

ANNUAL GROUNDWATER MONITORING REPORT

**HAZARDOUS WASTE MANAGEMENT UNITS 4, 13, AND 39
CALENDAR YEAR 2002**

**RADFORD ARMY AMMUNITION PLANT
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1.0 INTRODUCTION

This document presents the Annual Groundwater Monitoring Report for Hazardous Waste Management Units (HWMUs) 4, 13, and 39 for calendar year 2002, and has been compiled in accordance with 40 CFR 265.90-94 (Subpart F). The Annual Groundwater Monitoring Report presents the following set of information for each Unit: basic information and unit identification, a description of the groundwater monitoring plan, a discussion of groundwater movement, updated potentiometric maps, a table of groundwater elevations, and detailed statistical evaluations of the analytical data. The report evaluates the analytical data from the four quarterly sampling events for the year 2002 for each Unit.

1.1 HWMU-4

HWMU-4 does not have a Post-Closure Care Permit; therefore, the Unit is in interim status. HWMU 4 is cleaned closed for soils. HWMU-4 was operated from 1971 to 1986, and was closed in 1989; the Unit has been in interim status since that time. The post-closure care period for the Unit began with the closure in 1989, and will continue until 2019 (30 years). Part of the post-closure care period will be completed during the interim status period. A demonstration of Clean Closure for groundwater was submitted to VDEQ March 21, 2000.

1.2 HWMU-13

HWMU-13 is the waste propellant burning ground. Material that cannot be burned in the Explosive Waste Incinerators is open burned at this Unit. HWMU-13 is in the process of obtaining an operational permit; therefore, groundwater monitoring to-date has been conducted in accordance with 40 CFR Part 265 (Interim Status Standards).

1.3 HWMU-39

HWMU-39 does not have a Post-Closure Care Permit; therefore, the Unit is in interim status. HWMU-39 was operated from 1979 to May 1992, and was cleaned closed for soils in 1998; the Unit has been in interim status since that time. The post-closure care period for the Unit began with the closure in 1998, and will continue until 2028 (30 years). Part of the post-closure care period will be completed during the interim status period.

2.0 HWMU-4 ANNUAL GROUNDWATER MONITORING REPORT

2.1 WASTE MANAGEMENT UNIT INFORMATION

Unit Name: Hazardous Waste Management Unit 4 (HWMU-4)
Owner/Operator: United States Army / Alliant Ammunition and Powder Company, LLC
Unit Location: Radford AAP Main Plant Area, Radford, Virginia
Class: Hazardous Waste Management Unit
Type: Former Acid and Wastewater Equalization Basin

2.2 GROUNDWATER MONITORING PLAN

Monitoring Network

Upgradient Well: 4P3
Downgradient Wells: 4W2B, 4W4B, 4MW7, 4WC9B, 4WC21, 4WC22, 4WC23, 4WC32, 4WC41, 4WC42, 4WC43, 4W5A, 4W6A, 4W7A
Observation Well: 4WC8B
(static water level measurements only)

Monitoring Status: Groundwater Quality Assessment Program

Data Collection Status:

- Quarterly Event February 13, 15 and 18, 2002
- Quarterly Event April 15, 17, 18 and 22, 2002
- Quarterly Event August 13, 14 and 16, 2002
- Quarterly Event October 24, 31 and November 4, 2002

2.3 GROUNDWATER MOVEMENT

The monitoring wells at HWMU-4 are screened entirely within either carbonate bedrock, weathered carbonate bedrock residuum or alluvium, or across the interfaces between two of the listed strata. The static water level measurements gathered during the 2002 quarterly monitoring events are summarized in **Table 1**. Groundwater fluctuations ranged from 0.5 to 4 feet annually. As shown on the HWMU-4 Potentiometric Surface Map for Fourth Quarter 2002 (**Appendix A-1**), groundwater movement beneath the site is generally to the northeast.

For the purposes of this report, Darcian flow conditions were assumed for the alluvium, residuum, and karst carbonate bedrock beneath HWMU-4. As a result, the groundwater velocities were calculated by multiplying the hydraulic conductivity (determined from previously conducted slug tests) by the average hydraulic gradient across the site, and dividing by an assumed effective porosity for the aquifer materials. The average hydraulic gradient was

determined by superimposing three evenly spaced flow line vectors over the Potentiometric Surface Map, measuring their lengths, calculating the head differential over the distances measured, and dividing the head differential by the length of the flow line vectors. The three calculated gradients were then averaged to a single value. Using this method, the average groundwater hydraulic gradient across the site based on Fourth Quarter 2002 groundwater elevations was calculated to be 0.054 ft/ft. Historical slug test data for the site yielded an average hydraulic conductivity of 1.18×10^{-5} ft/second. This value is consistent with literature values for karst carbonate rock and for clayey, silty sand and gravel alluvium and residuum (Domenico and Schwartz, 1990).

The estimated groundwater velocity across the site was calculated to be approximately 0.14 ft/day or 51 ft/year, based on the following:

- an average hydraulic conductivity of 1.18×10^{-5} ft/second;
- an average hydraulic gradient of 0.054 ft/ft; and
- an assumed effective porosity of 0.40, based on a representative range of porosities for karst carbonate rock, weathered residuum, and clayey, silty sand and gravel alluvium (Domenico and Schwartz, 1990).

The actual groundwater flow velocities in the carbonate bedrock may vary as much as one to two orders of magnitude from the velocity presented above, depending on water level conditions and the distribution of karst conduits.

2.4 GROUNDWATER ANALYTICAL DATA EVALUATION

The groundwater samples collected during the Year 2002 quarterly events were analyzed for the 32 constituents for which HWMU-4 is currently monitored. The constituents detected during the 2002 quarterly events are summarized in **Table 2**. The laboratory analytical results for the Year 2002 monitoring events are included in **Appendix A-2**.

2.4.1 HWMU-4 Groundwater Background Concentrations

Background concentrations were calculated for applicable constituents in the groundwater monitoring program using the 1996-2002 quarterly analytical data from upgradient well 4P3. The background concentration calculations were based on site wide 95% confidence, 95% coverage upper prediction intervals. When adjusted for multiple comparisons of the background data, the minimum required false positive rate was well below 1%. A 99% confidence level (0.01 false positive rate) was used for all individual comparisons. These coverage limits were only achieved for constituent data on which parametric prediction intervals were performed. In cases where non-parametric prediction intervals were computed to determine the background levels, the confidence level and error rate were calculated based on the number of background data points available and number of future comparisons. Because the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and an inadequate number of background data, the number of resampling events required was adjusted to account for the high error rates inherent in those situations. No confidence levels were defined in cases where

the background data were 100% non-detected; the detection limits of such constituents were used to define their respective background levels.

