43.0058 > 15.5073 indicating a significant group difference at 5% significance level
65.8359 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 69

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	104.68	35.68	42.8788	
MW-8	154.72	85.72	42.8788	
MW-7	84.52	15.52	42.8788	
MW-6	69	0	42.8788	
MW-12BR		74.5333	5.53333	47.94
MW-12AR		83.8667	14.8667	47.94
MW-11R	112.92	43.92	42.8788	
MW-10	102.12	33.12	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 69

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	104.68	35.68	46.3033	
MW-8	154.72	85.72	46.3033	
MW-7	84.52	15.52	46.3033	
MW-6	69	0	46.3033	
MW-12BR		74.5333	5.53333	51.7686
MW-12AR		83.8667	14.8667	51.7686
MW-11R	112.92	43.92	46.3033	
MW-10	102.12	33.12	46.3033	

Mann-Kendall Trend Analysis

Parameter: Tetrachloroethene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
99	3.2	95.8	1	0	
88	3.2	84.8	2	0	
8	3.2	4.8	3	0	
ND<2	3.2	-1.2	3	1	
59	3.2	55.8	4	1	
49	3.2	45.8	5	1	
34	3.2	30.8	6	1	
ND<2	3.2	-1.2	6	2	
31	3.2	27.8	7	2	
30.4	3.2	27.2	8	2	
32.2	3.2	29	9	2	
ND<2	3.2	-1.2	9	3	
ND<2	3.2	-1.2	9	4	
6	3.2	2.8	10	4	
ND<2	3.2	-1.2	10	5	
5.34	3.2	2.14	11	5	
2.18	3.2	-1.02	11	6	
2.4	3.2	-0.8	11	7	
2.69	3.2	-0.51	11	8	
ND<2	3.2	-1.2	11	9	
0.54 J	3.2	-2.66	11	10	
0.84 J	3.2	-2.36	11	11	
0.65 J	3.2	-2.55	11	12	
0.8 J	3.2	-2.4	11	13	
88	99	-11	11	14	
8	99	-91	11	15	
ND<2	99	-97	11	16	
59	99	-40	11	17	
49	99	-50	11	18	
34	99	-65	11	19	
ND<2	99	-97	11	20	
31	99	-68	11	21	
30.4	99	-68.6	11	22	
32.2	99	-66.8	11	23	
ND<2	99	-97	11	24	
ND<2	99	-97	11	25	
6	99	-93	11	26	
ND<2	99	-97	11	27	
5.34	99	-93.66	11	28	
2.18	99	-96.82	11	29	
2.4	99	-96.6	11	30	
2.69	99	-96.31	11	31	
ND<2	99	-97	11	32	
0.54 J	99	-98.46	11	33	
0.84 J	99	-98.16	11	34	
0.65 J	99	-98.35	11	35	
0.8 J	99	-98.2	11	36	

8	88	-80	11	37
ND<2	88	-86	11	38
59	88	-29	11	39
49	88	-39	11	40
34	88	-54	11	41
ND<2	88	-86	11	42
31	88	-57	11	43
30.4	88	-57.6	11	44
32.2	88	-55.8	11	45
ND<2	88	-86	11	46
ND<2	88	-86	11	47
6	88	-82	11	48
ND<2	88	-86	11	49
5.34	88	-82.66	11	50
2.18	88	-85.82	11	51
2.4	88	-85.6	11	52
2.69	88	-85.31	11	53
ND<2	88	-86	11	54
0.54 J	88	-87.46	11	55
0.84 J	88	-87.16	11	56
0.65 J	88	-87.35	11	57
0.8 J	88	-87.2	11	58
ND<2	8	-6	11	59
59	8	51	12	59
49	8	41	13	59
34	8	26	14	59
ND<2	8	-6	14	60
31	8	23	15	60
30.4	8	22.4	16	60
32.2	8	24.2	17	60
ND<2	8	-6	17	61
ND<2	8	-6	17	62
6	8	-2	17	63
ND<2	8	-6	17	64
5.34	8	-2.66	17	65
2.18	8	-5.82	17	66
2.4	8	-5.6	17	67
2.69	8	-5.31	17	68
ND<2	8	-6	17	69
0.54 J	8	-7.46	17	70
0.84 J	8	-7.16	17	71
0.65 J	8	-7.35	17	72
0.8 J	8	-7.2	17	73
59	ND<2	57	18	73
49	ND<2	47	19	73
34	ND<2	32	20	73
ND<2	ND<2	0	20	73
31	ND<2	29	21	73
30.4	ND<2	28.4	22	73
32.2	ND<2	30.2	23	73
ND<2	ND<2	0	23	73
ND<2	ND<2	0	23	73
6	ND<2	4	24	73
ND<2	ND<2	0	24	73
5.34	ND<2	3.34	25	73
2.18	ND<2	0.18	26	73
2.4	ND<2	0.4	27	73
2.69	ND<2	0.69	28	73
ND<2	ND<2	0	28	73

0.54 J	ND<2	-1.46	28	74
0.84 J	ND<2	-1.16	28	75
0.65 J	ND<2	-1.35	28	76
0.8 J	ND<2	-1.2	28	77
49	59	-10	28	78
34	59	-25	28	79
ND<2	59	-57	28	80
31	59	-28	28	81
30.4	59	-28.6	28	82
32.2	59	-26.8	28	83
ND<2	59	-57	28	84
ND<2	59	-57	28	85
6	59	-53	28	86
ND<2	59	-57	28	87
5.34	59	-53.66	28	88
2.18	59	-56.82	28	89
2.4	59	-56.6	28	90
2.69	59	-56.31	28	91
ND<2	59	-57	28	92
0.54 J	59	-58.46	28	93
0.84 J	59	-58.16	28	94
0.65 J	59	-58.35	28	95
0.8 J	59	-58.2	28	96
34	49	-15	28	97
ND<2	49	-47	28	98
31	49	-18	28	99
30.4	49	-18.6	28	100
32.2	49	-16.8	28	101
ND<2	49	-47	28	102
ND<2	49	-47	28	103
6	49	-43	28	104
ND<2	49	-47	28	105
5.34	49	-43.66	28	106
2.18	49	-46.82	28	107
2.4	49	-46.6	28	108
2.69	49	-46.31	28	109
ND<2	49	-47	28	110
0.54 J	49	-48.46	28	111
0.84 J	49	-48.16	28	112
0.65 J	49	-48.35	28	113
0.8 J	49	-48.2	28	114
ND<2	34	-32	28	115
31	34	-3	28	116
30.4	34	-3.6	28	117
32.2	34	-1.8	28	118
ND<2	34	-32	28	119
ND<2	34	-32	28	120
6	34	-28	28	121
ND<2	34	-32	28	122
5.34	34	-28.66	28	123
2.18	34	-31.82	28	124
2.4	34	-31.6	28	125
2.69	34	-31.31	28	126
ND<2	34	-32	28	127
0.54 J	34	-33.46	28	128
0.84 J	34	-33.16	28	129
0.65 J	34	-33.35	28	130
0.8 J	34	-33.2	28	131

31	ND<2	29	29	131
30.4	ND<2	28.4	30	131
32.2	ND<2	30.2	31	131
ND<2	ND<2	0	31	131
ND<2	ND<2	0	31	131
6	ND<2	4	32	131
ND<2	ND<2	0	32	131
5.34	ND<2	3.34	33	131
2.18	ND<2	0.18	34	131
2.4	ND<2	0.4	35	131
2.69	ND<2	0.69	36	131
ND<2	ND<2	0	36	131
0.54 J	ND<2	-1.46	36	132
0.84 J	ND<2	-1.16	36	133
0.65 J	ND<2	-1.35	36	134
0.8 J	ND<2	-1.2	36	135
30.4	31	-0.6	36	136
32.2	31	1.2	37	136
ND<2	31	-29	37	137
ND<2	31	-29	37	138
6	31	-25	37	139
ND<2	31	-29	37	140
5.34	31	-25.66	37	141
2.18	31	-28.82	37	142
2.4	31	-28.6	37	143
2.69	31	-28.31	37	144
ND<2	31	-29	37	145
0.54 J	31	-30.46	37	146
0.84 J	31	-30.16	37	147
0.65 J	31	-30.35	37	148
0.8 J	31	-30.2	37	149
32.2	30.4	1.8	38	149
ND<2	30.4	-28.4	38	150
ND<2	30.4	-28.4	38	151
6	30.4	-24.4	38	152
ND<2	30.4	-28.4	38	153
5.34	30.4	-25.06	38	154
2.18	30.4	-28.22	38	155
2.4	30.4	-28	38	156
2.69	30.4	-27.71	38	157
ND<2	30.4	-28.4	38	158
0.54 J	30.4	-29.86	38	159
0.84 J	30.4	-29.56	38	160
0.65 J	30.4	-29.75	38	161
0.8 J	30.4	-29.6	38	162
ND<2	32.2	-30.2	38	163
ND<2	32.2	-30.2	38	164
6	32.2	-26.2	38	165
ND<2	32.2	-30.2	38	166
5.34	32.2	-26.86	38	167
2.18	32.2	-30.02	38	168
2.4	32.2	-29.8	38	169
2.69	32.2	-29.51	38	170
ND<2	32.2	-30.2	38	171
0.54 J	32.2	-31.66	38	172
0.84 J	32.2	-31.36	38	173
0.65 J	32.2	-31.55	38	174
0.8 J	32.2	-31.4	38	175

ND<2	ND<2	0	38	175
6	ND<2	4	39	175
ND<2	ND<2	0	39	175
5.34	ND<2	3.34	40	175
2.18	ND<2	0.18	41	175
2.4	ND<2	0.4	42	175
2.69	ND<2	0.69	43	175
ND<2	ND<2	0	43	175
0.54 J	ND<2	-1.46	43	176
0.84 J	ND<2	-1.16	43	177
0.65 J	ND<2	-1.35	43	178
0.8 J	ND<2	-1.2	43	179
6	ND<2	4	44	179
ND<2	ND<2	0	44	179
5.34	ND<2	3.34	45	179
2.18	ND<2	0.18	46	179
2.4	ND<2	0.4	47	179
2.69	ND<2	0.69	48	179
ND<2	ND<2	0	48	179
0.54 J	ND<2	-1.46	48	180
0.84 J	ND<2	-1.16	48	181
0.65 J	ND<2	-1.35	48	182
0.8 J	ND<2	-1.2	48	183
ND<2	6	-4	48	184
5.34	6	-0.66	48	185
2.18	6	-3.82	48	186
2.4	6	-3.6	48	187
2.69	6	-3.31	48	188
ND<2	6	-4	48	189
0.54 J	6	-5.46	48	190
0.84 J	6	-5.16	48	191
0.65 J	6	-5.35	48	192
0.8 J	6	-5.2	48	193
5.34	ND<2	3.34	49	193
2.18	ND<2	0.18	50	193
2.4	ND<2	0.4	51	193
2.69	ND<2	0.69	52	193
ND<2	ND<2	0	52	193
0.54 J	ND<2	-1.46	52	194
0.84 J	ND<2	-1.16	52	195
0.65 J	ND<2	-1.35	52	196
0.8 J	ND<2	-1.2	52	197
2.18	5.34	-3.16	52	198
2.4	5.34	-2.94	52	199
2.69	5.34	-2.65	52	200
ND<2	5.34	-3.34	52	201
0.54 J	5.34	-4.8	52	202
0.84 J	5.34	-4.5	52	203
0.65 J	5.34	-4.69	52	204
0.8 J	5.34	-4.54	52	205
2.4	2.18	0.22	53	205
2.69	2.18	0.51	54	205
ND<2	2.18	-0.18	54	206
0.54 J	2.18	-1.64	54	207
0.84 J	2.18	-1.34	54	208
0.65 J	2.18	-1.53	54	209
0.8 J	2.18	-1.38	54	210

2.69	2.4	0.29	55	210
ND<2	2.4	-0.4	55	211
0.54 J	2.4	-1.86	55	212
0.84 J	2.4	-1.56	55	213
0.65 J	2.4	-1.75	55	214
0.8 J	2.4	-1.6	55	215
ND<2	2.69	-0.69	55	216
0.54 J	2.69	-2.15	55	217
0.84 J	2.69	-1.85	55	218
0.65 J	2.69	-2.04	55	219
0.8 J	2.69	-1.89	55	220
0.54 J	ND<2	-1.46	55	221
0.84 J	ND<2	-1.16	55	222
0.65 J	ND<2	-1.35	55	223
0.8 J	ND<2	-1.2	55	224
0.84 J	0.54 J	0.3	56	224
0.65 J	0.54 J	0.11	57	224
0.8 J	0.54 J	0.26	58	224
0.65 J	0.84 J	-0.19	58	225
0.8 J	0.84 J	-0.04	58	226
0.8 J	0.65 J	0.15	59	226

S Statistic = 59 - 226 = -167

Tied Group	Value	Members
1	2	6

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 510
B = 0
C = 120
D = 0
E = 30
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1805
Z-Score = -3.90723
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.90723 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: Tetrachloroethene

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
4.4	2.1	2.3	1	0	
2	2.1	-0.1	1	1	
4	2.1	1.9	2	1	
ND<2	2.1	-0.1	2	2	
ND<2	2.1	-0.1	2	3	
ND<2	2.1	-0.1	2	4	
ND<2	2.1	-0.1	2	5	
ND<2	2.1	-0.1	2	6	
ND<2	2.1	-0.1	2	7	
2.7	2.1	0.6	3	7	
ND<2	2.1	-0.1	3	8	
ND<2	2.1	-0.1	3	9	
ND<2	2.1	-0.1	3	10	
ND<2	2.1	-0.1	3	11	
ND<2	2.1	-0.1	3	12	
2.64	2.1	0.54	4	12	
0.46 J	2.1	-1.64	4	13	
ND<2	2.1	-0.1	4	14	
0.49 J	2.1	-1.61	4	15	
ND<2	2.1	-0.1	4	16	
0.38 J	2.1	-1.72	4	17	
ND<2	2.1	-0.1	4	18	
0.4 J	2.1	-1.7	4	19	
2.3	2.1	0.2	5	19	
2	4.4	-2.4	5	20	
4	4.4	-0.4	5	21	
ND<2	4.4	-2.4	5	22	
ND<2	4.4	-2.4	5	23	
ND<2	4.4	-2.4	5	24	
ND<2	4.4	-2.4	5	25	
ND<2	4.4	-2.4	5	26	
ND<2	4.4	-2.4	5	27	
2.7	4.4	-1.7	5	28	
ND<2	4.4	-2.4	5	29	
ND<2	4.4	-2.4	5	30	
ND<2	4.4	-2.4	5	31	
ND<2	4.4	-2.4	5	32	
ND<2	4.4	-2.4	5	33	
2.64	4.4	-1.76	5	34	
0.46 J	4.4	-3.94	5	35	
ND<2	4.4	-2.4	5	36	
0.49 J	4.4	-3.91	5	37	
ND<2	4.4	-2.4	5	38	
0.38 J	4.4	-4.02	5	39	
ND<2	4.4	-2.4	5	40	
0.4 J	4.4	-4	5	41	
2.3	4.4	-2.1	5	42	

4	2	2	6	42
ND<2	2	0	6	42
ND<2	2	0	6	42
ND<2	2	0	6	42
ND<2	2	0	6	42
ND<2	2	0	6	42
ND<2	2	0	6	42
2.7	2	0.7	7	42
ND<2	2	0	7	42
ND<2	2	0	7	42
ND<2	2	0	7	42
ND<2	2	0	7	42
ND<2	2	0	7	42
2.64	2	0.64	8	42
0.46 J	2	-1.54	8	43
ND<2	2	0	8	43
0.49 J	2	-1.51	8	44
ND<2	2	0	8	44
0.38 J	2	-1.62	8	45
ND<2	2	0	8	45
0.4 J	2	-1.6	8	46
2.3	2	0.3	9	46
ND<2	4	-2	9	47
ND<2	4	-2	9	48
ND<2	4	-2	9	49
ND<2	4	-2	9	50
ND<2	4	-2	9	51
ND<2	4	-2	9	52
2.7	4	-1.3	9	53
ND<2	4	-2	9	54
ND<2	4	-2	9	55
ND<2	4	-2	9	56
ND<2	4	-2	9	57
ND<2	4	-2	9	58
2.64	4	-1.36	9	59
0.46 J	4	-3.54	9	60
ND<2	4	-2	9	61
0.49 J	4	-3.51	9	62
ND<2	4	-2	9	63
0.38 J	4	-3.62	9	64
ND<2	4	-2	9	65
0.4 J	4	-3.6	9	66
2.3	4	-1.7	9	67
ND<2	ND<2	0	9	67
ND<2	ND<2	0	9	67
ND<2	ND<2	0	9	67
ND<2	ND<2	0	9	67
ND<2	ND<2	0	9	67
2.7	ND<2	0.7	10	67
ND<2	ND<2	0	10	67
ND<2	ND<2	0	10	67
ND<2	ND<2	0	10	67
ND<2	ND<2	0	10	67
ND<2	ND<2	0	10	67
2.64	ND<2	0.64	11	67
0.46 J	ND<2	-1.54	11	68
ND<2	ND<2	0	11	68
0.49 J	ND<2	-1.51	11	69
ND<2	ND<2	0	11	69

0.38 J	ND<2	-1.62	11	70
ND<2	ND<2	0	11	70
0.4 J	ND<2	-1.6	11	71
2.3	ND<2	0.3	12	71
ND<2	ND<2	0	12	71
ND<2	ND<2	0	12	71
ND<2	ND<2	0	12	71
ND<2	ND<2	0	12	71
2.7	ND<2	0.7	13	71
ND<2	ND<2	0	13	71
ND<2	ND<2	0	13	71
ND<2	ND<2	0	13	71
ND<2	ND<2	0	13	71
ND<2	ND<2	0	13	71
2.64	ND<2	0.64	14	71
0.46 J	ND<2	-1.54	14	72
ND<2	ND<2	0	14	72
0.49 J	ND<2	-1.51	14	73
ND<2	ND<2	0	14	73
0.38 J	ND<2	-1.62	14	74
ND<2	ND<2	0	14	74
0.4 J	ND<2	-1.6	14	75
2.3	ND<2	0.3	15	75
ND<2	ND<2	0	15	75
ND<2	ND<2	0	15	75
ND<2	ND<2	0	15	75
2.7	ND<2	0.7	16	75
ND<2	ND<2	0	16	75
ND<2	ND<2	0	16	75
ND<2	ND<2	0	16	75
ND<2	ND<2	0	16	75
ND<2	ND<2	0	16	75
2.64	ND<2	0.64	17	75
0.46 J	ND<2	-1.54	17	76
ND<2	ND<2	0	17	76
0.49 J	ND<2	-1.51	17	77
ND<2	ND<2	0	17	77
0.38 J	ND<2	-1.62	17	78
ND<2	ND<2	0	17	78
0.4 J	ND<2	-1.6	17	79
2.3	ND<2	0.3	18	79
ND<2	ND<2	0	18	79
ND<2	ND<2	0	18	79
2.7	ND<2	0.7	19	79
ND<2	ND<2	0	19	79
ND<2	ND<2	0	19	79
ND<2	ND<2	0	19	79
ND<2	ND<2	0	19	79
ND<2	ND<2	0	19	79
2.64	ND<2	0.64	20	79
0.46 J	ND<2	-1.54	20	80
ND<2	ND<2	0	20	80
0.49 J	ND<2	-1.51	20	81
ND<2	ND<2	0	20	81
0.38 J	ND<2	-1.62	20	82
ND<2	ND<2	0	20	82
0.4 J	ND<2	-1.6	20	83
2.3	ND<2	0.3	21	83

ND<2	ND<2	0	21	83
2.7	ND<2	0.7	22	83
ND<2	ND<2	0	22	83
ND<2	ND<2	0	22	83
ND<2	ND<2	0	22	83
ND<2	ND<2	0	22	83
ND<2	ND<2	0	22	83
2.64	ND<2	0.64	23	83
0.46 J	ND<2	-1.54	23	84
ND<2	ND<2	0	23	84
0.49 J	ND<2	-1.51	23	85
ND<2	ND<2	0	23	85
0.38 J	ND<2	-1.62	23	86
ND<2	ND<2	0	23	86
0.4 J	ND<2	-1.6	23	87
2.3	ND<2	0.3	24	87
2.7	ND<2	0.7	25	87
ND<2	ND<2	0	25	87
ND<2	ND<2	0	25	87
ND<2	ND<2	0	25	87
ND<2	ND<2	0	25	87
ND<2	ND<2	0	25	87
2.64	ND<2	0.64	26	87
0.46 J	ND<2	-1.54	26	88
ND<2	ND<2	0	26	88
0.49 J	ND<2	-1.51	26	89
ND<2	ND<2	0	26	89
0.38 J	ND<2	-1.62	26	90
ND<2	ND<2	0	26	90
0.4 J	ND<2	-1.6	26	91
2.3	ND<2	0.3	27	91
ND<2	2.7	-0.7	27	92
ND<2	2.7	-0.7	27	93
ND<2	2.7	-0.7	27	94
ND<2	2.7	-0.7	27	95
ND<2	2.7	-0.7	27	96
2.64	2.7	-0.06	27	97
0.46 J	2.7	-2.24	27	98
ND<2	2.7	-0.7	27	99
0.49 J	2.7	-2.21	27	100
ND<2	2.7	-0.7	27	101
0.38 J	2.7	-2.32	27	102
ND<2	2.7	-0.7	27	103
0.4 J	2.7	-2.3	27	104
2.3	2.7	-0.4	27	105
ND<2	ND<2	0	27	105
ND<2	ND<2	0	27	105
ND<2	ND<2	0	27	105
ND<2	ND<2	0	27	105
2.64	ND<2	0.64	28	105
0.46 J	ND<2	-1.54	28	106
ND<2	ND<2	0	28	106
0.49 J	ND<2	-1.51	28	107
ND<2	ND<2	0	28	107
0.38 J	ND<2	-1.62	28	108
ND<2	ND<2	0	28	108
0.4 J	ND<2	-1.6	28	109
2.3	ND<2	0.3	29	109

ND<2	ND<2	0	29	109
ND<2	ND<2	0	29	109
ND<2	ND<2	0	29	109
2.64	ND<2	0.64	30	109
0.46 J	ND<2	-1.54	30	110
ND<2	ND<2	0	30	110
0.49 J	ND<2	-1.51	30	111
ND<2	ND<2	0	30	111
0.38 J	ND<2	-1.62	30	112
ND<2	ND<2	0	30	112
0.4 J	ND<2	-1.6	30	113
2.3	ND<2	0.3	31	113
ND<2	ND<2	0	31	113
ND<2	ND<2	0	31	113
2.64	ND<2	0.64	32	113
0.46 J	ND<2	-1.54	32	114
ND<2	ND<2	0	32	114
0.49 J	ND<2	-1.51	32	115
ND<2	ND<2	0	32	115
0.38 J	ND<2	-1.62	32	116
ND<2	ND<2	0	32	116
0.4 J	ND<2	-1.6	32	117
2.3	ND<2	0.3	33	117
ND<2	ND<2	0	33	117
2.64	ND<2	0.64	34	117
0.46 J	ND<2	-1.54	34	118
ND<2	ND<2	0	34	118
0.49 J	ND<2	-1.51	34	119
ND<2	ND<2	0	34	119
0.38 J	ND<2	-1.62	34	120
ND<2	ND<2	0	34	120
0.4 J	ND<2	-1.6	34	121
2.3	ND<2	0.3	35	121
2.64	ND<2	0.64	36	121
0.46 J	ND<2	-1.54	36	122
ND<2	ND<2	0	36	122
0.49 J	ND<2	-1.51	36	123
ND<2	ND<2	0	36	123
0.38 J	ND<2	-1.62	36	124
ND<2	ND<2	0	36	124
0.4 J	ND<2	-1.6	36	125
2.3	ND<2	0.3	37	125
0.46 J	2.64	-2.18	37	126
ND<2	2.64	-0.64	37	127
0.49 J	2.64	-2.15	37	128
ND<2	2.64	-0.64	37	129
0.38 J	2.64	-2.26	37	130
ND<2	2.64	-0.64	37	131
0.4 J	2.64	-2.24	37	132
2.3	2.64	-0.34	37	133
ND<2	0.46 J	1.54	38	133
0.49 J	0.46 J	0.03	39	133
ND<2	0.46 J	1.54	40	133
0.38 J	0.46 J	-0.08	40	134
ND<2	0.46 J	1.54	41	134
0.4 J	0.46 J	-0.06	41	135
2.3	0.46 J	1.84	42	135

0.49 J	ND<2	-1.51	42	136
ND<2	ND<2	0	42	136
0.38 J	ND<2	-1.62	42	137
ND<2	ND<2	0	42	137
0.4 J	ND<2	-1.6	42	138
2.3	ND<2	0.3	43	138
ND<2	0.49 J	1.51	44	138
0.38 J	0.49 J	-0.11	44	139
ND<2	0.49 J	1.51	45	139
0.4 J	0.49 J	-0.09	45	140
2.3	0.49 J	1.81	46	140
0.38 J	ND<2	-1.62	46	141
ND<2	ND<2	0	46	141
0.4 J	ND<2	-1.6	46	142
2.3	ND<2	0.3	47	142
ND<2	0.38 J	1.62	48	142
0.4 J	0.38 J	0.02	49	142
2.3	0.38 J	1.92	50	142
0.4 J	ND<2	-1.6	50	143
2.3	ND<2	0.3	51	143
2.3	0.4 J	1.9	52	143

S Statistic = 52 - 143 = -91

Tied Group	Value	Members
1	2	15

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 7350
B = 0
C = 2730
D = 0
E = 210
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1425
Z-Score = -2.38416
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.38416 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Tin

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 191
Percent Non-Detects: 97.9487%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	14 (93.3333%)	3/16/1999	ND<20	ND<20
			9/23/1999	ND<20	ND<20
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	5.1 J	5.1 J
			6/5/2008	ND<20	ND<20
			11/20/2008	ND<20	ND<20
			6/11/2009	ND<0.4	ND<0.4

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	23 (92%)	7/20/1995	ND<20	ND<20
			8/24/1995	ND<20	ND<20
			9/28/1995	ND<20	ND<20
			10/26/1995	ND<20	ND<20
			11/19/1996	ND<20	ND<20
			12/19/1996	ND<20	ND<20
			3/24/1997	ND<20	ND<20
			9/24/1997	ND<20	ND<20
			4/7/1998	ND<20	ND<20
			9/23/1998	ND<20	ND<20
			3/16/1999	ND<20	ND<20
			9/23/1999	ND<20	ND<20
			3/15/2000	ND<20	ND<20
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	ND<20	ND<20
			11/20/2008	14 J	14 J
			6/11/2009	0.45 J	0.45 J

MW-8	25	25 (100%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	ND<20	ND<20	
			11/20/2008	ND<20	ND<20	
			6/11/2009	ND<0.4	ND<0.4	
MW-7	25	24 (96%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008	ND<20	ND<20	
			11/20/2008	35	35	
			6/11/2009	ND<0.4	ND<0.4	
MW-6	25	25 (100%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	

		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<0.4	ND<0.4		
MW-12BR	15	15 (100%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<0.4	ND<0.4		
MW-12AR	15	15 (100%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<0.4	ND<0.4		
MW-11R	25	25 (100%)	7/20/1995	ND<20	ND<20	
		8/24/1995	ND<20	ND<20		
		9/28/1995	ND<20	ND<20		
		10/26/1995	ND<20	ND<20		
		11/19/1996	ND<20	ND<20		
		12/19/1996	ND<20	ND<20		
		3/24/1997	ND<20	ND<20		
		9/24/1997	ND<20	ND<20		
		4/7/1998	ND<20	ND<20		
		9/23/1998	ND<20	ND<20		
		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		

			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	ND<0.4	ND<0.4	
MW-10	25	25 (100%)	7/20/1995	ND<20	ND<20	
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998 ND<20	ND<20		
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	ND<20	ND<20	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	ND<20	ND<20	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	ND<0.4	ND<0.4	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Tin

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 97.9487%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 20
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.45	FALSE
MW-8	6/11/2009	1	0.4	FALSE
MW-7	6/11/2009	1	0.4	FALSE
MW-6	6/11/2009	1	0.4	FALSE
MW-12BR	6/11/2009	1	0.4	FALSE
MW-12AR	6/11/2009	1	0.4	FALSE
MW-11R	6/11/2009	1	0.4	FALSE
MW-10	6/11/2009	1	0.4	FALSE

Concentrations (ppb)

Parameter: Toluene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 169
Percent Non-Detects: 86.6667%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	14 (93.3333%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	1.15 J	1.15 J
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.33	ND<0.33

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	20 (80%)	7/20/1995	0.26 J	0.26 J
			8/24/1995	ND<2	ND<2
			9/28/1995	ND<2	ND<2
			10/26/1995	ND<2	ND<2
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	0.46 J	0.46 J
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	0.2 J	0.2 J
			6/5/2008	ND<2	ND<2
			11/20/2008	0.33 J	0.33 J
			6/11/2009	0.35 J	0.35 J

MW-8	25	16 (64%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	5	5	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.22 J	0.22 J	
			10/25/2005	0.55 J	0.55 J	
			4/29/2006	0.58 J	0.58 J	
			11/18/2006	0.49 J	0.49 J	
			5/23/2007	1.2 J	1.2 J	
			11/28/2007	0.85 J	0.85 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	1.34 J	1.34 J	
			6/11/2009	1	1	
MW-7	25	20 (80%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	0.26 J	0.26 J	
			4/29/2006	0.39 J	0.39 J	
			11/18/2006	0.51 J	0.51 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.27 J	0.27 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.29 J	0.29 J	
			6/11/2009	ND<0.33		ND<0.33
MW-6	25	24 (96%)	7/20/1995		ND<2	ND<2
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	0.43 J	0.43 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.33		ND<0.33	
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	0.24 J	0.24 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.33		ND<0.33	
MW-12AR	15	14 (93.3333%)	3/16/1999		ND<2	ND<2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	0.37 J	0.37 J		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.33		ND<0.33	
MW-11R	25	23 (92%)	7/20/1995		ND<2	ND<2
		8/24/1995	ND<2	ND<2		
		9/28/1995	ND<2	ND<2		
		10/26/1995	ND<2	ND<2		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	3.16	3.16	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.55 J	0.55 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.33		ND<0.33
MW-10	25	24 (96%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	0.35 J	0.35 J	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.33		ND<0.33

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Toluene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 86.6667%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.35	FALSE
MW-8	6/11/2009	1	1	FALSE
MW-7	6/11/2009	1	0.33	FALSE
MW-6	6/11/2009	1	0.33	FALSE
MW-12BR	6/11/2009	1	0.33	FALSE
MW-12AR	6/11/2009	1	0.33	FALSE
MW-11R	6/11/2009	1	0.33	FALSE
MW-10	6/11/2009	1	0.33	FALSE

Kruskal-Wallis Non-Parametric Test

Parameter: Toluene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	1.15 J	191
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 1381
Rank Mean = 92.0667

Background Rank Sum = 1381
Background Rank Mean = 92.0667

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	0.26 J	173
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	0.46 J	183
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	0.2 J	170
	6/5/2008	ND<2	85

	11/20/2008	0.33 J	177
	6/11/2009	0.35 J	178

Rank Sum = 2581
Rank Mean = 103.24

MW-8	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	5	195
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	0.22 J	171
	10/25/2005	0.55 J	186
	4/29/2006	0.58 J	188
	11/18/2006	0.49 J	184
	5/23/2007	1.2 J	192
	11/28/2007	0.85 J	189
	6/5/2008	ND<2	85
	11/20/2008	1.34 J	193
	6/11/2009	1	190

Rank Sum = 3048
Rank Mean = 121.92

MW-7	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	0.26 J	174
	4/29/2006	0.39 J	181
	11/18/2006	0.51 J	185
	5/23/2007	ND<2	85
	11/28/2007	0.27 J	175
	6/5/2008	ND<2	85
	11/20/2008	0.29 J	176
	6/11/2009	ND<0.33	85

Rank Sum = 2591
Rank Mean = 103.64

MW-6	7/20/1995	ND<2	85

	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	0.43 J	182
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 2222
Rank Mean = 88.88

MW-12BR	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	0.24 J	172
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 1362
Rank Mean = 90.8

MW-12AR	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	0.37 J	180
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 1370
Rank Mean = 91.3333

MW-11R	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	3.16	194
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	0.55 J	187
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 2336
Rank Mean = 93.44

MW-10	7/20/1995	ND<2	85
	8/24/1995	ND<2	85
	9/28/1995	ND<2	85
	10/26/1995	ND<2	85
	11/19/1996	ND<2	85
	12/19/1996	ND<2	85
	3/24/1997	ND<2	85
	9/24/1997	ND<2	85
	4/7/1998	ND<2	85
	9/23/1998	ND<2	85
	3/16/1999	ND<2	85
	9/23/1999	ND<2	85
	3/15/2000	ND<2	85
	9/24/2003	ND<2	85
	3/11/2004	ND<2	85
	10/12/2004	ND<2	85
	4/1/2005	ND<2	85
	10/25/2005	ND<2	85
	4/29/2006	0.35 J	179
	11/18/2006	ND<2	85
	5/23/2007	ND<2	85
	11/28/2007	ND<2	85
	6/5/2008	ND<2	85
	11/20/2008	ND<2	85
	6/11/2009	ND<0.33	85

Rank Sum = 2219
Rank Mean = 88.76

Calculation Results:

Kruskal-Wallis H Statistic = 7.06179
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 20.2319

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
7.06179 < 15.5073 indicating no significant group difference at 5% significance level
20.2319 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 92.0667

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	103.24	11.1733	42.8788
MW-8	121.92	29.8533	42.8788
MW-7	103.64	11.5733	42.8788
MW-6	88.88	-3.18667	42.8788
MW-12BR	90.8	-1.26667	47.94
MW-12AR	91.3333	-0.733333	47.94
MW-11R	93.44	1.37333	42.8788
MW-10	88.76	-3.30667	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 92.0667

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	103.24	11.1733	46.3033
MW-8	121.92	29.8533	46.3033
MW-7	103.64	11.5733	46.3033
MW-6	88.88	-3.18667	46.3033
MW-12BR	90.8	-1.26667	51.7686
MW-12AR	91.3333	-0.733333	51.7686
MW-11R	93.44	1.37333	46.3033
MW-10	88.76	-3.30667	46.3033

Concentrations (ppb)

Parameter: Trichloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 121
Percent Non-Detects: 62.0513%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.13	ND<0.13

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	13 (52%)	7/20/1995	0.33 J	0.33 J
			8/24/1995	0.5 J	0.5 J
			9/28/1995	0.8 J	0.8 J
			10/26/1995	1 J	1 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	0.7 J	0.7 J
			10/25/2005	0.53 J	0.53 J
			4/29/2006	0.45 J	0.45 J
			11/18/2006	0.43 J	0.43 J
			5/23/2007	0.6 J	0.6 J
			11/28/2007	0.74 J	0.74 J
			6/5/2008	ND<2	ND<2
			11/20/2008	0.6 J	0.6 J
			6/11/2009	0.67 J	0.67 J

MW-8	25	4 (16%)	7/20/1995	19	19	
			8/24/1995	300	300	
			9/28/1995	190	190	
			10/26/1995	15	15	
			11/19/1996	ND<2	ND<2	
			12/19/1996	280	280	
			3/24/1997	260	260	
			9/24/1997	150	150	
			4/7/1998	120	120	
			9/23/1998	150	150	
			3/16/1999	120	120	
			9/23/1999	77.4	77.4	
			3/15/2000	160	160	
			9/24/2003	ND<2	ND<2	
			3/11/2004	8.9	8.9	
			10/12/2004	ND<2	ND<2	
			4/1/2005	2.29	2.29	
			10/25/2005	6.66	6.66	
			4/29/2006	2.22	2.22	
			11/18/2006	3.54	3.54	
			5/23/2007	1.6	1.6	
			11/28/2007	4.18	4.18	
			6/5/2008	ND<2 J	ND<2 J	
			11/20/2008	1.3 J	1.3 J	
			6/11/2009	1.3	1.3	
MW-7	25	21 (84%)	7/20/1995	1.1	1.1	
			8/24/1995	0.8 J	0.8 J	
			9/28/1995	0.9 J	0.9 J	
			10/26/1995	1 J	1 J	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	ND<2	ND<2	
			10/25/2005	ND<2	ND<2	
			4/29/2006	ND<2	ND<2	
			11/18/2006	ND<2	ND<2	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.13	ND<0.13	
MW-6	25	25 (100%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.13		ND<0.13	
MW-12BR	15	12 (80%)	3/16/1999		6.1	6.1
		9/23/1999	4.5	4.5		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	2.14	2.14		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.13		ND<0.13	
MW-12AR	15	9 (60%)	3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	5.2	5.2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	0.64 J	0.64 J		
		4/29/2006	0.55 J	0.55 J		
		11/18/2006	0.35 J	0.35 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.45 J	0.45 J		
		6/5/2008	ND<2	ND<2		
		11/20/2008	0.23 J	0.23 J		
		6/11/2009	ND<0.13		ND<0.13	
MW-11R	25	9 (36%)	7/20/1995	3.5	3.5	
		8/24/1995	8.8	8.8		
		9/28/1995	6	6		
		10/26/1995	8	8		
		11/19/1996	ND<2	ND<2		
		12/19/1996	9	9		
		3/24/1997	7	7		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	5.1	5.1		
		9/23/1999	2.3	2.3		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	3.01	3.01	
			10/25/2005	1.28 J	1.28 J	
			4/29/2006	0.59 J	0.59 J	
			11/18/2006	0.96 J	0.96 J	
			5/23/2007	2	2	
			11/28/2007	1.01 J	1.01 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.29 J	0.29 J	
			6/11/2009	1.5	1.5	
MW-10	25	13 (52%)	7/20/1995		0.58 J	0.58 J
			8/24/1995	2.2	2.2	
			9/28/1995	3	3	
			10/26/1995	3	3	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	3.2	3.2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.88 J	0.88 J	
			10/25/2005	1.15 J	1.15 J	
			4/29/2006	1.27 J	1.27 J	
			11/18/2006	0.89 J	0.89 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	1 J	1 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	0.91 J	0.91 J	
			6/11/2009	0.59 J	0.59 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Trichloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 62.0513%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 2
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	0.67	FALSE
MW-8	6/11/2009	1	1.3	FALSE
MW-7	6/11/2009	1	0.13	FALSE
MW-6	6/11/2009	1	0.13	FALSE
MW-12BR	6/11/2009	1	0.13	FALSE
MW-12AR	6/11/2009	1	0.13	FALSE
MW-11R	6/11/2009	1	1.5	FALSE
MW-10	6/11/2009	1	0.59	FALSE