2.4.2 HWMU-4 Statistical Analysis

Statistical evaluations were performed for HWMU-4 as specified in VHWMR 9 VAC 20-60-570. The statistical evaluations were performed in accordance with the procedures and guidance provided in the following documents:

- Virginia Hazardous Waste Management Regulations, 9 VAC 20-60-790 H and I;
- VDEQ Guidance for statistical analysis titled "Data Analysis Plan," undated;
- Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, April 1989;
- Addendum to Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, July 1992; and
- Statistical Methods for Groundwater Monitoring, Gibbons, R.D., 1994.

Statistical threshold values were computed for the ten (10) constituents that were detected in the downgradient monitoring wells at HWMU-4 during Fourth Quarter 2002 (**Table 2**). The 1996-2002 quarterly monitoring data for upgradient well 4P3 were used for the purpose of calculating the statistical threshold values. Comparison statistical analyses were performed for the constituents which were detected in any downgradient well during Fourth Quarter 2002.

2.4.3 Background Data and Statistical Comparisons

Statistical analyses were performed using the 1996-2002 quarterly analytical results from upgradient well 4P3 as background data. Based on the percentage of non-detects and the distribution of the background data, methods of statistical comparisons varied. Background average, standard deviation and other descriptive statistical data were computed for all constituents and are presented in **Appendix A-3**.

Non-parametric prediction intervals were computed for constituents for which the data from background well 4P3 satisfied one of the following two criteria, per VDEQ regulations and guidance as well as USEPA guidance:

- Percentage of non-detects was greater than or equal to 50 and less than 100; or
- Percentage of non-detects was less than 50, but data was not normally distributed.

Each of the ten constituents satisfied one of the above two criteria. Therefore, non-parametric upper prediction limits (UPLs) were computed for all ten constituents. The background threshold levels for these constituents were set as equal to their UPLs, with one exception. For pH, a two-sided nonparametric prediction interval was computed; therefore, the BTL for pH consisted of a range between the lower prediction limit (LPL) and the upper

prediction limit. The confidence level and false positive rate were calculated based on the number of background data points available and number of future comparisons. For all constituents except specific conductivity and pH, the confidence level was determined to be equal to 0.968, and the false positive rate was equal to 0.032. For specific conductivity and pH, the confidence level was determined to be equal to 0.957, and the false positive rate was equal to 0.043. Since the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and inadequate number of background data, the number of resampling events required was adjusted to account for the high error rates inherent in those situations. The number of confirmation resamples required for all constituents is 1. The background and relevant statistical data for these constituents are summarized below. Associated statistical computations are presented in **Appendix A-3**.

BTL = Upper Prediction Limit (exception pH) of Non-parametric Prediction Interval w/false positive rate=0.032 (false positive rate=0.043 for specific conductivity and pH) BTL for pH = LPL – UPL of two-sided Prediction Interval				
Parameter	Sample Size	% Non- Detects	DL (µg/l)	BTL (µg/l)
Barium	27	0	10	348
Chromium	27	56	5	22.1
Copper	27	48	5	31.8
Lead	27	41	1	38
Nickel	27	89	10	22
Zinc	27	48	10	139
Chloroform	27	93	1	1.6
TOC	27	81	1000	6125
Specific conductivity	23	0	1 µS/cm	3393 µS/cm
pH	23	0	0.1 pH units	6.2 to 8.8 pH units

2.4.4 Results of Statistical Comparisons

As shown in the table below, chloroform was the only constituent detected during the Fourth Quarter 2002 event at concentrations exceeding its background threshold level (BTL). The chloroform BTL was exceeded in four monitoring wells (4W6A, 4WC21, 4WC41, and 4WC43). The table below also compares the detected concentration with the regulatory concentration limit for chloroform.

Parameter (BTL)	Monitoring Well	Concentration (µg/l)	Regulatory Limit (µg/l)
Chloroform (1.6 µg/l)	4W6A	1.72	80 ^a
Chloroform (1.6 µg/l)	4WC21	1.64	80 ^a
Chloroform (1.6 µg/l)	4WC41	2.22	80 ^a
Chloroform (1.6 µg/l)	4WC43	1.80	80 ^a

Notes:

^a Maximum Contaminant Level (MCL), USEPA Drinking Water Regulations and Health Advisories, 2002.

As shown on the table above, the detected chloroform concentrations that exceeded the site-specific BTL were well below the regulatory concentration limit.

Any HWMU-4 target constituents not listed above were not detected in the downgradient monitoring wells at concentrations exceeding their respective BTLs.

3.0 HWMU-13 ANNUAL GROUNDWATER MONITORING REPORT

3.1 WASTE MANAGEMENT UNIT INFORMATION

Unit Name: Hazardous Waste Management Unit 13 (HWMU-13)
Owner/Operator: United States Army / Alliant Ammunition and Powder Company, LLC
Unit Location: Radford AAP Main Plant Area, Radford, Virginia
Class: Hazardous Waste Management Unit
Type: Waste Propellant Burning Ground

3.2 GROUNDWATER MONITORING PLAN

Monitoring Network

Upgradient Well: 13MW1, 13MW2
Downgradient Wells: 13MW3, 13MW4, 13MW5, 13MW6, 13MW7

Monitoring Status: Detection Groundwater Monitoring Program

Data Collection Status:

- Quarterly Event March 5-6, 2002
- Quarterly Event May 9 and 13, 2002
- Quarterly Event September 11, 12 and 17, 2002
- Quarterly Event November 13-14, 2002

3.3 GROUNDWATER MOVEMENT

The static water level measurements gathered at HWMU-13 during the 2002 quarterly monitoring events are summarized in **Table 3**. Groundwater fluctuations ranged from 1.5 to 5 feet annually. As shown on the HWMU-13 Potentiometric Surface Map for Third Quarter 2002 (**Appendix B-1**), groundwater movement beneath the site is generally to the south toward the New River.

For the purposes of this report, Darcian flow conditions were assumed for the alluvium and karst carbonate bedrock beneath HWMU-13. As a result, the groundwater velocities were calculated by multiplying the hydraulic conductivity (determined from previously conducted slug tests) by the average hydraulic gradient across the site, and dividing by an assumed effective porosity for the aquifer materials. The average hydraulic gradient was determined by superimposing three evenly spaced flow line vectors over the Potentiometric Surface Map, measuring their lengths, calculating the head differential over the distances measured, and dividing the head differential by the length of the flow line vectors. The three calculated gradients were then averaged to a single value. Using this method, the average groundwater

hydraulic gradient across the site based on Third Quarter 2002 groundwater elevations was calculated to be 0.005 ft/ft. Historical slug test data for the site yielded an average hydraulic conductivity of 6.56×10^{-5} ft/second. This value is consistent with literature values for karst carbonate rock and for clayey, silty sand and gravel alluvium (Domenico and Schwartz, 1990).

The estimated groundwater velocity across the site was calculated to be approximately 7.08×10^{-2} ft/day or 26 ft/year, based on the following:

- an average hydraulic conductivity of 6.56×10^{-5} ft/second;
- an average hydraulic gradient of 0.005 ft/ft; and
- an assumed effective porosity of 0.40, based on a representative range of porosities for karst carbonate rock and clayey, silty sand and gravel alluvium (Domenico and Schwartz, 1990).

The actual groundwater flow velocities in the carbonate bedrock may vary as much as one to two orders of magnitude from the velocity presented above, depending on water level conditions and the distribution of karst conduits.

3.4 GROUNDWATER ANALYTICAL DATA EVALUATION

The groundwater samples collected during the Year 2002 quarterly events were analyzed for the 65 constituents for which HWMU-13 is currently monitored. The constituents detected during the 2002 quarterly events are summarized in **Table 4**. The laboratory analytical results for the Year 2002 monitoring events are included in **Appendix B-2**.

3.4.1 HWMU-13 Groundwater Background Concentrations

Background concentrations were calculated for each constituent in the groundwater monitoring program using the 1997-2001 quarterly analytical data from upgradient wells 13MW1 and 13MW2. The background concentration calculations were based on site wide 95% confidence, 95% coverage upper prediction intervals. When adjusted for multiple comparisons of the background data, the minimum required false positive rate was approximately 1%. Therefore, a 99% confidence level (0.01 false positive rate) was used for all individual comparisons. These coverage limits were only achieved for constituent data on which parametric prediction intervals were performed. In cases where non-parametric prediction intervals were computed to determine the background levels, the confidence level and error rate were calculated based on the number of background data points available and number of future comparisons. Because the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and an inadequate number of background data, the number of resampling events required was adjusted to account for the high error rates inherent in those situations. No confidence levels were defined in cases where the background data were 100% non-detected; the detection limits of such constituents were used to define their respective background levels.

3.4.2 HWMU-13 Statistical Analysis

Statistical evaluations were performed for HWMU-13 as specified in VHWMR 9 VAC 20-60-570. The statistical evaluations were performed in accordance with the procedures and guidance provided in the following documents:

- Virginia Hazardous Waste Management Regulations, 9 VAC 20-60-790 H and I;
- VDEQ Guidance for statistical analysis titled "Data Analysis Plan," undated;
- Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, April 1989;
- Addendum to Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, July 1992; and
- Statistical Methods for Groundwater Monitoring, Gibbons, R.D., 1994.

Statistical threshold values were computed for the thirteen (13) constituents that were detected in the downgradient monitoring wells at HWMU-13 during Fourth Quarter 2002 (**Table 4**). The 1998-2002 quarterly monitoring data for upgradient wells 13MW1 and 13MW2 were used for the purpose of calculating the statistical threshold values. Comparison statistical analyses were performed for the constituents which were detected in any downgradient well during Fourth Quarter 2002.

3.4.3 Background Data and Statistical Comparisons

Statistical analyses were performed using the 1998-2002 quarterly analytical results from upgradient wells 13MW1 and 13MW2 as background data. Based on the percentage of non-detects and the distribution of the background data, methods of statistical comparisons varied. Background average, standard deviation and other descriptive statistical data were computed for all constituents and are presented in **Appendix B-3**.

Non-parametric prediction intervals were computed for constituents for which the data from the background wells satisfied one of the following two criteria, per VDEQ regulations and guidance as well as USEPA guidance:

- Percentage of non-detects was greater than or equal to 50 and less than 100; or
- Percentage of non-detects was less than 50, but data was not normally distributed.

Non-parametric upper prediction limits (UPL) were computed for nine constituents which met one of the above two criteria. The background threshold levels for these constituents were set as equal to their UPLs. The confidence level and false positive rate were calculated based on the number of background data points available and number of future comparisons. For all constituents the confidence level was determined to be equal to 0.994, and the false positive rate was equal to 0.006. Since the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and inadequate number of background data, the number of resampling

events required was adjusted to account for the high error rates inherent in those situations. The number of confirmation resamples required for all constituents is 1. The background and relevant statistical data for these constituents are summarized below. Associated statistical computations are presented in **Appendix B-3**.

BTL = Upper Prediction Limit of Non-parametric Prediction Interval w/false positive rate=0.006				
Parameter	Sample Size	% Non-Detects	DL (µg/l)	BTL (µg/l)
Aluminum	40	23	100	6090
Barium	40	0	10	255
Magnesium	40	0	7	55,200
Sodium	40	0	10	19,000
Zinc	40	55	10	42
Chloride	40	0	1,000	31,700
Sulfate	40	0	5,000	73,900
TOC	40	88	1,000	8,625
Specific conductivity	40	0	1 µS/cm	6,870 µS/cm

The following constituents exhibited normally distributed background data with less than 25% non-detects. One sided parametric prediction intervals were computed on the background data for all of these constituents. The UPLs for these constituents were set as their respective BTLs, with one exception. For pH, a two-sided parametric prediction interval was computed; therefore, the BTL for pH consisted of a range between the lower prediction limit (LPL) and the upper prediction limit. The background concentration calculations were based on site wide 95% confidence, 95% coverage upper prediction intervals. When adjusted for multiple comparisons of the background data, the minimum required false positive rate was approximately 1% (0.01). A 99% confidence level (0.01 false positive rate) was used for all individual comparisons, which with the most conservative assumptions provided a site-wide false positive rate of 0.05 for all constituents. The background and relevant statistical data for these constituents are summarized below. The prediction interval computations for these constituents are presented in **Appendix B-3**.