Kruskal-Wallis Non-Parametric Test

Parameter: Trichloroethene

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	61
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	ND<2	61
	10/25/2005	ND<2	61
	4/29/2006	ND<2	61
	11/18/2006	ND<2	61
	5/23/2007	ND<2	61
	11/28/2007	ND<2	61
	6/5/2008	ND<2	61
	11/20/2008	ND<2	61
	6/11/2009	ND<0.13	61

Rank Sum = 915
Rank Mean = 61

Background Rank Sum = 915
Background Rank Mean = 61

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	0.33 J	124
	8/24/1995	0.5 J	129
	9/28/1995	0.8 J	141
	10/26/1995	1 J	148
	11/19/1996	ND<2	61
	12/19/1996	ND<2	61
	3/24/1997	ND<2	61
	9/24/1997	ND<2	61
	4/7/1998	ND<2	61
	9/23/1998	ND<2	61
	3/16/1999	ND<2	61
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	0.7 J	139
	10/25/2005	0.53 J	130
	4/29/2006	0.45 J	127
	11/18/2006	0.43 J	126
	5/23/2007	0.6 J	135
	11/28/2007	0.74 J	140
	6/5/2008	ND<2	61

	11/20/2008	0.6 J	136
	6/11/2009	0.67 J	138

Rank Sum = 2406
Rank Mean = 96.24

MW-8	7/20/1995	19	185
	8/24/1995	300	195
	9/28/1995	190	192
	10/26/1995	15	184
	11/19/1996	ND<2	61
	12/19/1996	280	194
	3/24/1997	260	193
	9/24/1997	150	189
	4/7/1998	120	187
	9/23/1998	150	190
	3/16/1999	120	188
	9/23/1999	77.4	186
	3/15/2000	160	191
	9/24/2003	ND<2	61
	3/11/2004	8.9	182
	10/12/2004	ND<2	61
	4/1/2005	2.29	164
	10/25/2005	6.66	178
	4/29/2006	2.22	163
	11/18/2006	3.54	171
	5/23/2007	1.6	159
	11/28/2007	4.18	172
	6/5/2008	ND<2 J	61
	11/20/2008	1.3 J	156
	6/11/2009	1.3	157

Rank Sum = 4020
Rank Mean = 160.8

MW-7	7/20/1995	1.1	152
	8/24/1995	0.8 J	142
	9/28/1995	0.9 J	145
	10/26/1995	1 J	149
	11/19/1996	ND<2	61
	12/19/1996	ND<2	61
	3/24/1997	ND<2	61
	9/24/1997	ND<2	61
	4/7/1998	ND<2	61
	9/23/1998	ND<2	61
	3/16/1999	ND<2	61
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	ND<2	61
	10/25/2005	ND<2	61
	4/29/2006	ND<2	61
	11/18/2006	ND<2	61
	5/23/2007	ND<2	61
	11/28/2007	ND<2	61
	6/5/2008	ND<2	61
	11/20/2008	ND<2	61
	6/11/2009	ND<0.13	61

Rank Sum = 1869
Rank Mean = 74.76

MW-6	7/20/1995	ND<2	61

	8/24/1995	ND<2	61
	9/28/1995	ND<2	61
	10/26/1995	ND<2	61
	11/19/1996	ND<2	61
	12/19/1996	ND<2	61
	3/24/1997	ND<2	61
	9/24/1997	ND<2	61
	4/7/1998	ND<2	61
	9/23/1998	ND<2	61
	3/16/1999	ND<2	61
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	ND<2	61
	10/25/2005	ND<2	61
	4/29/2006	ND<2	61
	11/18/2006	ND<2	61
	5/23/2007	ND<2	61
	11/28/2007	ND<2	61
	6/5/2008	ND<2	61
	11/20/2008	ND<2	61
	6/11/2009	ND<0.13	61

Rank Sum = 1525
Rank Mean = 61

MW-12BR	3/16/1999	6.1	177
	9/23/1999	4.5	173
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	2.14	161
	10/25/2005	ND<2	61
	4/29/2006	ND<2	61
	11/18/2006	ND<2	61
	5/23/2007	ND<2	61
	11/28/2007	ND<2	61
	6/5/2008	ND<2	61
	11/20/2008	ND<2	61
	6/11/2009	ND<0.13	61

Rank Sum = 1243
Rank Mean = 82.8667

MW-12AR	3/16/1999	ND<2	61
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	5.2	175
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	ND<2	61
	10/25/2005	0.64 J	137
	4/29/2006	0.55 J	131
	11/18/2006	0.35 J	125
	5/23/2007	ND<2	61
	11/28/2007	0.45 J	128
	6/5/2008	ND<2	61
	11/20/2008	0.23 J	122
	6/11/2009	ND<0.13	61

Rank Sum = 1367
Rank Mean = 91.1333

MW-11R	7/20/1995	3.5	170
	8/24/1995	8.8	181
	9/28/1995	6	176
	10/26/1995	8	180
	11/19/1996	ND<2	61
	12/19/1996	9	183
	3/24/1997	7	179
	9/24/1997	ND<2	61
	4/7/1998	ND<2	61
	9/23/1998	ND<2	61
	3/16/1999	5.1	174
	9/23/1999	2.3	165
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	3.01	168
	10/25/2005	1.28 J	155
	4/29/2006	0.59 J	133
	11/18/2006	0.96 J	147
	5/23/2007	2	160
	11/28/2007	1.01 J	151
	6/5/2008	ND<2	61
	11/20/2008	0.29 J	123
	6/11/2009	1.5	158

Rank Sum = 3152
Rank Mean = 126.08

MW-10	7/20/1995	0.58 J	132
	8/24/1995	2.2	162
	9/28/1995	3	166
	10/26/1995	3	167
	11/19/1996	ND<2	61
	12/19/1996	ND<2	61
	3/24/1997	ND<2	61
	9/24/1997	ND<2	61
	4/7/1998	ND<2	61
	9/23/1998	ND<2	61
	3/16/1999	3.2	169
	9/23/1999	ND<2	61
	3/15/2000	ND<2	61
	9/24/2003	ND<2	61
	3/11/2004	ND<2	61
	10/12/2004	ND<2	61
	4/1/2005	0.88 J	143
	10/25/2005	1.15 J	153
	4/29/2006	1.27 J	154
	11/18/2006	0.89 J	144
	5/23/2007	ND<2	61
	11/28/2007	1 J	150
	6/5/2008	ND<2	61
	11/20/2008	0.91 J	146
	6/11/2009	0.59 J	134

Rank Sum = 2613
Rank Mean = 104.52

Calculation Results:

Kruskal-Wallis H Statistic = 60.2365
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 79.1451

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
60.2365 > 15.5073 indicating a significant group difference at 5% significance level
79.1451 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 61

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	96.24	35.24	42.8788	
MW-8	160.8	99.8	42.8788	
MW-7	74.76	13.76	42.8788	
MW-6	61	0	42.8788	
MW-12BR		82.8667	21.8667	47.94
MW-12AR		91.1333	30.1333	47.94
MW-11R	126.08	65.08	42.8788	
MW-10	104.52	43.52	42.8788	

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 61

Well	Mean Rank		Dif from Bkg	Critical Value
MW-9	96.24	35.24	46.3033	
MW-8	160.8	99.8	46.3033	
MW-7	74.76	13.76	46.3033	
MW-6	61	0	46.3033	
MW-12BR		82.8667	21.8667	51.7686
MW-12AR		91.1333	30.1333	51.7686
MW-11R	126.08	65.08	46.3033	
MW-10	104.52	43.52	46.3033	

Mann-Kendall Trend Analysis

Parameter: Trichloroethene

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
300	19	281	1	0	
190	19	171	2	0	
15	19	-4	2	1	
ND<2	19	-17	2	2	
280	19	261	3	2	
260	19	241	4	2	
150	19	131	5	2	
120	19	101	6	2	
150	19	131	7	2	
120	19	101	8	2	
77.4	19	58.4	9	2	
160	19	141	10	2	
ND<2	19	-17	10	3	
8.9	19	-10.1	10	4	
ND<2	19	-17	10	5	
2.29	19	-16.71	10	6	
6.66	19	-12.34	10	7	
2.22	19	-16.78	10	8	
3.54	19	-15.46	10	9	
1.6	19	-17.4	10	10	
4.18	19	-14.82	10	11	
ND<2 J	19	-17	10	12	
1.3 J	19	-17.7	10	13	
1.3	19	-17.7	10	14	
190	300	-110	10	15	
15	300	-285	10	16	
ND<2	300	-298	10	17	
280	300	-20	10	18	
260	300	-40	10	19	
150	300	-150	10	20	
120	300	-180	10	21	
150	300	-150	10	22	
120	300	-180	10	23	
77.4	300	-222.6	10	24	
160	300	-140	10	25	
ND<2	300	-298	10	26	
8.9	300	-291.1	10	27	
ND<2	300	-298	10	28	
2.29	300	-297.71	10	29	
6.66	300	-293.34	10	30	
2.22	300	-297.78	10	31	
3.54	300	-296.46	10	32	
1.6	300	-298.4	10	33	
4.18	300	-295.82	10	34	
ND<2 J	300	-298	10	35	
1.3 J	300	-298.7	10	36	
1.3	300	-298.7	10	37	

15	190	-175	10	38
ND<2	190	-188	10	39
280	190	90	11	39
260	190	70	12	39
150	190	-40	12	40
120	190	-70	12	41
150	190	-40	12	42
120	190	-70	12	43
77.4	190	-112.6	12	44
160	190	-30	12	45
ND<2	190	-188	12	46
8.9	190	-181.1	12	47
ND<2	190	-188	12	48
2.29	190	-187.71	12	49
6.66	190	-183.34	12	50
2.22	190	-187.78	12	51
3.54	190	-186.46	12	52
1.6	190	-188.4	12	53
4.18	190	-185.82	12	54
ND<2 J	190	-188	12	55
1.3 J	190	-188.7	12	56
1.3	190	-188.7	12	57
ND<2	15	-13	12	58
280	15	265	13	58
260	15	245	14	58
150	15	135	15	58
120	15	105	16	58
150	15	135	17	58
120	15	105	18	58
77.4	15	62.4	19	58
160	15	145	20	58
ND<2	15	-13	20	59
8.9	15	-6.1	20	60
ND<2	15	-13	20	61
2.29	15	-12.71	20	62
6.66	15	-8.34	20	63
2.22	15	-12.78	20	64
3.54	15	-11.46	20	65
1.6	15	-13.4	20	66
4.18	15	-10.82	20	67
ND<2 J	15	-13	20	68
1.3 J	15	-13.7	20	69
1.3	15	-13.7	20	70
280	ND<2	278	21	70
260	ND<2	258	22	70
150	ND<2	148	23	70
120	ND<2	118	24	70
150	ND<2	148	25	70
120	ND<2	118	26	70
77.4	ND<2	75.4	27	70
160	ND<2	158	28	70
ND<2	ND<2	0	28	70
8.9	ND<2	6.9	29	70
ND<2	ND<2	0	29	70
2.29	ND<2	0.29	30	70
6.66	ND<2	4.66	31	70
2.22	ND<2	0.22	32	70
3.54	ND<2	1.54	33	70
1.6	ND<2	-0.4	33	71

4.18	ND<2	2.18	34	71
ND<2 J	ND<2	0	34	71
1.3 J	ND<2	-0.7	34	72
1.3	ND<2	-0.7	34	73
260	280	-20	34	74
150	280	-130	34	75
120	280	-160	34	76
150	280	-130	34	77
120	280	-160	34	78
77.4	280	-202.6	34	79
160	280	-120	34	80
ND<2	280	-278	34	81
8.9	280	-271.1	34	82
ND<2	280	-278	34	83
2.29	280	-277.71	34	84
6.66	280	-273.34	34	85
2.22	280	-277.78	34	86
3.54	280	-276.46	34	87
1.6	280	-278.4	34	88
4.18	280	-275.82	34	89
ND<2 J	280	-278	34	90
1.3 J	280	-278.7	34	91
1.3	280	-278.7	34	92
150	260	-110	34	93
120	260	-140	34	94
150	260	-110	34	95
120	260	-140	34	96
77.4	260	-182.6	34	97
160	260	-100	34	98
ND<2	260	-258	34	99
8.9	260	-251.1	34	100
ND<2	260	-258	34	101
2.29	260	-257.71	34	102
6.66	260	-253.34	34	103
2.22	260	-257.78	34	104
3.54	260	-256.46	34	105
1.6	260	-258.4	34	106
4.18	260	-255.82	34	107
ND<2 J	260	-258	34	108
1.3 J	260	-258.7	34	109
1.3	260	-258.7	34	110
120	150	-30	34	111
150	150	0	34	111
120	150	-30	34	112
77.4	150	-72.6	34	113
160	150	10	35	113
ND<2	150	-148	35	114
8.9	150	-141.1	35	115
ND<2	150	-148	35	116
2.29	150	-147.71	35	117
6.66	150	-143.34	35	118
2.22	150	-147.78	35	119
3.54	150	-146.46	35	120
1.6	150	-148.4	35	121
4.18	150	-145.82	35	122
ND<2 J	150	-148	35	123
1.3 J	150	-148.7	35	124
1.3	150	-148.7	35	125

150	120	30	36	125
120	120	0	36	125
77.4	120	-42.6	36	126
160	120	40	37	126
ND<2	120	-118	37	127
8.9	120	-111.1	37	128
ND<2	120	-118	37	129
2.29	120	-117.71	37	130
6.66	120	-113.34	37	131
2.22	120	-117.78	37	132
3.54	120	-116.46	37	133
1.6	120	-118.4	37	134
4.18	120	-115.82	37	135
ND<2 J	120	-118	37	136
1.3 J	120	-118.7	37	137
1.3	120	-118.7	37	138
120	150	-30	37	139
77.4	150	-72.6	37	140
160	150	10	38	140
ND<2	150	-148	38	141
8.9	150	-141.1	38	142
ND<2	150	-148	38	143
2.29	150	-147.71	38	144
6.66	150	-143.34	38	145
2.22	150	-147.78	38	146
3.54	150	-146.46	38	147
1.6	150	-148.4	38	148
4.18	150	-145.82	38	149
ND<2 J	150	-148	38	150
1.3 J	150	-148.7	38	151
1.3	150	-148.7	38	152
77.4	120	-42.6	38	153
160	120	40	39	153
ND<2	120	-118	39	154
8.9	120	-111.1	39	155
ND<2	120	-118	39	156
2.29	120	-117.71	39	157
6.66	120	-113.34	39	158
2.22	120	-117.78	39	159
3.54	120	-116.46	39	160
1.6	120	-118.4	39	161
4.18	120	-115.82	39	162
ND<2 J	120	-118	39	163
1.3 J	120	-118.7	39	164
1.3	120	-118.7	39	165
160	77.4	82.6	40	165
ND<2	77.4	-75.4	40	166
8.9	77.4	-68.5	40	167
ND<2	77.4	-75.4	40	168
2.29	77.4	-75.11	40	169
6.66	77.4	-70.74	40	170
2.22	77.4	-75.18	40	171
3.54	77.4	-73.86	40	172
1.6	77.4	-75.8	40	173
4.18	77.4	-73.22	40	174
ND<2 J	77.4	-75.4	40	175
1.3 J	77.4	-76.1	40	176
1.3	77.4	-76.1	40	177

ND<2	160	-158	40	178
8.9	160	-151.1	40	179
ND<2	160	-158	40	180
2.29	160	-157.71	40	181
6.66	160	-153.34	40	182
2.22	160	-157.78	40	183
3.54	160	-156.46	40	184
1.6	160	-158.4	40	185
4.18	160	-155.82	40	186
ND<2 J	160	-158	40	187
1.3 J	160	-158.7	40	188
1.3	160	-158.7	40	189
8.9	ND<2	6.9	41	189
ND<2	ND<2	0	41	189
2.29	ND<2	0.29	42	189
6.66	ND<2	4.66	43	189
2.22	ND<2	0.22	44	189
3.54	ND<2	1.54	45	189
1.6	ND<2	-0.4	45	190
4.18	ND<2	2.18	46	190
ND<2 J	ND<2	0	46	190
1.3 J	ND<2	-0.7	46	191
1.3	ND<2	-0.7	46	192
ND<2	8.9	-6.9	46	193
2.29	8.9	-6.61	46	194
6.66	8.9	-2.24	46	195
2.22	8.9	-6.68	46	196
3.54	8.9	-5.36	46	197
1.6	8.9	-7.3	46	198
4.18	8.9	-4.72	46	199
ND<2 J	8.9	-6.9	46	200
1.3 J	8.9	-7.6	46	201
1.3	8.9	-7.6	46	202
2.29	ND<2	0.29	47	202
6.66	ND<2	4.66	48	202
2.22	ND<2	0.22	49	202
3.54	ND<2	1.54	50	202
1.6	ND<2	-0.4	50	203
4.18	ND<2	2.18	51	203
ND<2 J	ND<2	0	51	203
1.3 J	ND<2	-0.7	51	204
1.3	ND<2	-0.7	51	205
6.66	2.29	4.37	52	205
2.22	2.29	-0.07	52	206
3.54	2.29	1.25	53	206
1.6	2.29	-0.69	53	207
4.18	2.29	1.89	54	207
ND<2 J	2.29	-0.29	54	208
1.3 J	2.29	-0.99	54	209
1.3	2.29	-0.99	54	210
2.22	6.66	-4.44	54	211
3.54	6.66	-3.12	54	212
1.6	6.66	-5.06	54	213
4.18	6.66	-2.48	54	214
ND<2 J	6.66	-4.66	54	215
1.3 J	6.66	-5.36	54	216
1.3	6.66	-5.36	54	217