BTL = UPL of one-sided Prediction Interval (exception pH) w/site-wide false positive rate=0.05 (individual comparisons false positive rate=0.01) BTL for pH = LPL – UPL of two-sided Prediction Interval				
Parameter	Sample Size	% Non-Detects	DL (µg/l)	BTL (µg/l)
Calcium	40	0	80	107,917
Fluoride	40	0	100	325.8
Nitrate	40	3	100	1,158
pH	40	0	0.1 pH units	6.1 to 7.4 pH units

3.4.4 Results of Statistical Comparisons

The following table lists the constituents which were detected during the Fourth Quarter 2002 event at concentrations exceeding their respective background threshold levels (BTLs), and the downgradient wells in which they were detected. The table also compares the detected concentrations with the regulatory concentration limits for those constituents.

Parameter (BTL)	Monitoring Well	Concentration (µg/l)	Regulatory Limit (µg/l)
Fluoride (325.8 µg/l)	13MW6	440	2,000 ^a
Nitrate (1,158 µg/l)	13MW3	2,440	10,000 ^b
Nitrate (1,158 µg/l)	13MW4	1,850	10,000 ^b
Nitrate (1,158 µg/l)	13MW7	2,190	10,000 ^b
Sulfate (73,900 µg/l)	13MW3	109,000	250,000 ^a
Sulfate (73,900 µg/l)	13MW6	168,000	250,000 ^a
Sulfate (73,900 µg/l)	13MW7	112,000	250,000 ^a

Notes:

^a Secondary Drinking Water Regulations, USEPA Drinking Water Regulations and Health Advisories, 2002.

^b Maximum Contaminant Level (MCL), USEPA Drinking Water Regulations and Health Advisories, 2002.

Fluoride, nitrate, and sulfate are not hazardous by definition or characteristic. They are not listed as indicator parameters in 40 CFR 265.92(b)(3). Furthermore, the detected fluoride, nitrate, and sulfate concentrations that exceeded their site-specific BTLs were well below their respective regulatory concentration limits. Therefore, while noted, there is no requirement or intention to perform additional sampling or reporting associated with these parameters.

Any HWMU-13 target constituents not listed above were not detected in the downgradient monitoring wells at concentrations exceeding their respective BTLs.

4.0 HWMU-39 ANNUAL GROUNDWATER MONITORING REPORT

4.1 WASTE MANAGEMENT UNIT INFORMATION

Unit Name: Hazardous Waste Management Unit 39 (HWMU-39)
Owner/Operator: United States Army / Alliant Ammunition and Powder Company, LLC
Unit Location: Radford AAP Main Plant Area, Radford, Virginia
Class: Hazardous Waste Management Unit
Type: Closed Incinerator Spray Pond

4.2 GROUNDWATER MONITORING PLAN

Monitoring Network

Upgradient Well: 39MW1, 39MW4
Downgradient Wells: 39MW3, 39MW5, 39MW6

Monitoring Status: Groundwater Quality Assessment Program

Data Collection Status:

- Quarterly Event March 7, 2002
- Quarterly Event May 14, 2002
- Quarterly Event September 18, 2002
- Quarterly Event December 16, 2002

4.3 GROUNDWATER MOVEMENT

The monitoring wells at HWMU-39 are screened within carbonate bedrock. The static water level measurements gathered at HWMU-39 during the 2002 quarterly monitoring events are summarized in **Table 5**. As shown on the HWMU-39 Potentiometric Surface Map for Fourth Quarter 2002 (**Appendix C-1**), groundwater beneath appears to flow radially from the area around upgradient monitoring well 39MW4.

For the purposes of this report, Darcian flow conditions were assumed for the karst carbonate bedrock beneath HWMU-39. As a result, the groundwater velocities were calculated by multiplying an assumed hydraulic conductivity by the average hydraulic gradient across the site, and dividing by an assumed effective porosity for the aquifer materials. The average hydraulic gradient was determined by superimposing three evenly spaced flow line vectors over the Potentiometric Surface Map, measuring their lengths, calculating the head differential over the distances measured, and dividing the head differential by the length of the flow line vectors. The three calculated gradients were then averaged to a single value. Using this method, the average groundwater hydraulic gradient

across the site based on Fourth Quarter 2002 groundwater elevations was calculated to be 0.016 ft/ft. A representative range of hydraulic conductivities for karst limestone yielded an assumed hydraulic conductivity of 3.28×10^{-4} ft/second (Domenico and Schwartz, 1990).

“The estimated groundwater velocity across the site was calculated to be approximately 1.51 ft/day or 551 ft/year, based on the following:

- an assumed hydraulic conductivity of 3.28×10^{-4} ft/second;
- an average hydraulic gradient of 0.016 ft/ft; and
- an assumed effective porosity of 0.30, based on a representative range of porosities for karst carbonate rock (Domenico and Schwartz, 1990).

The actual groundwater flow velocities in the carbonate bedrock may vary as much as one to two orders of magnitude from the velocity presented above, depending on water level conditions and the distribution of karst conduits.

4.4 GROUNDWATER ANALYTICAL DATA EVALUATION

The groundwater samples collected during the Year 2002 quarterly events were analyzed for the 39 constituents for which HWMU-39 is currently monitored. The constituents detected during the 2002 quarterly events are summarized in **Table 6**. The laboratory analytical results for the Year 2002 monitoring events are included in **Appendix C-2**.

4.4.1 HWMU-39 Groundwater Background Concentrations

Background concentrations were calculated for each constituent in the groundwater monitoring program using the 1998-2002 quarterly analytical data from upgradient wells 39MW1 and 39MW4. The background concentration calculations were based on site wide 95% confidence, 95% coverage upper prediction intervals. When adjusted for multiple comparisons of the background data, the minimum required false positive rate was approximately 1%. A 99% confidence level (0.01 false positive rate) was used for all individual comparisons. These coverage limits were only achieved for constituent data on which parametric prediction intervals were performed. In cases where non-parametric prediction intervals were computed to determine the background levels, the confidence level and error rate were calculated based on the number of background data points available and number of future comparisons. Because the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and an inadequate number of background data, the number of resampling events required was adjusted to account for the high error rates inherent in those situations. No confidence levels were defined in cases where the background data were 100% non-detected; the detection limits of such constituents were used to define their respective background levels.

4.4.2 HWMU-39 Statistical Analysis

Statistical evaluations were performed for HWMU-39 as specified in VHWMR 9 VAC 20-60-570. The statistical evaluations were performed in accordance with the procedures and guidance provided in the following documents:

- Virginia Hazardous Waste Management Regulations, 9 VAC 20-60-790 H and I;
- VDEQ Guidance for statistical analysis titled "Data Analysis Plan," undated;
- Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, April 1989;
- Addendum to Interim Final Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, July 1992; and
- Statistical Methods for Groundwater Monitoring, Gibbons, R.D., 1994.

Statistical threshold values were computed for the thirteen (13) constituents that were detected in the downgradient monitoring wells at HWMU-39 during Fourth Quarter 2002 (**Table 6**). The 1998-2002 quarterly monitoring data for upgradient wells 39MW1 and 39MW4 were used for the purpose of calculating the statistical threshold values. Comparison statistical analyses were performed for the constituents which were detected in any downgradient well during Fourth Quarter 2002.

4.4.3 Background Data and Statistical Comparisons

Statistical analyses were performed using the 1998-2002 quarterly analytical results from upgradient wells 39MW1 and 39MW4 as background data. Based on the percentage of non-detects and the distribution of the background data, methods of statistical comparisons varied. Background average, standard deviation and other descriptive statistical data were computed for all constituents and are presented in **Appendix C-3**.

Non-parametric prediction intervals were computed for constituents for which the data from the background wells satisfied one of the following two criteria, per VDEQ regulations and guidance as well as USEPA guidance:

- Percentage of non-detects was greater than or equal to 50 and less than 100; or
- Percentage of non-detects was less than 50, but data was not normally distributed.

Non-parametric upper prediction limits (UPL) were computed for eleven (11) constituents which met one of the above two criteria. The background threshold levels for these constituents were set as equal to their UPLs, with one exception. For pH, a two-sided nonparametric prediction interval was computed; therefore, the BTL for pH consisted of a range between the lower prediction limit (LPL) and the upper prediction limit. The confidence level and false positive rate were calculated based on the number of background data points available and number of future comparisons. For all constituents except specific conductivity and pH, the

confidence level was determined to be equal to 0.993, and the false positive rate was equal to 0.007. Since the upper control limit of a non-parametric interval cannot be adjusted for multiple comparisons and inadequate number of background data, the number of resampling events required was adjusted to account for the high error rates inherent in those situations. The minimum number of confirmation resamples required for all constituents is 1. The background and relevant statistical data for these constituents are summarized below. Associated statistical computations are presented in **Appendix C-3**.

BTL = Upper Prediction Limit (exception pH) of Non-parametric Prediction Interval w/false positive rate=0.010 BTL for pH = LPL – UPL of two-sided Prediction Interval				
Parameter	Sample Size	% Non-Detects	DL (µg/l)	BTL (µg/l)
Barium	28	0	10	249
Chromium	28	32	5	71
Nickel	28	83	10	63
Alpha emission	28	36	1 pCi/l	53 pCi/l
Beta emission	28	14	1 pCi/l	115 pCi/l
Radium	28	75	1 pCi/l	5 pCi/l
Chloride	28	4	1,000	12,900
Fluoride	28	29	100	410
Sulfate	28	4	5,000	100,000
Specific conductivity	27	0	1 µS/cm	3,900 µS/cm
pH	27	0	0.1 pH units	6.3 to 8.5 pH units

The following constituents exhibited normally distributed background data with less than 25% non-detects. One sided parametric prediction intervals were computed on the background data for all of these constituents. The UPLs for these constituents were set as their respective BTLs. The background concentration calculations were based on a site wide 95% confidence, 95% coverage upper prediction intervals. When adjusted for multiple comparisons of the background data, the minimum required false positive rate was approximately 1% (0.01). A 99% confidence level (0.01 false positive rate) was used for all individual comparisons, which with the most conservative assumptions provided a site-wide false positive rate of 0.05 for all constituents. The background and relevant statistical data for these constituents are summarized below. The prediction interval computations for these constituents are presented in **Appendix C-3**.

BTL = UPL of one-sided Prediction Interval w/site-wide false positive rate=0.05 (individual comparisons false positive rate=0.01)				
Parameter	Sample Size	% Non-Detects	DL (µg/l)	BTL (µg/l)
Sodium	28	11	10	15,801
Nitrate	28	4	100	2,049

4.4.4 Results of Statistical Comparisons

The following table lists the constituents which were detected during the Fourth Quarter 2002 event at concentrations exceeding their respective background threshold levels (BTLs), and the downgradient wells in which they were detected. The table also compares the detected concentrations with the regulatory concentration limits for those constituents.

Parameter (BTL)	Monitoring Well	Concentration (µg/l)	Regulatory Limit (µg/l)
Chromium (71 µg/l)	39MW3	96.8	100 ^a
Nickel (63 µg/l)	39MW3	88.7	313 ^b
Nitrate (1,990 µg/l)	39MW3	2,640	10,000 ^a
Sodium (15,724 µg/l)	39MW3	29,800	na

Notes:

^a Maximum Contaminant Level (MCL), USEPA Drinking Water Regulations and Health Advisories, 2002.

^b VDEQ Alternate Concentration Limit (ACL), August 2001.

na: Not applicable. USEPA Drinking Water Regulations and Health Advisories (2002) list a draft non-regulatory Drinking Water Advisory of 20,000 µg/l for sodium based on the requirements of a 500 mg/day restricted sodium diet.

The detected constituents chromium and nickel are commonly observed naturally occurring minor elements in groundwater. Therefore, statistically significant increases in chromium and nickel concentrations in downgradient wells relative to background are likely the result of natural variations in trace element distribution in groundwater. In addition, the detected chromium and nickel concentrations that exceeded their site-specific BTLs were well below their respective regulatory concentration limits.

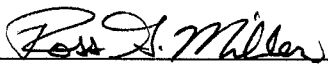
Nitrate and sodium are not hazardous by definition or characteristic. They are not listed as indicator parameters in 40 CFR 265.92(b)(3). Furthermore, the detected nitrate concentration that exceeded the site-specific BTL was well below the regulatory concentration limit. Therefore, while noted, there is no requirement or intention to perform additional sampling or reporting associated with these parameters.

Any HWMU-39 target constituents not listed above were not detected in the downgradient monitoring wells at concentrations exceeding their respective BTLs.