3.54	2.22	1.32	55	217
1.6	2.22	-0.62	55	218
4.18	2.22	1.96	56	218
ND<2 J	2.22	-0.22	56	219
1.3 J	2.22	-0.92	56	220
1.3	2.22	-0.92	56	221
1.6	3.54	-1.94	56	222
4.18	3.54	0.64	57	222
ND<2 J	3.54	-1.54	57	223
1.3 J	3.54	-2.24	57	224
1.3	3.54	-2.24	57	225
4.18	1.6	2.58	58	225
ND<2 J	1.6	0.4	59	225
1.3 J	1.6	-0.3	59	226
1.3	1.6	-0.3	59	227
ND<2 J	4.18	-2.18	59	228
1.3 J	4.18	-2.88	59	229
1.3	4.18	-2.88	59	230
1.3 J	ND<2 J	-0.7	59	231
1.3	ND<2 J	-0.7	59	232
1.3	1.3 J	0	59	232

S Statistic = 59 - 232 = -173

Tied Group	Value	Members
1	2	4
2	150	2
3	120	2
4	1.3	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1

6/5/2008 1
11/20/2008 1
6/11/2009 1
There are 0 time periods with multiple data

A = 210
B = 0
C = 24
D = 0
E = 18
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1821.67
Z-Score = -4.0299
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-4.0299 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: Trichloroethene

Location: MW-11R

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
8.8	3.5	5.3	1	0	
6	3.5	2.5	2	0	
8	3.5	4.5	3	0	
ND<2	3.5	-1.5	3	1	
9	3.5	5.5	4	1	
7	3.5	3.5	5	1	
ND<2	3.5	-1.5	5	2	
ND<2	3.5	-1.5	5	3	
ND<2	3.5	-1.5	5	4	
5.1	3.5	1.6	6	4	
2.3	3.5	-1.2	6	5	
ND<2	3.5	-1.5	6	6	
ND<2	3.5	-1.5	6	7	
ND<2	3.5	-1.5	6	8	
ND<2	3.5	-1.5	6	9	
3.01	3.5	-0.49	6	10	
1.28 J	3.5	-2.22	6	11	
0.59 J	3.5	-2.91	6	12	
0.96 J	3.5	-2.54	6	13	
2	3.5	-1.5	6	14	
1.01 J	3.5	-2.49	6	15	
ND<2	3.5	-1.5	6	16	
0.29 J	3.5	-3.21	6	17	
1.5	3.5	-2	6	18	
6	8.8	-2.8	6	19	
8	8.8	-0.8	6	20	
ND<2	8.8	-6.8	6	21	
9	8.8	0.2	7	21	
7	8.8	-1.8	7	22	
ND<2	8.8	-6.8	7	23	
ND<2	8.8	-6.8	7	24	
ND<2	8.8	-6.8	7	25	
5.1	8.8	-3.7	7	26	
2.3	8.8	-6.5	7	27	
ND<2	8.8	-6.8	7	28	
ND<2	8.8	-6.8	7	29	
ND<2	8.8	-6.8	7	30	
ND<2	8.8	-6.8	7	31	
3.01	8.8	-5.79	7	32	
1.28 J	8.8	-7.52	7	33	
0.59 J	8.8	-8.21	7	34	
0.96 J	8.8	-7.84	7	35	
2	8.8	-6.8	7	36	
1.01 J	8.8	-7.79	7	37	
ND<2	8.8	-6.8	7	38	
0.29 J	8.8	-8.51	7	39	
1.5	8.8	-7.3	7	40	

8	6	2	8	40
ND<2	6	-4	8	41
9	6	3	9	41
7	6	1	10	41
ND<2	6	-4	10	42
ND<2	6	-4	10	43
ND<2	6	-4	10	44
5.1	6	-0.9	10	45
2.3	6	-3.7	10	46
ND<2	6	-4	10	47
ND<2	6	-4	10	48
ND<2	6	-4	10	49
ND<2	6	-4	10	50
3.01	6	-2.99	10	51
1.28 J	6	-4.72	10	52
0.59 J	6	-5.41	10	53
0.96 J	6	-5.04	10	54
2	6	-4	10	55
1.01 J	6	-4.99	10	56
ND<2	6	-4	10	57
0.29 J	6	-5.71	10	58
1.5	6	-4.5	10	59
ND<2	8	-6	10	60
9	8	1	11	60
7	8	-1	11	61
ND<2	8	-6	11	62
ND<2	8	-6	11	63
ND<2	8	-6	11	64
5.1	8	-2.9	11	65
2.3	8	-5.7	11	66
ND<2	8	-6	11	67
ND<2	8	-6	11	68
ND<2	8	-6	11	69
ND<2	8	-6	11	70
3.01	8	-4.99	11	71
1.28 J	8	-6.72	11	72
0.59 J	8	-7.41	11	73
0.96 J	8	-7.04	11	74
2	8	-6	11	75
1.01 J	8	-6.99	11	76
ND<2	8	-6	11	77
0.29 J	8	-7.71	11	78
1.5	8	-6.5	11	79
9	ND<2	7	12	79
7	ND<2	5	13	79
ND<2	ND<2	0	13	79
ND<2	ND<2	0	13	79
ND<2	ND<2	0	13	79
5.1	ND<2	3.1	14	79
2.3	ND<2	0.3	15	79
ND<2	ND<2	0	15	79
ND<2	ND<2	0	15	79
ND<2	ND<2	0	15	79
ND<2	ND<2	0	15	79
3.01	ND<2	1.01	16	79
1.28 J	ND<2	-0.72	16	80
0.59 J	ND<2	-1.41	16	81
0.96 J	ND<2	-1.04	16	82
2	ND<2	0	16	82

1.01 J	ND<2	-0.99	16	83
ND<2	ND<2	0	16	83
0.29 J	ND<2	-1.71	16	84
1.5	ND<2	-0.5	16	85
7	9	-2	16	86
ND<2	9	-7	16	87
ND<2	9	-7	16	88
ND<2	9	-7	16	89
5.1	9	-3.9	16	90
2.3	9	-6.7	16	91
ND<2	9	-7	16	92
ND<2	9	-7	16	93
ND<2	9	-7	16	94
ND<2	9	-7	16	95
3.01	9	-5.99	16	96
1.28 J	9	-7.72	16	97
0.59 J	9	-8.41	16	98
0.96 J	9	-8.04	16	99
2	9	-7	16	100
1.01 J	9	-7.99	16	101
ND<2	9	-7	16	102
0.29 J	9	-8.71	16	103
1.5	9	-7.5	16	104
ND<2	7	-5	16	105
ND<2	7	-5	16	106
ND<2	7	-5	16	107
5.1	7	-1.9	16	108
2.3	7	-4.7	16	109
ND<2	7	-5	16	110
ND<2	7	-5	16	111
ND<2	7	-5	16	112
ND<2	7	-5	16	113
3.01	7	-3.99	16	114
1.28 J	7	-5.72	16	115
0.59 J	7	-6.41	16	116
0.96 J	7	-6.04	16	117
2	7	-5	16	118
1.01 J	7	-5.99	16	119
ND<2	7	-5	16	120
0.29 J	7	-6.71	16	121
1.5	7	-5.5	16	122
ND<2	ND<2	0	16	122
ND<2	ND<2	0	16	122
5.1	ND<2	3.1	17	122
2.3	ND<2	0.3	18	122
ND<2	ND<2	0	18	122
ND<2	ND<2	0	18	122
ND<2	ND<2	0	18	122
ND<2	ND<2	0	18	122
3.01	ND<2	1.01	19	122
1.28 J	ND<2	-0.72	19	123
0.59 J	ND<2	-1.41	19	124
0.96 J	ND<2	-1.04	19	125
2	ND<2	0	19	125
1.01 J	ND<2	-0.99	19	126
ND<2	ND<2	0	19	126
0.29 J	ND<2	-1.71	19	127
1.5	ND<2	-0.5	19	128

ND<2	ND<2	0	19	128
5.1	ND<2	3.1	20	128
2.3	ND<2	0.3	21	128
ND<2	ND<2	0	21	128
ND<2	ND<2	0	21	128
ND<2	ND<2	0	21	128
ND<2	ND<2	0	21	128
3.01	ND<2	1.01	22	128
1.28 J	ND<2	-0.72	22	129
0.59 J	ND<2	-1.41	22	130
0.96 J	ND<2	-1.04	22	131
2	ND<2	0	22	131
1.01 J	ND<2	-0.99	22	132
ND<2	ND<2	0	22	132
0.29 J	ND<2	-1.71	22	133
1.5	ND<2	-0.5	22	134
5.1	ND<2	3.1	23	134
2.3	ND<2	0.3	24	134
ND<2	ND<2	0	24	134
ND<2	ND<2	0	24	134
ND<2	ND<2	0	24	134
ND<2	ND<2	0	24	134
3.01	ND<2	1.01	25	134
1.28 J	ND<2	-0.72	25	135
0.59 J	ND<2	-1.41	25	136
0.96 J	ND<2	-1.04	25	137
2	ND<2	0	25	137
1.01 J	ND<2	-0.99	25	138
ND<2	ND<2	0	25	138
0.29 J	ND<2	-1.71	25	139
1.5	ND<2	-0.5	25	140
2.3	5.1	-2.8	25	141
ND<2	5.1	-3.1	25	142
ND<2	5.1	-3.1	25	143
ND<2	5.1	-3.1	25	144
ND<2	5.1	-3.1	25	145
3.01	5.1	-2.09	25	146
1.28 J	5.1	-3.82	25	147
0.59 J	5.1	-4.51	25	148
0.96 J	5.1	-4.14	25	149
2	5.1	-3.1	25	150
1.01 J	5.1	-4.09	25	151
ND<2	5.1	-3.1	25	152
0.29 J	5.1	-4.81	25	153
1.5	5.1	-3.6	25	154
ND<2	2.3	-0.3	25	155
ND<2	2.3	-0.3	25	156
ND<2	2.3	-0.3	25	157
ND<2	2.3	-0.3	25	158
3.01	2.3	0.71	26	158
1.28 J	2.3	-1.02	26	159
0.59 J	2.3	-1.71	26	160
0.96 J	2.3	-1.34	26	161
2	2.3	-0.3	26	162
1.01 J	2.3	-1.29	26	163
ND<2	2.3	-0.3	26	164
0.29 J	2.3	-2.01	26	165
1.5	2.3	-0.8	26	166

ND<2	ND<2	0	26	166
ND<2	ND<2	0	26	166
ND<2	ND<2	0	26	166
3.01	ND<2	1.01	27	166
1.28 J	ND<2	-0.72	27	167
0.59 J	ND<2	-1.41	27	168
0.96 J	ND<2	-1.04	27	169
2	ND<2	0	27	169
1.01 J	ND<2	-0.99	27	170
ND<2	ND<2	0	27	170
0.29 J	ND<2	-1.71	27	171
1.5	ND<2	-0.5	27	172
ND<2	ND<2	0	27	172
ND<2	ND<2	0	27	172
3.01	ND<2	1.01	28	172
1.28 J	ND<2	-0.72	28	173
0.59 J	ND<2	-1.41	28	174
0.96 J	ND<2	-1.04	28	175
2	ND<2	0	28	175
1.01 J	ND<2	-0.99	28	176
ND<2	ND<2	0	28	176
0.29 J	ND<2	-1.71	28	177
1.5	ND<2	-0.5	28	178
ND<2	ND<2	0	28	178
3.01	ND<2	1.01	29	178
1.28 J	ND<2	-0.72	29	179
0.59 J	ND<2	-1.41	29	180
0.96 J	ND<2	-1.04	29	181
2	ND<2	0	29	181
1.01 J	ND<2	-0.99	29	182
ND<2	ND<2	0	29	182
0.29 J	ND<2	-1.71	29	183
1.5	ND<2	-0.5	29	184
3.01	ND<2	1.01	30	184
1.28 J	ND<2	-0.72	30	185
0.59 J	ND<2	-1.41	30	186
0.96 J	ND<2	-1.04	30	187
2	ND<2	0	30	187
1.01 J	ND<2	-0.99	30	188
ND<2	ND<2	0	30	188
0.29 J	ND<2	-1.71	30	189
1.5	ND<2	-0.5	30	190
1.28 J	3.01	-1.73	30	191
0.59 J	3.01	-2.42	30	192
0.96 J	3.01	-2.05	30	193
2	3.01	-1.01	30	194
1.01 J	3.01	-2	30	195
ND<2	3.01	-1.01	30	196
0.29 J	3.01	-2.72	30	197
1.5	3.01	-1.51	30	198
0.59 J	1.28 J	-0.69	30	199
0.96 J	1.28 J	-0.32	30	200
2	1.28 J	0.72	31	200
1.01 J	1.28 J	-0.27	31	201
ND<2	1.28 J	0.72	32	201
0.29 J	1.28 J	-0.99	32	202
1.5	1.28 J	0.22	33	202

0.96 J	0.59 J	0.37	34	202
2	0.59 J	1.41	35	202
1.01 J	0.59 J	0.42	36	202
ND<2	0.59 J	1.41	37	202
0.29 J	0.59 J	-0.3	37	203
1.5	0.59 J	0.91	38	203
2	0.96 J	1.04	39	203
1.01 J	0.96 J	0.05	40	203
ND<2	0.96 J	1.04	41	203
0.29 J	0.96 J	-0.67	41	204
1.5	0.96 J	0.54	42	204
1.01 J	2	-0.99	42	205
ND<2	2	0	42	205
0.29 J	2	-1.71	42	206
1.5	2	-0.5	42	207
ND<2	1.01 J	0.99	43	207
0.29 J	1.01 J	-0.72	43	208
1.5	1.01 J	0.49	44	208
0.29 J	ND<2	-1.71	44	209
1.5	ND<2	-0.5	44	210
1.5	0.29 J	1.21	45	210

S Statistic = 45 - 210 = -165

Tied Group	Value	Members
1	2	10

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 2250
B = 0
C = 720
D = 0
E = 90
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1708.33
Z-Score = -3.96787
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-3.96787 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: Trichloroethene

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
2.2	0.58 J	1.62	1	0	
3	0.58 J	2.42	2	0	
3	0.58 J	2.42	3	0	
ND<2	0.58 J	1.42	4	0	
ND<2	0.58 J	1.42	5	0	
ND<2	0.58 J	1.42	6	0	
ND<2	0.58 J	1.42	7	0	
ND<2	0.58 J	1.42	8	0	
ND<2	0.58 J	1.42	9	0	
3.2	0.58 J	2.62	10	0	
ND<2	0.58 J	1.42	11	0	
ND<2	0.58 J	1.42	12	0	
ND<2	0.58 J	1.42	13	0	
ND<2	0.58 J	1.42	14	0	
ND<2	0.58 J	1.42	15	0	
0.88 J	0.58 J	0.3	16	0	
1.15 J	0.58 J	0.57	17	0	
1.27 J	0.58 J	0.69	18	0	
0.89 J	0.58 J	0.31	19	0	
ND<2	0.58 J	1.42	20	0	
1 J	0.58 J	0.42	21	0	
ND<2	0.58 J	1.42	22	0	
0.91 J	0.58 J	0.33	23	0	
0.59 J	0.58 J	0.01	24	0	
3	2.2	0.8	25	0	
3	2.2	0.8	26	0	
ND<2	2.2	-0.2	26	1	
ND<2	2.2	-0.2	26	2	
ND<2	2.2	-0.2	26	3	
ND<2	2.2	-0.2	26	4	
ND<2	2.2	-0.2	26	5	
ND<2	2.2	-0.2	26	6	
3.2	2.2	1	27	6	
ND<2	2.2	-0.2	27	7	
ND<2	2.2	-0.2	27	8	
ND<2	2.2	-0.2	27	9	
ND<2	2.2	-0.2	27	10	
ND<2	2.2	-0.2	27	11	
0.88 J	2.2	-1.32	27	12	
1.15 J	2.2	-1.05	27	13	
1.27 J	2.2	-0.93	27	14	
0.89 J	2.2	-1.31	27	15	
ND<2	2.2	-0.2	27	16	
1 J	2.2	-1.2	27	17	
ND<2	2.2	-0.2	27	18	
0.91 J	2.2	-1.29	27	19	
0.59 J	2.2	-1.61	27	20	

3	3	0	27	20
ND<2	3	-1	27	21
ND<2	3	-1	27	22
ND<2	3	-1	27	23
ND<2	3	-1	27	24
ND<2	3	-1	27	25
ND<2	3	-1	27	26
3.2	3	0.2	28	26
ND<2	3	-1	28	27
ND<2	3	-1	28	28
ND<2	3	-1	28	29
ND<2	3	-1	28	30
ND<2	3	-1	28	31
0.88 J	3	-2.12	28	32
1.15 J	3	-1.85	28	33
1.27 J	3	-1.73	28	34
0.89 J	3	-2.11	28	35
ND<2	3	-1	28	36
1 J	3	-2	28	37
ND<2	3	-1	28	38
0.91 J	3	-2.09	28	39
0.59 J	3	-2.41	28	40
ND<2	3	-1	28	41
ND<2	3	-1	28	42
ND<2	3	-1	28	43
ND<2	3	-1	28	44
ND<2	3	-1	28	45
ND<2	3	-1	28	46
3.2	3	0.2	29	46
ND<2	3	-1	29	47
ND<2	3	-1	29	48
ND<2	3	-1	29	49
ND<2	3	-1	29	50
ND<2	3	-1	29	51
0.88 J	3	-2.12	29	52
1.15 J	3	-1.85	29	53
1.27 J	3	-1.73	29	54
0.89 J	3	-2.11	29	55
ND<2	3	-1	29	56
1 J	3	-2	29	57
ND<2	3	-1	29	58
0.91 J	3	-2.09	29	59
0.59 J	3	-2.41	29	60
ND<2	ND<2	0	29	60
ND<2	ND<2	0	29	60
ND<2	ND<2	0	29	60
ND<2	ND<2	0	29	60
ND<2	ND<2	0	29	60
3.2	ND<2	1.2	30	60
ND<2	ND<2	0	30	60
ND<2	ND<2	0	30	60
ND<2	ND<2	0	30	60
ND<2	ND<2	0	30	60
ND<2	ND<2	0	30	60
0.88 J	ND<2	-1.12	30	61
1.15 J	ND<2	-0.85	30	62
1.27 J	ND<2	-0.73	30	63
0.89 J	ND<2	-1.11	30	64
ND<2	ND<2	0	30	64

1 J	ND<2	-1	30	65
ND<2	ND<2	0	30	65
0.91 J	ND<2	-1.09	30	66
0.59 J	ND<2	-1.41	30	67
ND<2	ND<2	0	30	67
ND<2	ND<2	0	30	67
ND<2	ND<2	0	30	67
ND<2	ND<2	0	30	67
3.2	ND<2	1.2	31	67
ND<2	ND<2	0	31	67
ND<2	ND<2	0	31	67
ND<2	ND<2	0	31	67
ND<2	ND<2	0	31	67
ND<2	ND<2	0	31	67
0.88 J	ND<2	-1.12	31	68
1.15 J	ND<2	-0.85	31	69
1.27 J	ND<2	-0.73	31	70
0.89 J	ND<2	-1.11	31	71
ND<2	ND<2	0	31	71
1 J	ND<2	-1	31	72
ND<2	ND<2	0	31	72
0.91 J	ND<2	-1.09	31	73
0.59 J	ND<2	-1.41	31	74
ND<2	ND<2	0	31	74
ND<2	ND<2	0	31	74
ND<2	ND<2	0	31	74
3.2	ND<2	1.2	32	74
ND<2	ND<2	0	32	74
ND<2	ND<2	0	32	74
ND<2	ND<2	0	32	74
ND<2	ND<2	0	32	74
ND<2	ND<2	0	32	74
0.88 J	ND<2	-1.12	32	75
1.15 J	ND<2	-0.85	32	76
1.27 J	ND<2	-0.73	32	77
0.89 J	ND<2	-1.11	32	78
ND<2	ND<2	0	32	78
1 J	ND<2	-1	32	79
ND<2	ND<2	0	32	79
0.91 J	ND<2	-1.09	32	80
0.59 J	ND<2	-1.41	32	81
ND<2	ND<2	0	32	81
ND<2	ND<2	0	32	81
3.2	ND<2	1.2	33	81
ND<2	ND<2	0	33	81
ND<2	ND<2	0	33	81
ND<2	ND<2	0	33	81
ND<2	ND<2	0	33	81
ND<2	ND<2	0	33	81
0.88 J	ND<2	-1.12	33	82
1.15 J	ND<2	-0.85	33	83
1.27 J	ND<2	-0.73	33	84
0.89 J	ND<2	-1.11	33	85
ND<2	ND<2	0	33	85
1 J	ND<2	-1	33	86
ND<2	ND<2	0	33	86
0.91 J	ND<2	-1.09	33	87
0.59 J	ND<2	-1.41	33	88

ND<2	ND<2	0	33	88
3.2	ND<2	1.2	34	88
ND<2	ND<2	0	34	88
ND<2	ND<2	0	34	88
ND<2	ND<2	0	34	88
ND<2	ND<2	0	34	88
ND<2	ND<2	0	34	88
0.88 J	ND<2	-1.12	34	89
1.15 J	ND<2	-0.85	34	90
1.27 J	ND<2	-0.73	34	91
0.89 J	ND<2	-1.11	34	92
ND<2	ND<2	0	34	92
1 J	ND<2	-1	34	93
ND<2	ND<2	0	34	93
0.91 J	ND<2	-1.09	34	94
0.59 J	ND<2	-1.41	34	95
3.2	ND<2	1.2	35	95
ND<2	ND<2	0	35	95
ND<2	ND<2	0	35	95
ND<2	ND<2	0	35	95
ND<2	ND<2	0	35	95
ND<2	ND<2	0	35	95
0.88 J	ND<2	-1.12	35	96
1.15 J	ND<2	-0.85	35	97
1.27 J	ND<2	-0.73	35	98
0.89 J	ND<2	-1.11	35	99
ND<2	ND<2	0	35	99
1 J	ND<2	-1	35	100
ND<2	ND<2	0	35	100
0.91 J	ND<2	-1.09	35	101
0.59 J	ND<2	-1.41	35	102
ND<2	3.2	-1.2	35	103
ND<2	3.2	-1.2	35	104
ND<2	3.2	-1.2	35	105
ND<2	3.2	-1.2	35	106
ND<2	3.2	-1.2	35	107
0.88 J	3.2	-2.32	35	108
1.15 J	3.2	-2.05	35	109
1.27 J	3.2	-1.93	35	110
0.89 J	3.2	-2.31	35	111
ND<2	3.2	-1.2	35	112
1 J	3.2	-2.2	35	113
ND<2	3.2	-1.2	35	114
0.91 J	3.2	-2.29	35	115
0.59 J	3.2	-2.61	35	116
ND<2	ND<2	0	35	116
ND<2	ND<2	0	35	116
ND<2	ND<2	0	35	116
ND<2	ND<2	0	35	116
0.88 J	ND<2	-1.12	35	117
1.15 J	ND<2	-0.85	35	118
1.27 J	ND<2	-0.73	35	119
0.89 J	ND<2	-1.11	35	120
ND<2	ND<2	0	35	120
1 J	ND<2	-1	35	121
ND<2	ND<2	0	35	121
0.91 J	ND<2	-1.09	35	122
0.59 J	ND<2	-1.41	35	123

ND<2	ND<2	0	35	123
ND<2	ND<2	0	35	123
ND<2	ND<2	0	35	123
0.88 J	ND<2	-1.12	35	124
1.15 J	ND<2	-0.85	35	125
1.27 J	ND<2	-0.73	35	126
0.89 J	ND<2	-1.11	35	127
ND<2	ND<2	0	35	127
1 J	ND<2	-1	35	128
ND<2	ND<2	0	35	128
0.91 J	ND<2	-1.09	35	129
0.59 J	ND<2	-1.41	35	130
ND<2	ND<2	0	35	130
ND<2	ND<2	0	35	130
0.88 J	ND<2	-1.12	35	131
1.15 J	ND<2	-0.85	35	132
1.27 J	ND<2	-0.73	35	133
0.89 J	ND<2	-1.11	35	134
ND<2	ND<2	0	35	134
1 J	ND<2	-1	35	135
ND<2	ND<2	0	35	135
0.91 J	ND<2	-1.09	35	136
0.59 J	ND<2	-1.41	35	137
ND<2	ND<2	0	35	137
0.88 J	ND<2	-1.12	35	138
1.15 J	ND<2	-0.85	35	139
1.27 J	ND<2	-0.73	35	140
0.89 J	ND<2	-1.11	35	141
ND<2	ND<2	0	35	141
1 J	ND<2	-1	35	142
ND<2	ND<2	0	35	142
0.91 J	ND<2	-1.09	35	143
0.59 J	ND<2	-1.41	35	144
0.88 J	ND<2	-1.12	35	145
1.15 J	ND<2	-0.85	35	146
1.27 J	ND<2	-0.73	35	147
0.89 J	ND<2	-1.11	35	148
ND<2	ND<2	0	35	148
1 J	ND<2	-1	35	149
ND<2	ND<2	0	35	149
0.91 J	ND<2	-1.09	35	150
0.59 J	ND<2	-1.41	35	151
1.15 J	0.88 J	0.27	36	151
1.27 J	0.88 J	0.39	37	151
0.89 J	0.88 J	0.01	38	151
ND<2	0.88 J	1.12	39	151
1 J	0.88 J	0.12	40	151
ND<2	0.88 J	1.12	41	151
0.91 J	0.88 J	0.03	42	151
0.59 J	0.88 J	-0.29	42	152
1.27 J	1.15 J	0.12	43	152
0.89 J	1.15 J	-0.26	43	153
ND<2	1.15 J	0.85	44	153
1 J	1.15 J	-0.15	44	154
ND<2	1.15 J	0.85	45	154
0.91 J	1.15 J	-0.24	45	155
0.59 J	1.15 J	-0.56	45	156

0.89 J	1.27 J	-0.38	45	157
ND<2	1.27 J	0.73	46	157
1 J	1.27 J	-0.27	46	158
ND<2	1.27 J	0.73	47	158
0.91 J	1.27 J	-0.36	47	159
0.59 J	1.27 J	-0.68	47	160
ND<2	0.89 J	1.11	48	160
1 J	0.89 J	0.11	49	160
ND<2	0.89 J	1.11	50	160
0.91 J	0.89 J	0.02	51	160
0.59 J	0.89 J	-0.3	51	161
1 J	ND<2	-1	51	162
ND<2	ND<2	0	51	162
0.91 J	ND<2	-1.09	51	163
0.59 J	ND<2	-1.41	51	164
ND<2	1 J	1	52	164
0.91 J	1 J	-0.09	52	165
0.59 J	1 J	-0.41	52	166
0.91 J	ND<2	-1.09	52	167
0.59 J	ND<2	-1.41	52	168
0.59 J	0.91 J	-0.32	52	169

S Statistic = 52 - 169 = -117

Tied Group	Value	Members
1	3	2
2	2	13

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 4854
B = 0
C = 1716
D = 0
E = 158
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1563.67
Z-Score = -2.9335
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.9335 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 147
Percent Non-Detects: 75.3846%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	13 (86.6667%)	3/16/1999	ND<20	ND<20
			9/23/1999	11 J	11 J
			3/15/2000	22	22
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	ND<20	ND<20
			11/28/2007	ND<20	ND<20
			6/5/2008	ND<20	ND<20
			11/20/2008	ND<20	ND<20
			6/11/2009	ND<1.4	ND<1.4

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	20 (80%)	7/20/1995	ND<20	ND<20
			8/24/1995	ND<20	ND<20
			9/28/1995	ND<20	ND<20
			10/26/1995	ND<20	ND<20
			11/19/1996	ND<20	ND<20
			12/19/1996	ND<20	ND<20
			3/24/1997	52	52
			9/24/1997	ND<20	ND<20
			4/7/1998	ND<20	ND<20
			9/23/1998	ND<20	ND<20
			3/16/1999	ND<20	ND<20
			9/23/1999	ND<20	ND<20
			3/15/2000	42	42
			9/24/2003	ND<20	ND<20
			3/11/2004	ND<20	ND<20
			10/12/2004	ND<20	ND<20
			4/1/2005	ND<20	ND<20
			10/25/2005	ND<20	ND<20
			4/29/2006	ND<20	ND<20
			11/18/2006	ND<20	ND<20
			5/23/2007	3.07 J	3.07 J
			11/28/2007	7 J	7 J
			6/5/2008	ND<20	ND<20
			11/20/2008	25	25
			6/11/2009	ND<1.4	ND<1.4

MW-8	25	13 (52%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	245	245	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	164	164	
			3/24/1997	44	44	
			9/24/1997	ND<20	ND<20	
			4/7/1998	44	44	
			9/23/1998	110	110	
			3/16/1999	ND<20	ND<20	
			9/23/1999	6 J	6 J	
			3/15/2000	ND<20	ND<20	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	4.47 J	4.47 J	
			5/23/2007	12	12	
			11/28/2007	21.2	21.2	
			6/5/2008	2.94 J	2.94 J	
			11/20/2008	9 J	9 J	
			6/11/2009	1.4 J	1.4 J	
MW-7	25	12 (48%)	7/20/1995		4 J	4 J
			8/24/1995	ND<20	ND<20	
			9/28/1995	274	274	
			10/26/1995	122	122	
			11/19/1996	ND<20	ND<20	
			12/19/1996	178	178	
			3/24/1997	120	120	
			9/24/1997	76	76	
			4/7/1998	160	160	
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	27	27	
			3/15/2000	62	62	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005	ND<20	ND<20	
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	8.33	8.33	
			11/28/2007	ND<20	ND<20	
			6/5/2008	2.5 J	2.5 J	
			11/20/2008	16 J	16 J	
			6/11/2009	4.3 J	4.3 J	
MW-6	25	24 (96%)	7/20/1995		ND<20	ND<20
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	ND<20	ND<20	
			3/24/1997	ND<20	ND<20	
			9/24/1997	ND<20	ND<20	
			4/7/1998	ND<20	ND<20	
			9/23/1998	ND<20	ND<20	

		3/16/1999	ND<20	ND<20		
		9/23/1999	ND<20	ND<20		
		3/15/2000	64	64		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<1.4	ND<1.4		
MW-12BR	15	14 (93.3333%)	3/16/1999		ND<20	ND<20
		9/23/1999	22	22		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		
		3/11/2004	ND<20	ND<20		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<1.4	ND<1.4		
MW-12AR	15	12 (80%)	3/16/1999		ND<20	ND<20
		9/23/1999	ND<20	ND<20		
		3/15/2000	270	270		
		9/24/2003	43	43		
		3/11/2004	96	96		
		10/12/2004	ND<20	ND<20		
		4/1/2005	ND<20	ND<20		
		10/25/2005	ND<20	ND<20		
		4/29/2006	ND<20	ND<20		
		11/18/2006	ND<20	ND<20		
		5/23/2007	ND<20	ND<20		
		11/28/2007	ND<20	ND<20		
		6/5/2008	ND<20	ND<20		
		11/20/2008	ND<20	ND<20		
		6/11/2009	ND<1.4	ND<1.4		
MW-11R	25	23 (92%)	7/20/1995	ND<20	ND<20	
		8/24/1995	ND<20	ND<20		
		9/28/1995	ND<20	ND<20		
		10/26/1995	ND<20	ND<20		
		11/19/1996	ND<20	ND<20		
		12/19/1996	ND<20	ND<20		
		3/24/1997	ND<20	ND<20		
		9/24/1997	ND<20	ND<20		
		4/7/1998	ND<20	ND<20		
		9/23/1998	ND<20	ND<20		
		3/16/1999	ND<20	ND<20		
		9/23/1999	9 J	9 J		
		3/15/2000	ND<20	ND<20		
		9/24/2003	ND<20	ND<20		

			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	5.32	5.32	
			11/28/2007	ND<20	ND<20	
			6/5/2008 ND<20	ND<20		
			11/20/2008	ND<20	ND<20	
			6/11/2009	ND<1.4	ND<1.4	
MW-10	25	16 (64%)	7/20/1995	ND<20	ND<20	
			8/24/1995	ND<20	ND<20	
			9/28/1995	ND<20	ND<20	
			10/26/1995	ND<20	ND<20	
			11/19/1996	ND<20	ND<20	
			12/19/1996	52	52	
			3/24/1997	ND<20	ND<20	
			9/24/1997	50	50	
			4/7/1998 73	73		
			9/23/1998	ND<20	ND<20	
			3/16/1999	ND<20	ND<20	
			9/23/1999	6 J	6 J	
			3/15/2000	41	41	
			9/24/2003	ND<20	ND<20	
			3/11/2004	ND<20	ND<20	
			10/12/2004	ND<20	ND<20	
			4/1/2005 ND<20	ND<20		
			10/25/2005	ND<20	ND<20	
			4/29/2006	ND<20	ND<20	
			11/18/2006	ND<20	ND<20	
			5/23/2007	3.77 J	3.77 J	
			11/28/2007	9 J	9 J	
			6/5/2008 ND<20	ND<20		
			11/20/2008	39	39	
			6/11/2009	1.9 J	1.9 J	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Non-Parametric Prediction Interval

Inter-Well Comparison

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 75.3846%
Number of comparisons = 8
Future Samples (k) = 8
Recent Dates = 1
Background Samples (n) = 15
Maximum Background Concentration = 22
Confidence Level = 65.2%
False Positive Rate = 34.8%

Location	Date	Samples	Mean	Significant
MW-9	6/11/2009	1	1.4	FALSE
MW-8	6/11/2009	1	1.4	FALSE
MW-7	6/11/2009	1	4.3	FALSE
MW-6	6/11/2009	1	1.4	FALSE
MW-12BR	6/11/2009	1	1.4	FALSE
MW-12AR	6/11/2009	1	1.4	FALSE
MW-11R	6/11/2009	1	1.4	FALSE
MW-10	6/11/2009	1	1.9	FALSE

Kruskal-Wallis Non-Parametric Test

Parameter: Vanadium

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<20	74
	9/23/1999	11 J	165
	3/15/2000	22	169
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	ND<20	74
	11/28/2007	ND<20	74
	6/5/2008	ND<20	74
	11/20/2008	ND<20	74
	6/11/2009	ND<1.4	74

Rank Sum = 1296
Rank Mean = 86.4

Background Rank Sum = 1296
Background Rank Mean = 86.4

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<20	74
	8/24/1995	ND<20	74
	9/28/1995	ND<20	74
	10/26/1995	ND<20	74
	11/19/1996	ND<20	74
	12/19/1996	ND<20	74
	3/24/1997	52	180
	9/24/1997	ND<20	74
	4/7/1998	ND<20	74
	9/23/1998	ND<20	74
	3/16/1999	ND<20	74
	9/23/1999	ND<20	74
	3/15/2000	42	175
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	3.07 J	152
	11/28/2007	7 J	160
	6/5/2008	ND<20	74

	11/20/2008	25	171
	6/11/2009	ND<1.4	74

Rank Sum = 2318
Rank Mean = 92.72

MW-8	7/20/1995	ND<20	74
	8/24/1995	ND<20	74
	9/28/1995	245	193
	10/26/1995	ND<20	74
	11/19/1996	ND<20	74
	12/19/1996	164	191
	3/24/1997	44	177
	9/24/1997	ND<20	74
	4/7/1998	44	178
	9/23/1998	110	187
	3/16/1999	ND<20	74
	9/23/1999	6 J	158
	3/15/2000	ND<20	74
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	4.47 J	156
	5/23/2007	12	166
	11/28/2007	21.2	168
	6/5/2008	2.94 J	151
	11/20/2008	9 J	162
	6/11/2009	1.4 J	148

Rank Sum = 2997
Rank Mean = 119.88

MW-7	7/20/1995	4 J	154
	8/24/1995	ND<20	74
	9/28/1995	274	195
	10/26/1995	122	189
	11/19/1996	ND<20	74
	12/19/1996	178	192
	3/24/1997	120	188
	9/24/1997	76	185
	4/7/1998	160	190
	9/23/1998	ND<20	74
	3/16/1999	ND<20	74
	9/23/1999	27	172
	3/15/2000	62	182
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	8.33	161
	11/28/2007	ND<20	74
	6/5/2008	2.5 J	150
	11/20/2008	16 J	167
	6/11/2009	4.3 J	155

Rank Sum = 3168
Rank Mean = 126.72

MW-6	7/20/1995	ND<20	74

	8/24/1995	ND<20	74
	9/28/1995	ND<20	74
	10/26/1995	ND<20	74
	11/19/1996	ND<20	74
	12/19/1996	ND<20	74
	3/24/1997	ND<20	74
	9/24/1997	ND<20	74
	4/7/1998	ND<20	74
	9/23/1998	ND<20	74
	3/16/1999	ND<20	74
	9/23/1999	ND<20	74
	3/15/2000	64	183
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	ND<20	74
	11/28/2007	ND<20	74
	6/5/2008	ND<20	74
	11/20/2008	ND<20	74
	6/11/2009	ND<1.4	74

Rank Sum = 1959
Rank Mean = 78.36

MW-12BR	3/16/1999	ND<20	74
	9/23/1999	22	170
	3/15/2000	ND<20	74
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	ND<20	74
	11/28/2007	ND<20	74
	6/5/2008	ND<20	74
	11/20/2008	ND<20	74
	6/11/2009	ND<1.4	74

Rank Sum = 1206
Rank Mean = 80.4

MW-12AR	3/16/1999	ND<20	74
	9/23/1999	ND<20	74
	3/15/2000	270	194
	9/24/2003	43	176
	3/11/2004	96	186
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	ND<20	74
	11/28/2007	ND<20	74
	6/5/2008	ND<20	74
	11/20/2008	ND<20	74
	6/11/2009	ND<1.4	74