SIGNATURE/CERTIFICATION

Prepared by:

Name: _____ Ross G. Miller, Project Hydrogeologist _____

Signature: _____  _____

Company: _____ Draper Aden Associates _____

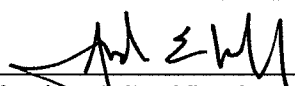
Address: _____ 2206 South Main Street _____

City/State/Zip: _____ Blacksburg, Virginia 24060-6600 _____

Virginia Professional Certification:

I certify that I have prepared or supervised preparation of the attached report, that it has been prepared in accordance with industry standards and practices, and that the information contained herein is truthful and accurate to the best of my knowledge.

Name: _____ Andrew E. Kassoff, Senior Hydrogeologist _____

Signature: _____  _____

Virginia Professional Certification Type and Number: _____ PG 873 _____

Company: _____ Draper Aden Associates _____

Address: _____ 2206 South Main Street _____

City/State/Zip: _____ Blacksburg, Virginia 24060-6600 _____

TABLES

TABLE 1
HWMU-4
GROUNDWATER ELEVATIONS - 2002
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

MONITORING WELL ID	ELEVATION TOP OF WELL	FIRST QUARTER 2002		SECOND QUARTER 2002		THIRD QUARTER 2002		FOURTH QUARTER 2002	
		DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV
4P-3	1754.57	6.00	1748.57	5.65	1748.92	6.00	1748.57	5.60	1748.97
4WC9B	1729.40	17.01	1712.39	17.83	1711.57	18.27	1711.13	17.38	1712.02
4WC8B	1740.28	NM	NM	NM	NM	NM	NM	NM	NM
4W4B	1729.50	21.35	1708.15	20.76	1708.74	21.55	1707.95	21.14	1708.36
4MW7	1725.00	14.66	1710.34	14.60	1710.40	14.80	1710.20	14.60	1710.40
4W2B	1735.50	21.74	1713.76	21.00	1714.50	21.74	1713.76	21.24	1714.26
4WC2-1	1740.56	24.82	1715.74	24.67	1715.89	25.90	1714.66	24.77	1715.79
4WC2-2	1739.98	20.60	1719.38	22.69	1717.29	21.00	1718.98	20.38	1719.60
4WC2-3	1740.77	19.45	1721.32	15.50	1725.27	19.89	1720.88	19.23	1721.54
4WC3-2	1725.80	22.85	1702.95	22.10	1703.70	22.87	1702.93	22.32	1703.48
4WC4-1	1711.69	11.32	1700.37	11.26	1700.43	11.42	1700.27	11.32	1700.37
4WC4-2	1711.77	15.20	1696.57	14.87	1696.90	15.41	1696.36	15.01	1696.76
4WC4-3	1711.64	11.25	1700.39	11.20	1700.44	11.38	1700.26	11.33	1700.31
4W5A	1716.42	16.70	1699.72	16.12	1700.30	17.05	1699.37	16.35	1700.07
4W6A	1715.55	16.35	1699.20	15.80	1699.75	16.55	1699.00	16.01	1699.54
4W7A	1706.97	12.25	1694.72	12.05	1694.92	12.20	1694.77	11.62	1695.35

NOTES:

DTW - Depth to water from ground surface.

GW ELEV - Groundwater elevation.

All elevations in feet above mean sea level.

NM - Not measured.

TABLE 2

YEAR 2002 DETECTED GROUNDWATER MONITORING CONSTITUENTS HAZARDOUS WASTE MANAGEMENT UNIT 4 RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA											
Analyte		Concentrations (µg/l)									
		Barium	Chromium	Copper	Lead	Nickel	Zinc	Chloroform	Total Organic Carbon	pH	Specific Conductivity
Practical Quantitation Limits		10	5	5	1	10	10	1	1,000	0.1 SU	1 µS/cm
Sample Location	Date										
4P3 (upgradient)	1st Qtr 02	60.2	~	~	~	~	~	~	~	6.92	409
	2nd Qtr 02	61	~	~	~	~	~	~	~	6.85	380
	3rd Qtr 02	52	~	~	~	~	~	~	~	6.75	384
	4th Qtr 02	44.7	22.1	~	~	15.2	~	~	~	6.73	465
4WC9B	1st Qtr 02	134	~	~	~	14.8	~	~	~	6.98	1021
	2nd Qtr 02	118	~	~	~	~	~	~	~	6.95	864
	3rd Qtr 02	122	~	~	~	~	~	~	~	6.83	885
	4th Qtr 02	149	22	~	~	13.4	~	~	~	6.84	751
4W4B	1st Qtr 02	43	~	~	~	12.7	~	~	~	7.05	864
	2nd Qtr 02	43.1	~	~	~	~	~	~	~	7.31	851
	3rd Qtr 02	40.1	~	~	~	~	~	~	~	6.78	808
	4th Qtr 02	39	~	~	~	15.8	67.5	~	3,400	6.65	959
4MW7	1st Qtr 02	116	~	~	~	~	~	~	~	7.06	724
	2nd Qtr 02	110	~	~	~	~	14.9	~	~	7.49	689
	3rd Qtr 02	116	~	~	~	~	~	~	~	6.83	769
	4th Qtr 02	110	12.4	~	~	13.4	~	~	~	6.81	810
4W2B	1st Qtr 02	159	~	~	~	~	~	~	~	7.01	612
	2nd Qtr 02	158	~	~	~	~	~	~	~	7.45	574
	3rd Qtr 02	161	~	~	~	~	~	~	~	6.84	643
	4th Qtr 02	158	~	~	~	~	49.4	~	4,000	6.86	559
4WC2-1	1st Qtr 02	93.5	~	~	3.36	~	~	1.16	~	7.16	664
	2nd Qtr 02	89.9	~	~	1.86	~	~	1.46	~	7.43	630
	3rd Qtr 02	95	~	~	2.39	~	~	1.59	~	6.90	675
	4th Qtr 02	71.6	~	~	~	~	41.6	1.64	2,200	6.98	632
4WC2-2	1st Qtr 02	47.1	~	~	~	~	~	~	~	7.19	667
	2nd Qtr 02	44.6	~	~	~	~	~	~	~	7.58	653
	3rd Qtr 02	46.1	~	~	~	~	~	~	~	6.93	664
	4th Qtr 02	42.4	~	~	~	~	~	~	~	6.97	657
4WC2-3	1st Qtr 02	49.3	~	~	~	~	~	~	~	7.18	665
	2nd Qtr 02	46.4	~	~	~	~	~	~	~	7.57	653
	3rd Qtr 02	49.5	~	~	~	~	~	~	~	6.92	663
	4th Qtr 02	44.8	~	~	~	~	~	~	~	6.99	652
4WC3-2	1st Qtr 02	181	~	~	~	~	~	~	~	7.18	601
	2nd Qtr 02	175	~	~	~	~	~	~	~	6.89	587
	3rd Qtr 02	180	~	~	~	~	~	~	~	6.83	591
	4th Qtr 02	180	~	~	~	~	~	~	~	6.95	583
4WC4-1	1st Qtr 02	121	~	~	3.08	14.7	~	1.11	~	7.08	818
	2nd Qtr 02	116	~	~	2.7	~	~	1.21	~	6.84	826
	3rd Qtr 02	73.9	~	~	1.38	~	~	2.24	~	6.62	775
	4th Qtr 02	157	~	6.19	6.16	16.3	~	2.22	~	6.63	780
4WC4-2	1st Qtr 02	115	~	~	~	10.4	~	~	~	7.11	722
	2nd Qtr 02	117	~	~	~	~	~	~	~	6.86	716
	3rd Qtr 02	123	~	~	~	~	~	~	~	6.76	719
	4th Qtr 02	118	~	~	~	13.3	~	~	~	6.79	715