Rank Sum = 1444
Rank Mean = 96.2667

MW-11R	7/20/1995	ND<20	74
	8/24/1995	ND<20	74
	9/28/1995	ND<20	74
	10/26/1995	ND<20	74
	11/19/1996	ND<20	74
	12/19/1996	ND<20	74
	3/24/1997	ND<20	74
	9/24/1997	ND<20	74
	4/7/1998	ND<20	74
	9/23/1998	ND<20	74
	3/16/1999	ND<20	74
	9/23/1999	9 J	163
	3/15/2000	ND<20	74
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	5.32	157
	11/28/2007	ND<20	74
	6/5/2008	ND<20	74
	11/20/2008	ND<20	74
	6/11/2009	ND<1.4	74

Rank Sum = 2022
Rank Mean = 80.88

MW-10	7/20/1995	ND<20	74
	8/24/1995	ND<20	74
	9/28/1995	ND<20	74
	10/26/1995	ND<20	74
	11/19/1996	ND<20	74
	12/19/1996	52	181
	3/24/1997	ND<20	74
	9/24/1997	50	179
	4/7/1998	73	184
	9/23/1998	ND<20	74
	3/16/1999	ND<20	74
	9/23/1999	6 J	159
	3/15/2000	41	174
	9/24/2003	ND<20	74
	3/11/2004	ND<20	74
	10/12/2004	ND<20	74
	4/1/2005	ND<20	74
	10/25/2005	ND<20	74
	4/29/2006	ND<20	74
	11/18/2006	ND<20	74
	5/23/2007	3.77 J	153
	11/28/2007	9 J	164
	6/5/2008	ND<20	74
	11/20/2008	39	173
	6/11/2009	1.9 J	149

Rank Sum = 2700
Rank Mean = 108

Calculation Results:

Kruskal-Wallis H Statistic = 18.6709
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 32.6637

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
18.6709 > 15.5073 indicating a significant group difference at 5% significance level
32.6637 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 86.4

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	92.72	6.32	42.8788
MW-8	119.88	33.48	42.8788
MW-7	126.72	40.32	42.8788
MW-6	78.36	-8.04	42.8788
MW-12BR	80.4	-6	47.94
MW-12AR	96.2667	9.86667	47.94
MW-11R	80.88	-5.52	42.8788
MW-10	108	21.6	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 86.4

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	92.72	6.32	46.3033
MW-8	119.88	33.48	46.3033
MW-7	126.72	40.32	46.3033
MW-6	78.36	-8.04	46.3033
MW-12BR	80.4	-6	51.7686
MW-12AR	96.2667	9.86667	51.7686
MW-11R	80.88	-5.52	46.3033
MW-10	108	21.6	46.3033

Concentrations (ppb)

Parameter: Vinyl chloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 124
Percent Non-Detects: 63.5897%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	15 (100%)	3/16/1999	ND<2	ND<2
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	ND<2	ND<2
			10/12/2004	ND<2	ND<2
			4/1/2005	ND<2	ND<2
			10/25/2005	ND<2	ND<2
			4/29/2006	ND<2	ND<2
			11/18/2006	ND<2	ND<2
			5/23/2007	ND<2	ND<2
			11/28/2007	ND<2	ND<2
			6/5/2008	ND<2	ND<2
			11/20/2008	ND<2	ND<2
			6/11/2009	ND<0.18	ND<0.18

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	13 (52%)	7/20/1995	ND<2	ND<2
			8/24/1995	ND<2	ND<2
			9/28/1995	0.8 J	0.8 J
			10/26/1995	0.9 J	0.9 J
			11/19/1996	ND<2	ND<2
			12/19/1996	ND<2	ND<2
			3/24/1997	ND<2	ND<2
			9/24/1997	ND<2	ND<2
			4/7/1998	ND<2	ND<2
			9/23/1998	ND<2	ND<2
			3/16/1999	2.7	2.7
			9/23/1999	ND<2	ND<2
			3/15/2000	ND<2	ND<2
			9/24/2003	ND<2	ND<2
			3/11/2004	37	37
			10/12/2004	ND<2	ND<2
			4/1/2005	2.81	2.81
			10/25/2005	1.45 J	1.45 J
			4/29/2006	0.69 J	0.69 J
			11/18/2006	0.73 J	0.73 J
			5/23/2007	ND<2	ND<2
			11/28/2007	1.71 J	1.71 J
			6/5/2008	1.6 J	1.6 J
			11/20/2008	1.41 J	1.41 J
			6/11/2009	2	2

MW-8	25	2 (8%)	7/20/1995	2.4	2.4	
			8/24/1995	46	46	
			9/28/1995	36	36	
			10/26/1995	4	4	
			11/19/1996	ND<2	ND<2	
			12/19/1996	46	46	
			3/24/1997	48	48	
			9/24/1997	25	25	
			4/7/1998	39	39	
			9/23/1998	16	16	
			3/16/1999	13.7	13.7	
			9/23/1999	15.2	15.2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	230	230	
			3/11/2004	78	78	
			10/12/2004	130	130	
			4/1/2005	59	59	
			10/25/2005	54.2	54.2	
			4/29/2006	24.6	24.6	
			11/18/2006	36.6	36.6	
			5/23/2007	19	19	
			11/28/2007	33.2	33.2	
			6/5/2008	21.8	21.8	
			11/20/2008	10.1	10.1	
			6/11/2009	12	12	
MW-7	25	18 (72%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	0.7 J	0.7 J	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	ND<2	ND<2	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	0.52 J	0.52 J	
			10/25/2005	0.36 J	0.36 J	
			4/29/2006	0.64 J	0.64 J	
			11/18/2006	0.35 J	0.35 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	ND<2	ND<2	
			6/5/2008	0.47 J	0.47 J	
			11/20/2008	0.58 J	0.58 J	
			6/11/2009	ND<0.18	ND<0.18	
MW-6	25	25 (100%)	7/20/1995	ND<2	ND<2	
			8/24/1995	ND<2	ND<2	
			9/28/1995	ND<2	ND<2	
			10/26/1995	ND<2	ND<2	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	

		3/16/1999	ND<2	ND<2		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.18		ND<0.18	
MW-12BR	15	13 (86.6667%)	3/16/1999		7.2	7.2
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	5.41	5.41		
		10/25/2005	ND<2	ND<2		
		4/29/2006	ND<2	ND<2		
		11/18/2006	ND<2	ND<2		
		5/23/2007	ND<2	ND<2		
		11/28/2007	ND<2	ND<2		
		6/5/2008	ND<2	ND<2		
		11/20/2008	ND<2	ND<2		
		6/11/2009	ND<0.18		ND<0.18	
MW-12AR	15	9 (60%)	3/16/1999	ND<2	ND<2	
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		
		3/11/2004	ND<2	ND<2		
		10/12/2004	ND<2	ND<2		
		4/1/2005	ND<2	ND<2		
		10/25/2005	2.08	2.08		
		4/29/2006	2.44	2.44		
		11/18/2006	1.17 J	1.17 J		
		5/23/2007	ND<2	ND<2		
		11/28/2007	0.97 J	0.97 J		
		6/5/2008	0.8 J	0.8 J		
		11/20/2008	0.52 J	0.52 J		
		6/11/2009	ND<0.18		ND<0.18	
MW-11R	25	16 (64%)	7/20/1995	ND<2	ND<2	
		8/24/1995	1.9 J	1.9 J		
		9/28/1995	0.8 J	0.8 J		
		10/26/1995	4	4		
		11/19/1996	ND<2	ND<2		
		12/19/1996	ND<2	ND<2		
		3/24/1997	ND<2	ND<2		
		9/24/1997	ND<2	ND<2		
		4/7/1998	ND<2	ND<2		
		9/23/1998	ND<2	ND<2		
		3/16/1999	2.6	2.6		
		9/23/1999	ND<2	ND<2		
		3/15/2000	ND<2	ND<2		
		9/24/2003	ND<2	ND<2		

			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	3.57	3.57	
			10/25/2005	0.9 J	0.9 J	
			4/29/2006	0.78 J	0.78 J	
			11/18/2006	0.8 J	0.8 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	0.48 J	0.48 J	
			6/5/2008	ND<2	ND<2	
			11/20/2008	ND<2	ND<2	
			6/11/2009	ND<0.18		ND<0.18
MW-10	25	13 (52%)	7/20/1995		ND<2	ND<2
			8/24/1995	3	3	
			9/28/1995	4	4	
			10/26/1995	5	5	
			11/19/1996	ND<2	ND<2	
			12/19/1996	ND<2	ND<2	
			3/24/1997	ND<2	ND<2	
			9/24/1997	ND<2	ND<2	
			4/7/1998	ND<2	ND<2	
			9/23/1998	ND<2	ND<2	
			3/16/1999	3.6	3.6	
			9/23/1999	ND<2	ND<2	
			3/15/2000	ND<2	ND<2	
			9/24/2003	ND<2	ND<2	
			3/11/2004	ND<2	ND<2	
			10/12/2004	ND<2	ND<2	
			4/1/2005	1.91 J	1.91 J	
			10/25/2005	2.48	2.48	
			4/29/2006	2.8	2.8	
			11/18/2006	1.7 J	1.7 J	
			5/23/2007	ND<2	ND<2	
			11/28/2007	2.59	2.59	
			6/5/2008	1.65 J	1.65 J	
			11/20/2008	1.58 J	1.58 J	
			6/11/2009	1.3	1.3	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Vinyl chloride

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<2	62.5
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	ND<2	62.5
	10/25/2005	ND<2	62.5
	4/29/2006	ND<2	62.5
	11/18/2006	ND<2	62.5
	5/23/2007	ND<2	62.5
	11/28/2007	ND<2	62.5
	6/5/2008	ND<2	62.5
	11/20/2008	ND<2	62.5
	6/11/2009	ND<0.18	62.5

Rank Sum = 937.5
Rank Mean = 62.5

Background Rank Sum = 937.5
Background Rank Mean = 62.5

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<2	62.5
	8/24/1995	ND<2	62.5
	9/28/1995	0.8 J	137
	10/26/1995	0.9 J	141
	11/19/1996	ND<2	62.5
	12/19/1996	ND<2	62.5
	3/24/1997	ND<2	62.5
	9/24/1997	ND<2	62.5
	4/7/1998	ND<2	62.5
	9/23/1998	ND<2	62.5
	3/16/1999	2.7	162
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	37	186
	10/12/2004	ND<2	62.5
	4/1/2005	2.81	164
	10/25/2005	1.45 J	147
	4/29/2006	0.69 J	133
	11/18/2006	0.73 J	135
	5/23/2007	ND<2	62.5
	11/28/2007	1.71 J	152
	6/5/2008	1.6 J	149

	11/20/2008	1.41 J	146
	6/11/2009	2	155

Rank Sum = 2619.5
Rank Mean = 104.78

MW-8	7/20/1995	2.4	157
	8/24/1995	46	188
	9/28/1995	36	184
	10/26/1995	4	168
	11/19/1996	ND<2	62.5
	12/19/1996	46	189
	3/24/1997	48	190
	9/24/1997	25	182
	4/7/1998	39	187
	9/23/1998	16	178
	3/16/1999	13.7	176
	9/23/1999	15.2	177
	3/15/2000	ND<2	62.5
	9/24/2003	230	195
	3/11/2004	78	193
	10/12/2004	130	194
	4/1/2005	59	192
	10/25/2005	54.2	191
	4/29/2006	24.6	181
	11/18/2006	36.6	185
	5/23/2007	19	179
	11/28/2007	33.2	183
	6/5/2008	21.8	180
	11/20/2008	10.1	174
	6/11/2009	12	175

Rank Sum = 4323
Rank Mean = 172.92

MW-7	7/20/1995	ND<2	62.5
	8/24/1995	ND<2	62.5
	9/28/1995	0.7 J	134
	10/26/1995	ND<2	62.5
	11/19/1996	ND<2	62.5
	12/19/1996	ND<2	62.5
	3/24/1997	ND<2	62.5
	9/24/1997	ND<2	62.5
	4/7/1998	ND<2	62.5
	9/23/1998	ND<2	62.5
	3/16/1999	ND<2	62.5
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	0.52 J	129
	10/25/2005	0.36 J	126
	4/29/2006	0.64 J	132
	11/18/2006	0.35 J	125
	5/23/2007	ND<2	62.5
	11/28/2007	ND<2	62.5
	6/5/2008	0.47 J	127
	11/20/2008	0.58 J	131
	6/11/2009	ND<0.18	62.5

Rank Sum = 2029
Rank Mean = 81.16

MW-6	7/20/1995	ND<2	62.5

	8/24/1995	ND<2	62.5
	9/28/1995	ND<2	62.5
	10/26/1995	ND<2	62.5
	11/19/1996	ND<2	62.5
	12/19/1996	ND<2	62.5
	3/24/1997	ND<2	62.5
	9/24/1997	ND<2	62.5
	4/7/1998	ND<2	62.5
	9/23/1998	ND<2	62.5
	3/16/1999	ND<2	62.5
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	ND<2	62.5
	10/25/2005	ND<2	62.5
	4/29/2006	ND<2	62.5
	11/18/2006	ND<2	62.5
	5/23/2007	ND<2	62.5
	11/28/2007	ND<2	62.5
	6/5/2008	ND<2	62.5
	11/20/2008	ND<2	62.5
	6/11/2009	ND<0.18	62.5

Rank Sum = 1562.5
Rank Mean = 62.5

MW-12BR	3/16/1999	7.2	173
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	5.41	172
	10/25/2005	ND<2	62.5
	4/29/2006	ND<2	62.5
	11/18/2006	ND<2	62.5
	5/23/2007	ND<2	62.5
	11/28/2007	ND<2	62.5
	6/5/2008	ND<2	62.5
	11/20/2008	ND<2	62.5
	6/11/2009	ND<0.18	62.5

Rank Sum = 1157.5
Rank Mean = 77.1667

MW-12AR	3/16/1999	ND<2	62.5
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	ND<2	62.5
	10/25/2005	2.08	156
	4/29/2006	2.44	158
	11/18/2006	1.17 J	144
	5/23/2007	ND<2	62.5
	11/28/2007	0.97 J	143
	6/5/2008	0.8 J	138
	11/20/2008	0.52 J	130
	6/11/2009	ND<0.18	62.5

Rank Sum = 1431.5
Rank Mean = 95.4333

MW-11R	7/20/1995	ND<2	62.5
	8/24/1995	1.9 J	153
	9/28/1995	0.8 J	139
	10/26/1995	4	169
	11/19/1996	ND<2	62.5
	12/19/1996	ND<2	62.5
	3/24/1997	ND<2	62.5
	9/24/1997	ND<2	62.5
	4/7/1998	ND<2	62.5
	9/23/1998	ND<2	62.5
	3/16/1999	2.6	161
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	3.57	166
	10/25/2005	0.9 J	142
	4/29/2006	0.78 J	136
	11/18/2006	0.8 J	140
	5/23/2007	ND<2	62.5
	11/28/2007	0.48 J	128
	6/5/2008	ND<2	62.5
	11/20/2008	ND<2	62.5
	6/11/2009	ND<0.18	62.5

Rank Sum = 2334
Rank Mean = 93.36

MW-10	7/20/1995	ND<2	62.5
	8/24/1995	3	165
	9/28/1995	4	170
	10/26/1995	5	171
	11/19/1996	ND<2	62.5
	12/19/1996	ND<2	62.5
	3/24/1997	ND<2	62.5
	9/24/1997	ND<2	62.5
	4/7/1998	ND<2	62.5
	9/23/1998	ND<2	62.5
	3/16/1999	3.6	167
	9/23/1999	ND<2	62.5
	3/15/2000	ND<2	62.5
	9/24/2003	ND<2	62.5
	3/11/2004	ND<2	62.5
	10/12/2004	ND<2	62.5
	4/1/2005	1.91 J	154
	10/25/2005	2.48	159
	4/29/2006	2.8	163
	11/18/2006	1.7 J	151
	5/23/2007	ND<2	62.5
	11/28/2007	2.59	160
	6/5/2008	1.65 J	150
	11/20/2008	1.58 J	148
	6/11/2009	1.3	145

Rank Sum = 2715.5
Rank Mean = 108.62

Calculation Results:

Kruskal-Wallis H Statistic = 65.6016
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 88.3077

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
65.6016 > 15.5073 indicating a significant group difference at 5% significance level
88.3077 > 15.5073 indicating a significant group difference at 5% significance level when adjusted for ties

Individual Well Comparisons at 1% Significance Level per Comparison

1% Z score is 2.32634
Mean background rank is 62.5

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	104.78	42.28	42.8788
MW-8	172.92	110.42	42.8788
MW-7	81.16	18.66	42.8788
MW-6	62.5	0	42.8788
MW-12BR	77.1667	14.6667	47.94
MW-12AR	95.4333	32.9333	47.94
MW-11R	93.36	30.86	42.8788
MW-10	108.62	46.12	42.8788

Individual Well Comparisons at Groupwise 5% Significance Level (0.625% Significance Level per comparison)

0.625% Z score is 2.51213
Mean background rank is 62.5

Well	Mean Rank	Dif from Bkg	Critical Value
MW-9	104.78	42.28	46.3033
MW-8	172.92	110.42	46.3033
MW-7	81.16	18.66	46.3033
MW-6	62.5	0	46.3033
MW-12BR	77.1667	14.6667	51.7686
MW-12AR	95.4333	32.9333	51.7686
MW-11R	93.36	30.86	46.3033
MW-10	108.62	46.12	46.3033

Mann-Kendall Trend Analysis

Parameter: Vinyl chloride

Location: MW-8

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
46	2.4	43.6	1	0	
36	2.4	33.6	2	0	
4	2.4	1.6	3	0	
ND<2	2.4	-0.4	3	1	
46	2.4	43.6	4	1	
48	2.4	45.6	5	1	
25	2.4	22.6	6	1	
39	2.4	36.6	7	1	
16	2.4	13.6	8	1	
13.7	2.4	11.3	9	1	
15.2	2.4	12.8	10	1	
ND<2	2.4	-0.4	10	2	
230	2.4	227.6	11	2	
78	2.4	75.6	12	2	
130	2.4	127.6	13	2	
59	2.4	56.6	14	2	
54.2	2.4	51.8	15	2	
24.6	2.4	22.2	16	2	
36.6	2.4	34.2	17	2	
19	2.4	16.6	18	2	
33.2	2.4	30.8	19	2	
21.8	2.4	19.4	20	2	
10.1	2.4	7.7	21	2	
12	2.4	9.6	22	2	
36	46	-10	22	3	
4	46	-42	22	4	
ND<2	46	-44	22	5	
46	46	0	22	5	
48	46	2	23	5	
25	46	-21	23	6	
39	46	-7	23	7	
16	46	-30	23	8	
13.7	46	-32.3	23	9	
15.2	46	-30.8	23	10	
ND<2	46	-44	23	11	
230	46	184	24	11	
78	46	32	25	11	
130	46	84	26	11	
59	46	13	27	11	
54.2	46	8.2	28	11	
24.6	46	-21.4	28	12	
36.6	46	-9.4	28	13	
19	46	-27	28	14	
33.2	46	-12.8	28	15	
21.8	46	-24.2	28	16	
10.1	46	-35.9	28	17	
12	46	-34	28	18	