TABLE 2

YEAR 2002 DETECTED GROUNDWATER MONITORING CONSTITUENTS HAZARDOUS WASTE MANAGEMENT UNIT 4 RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA											
Analyte		Concentrations (µg/l)									
		Barium	Chromium	Copper	Lead	Nickel	Zinc	Chloroform	Total Organic Carbon	pH	Specific Conductivity
Practical Quantitation Limits		10	5	5	1	10	10	1	1,000	0.1 SU	1 µS/cm
Sample Location	Date										
4WC4-3	1st Qtr 02	43.2	~	~	~	11.7	~	1.3	~	7.06	804
	2nd Qtr 02	46.3	~	~	~	~	~	1.32	~	6.83	865
	3rd Qtr 02	38.3	~	~	~	~	~	1.62	~	6.68	829
	4th Qtr 02	36.4	~	~	~	13.8	24.7	1.8	1,300	6.74	811
4W5A	1st Qtr 02	187	~	~	3.29	~	~	2.69	~	7.39	439
	2nd Qtr 02	167	~	~	~	~	~	2.84	~	7.08	455
	3rd Qtr 02	190	~	~	7.98	~	~	3.17	~	6.98	446
	4th Qtr 02	209	~	~	~	~	~	~	~	6.88	501
4W6A	1st Qtr 02	232	~	~	2.56	~	~	~	~	7.30	521
	2nd Qtr 02	210	~	~	~	~	13.6	~	~	7.08	553
	3rd Qtr 02	216	~	~	1.18	~	~	~	~	6.91	526
	4th Qtr 02	233	~	~	1.59	~	25.1	1.72	~	6.93	556
4W7A	1st Qtr 02	112	~	~	~	11.3	~	~	~	7.10	717
	2nd Qtr 02	111	~	~	~	~	~	~	~	6.86	776
	3rd Qtr 02	119	~	~	~	17.3	~	~	~	6.76	746
	4th Qtr 02	118	~	~	~	~	~	~	~	6.76	800
NOTES: ~: Not detected.											

TABLE 3
HWMU-13
GROUNDWATER ELEVATIONS - 2002
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

MONITORING WELL ID	ELEVATION TOP OF WELL	FIRST QUARTER 2002		SECOND QUARTER 2002		THIRD QUARTER 2002		FOURTH QUARTER 2002	
		DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV
13MW1	1701.46	22.63	1678.83	21.40	1680.06	22.88	1678.58	21.06	1680.40
13MW2	1702.71	22.30	1680.41	21.84	1680.87	22.65	1680.06	20.80	1681.91
13MW3	1695.01	13.99	1681.02	13.98	1681.03	14.77	1680.24	12.14	1682.87
13MW4	1696.58	17.30	1679.28	17.20	1679.38	18.02	1678.56	14.26	1682.32
13MW5	1696.76	17.72	1679.04	17.24	1679.52	18.45	1678.31	15.06	1681.70
13MW6	1696.11	17.45	1678.66	16.95	1679.16	18.16	1677.95	14.81	1681.30
13MW7	1695.51	17.65	1677.86	16.30	1679.21	17.60	1677.91	14.18	1681.33

NOTES:

DTW - Depth to water from ground surface.

GW ELEV - Groundwater elevation.

All elevations in feet above mean sea level.

TABLE 4

YEAR 2002 DETECTED GROUNDWATER MONITORING CONSTITUENTS
HAZARDOUS WASTE MANAGEMENT UNIT 13
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