4	36	-32	28	19
ND<2	36	-34	28	20
46	36	10	29	20
48	36	12	30	20
25	36	-11	30	21
39	36	3	31	21
16	36	-20	31	22
13.7	36	-22.3	31	23
15.2	36	-20.8	31	24
ND<2	36	-34	31	25
230	36	194	32	25
78	36	42	33	25
130	36	94	34	25
59	36	23	35	25
54.2	36	18.2	36	25
24.6	36	-11.4	36	26
36.6	36	0.6	37	26
19	36	-17	37	27
33.2	36	-2.8	37	28
21.8	36	-14.2	37	29
10.1	36	-25.9	37	30
12	36	-24	37	31
ND<2	4	-2	37	32
46	4	42	38	32
48	4	44	39	32
25	4	21	40	32
39	4	35	41	32
16	4	12	42	32
13.7	4	9.7	43	32
15.2	4	11.2	44	32
ND<2	4	-2	44	33
230	4	226	45	33
78	4	74	46	33
130	4	126	47	33
59	4	55	48	33
54.2	4	50.2	49	33
24.6	4	20.6	50	33
36.6	4	32.6	51	33
19	4	15	52	33
33.2	4	29.2	53	33
21.8	4	17.8	54	33
10.1	4	6.1	55	33
12	4	8	56	33
46	ND<2	44	57	33
48	ND<2	46	58	33
25	ND<2	23	59	33
39	ND<2	37	60	33
16	ND<2	14	61	33
13.7	ND<2	11.7	62	33
15.2	ND<2	13.2	63	33
ND<2	ND<2	0	63	33
230	ND<2	228	64	33
78	ND<2	76	65	33
130	ND<2	128	66	33
59	ND<2	57	67	33
54.2	ND<2	52.2	68	33
24.6	ND<2	22.6	69	33
36.6	ND<2	34.6	70	33
19	ND<2	17	71	33

33.2	ND<2	31.2	72	33
21.8	ND<2	19.8	73	33
10.1	ND<2	8.1	74	33
12	ND<2	10	75	33
48	46	2	76	33
25	46	-21	76	34
39	46	-7	76	35
16	46	-30	76	36
13.7	46	-32.3	76	37
15.2	46	-30.8	76	38
ND<2	46	-44	76	39
230	46	184	77	39
78	46	32	78	39
130	46	84	79	39
59	46	13	80	39
54.2	46	8.2	81	39
24.6	46	-21.4	81	40
36.6	46	-9.4	81	41
19	46	-27	81	42
33.2	46	-12.8	81	43
21.8	46	-24.2	81	44
10.1	46	-35.9	81	45
12	46	-34	81	46
25	48	-23	81	47
39	48	-9	81	48
16	48	-32	81	49
13.7	48	-34.3	81	50
15.2	48	-32.8	81	51
ND<2	48	-46	81	52
230	48	182	82	52
78	48	30	83	52
130	48	82	84	52
59	48	11	85	52
54.2	48	6.2	86	52
24.6	48	-23.4	86	53
36.6	48	-11.4	86	54
19	48	-29	86	55
33.2	48	-14.8	86	56
21.8	48	-26.2	86	57
10.1	48	-37.9	86	58
12	48	-36	86	59
39	25	14	87	59
16	25	-9	87	60
13.7	25	-11.3	87	61
15.2	25	-9.8	87	62
ND<2	25	-23	87	63
230	25	205	88	63
78	25	53	89	63
130	25	105	90	63
59	25	34	91	63
54.2	25	29.2	92	63
24.6	25	-0.4	92	64
36.6	25	11.6	93	64
19	25	-6	93	65
33.2	25	8.2	94	65
21.8	25	-3.2	94	66
10.1	25	-14.9	94	67
12	25	-13	94	68

16	39	-23	94	69
13.7	39	-25.3	94	70
15.2	39	-23.8	94	71
ND<2	39	-37	94	72
230	39	191	95	72
78	39	39	96	72
130	39	91	97	72
59	39	20	98	72
54.2	39	15.2	99	72
24.6	39	-14.4	99	73
36.6	39	-2.4	99	74
19	39	-20	99	75
33.2	39	-5.8	99	76
21.8	39	-17.2	99	77
10.1	39	-28.9	99	78
12	39	-27	99	79
13.7	16	-2.3	99	80
15.2	16	-0.8	99	81
ND<2	16	-14	99	82
230	16	214	100	82
78	16	62	101	82
130	16	114	102	82
59	16	43	103	82
54.2	16	38.2	104	82
24.6	16	8.6	105	82
36.6	16	20.6	106	82
19	16	3	107	82
33.2	16	17.2	108	82
21.8	16	5.8	109	82
10.1	16	-5.9	109	83
12	16	-4	109	84
15.2	13.7	1.5	110	84
ND<2	13.7	-11.7	110	85
230	13.7	216.3	111	85
78	13.7	64.3	112	85
130	13.7	116.3	113	85
59	13.7	45.3	114	85
54.2	13.7	40.5	115	85
24.6	13.7	10.9	116	85
36.6	13.7	22.9	117	85
19	13.7	5.3	118	85
33.2	13.7	19.5	119	85
21.8	13.7	8.1	120	85
10.1	13.7	-3.6	120	86
12	13.7	-1.7	120	87
ND<2	15.2	-13.2	120	88
230	15.2	214.8	121	88
78	15.2	62.8	122	88
130	15.2	114.8	123	88
59	15.2	43.8	124	88
54.2	15.2	39	125	88
24.6	15.2	9.4	126	88
36.6	15.2	21.4	127	88
19	15.2	3.8	128	88
33.2	15.2	18	129	88
21.8	15.2	6.6	130	88
10.1	15.2	-5.1	130	89
12	15.2	-3.2	130	90

230	ND<2	228	131	90
78	ND<2	76	132	90
130	ND<2	128	133	90
59	ND<2	57	134	90
54.2	ND<2	52.2	135	90
24.6	ND<2	22.6	136	90
36.6	ND<2	34.6	137	90
19	ND<2	17	138	90
33.2	ND<2	31.2	139	90
21.8	ND<2	19.8	140	90
10.1	ND<2	8.1	141	90
12	ND<2	10	142	90
78	230	-152	142	91
130	230	-100	142	92
59	230	-171	142	93
54.2	230	-175.8	142	94
24.6	230	-205.4	142	95
36.6	230	-193.4	142	96
19	230	-211	142	97
33.2	230	-196.8	142	98
21.8	230	-208.2	142	99
10.1	230	-219.9	142	100
12	230	-218	142	101
130	78	52	143	101
59	78	-19	143	102
54.2	78	-23.8	143	103
24.6	78	-53.4	143	104
36.6	78	-41.4	143	105
19	78	-59	143	106
33.2	78	-44.8	143	107
21.8	78	-56.2	143	108
10.1	78	-67.9	143	109
12	78	-66	143	110
59	130	-71	143	111
54.2	130	-75.8	143	112
24.6	130	-105.4	143	113
36.6	130	-93.4	143	114
19	130	-111	143	115
33.2	130	-96.8	143	116
21.8	130	-108.2	143	117
10.1	130	-119.9	143	118
12	130	-118	143	119
54.2	59	-4.8	143	120
24.6	59	-34.4	143	121
36.6	59	-22.4	143	122
19	59	-40	143	123
33.2	59	-25.8	143	124
21.8	59	-37.2	143	125
10.1	59	-48.9	143	126
12	59	-47	143	127
24.6	54.2	-29.6	143	128
36.6	54.2	-17.6	143	129
19	54.2	-35.2	143	130
33.2	54.2	-21	143	131
21.8	54.2	-32.4	143	132
10.1	54.2	-44.1	143	133
12	54.2	-42.2	143	134

36.6	24.6	12	144	134
19	24.6	-5.6	144	135
33.2	24.6	8.6	145	135
21.8	24.6	-2.8	145	136
10.1	24.6	-14.5	145	137
12	24.6	-12.6	145	138
19	36.6	-17.6	145	139
33.2	36.6	-3.4	145	140
21.8	36.6	-14.8	145	141
10.1	36.6	-26.5	145	142
12	36.6	-24.6	145	143
33.2	19	14.2	146	143
21.8	19	2.8	147	143
10.1	19	-8.9	147	144
12	19	-7	147	145
21.8	33.2	-11.4	147	146
10.1	33.2	-23.1	147	147
12	33.2	-21.2	147	148
10.1	21.8	-11.7	147	149
12	21.8	-9.8	147	150
12	10.1	1.9	148	150

S Statistic = 148 - 150 = -2

Tied Group	Value	Members
1	46	2
2	2	2

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1

6/11/2009 1
There are 0 time periods with multiple data

A = 36
B = 0
C = 0
D = 0
E = 4
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1831.33
Z-Score = -0.0233677
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-0.0233677 <= 1.65463 indicating no evidence of an upward trend

Mann-Kendall Trend Analysis

Parameter: Vinyl chloride

Location: MW-10

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

95% Confidence Level

Xj	Xk	Xj - Xk		Positives	Negatives
3	ND<2	1	1	0	
4	ND<2	2	2	0	
5	ND<2	3	3	0	
ND<2	ND<2	0	3	0	
ND<2	ND<2	0	3	0	
ND<2	ND<2	0	3	0	
ND<2	ND<2	0	3	0	
ND<2	ND<2	0	3	0	
ND<2	ND<2	0	3	0	
3.6	ND<2	1.6	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
ND<2	ND<2	0	4	0	
1.91 J	ND<2	-0.09	4	1	
2.48	ND<2	0.48	5	1	
2.8	ND<2	0.8	6	1	
1.7 J	ND<2	-0.3	6	2	
ND<2	ND<2	0	6	2	
2.59	ND<2	0.59	7	2	
1.65 J	ND<2	-0.35	7	3	
1.58 J	ND<2	-0.42	7	4	
1.3	ND<2	-0.7	7	5	
4	3	1	8	5	
5	3	2	9	5	
ND<2	3	-1	9	6	
ND<2	3	-1	9	7	
ND<2	3	-1	9	8	
ND<2	3	-1	9	9	
ND<2	3	-1	9	10	
ND<2	3	-1	9	11	
3.6	3	0.6	10	11	
ND<2	3	-1	10	12	
ND<2	3	-1	10	13	
ND<2	3	-1	10	14	
ND<2	3	-1	10	15	
ND<2	3	-1	10	16	
1.91 J	3	-1.09	10	17	
2.48	3	-0.52	10	18	
2.8	3	-0.2	10	19	
1.7 J	3	-1.3	10	20	
ND<2	3	-1	10	21	
2.59	3	-0.41	10	22	
1.65 J	3	-1.35	10	23	
1.58 J	3	-1.42	10	24	
1.3	3	-1.7	10	25	

5	4	1	11	25
ND<2	4	-2	11	26
ND<2	4	-2	11	27
ND<2	4	-2	11	28
ND<2	4	-2	11	29
ND<2	4	-2	11	30
ND<2	4	-2	11	31
3.6	4	-0.4	11	32
ND<2	4	-2	11	33
ND<2	4	-2	11	34
ND<2	4	-2	11	35
ND<2	4	-2	11	36
ND<2	4	-2	11	37
1.91 J	4	-2.09	11	38
2.48	4	-1.52	11	39
2.8	4	-1.2	11	40
1.7 J	4	-2.3	11	41
ND<2	4	-2	11	42
2.59	4	-1.41	11	43
1.65 J	4	-2.35	11	44
1.58 J	4	-2.42	11	45
1.3	4	-2.7	11	46
ND<2	5	-3	11	47
ND<2	5	-3	11	48
ND<2	5	-3	11	49
ND<2	5	-3	11	50
ND<2	5	-3	11	51
ND<2	5	-3	11	52
3.6	5	-1.4	11	53
ND<2	5	-3	11	54
ND<2	5	-3	11	55
ND<2	5	-3	11	56
ND<2	5	-3	11	57
ND<2	5	-3	11	58
1.91 J	5	-3.09	11	59
2.48	5	-2.52	11	60
2.8	5	-2.2	11	61
1.7 J	5	-3.3	11	62
ND<2	5	-3	11	63
2.59	5	-2.41	11	64
1.65 J	5	-3.35	11	65
1.58 J	5	-3.42	11	66
1.3	5	-3.7	11	67
ND<2	ND<2	0	11	67
ND<2	ND<2	0	11	67
ND<2	ND<2	0	11	67
ND<2	ND<2	0	11	67
ND<2	ND<2	0	11	67
3.6	ND<2	1.6	12	67
ND<2	ND<2	0	12	67
ND<2	ND<2	0	12	67
ND<2	ND<2	0	12	67
ND<2	ND<2	0	12	67
ND<2	ND<2	0	12	67
1.91 J	ND<2	-0.09	12	68
2.48	ND<2	0.48	13	68
2.8	ND<2	0.8	14	68
1.7 J	ND<2	-0.3	14	69
ND<2	ND<2	0	14	69

2.59	ND<2	0.59	15	69
1.65 J	ND<2	-0.35	15	70
1.58 J	ND<2	-0.42	15	71
1.3	ND<2	-0.7	15	72
ND<2	ND<2	0	15	72
ND<2	ND<2	0	15	72
ND<2	ND<2	0	15	72
ND<2	ND<2	0	15	72
3.6	ND<2	1.6	16	72
ND<2	ND<2	0	16	72
ND<2	ND<2	0	16	72
ND<2	ND<2	0	16	72
ND<2	ND<2	0	16	72
ND<2	ND<2	0	16	72
1.91 J	ND<2	-0.09	16	73
2.48	ND<2	0.48	17	73
2.8	ND<2	0.8	18	73
1.7 J	ND<2	-0.3	18	74
ND<2	ND<2	0	18	74
2.59	ND<2	0.59	19	74
1.65 J	ND<2	-0.35	19	75
1.58 J	ND<2	-0.42	19	76
1.3	ND<2	-0.7	19	77
ND<2	ND<2	0	19	77
ND<2	ND<2	0	19	77
ND<2	ND<2	0	19	77
3.6	ND<2	1.6	20	77
ND<2	ND<2	0	20	77
ND<2	ND<2	0	20	77
ND<2	ND<2	0	20	77
ND<2	ND<2	0	20	77
ND<2	ND<2	0	20	77
1.91 J	ND<2	-0.09	20	78
2.48	ND<2	0.48	21	78
2.8	ND<2	0.8	22	78
1.7 J	ND<2	-0.3	22	79
ND<2	ND<2	0	22	79
2.59	ND<2	0.59	23	79
1.65 J	ND<2	-0.35	23	80
1.58 J	ND<2	-0.42	23	81
1.3	ND<2	-0.7	23	82
ND<2	ND<2	0	23	82
ND<2	ND<2	0	23	82
3.6	ND<2	1.6	24	82
ND<2	ND<2	0	24	82
ND<2	ND<2	0	24	82
ND<2	ND<2	0	24	82
ND<2	ND<2	0	24	82
ND<2	ND<2	0	24	82
1.91 J	ND<2	-0.09	24	83
2.48	ND<2	0.48	25	83
2.8	ND<2	0.8	26	83
1.7 J	ND<2	-0.3	26	84
ND<2	ND<2	0	26	84
2.59	ND<2	0.59	27	84
1.65 J	ND<2	-0.35	27	85
1.58 J	ND<2	-0.42	27	86
1.3	ND<2	-0.7	27	87

ND<2	ND<2	0	27	87
3.6	ND<2	1.6	28	87
ND<2	ND<2	0	28	87
ND<2	ND<2	0	28	87
ND<2	ND<2	0	28	87
ND<2	ND<2	0	28	87
ND<2	ND<2	0	28	87
1.91 J	ND<2	-0.09	28	88
2.48	ND<2	0.48	29	88
2.8	ND<2	0.8	30	88
1.7 J	ND<2	-0.3	30	89
ND<2	ND<2	0	30	89
2.59	ND<2	0.59	31	89
1.65 J	ND<2	-0.35	31	90
1.58 J	ND<2	-0.42	31	91
1.3	ND<2	-0.7	31	92
3.6	ND<2	1.6	32	92
ND<2	ND<2	0	32	92
ND<2	ND<2	0	32	92
ND<2	ND<2	0	32	92
ND<2	ND<2	0	32	92
ND<2	ND<2	0	32	92
1.91 J	ND<2	-0.09	32	93
2.48	ND<2	0.48	33	93
2.8	ND<2	0.8	34	93
1.7 J	ND<2	-0.3	34	94
ND<2	ND<2	0	34	94
2.59	ND<2	0.59	35	94
1.65 J	ND<2	-0.35	35	95
1.58 J	ND<2	-0.42	35	96
1.3	ND<2	-0.7	35	97
ND<2	3.6	-1.6	35	98
ND<2	3.6	-1.6	35	99
ND<2	3.6	-1.6	35	100
ND<2	3.6	-1.6	35	101
ND<2	3.6	-1.6	35	102
1.91 J	3.6	-1.69	35	103
2.48	3.6	-1.12	35	104
2.8	3.6	-0.8	35	105
1.7 J	3.6	-1.9	35	106
ND<2	3.6	-1.6	35	107
2.59	3.6	-1.01	35	108
1.65 J	3.6	-1.95	35	109
1.58 J	3.6	-2.02	35	110
1.3	3.6	-2.3	35	111
ND<2	ND<2	0	35	111
ND<2	ND<2	0	35	111
ND<2	ND<2	0	35	111
ND<2	ND<2	0	35	111
1.91 J	ND<2	-0.09	35	112
2.48	ND<2	0.48	36	112
2.8	ND<2	0.8	37	112
1.7 J	ND<2	-0.3	37	113
ND<2	ND<2	0	37	113
2.59	ND<2	0.59	38	113
1.65 J	ND<2	-0.35	38	114
1.58 J	ND<2	-0.42	38	115
1.3	ND<2	-0.7	38	116

ND<2	ND<2	0	38	116
ND<2	ND<2	0	38	116
ND<2	ND<2	0	38	116
1.91 J	ND<2	-0.09	38	117
2.48	ND<2	0.48	39	117
2.8	ND<2	0.8	40	117
1.7 J	ND<2	-0.3	40	118
ND<2	ND<2	0	40	118
2.59	ND<2	0.59	41	118
1.65 J	ND<2	-0.35	41	119
1.58 J	ND<2	-0.42	41	120
1.3	ND<2	-0.7	41	121
ND<2	ND<2	0	41	121
ND<2	ND<2	0	41	121
1.91 J	ND<2	-0.09	41	122
2.48	ND<2	0.48	42	122
2.8	ND<2	0.8	43	122
1.7 J	ND<2	-0.3	43	123
ND<2	ND<2	0	43	123
2.59	ND<2	0.59	44	123
1.65 J	ND<2	-0.35	44	124
1.58 J	ND<2	-0.42	44	125
1.3	ND<2	-0.7	44	126
ND<2	ND<2	0	44	126
1.91 J	ND<2	-0.09	44	127
2.48	ND<2	0.48	45	127
2.8	ND<2	0.8	46	127
1.7 J	ND<2	-0.3	46	128
ND<2	ND<2	0	46	128
2.59	ND<2	0.59	47	128
1.65 J	ND<2	-0.35	47	129
1.58 J	ND<2	-0.42	47	130
1.3	ND<2	-0.7	47	131
1.91 J	ND<2	-0.09	47	132
2.48	ND<2	0.48	48	132
2.8	ND<2	0.8	49	132
1.7 J	ND<2	-0.3	49	133
ND<2	ND<2	0	49	133
2.59	ND<2	0.59	50	133
1.65 J	ND<2	-0.35	50	134
1.58 J	ND<2	-0.42	50	135
1.3	ND<2	-0.7	50	136
2.48	1.91 J	0.57	51	136
2.8	1.91 J	0.89	52	136
1.7 J	1.91 J	-0.21	52	137
ND<2	1.91 J	0.09	53	137
2.59	1.91 J	0.68	54	137
1.65 J	1.91 J	-0.26	54	138
1.58 J	1.91 J	-0.33	54	139
1.3	1.91 J	-0.61	54	140
2.8	2.48	0.32	55	140
1.7 J	2.48	-0.78	55	141
ND<2	2.48	-0.48	55	142
2.59	2.48	0.11	56	142
1.65 J	2.48	-0.83	56	143
1.58 J	2.48	-0.9	56	144
1.3	2.48	-1.18	56	145

1.7 J	2.8	-1.1	56	146
ND<2	2.8	-0.8	56	147
2.59	2.8	-0.21	56	148
1.65 J	2.8	-1.15	56	149
1.58 J	2.8	-1.22	56	150
1.3	2.8	-1.5	56	151
ND<2	1.7 J	0.3	57	151
2.59	1.7 J	0.89	58	151
1.65 J	1.7 J	-0.05	58	152
1.58 J	1.7 J	-0.12	58	153
1.3	1.7 J	-0.4	58	154
2.59	ND<2	0.59	59	154
1.65 J	ND<2	-0.35	59	155
1.58 J	ND<2	-0.42	59	156
1.3	ND<2	-0.7	59	157
1.65 J	2.59	-0.94	59	158
1.58 J	2.59	-1.01	59	159
1.3	2.59	-1.29	59	160
1.58 J	1.65 J	-0.07	59	161
1.3	1.65 J	-0.35	59	162
1.3	1.58 J	-0.28	59	163

S Statistic = 59 - 163 = -104

Tied Group	Value	Members
1	2	13

Time Period		Observations
7/20/1995		1
8/24/1995		1
9/28/1995		1
10/26/1995		1
11/19/1996		1
12/19/1996		1
3/24/1997		1
9/24/1997		1
4/7/1998	1	
9/23/1998		1
3/16/1999		1
9/23/1999		1
3/15/2000		1
9/24/2003		1
3/11/2004		1
10/12/2004		1
4/1/2005	1	
10/25/2005		1
4/29/2006		1
11/18/2006		1
5/23/2007		1
11/28/2007		1
6/5/2008	1	
11/20/2008		1
6/11/2009		1

There are 0 time periods with multiple data

A = 4836
B = 0
C = 1716
D = 0
E = 156
F = 0
a = 33000
b = 124200
c = 1200
Group Variance = 1564.67
Z-Score = -2.60391
Comparison Level at 95% confidence level = 1.65463 (upward trend)
-2.60391 <= 1.65463 indicating no evidence of an upward trend

Concentrations (ppb)

Parameter: Zinc

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 195
Total Non-Detect: 128
Percent Non-Detects: 65.641%
Total Background Measurements: 15
There is 1 background location

Loc.	Meas.	ND	Date	Conc.	Original
MW-13	15	9 (60%)	3/16/1999	ND<60	ND<60
			9/23/1999	26 J	26 J
			3/15/2000	96	96
			9/24/2003	610	610
			3/11/2004	ND<60	ND<60
			10/12/2004	ND<60	ND<60
			4/1/2005	ND<60	ND<60
			10/25/2005	ND<60	ND<60
			4/29/2006	ND<60	ND<60
			11/18/2006	10.3 J	10.3 J
			5/23/2007	ND<60	ND<60
			11/28/2007	ND<60	ND<60
			6/5/2008	11.2 J	11.2 J
			11/20/2008	ND<60	ND<60
			6/11/2009	14	14

There are 8 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-9	25	16 (64%)	7/20/1995	ND<60	ND<60
			8/24/1995	33.1 J	33.1 J
			9/28/1995	ND<60	ND<60
			10/26/1995	ND<60	ND<60
			11/19/1996	ND<60	ND<60
			12/19/1996	ND<60	ND<60
			3/24/1997	110	110
			9/24/1997	ND<60	ND<60
			4/7/1998	ND<60	ND<60
			9/23/1998	88	88
			3/16/1999	ND<60	ND<60
			9/23/1999	5 J	5 J
			3/15/2000	ND<60	ND<60
			9/24/2003	120	120
			3/11/2004	ND<60	ND<60
			10/12/2004	ND<60	ND<60
			4/1/2005	ND<60	ND<60
			10/25/2005	ND<60	ND<60
			4/29/2006	ND<60	ND<60
			11/18/2006	5.56 J	5.56 J
			5/23/2007	56.6	56.6
			11/28/2007	26 J	26 J
			6/5/2008	ND<60	ND<60
			11/20/2008	ND<60	ND<60
			6/11/2009	22	22

MW-8	25	15 (60%)	7/20/1995		ND<60	ND<60
			8/24/1995	21 J	21 J	
			9/28/1995	33.6 J	33.6 J	
			10/26/1995	ND<60	ND<60	
			11/19/1996	ND<60	ND<60	
			12/19/1996	ND<60	ND<60	
			3/24/1997	ND<60	ND<60	
			9/24/1997	62	62	
			4/7/1998	150	150	
			9/23/1998	120	120	
			3/16/1999	ND<60	ND<60	
			9/23/1999	ND<60	ND<60	
			3/15/2000	ND<60	ND<60	
			9/24/2003	ND<60	ND<60	
			3/11/2004	ND<60	ND<60	
			10/12/2004	ND<60	ND<60	
			4/1/2005	ND<60	ND<60	
			10/25/2005	ND<60	ND<60	
			4/29/2006	ND<60	ND<60	
			11/18/2006	6.59 J	6.59 J	
			5/23/2007	51.6	51.6	
			11/28/2007	27 J	27 J	
			6/5/2008	8.7 J	8.7 J	
			11/20/2008	28 J	28 J	
			6/11/2009	ND<2.6	ND<2.6	
MW-7	25	13 (52%)	7/20/1995		ND<60	ND<60
			8/24/1995	40 J	40 J	
			9/28/1995	35 J	35 J	
			10/26/1995	ND<60	ND<60	
			11/19/1996	ND<60	ND<60	
			12/19/1996	ND<60	ND<60	
			3/24/1997	ND<60	ND<60	
			9/24/1997	79	79	
			4/7/1998	ND<60	ND<60	
			9/23/1998	95	95	
			3/16/1999	ND<60	ND<60	
			9/23/1999	5 J	5 J	
			3/15/2000	11 J	11 J	
			9/24/2003	180	180	
			3/11/2004	ND<60	ND<60	
			10/12/2004	ND<60	ND<60	
			4/1/2005	ND<60	ND<60	
			10/25/2005	ND<60	ND<60	
			4/29/2006	ND<60	ND<60	
			11/18/2006	5 J	5 J	
			5/23/2007	73.8	73.8	
			11/28/2007	ND<60	ND<60	
			6/5/2008	11.6 J	11.6 J	
			11/20/2008	76	76	
			6/11/2009	3.9 J	3.9 J	
MW-6	25	17 (68%)	7/20/1995		ND<60	ND<60
			8/24/1995	346	346	
			9/28/1995	9.5 J	9.5 J	
			10/26/1995	ND<60	ND<60	
			11/19/1996	ND<60	ND<60	
			12/19/1996	ND<60	ND<60	
			3/24/1997	ND<60	ND<60	
			9/24/1997	72	72	
			4/7/1998	75	75	
			9/23/1998	200	200	

		3/16/1999	ND<60	ND<60		
		9/23/1999	ND<60	ND<60		
		3/15/2000	ND<60	ND<60		
		9/24/2003	320	320		
		3/11/2004	ND<60	ND<60		
		10/12/2004	ND<60	ND<60		
		4/1/2005 ND<60	ND<60			
		10/25/2005	ND<60	ND<60		
		4/29/2006	ND<60	ND<60		
		11/18/2006	ND<60	ND<60		
		5/23/2007	ND<60	ND<60		
		11/28/2007	ND<60	ND<60		
		6/5/2008 7.99 J	7.99 J			
		11/20/2008	ND<60	ND<60		
		6/11/2009	18	18		
MW-12BR	15	12 (80%)	3/16/1999		ND<60	ND<60
		9/23/1999	ND<60	ND<60		
		3/15/2000	ND<60	ND<60		
		9/24/2003	ND<60	ND<60		
		3/11/2004	ND<60	ND<60		
		10/12/2004	ND<60	ND<60		
		4/1/2005 ND<60	ND<60			
		10/25/2005	ND<60	ND<60		
		4/29/2006	ND<60	ND<60		
		11/18/2006	6.33 J	6.33 J		
		5/23/2007	ND<60	ND<60		
		11/28/2007	ND<60	ND<60		
		6/5/2008 13.1 J	13.1 J			
		11/20/2008	ND<60	ND<60		
		6/11/2009	8.3 J	8.3 J		
MW-12AR	15	12 (80%)	3/16/1999		ND<60	ND<60
		9/23/1999	ND<60	ND<60		
		3/15/2000	ND<60	ND<60		
		9/24/2003	250	250		
		3/11/2004	ND<60	ND<60		
		10/12/2004	ND<60	ND<60		
		4/1/2005 ND<60	ND<60			
		10/25/2005	ND<60	ND<60		
		4/29/2006	ND<60	ND<60		
		11/18/2006	ND<60	ND<60		
		5/23/2007	12.6 J	12.6 J		
		11/28/2007	ND<60	ND<60		
		6/5/2008 ND<60	ND<60			
		11/20/2008	ND<60	ND<60		
		6/11/2009	4.5 J	4.5 J		
MW-11R 25	15 (60%)	7/20/1995		ND<60	ND<60	
		8/24/1995	34.1 J	34.1 J		
		9/28/1995	30.5	30.5		
		10/26/1995	ND<60	ND<60		
		11/19/1996	ND<60	ND<60		
		12/19/1996	ND<60	ND<60		
		3/24/1997	ND<60	ND<60		
		9/24/1997	92	92		
		4/7/1998 330	330			
		9/23/1998	110	110		
		3/16/1999	ND<60	ND<60		
		9/23/1999	27 J	27 J		
		3/15/2000	ND<60	ND<60		
		9/24/2003	60	60		

			3/11/2004	ND<60	ND<60	
			10/12/2004	ND<60	ND<60	
			4/1/2005 ND<60	ND<60		
			10/25/2005	ND<60	ND<60	
			4/29/2006	20 J	20 J	
			11/18/2006	ND<60	ND<60	
			5/23/2007	39.7	39.7	
			11/28/2007	ND<60	ND<60	
			6/5/2008 ND<60	ND<60		
			11/20/2008	ND<60	ND<60	
			6/11/2009	46	46	
MW-10	25	19 (76%)	7/20/1995		ND<60	ND<60
			8/24/1995	ND<60	ND<60	
			9/28/1995	ND<60	ND<60	
			10/26/1995	ND<60	ND<60	
			11/19/1996	ND<60	ND<60	
			12/19/1996	ND<60	ND<60	
			3/24/1997	110	110	
			9/24/1997	ND<60	ND<60	
			4/7/1998 150	150		
			9/23/1998	ND<60	ND<60	
			3/16/1999	ND<60	ND<60	
			9/23/1999	ND<60	ND<60	
			3/15/2000	ND<60	ND<60	
			9/24/2003	ND<60	ND<60	
			3/11/2004	ND<60	ND<60	
			10/12/2004	ND<60	ND<60	
			4/1/2005 ND<60	ND<60		
			10/25/2005	ND<60	ND<60	
			4/29/2006	ND<60	ND<60	
			11/18/2006	ND<60	ND<60	
			5/23/2007	62.4	62.4	
			11/28/2007	410	410	
			6/5/2008 10.8 J	10.8 J		
			11/20/2008	ND<60	ND<60	
			6/11/2009	28	28	

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Kruskal-Wallis Non-Parametric Test

Parameter: Zinc

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Kruskal Wallis Ranks

Background Wells

Well ID	Date	Result	Rank
MW-13	3/16/1999	ND<60	64.5
	9/23/1999	26 J	153
	3/15/2000	96	180
	9/24/2003	610	195
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	10.3 J	141
	5/23/2007	ND<60	64.5
	11/28/2007	ND<60	64.5
	6/5/2008	11.2 J	144
	11/20/2008	ND<60	64.5
	6/11/2009	14	148

Rank Sum = 1541.5
Rank Mean = 102.767

Background Rank Sum = 1541.5
Background Rank Mean = 102.767

Compliance Wells

Well ID	Date	Result	Rank
MW-9	7/20/1995	ND<60	64.5
	8/24/1995	33.1 J	160
	9/28/1995	ND<60	64.5
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	110	181
	9/24/1997	ND<60	64.5
	4/7/1998	ND<60	64.5
	9/23/1998	88	177
	3/16/1999	ND<60	64.5
	9/23/1999	5 J	131
	3/15/2000	ND<60	64.5
	9/24/2003	120	184
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	5.56 J	134
	5/23/2007	56.6	168
	11/28/2007	26 J	154
	6/5/2008	ND<60	64.5

	11/20/2008	ND<60	64.5
	6/11/2009	22	152

Rank Sum = 2473
Rank Mean = 98.92

MW-8	7/20/1995	ND<60	64.5
	8/24/1995	21 J	151
	9/28/1995	33.6 J	161
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	ND<60	64.5
	9/24/1997	62	170
	4/7/1998	150	186
	9/23/1998	120	185
	3/16/1999	ND<60	64.5
	9/23/1999	ND<60	64.5
	3/15/2000	ND<60	64.5
	9/24/2003	ND<60	64.5
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	6.59 J	136
	5/23/2007	51.6	167
	11/28/2007	27 J	155
	6/5/2008	8.7 J	139
	11/20/2008	28 J	157
	6/11/2009	ND<2.6	64.5

Rank Sum = 2574.5
Rank Mean = 102.98

MW-7	7/20/1995	ND<60	64.5
	8/24/1995	40 J	165
	9/28/1995	35 J	163
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	ND<60	64.5
	9/24/1997	79	176
	4/7/1998	ND<60	64.5
	9/23/1998	95	179
	3/16/1999	ND<60	64.5
	9/23/1999	5 J	132
	3/15/2000	11 J	143
	9/24/2003	180	188
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	5 J	133
	5/23/2007	73.8	173
	11/28/2007	ND<60	64.5
	6/5/2008	11.6 J	145
	11/20/2008	76	175
	6/11/2009	3.9 J	129

Rank Sum = 2739.5
Rank Mean = 109.58

MW-6	7/20/1995	ND<60	64.5

	8/24/1995	346	193
	9/28/1995	9.5 J	140
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	ND<60	64.5
	9/24/1997	72	172
	4/7/1998	75	174
	9/23/1998	200	189
	3/16/1999	ND<60	64.5
	9/23/1999	ND<60	64.5
	3/15/2000	ND<60	64.5
	9/24/2003	320	191
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	ND<60	64.5
	5/23/2007	ND<60	64.5
	11/28/2007	ND<60	64.5
	6/5/2008	7.99 J	137
	11/20/2008	ND<60	64.5
	6/11/2009	18	149

Rank Sum = 2441.5
Rank Mean = 97.66

MW-12BR	3/16/1999	ND<60	64.5
	9/23/1999	ND<60	64.5
	3/15/2000	ND<60	64.5
	9/24/2003	ND<60	64.5
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	6.33 J	135
	5/23/2007	ND<60	64.5
	11/28/2007	ND<60	64.5
	6/5/2008	13.1 J	147
	11/20/2008	ND<60	64.5
	6/11/2009	8.3 J	138

Rank Sum = 1194
Rank Mean = 79.6

MW-12AR	3/16/1999	ND<60	64.5
	9/23/1999	ND<60	64.5
	3/15/2000	ND<60	64.5
	9/24/2003	250	190
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	ND<60	64.5
	5/23/2007	12.6 J	146
	11/28/2007	ND<60	64.5
	6/5/2008	ND<60	64.5
	11/20/2008	ND<60	64.5
	6/11/2009	4.5 J	130

Rank Sum = 1240
Rank Mean = 82.6667

MW-11R	7/20/1995	ND<60	64.5
	8/24/1995	34.1 J	162
	9/28/1995	30.5	159
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	ND<60	64.5
	9/24/1997	92	178
	4/7/1998	330	192
	9/23/1998	110	182
	3/16/1999	ND<60	64.5
	9/23/1999	27 J	156
	3/15/2000	ND<60	64.5
	9/24/2003	60	169
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	20 J	150
	11/18/2006	ND<60	64.5
	5/23/2007	39.7	164
	11/28/2007	ND<60	64.5
	6/5/2008	ND<60	64.5
	11/20/2008	ND<60	64.5
	6/11/2009	46	166

Rank Sum = 2645.5
Rank Mean = 105.82

MW-10	7/20/1995	ND<60	64.5
	8/24/1995	ND<60	64.5
	9/28/1995	ND<60	64.5
	10/26/1995	ND<60	64.5
	11/19/1996	ND<60	64.5
	12/19/1996	ND<60	64.5
	3/24/1997	110	183
	9/24/1997	ND<60	64.5
	4/7/1998	150	187
	9/23/1998	ND<60	64.5
	3/16/1999	ND<60	64.5
	9/23/1999	ND<60	64.5
	3/15/2000	ND<60	64.5
	9/24/2003	ND<60	64.5
	3/11/2004	ND<60	64.5
	10/12/2004	ND<60	64.5
	4/1/2005	ND<60	64.5
	10/25/2005	ND<60	64.5
	4/29/2006	ND<60	64.5
	11/18/2006	ND<60	64.5
	5/23/2007	62.4	171
	11/28/2007	410	194
	6/5/2008	10.8 J	142
	11/20/2008	ND<60	64.5
	6/11/2009	28	158

Rank Sum = 2260.5
Rank Mean = 90.42

Calculation Results:

Kruskal-Wallis H Statistic = 4.99453
Kruskal-Wallis H Statistic (adjusted for tied non-detects) = 6.96413

95% Confidence comparison value is 15.5073 at 8 degrees of freedom
4.99453 < 15.5073 indicating no significant group difference at 5% significance level
6.96413 < 15.5073 indicating no significant group difference at 5% significance level when adjusted for ties