Analyte		Concentrations (µg/l)																			pH	Specific Conductivity
		Aluminum	Barium	Boron	Calcium	Chloride	Chromium	Fluoride	Iron	Magnesium	Mercury	Nickel	Nitrogen, Nitrate	Sodium	Sulfate	Zinc	HMX	Nitroglycerine	Total Organic Carbon			
Practical Quantitation Limits		100	10	100	80	1,000	5	100	100	7	1	10	100	10	5,000	10	10	10	1,000	0.1 SU	1 µS/cm	
Sample Location	Date																					
13MW1 (upgradient)	1st Qtr 02	284	127	102	94900	20600	~	200	276	34100	~	~	340	14600	65000	~	~	~	~	6.94	732	
	2nd Qtr 02	218	107	103	92400	16900	~	~	213	26300	~	16	250	16700	49200	~	~	~	~	6.57	665	
	3rd Qtr 02	~	132	118	97100	16400	~	160	~	32900	~	~	260	15700	62900	~	~	~	~	6.55	733	
	4th Qtr 02	271	143	114	96700	18400	~	260	212	31700	~	~	380	13500	65000	18.1	~	~	~	6.65	729	
13MW2 (upgradient)	1st Qtr 02	120	128	~	83000	2800	~	200	~	38100	~	~	920	1710	29900	~	~	~	~	7.06	612	
	2nd Qtr 02	124	150	~	81800	3000	~	~	~	36000	~	16.6	750	1790	28300	~	~	~	~	6.84	648	
	3rd Qtr 02	~	148	~	82300	1800	~	150	115	35600	2.52	~	580	1730	28500	~	~	~	~	6.67	610	
	4th Qtr 02	317	142	~	84800	2100	57.6	210	219	34900	~	~	700	1900	29800	16.2	~	~	~	6.71	621	
13MW3	1st Qtr 02	~	94.9	~	80400	4600	~	310	~	34700	~	~	2660	12200	118000	~	~	~	~	6.87	654	
	2nd Qtr 02	~	97.6	~	77600	4700	~	230	~	30200	~	14.5	3250	11700	116000	~	~	~	~	6.59	621	
	3rd Qtr 02	~	107	~	86200	4200	~	270	~	34800	~	~	2950	12700	114000	~	~	~	~	6.73	683	
	4th Qtr 02	103	97.3	~	80800	4000	~	260	~	29400	~	~	2440	9950	109000	13.2	~	~	~	6.48	622	
13MW4	1st Qtr 02	942	58.7	~	69900	6200	~	170	1390	29600	~	~	2810	9340	68500	~	~	~	~	6.96	603	
	2nd Qtr 02	264	54.3	~	49800	6300	~	100	355	20000	~	~	3250	8670	49000	~	~	~	~	6.65	468	
	3rd Qtr 02	316	64.2	~	74700	4100	~	120	516	30200	~	~	1160	8090	81300	~	~	~	~	6.92	612	
	4th Qtr 02	106	50	~	46500	7000	~	140	~	17100	~	~	1850	8020	45100	~	~	~	~	6.40	460	
13MW5	1st Qtr 02	~	92.2	~	81600	6800	~	330	~	29200	~	~	1880	9300	75800	~	~	~	~	6.86	6.05	
	2nd Qtr 02	~	104	~	88600	6500	~	370	~	30700	~	18.6	1760	6900	109000	~	~	~	~	6.76	650	
	3rd Qtr 02	~	118	~	93400	5800	~	440	~	33400	~	~	2820	9090	94400	12	~	~	~	6.49	679	
	4th Qtr 02	137	63.6	~	57600	7900	~	270	~	18100	~	~	450	7820	40200	10.6	~	~	1100	6.72	428	
13MW6	1st Qtr 02	113	84.7	~	105000	6700	~	320	~	42000	~	~	640	7500	163000	~	~	~	~	6.96	783	
	2nd Qtr 02	~	84.5	~	102000	7700	~	240	~	37000	~	19.2	790	8710	150000	~	~	~	~	6.72	728	
	3rd Qtr 02	~	87.9	~	106000	5900	~	460	~	41100	5.76	~	590	7690	162000	~	~	~	~	6.57	809	
	4th Qtr 02	131	72.5	~	103000	6300	~	440	~	36400	~	~	870	7500	168000	~	~	~	~	6.80	756	
13MW7	1st Qtr 02	~	138	~	92800	5700	~	300	112	36000	~	~	1910	8340	135000	~	~	~	~	6.89	699	
	2nd Qtr 02	~	133	~	89200	6600	~	180	~	32600	~	20	3980	7800	99400	~	~	~	~	6.66	641	
	3rd Qtr 02	~	145	~	96100	5300	~	330	~	35800	~	~	1510	9020	135000	11.7	13.7	1600	~	6.40	730	
	4th Qtr 02	~	120	~	89100	5700	~	290	~	30400	~	~	2190	7550	112000	16.7	~	~	1050	6.53	647	

NOTES:

~: Not detected.

TABLE 5
HW/MU-39
GROUNDWATER ELEVATIONS - 2002
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

MONITORING WELL ID	ELEVATION TOP OF WELL	FIRST QUARTER 2002		SECOND QUARTER 2002		THIRD QUARTER 2002		FOURTH QUARTER 2002	
		DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV	DTW	GW ELEV
39MW1	1702.97	25.87	1677.10	25.50	1677.47	26.50	1676.47	24.00	1678.97
39MW3	1701.55	24.25	1677.30	23.90	1677.65	24.81	1676.74	22.00	1679.55
39MW4	1703.79	DRY	DRY	DRY	DRY	DRY	DRY	22.70	1681.09
39MW5	1701.98	DRY	DRY	DRY	DRY	DRY	DRY	22.60	1679.38
39MW6	1701.17	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

NOTES:

DTW - Depth to water from ground surface.

GW ELEV - Groundwater elevation.

All elevations in feet above mean sea level.

TABLE 6

YEAR 2002 DETECTED GROUNDWATER MONITORING CONSTITUENTS
HAZARDOUS WASTE MANAGEMENT UNIT 39
RADFORD ARMY AMMUNITION PLANT, RADFORD, VIRGINIA

Analyte		Concentrations (µg/l)																
		Barium	Chloride	Chromium	Fluoride	Iron	Nickel	Nitrogen, Nitrate	Sodium	Sulfate	Gross Alpha	Gross Beta	Total Radium	Fecal Coliform	Total Organic Carbon	Total Organic Halides	pH	Specific Conductivity
Practical Quantitation Limits		10	1,000	5	100	100	10	100	10	5,000	1 pCi/l	1 pCi/l	1 pCi/l	2 MPN	1,000	20	0.1 SU	1 µS/cm
Sample Location	Date																	
39MW1 (upgradient)	1st Qtr 02	41.8	12900	~	310	274	~	1240	12600	18300	~	~	~	~	~	57.45	7.18	403
	2nd Qtr 02	51.7	8500	~	160	~	~	1410	7990	18500	1.6	2.8	0.9	300	~	~	6.78	421
	3rd Qtr 02	39.3	12100	~	260	174	~	1480	11700	21400	0.8	2.4	0.6	~	1250	~	6.82	408
	4th Qtr 02	51.7	3230	~	210	~	~	1750	4520	24400	0.8	2.6	~	~	~	~	6.55	489
39MW4 (upgradient)	1st Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	2nd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	3rd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	4th Qtr 02	120	2240	~	150	~	15.3	660	12500	96600	0.5	10.8	0.2	~	1450	~	6.37	817
39MW3	1st Qtr 02	88.8	7800	~	180	~	~	3250	37500	130000	4.4	10.0	0.9	~	~	36	6.89	998
	2nd Qtr 02	103	15000	~	480	~	12.4	2800	43000	151000	1.3	12.1	0.6	~	~	~	6.65	1019
	3rd Qtr 02	90.6	4200	~	240	~	~	2490	23300	92400	3.3	10.8	0.2	~	~	~	6.44	949
	4th Qtr 02	61.1	3420	96.8	290	~	88.7	2640	29800	99300	1.6	4.8	2.6	~	~	~	6.61	880
39MW5	1st Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	2nd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	3rd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	4th Qtr 02	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	6.69	888
39MW6	1st Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	2nd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	3rd Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	4th Qtr 02	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry

NOTES:

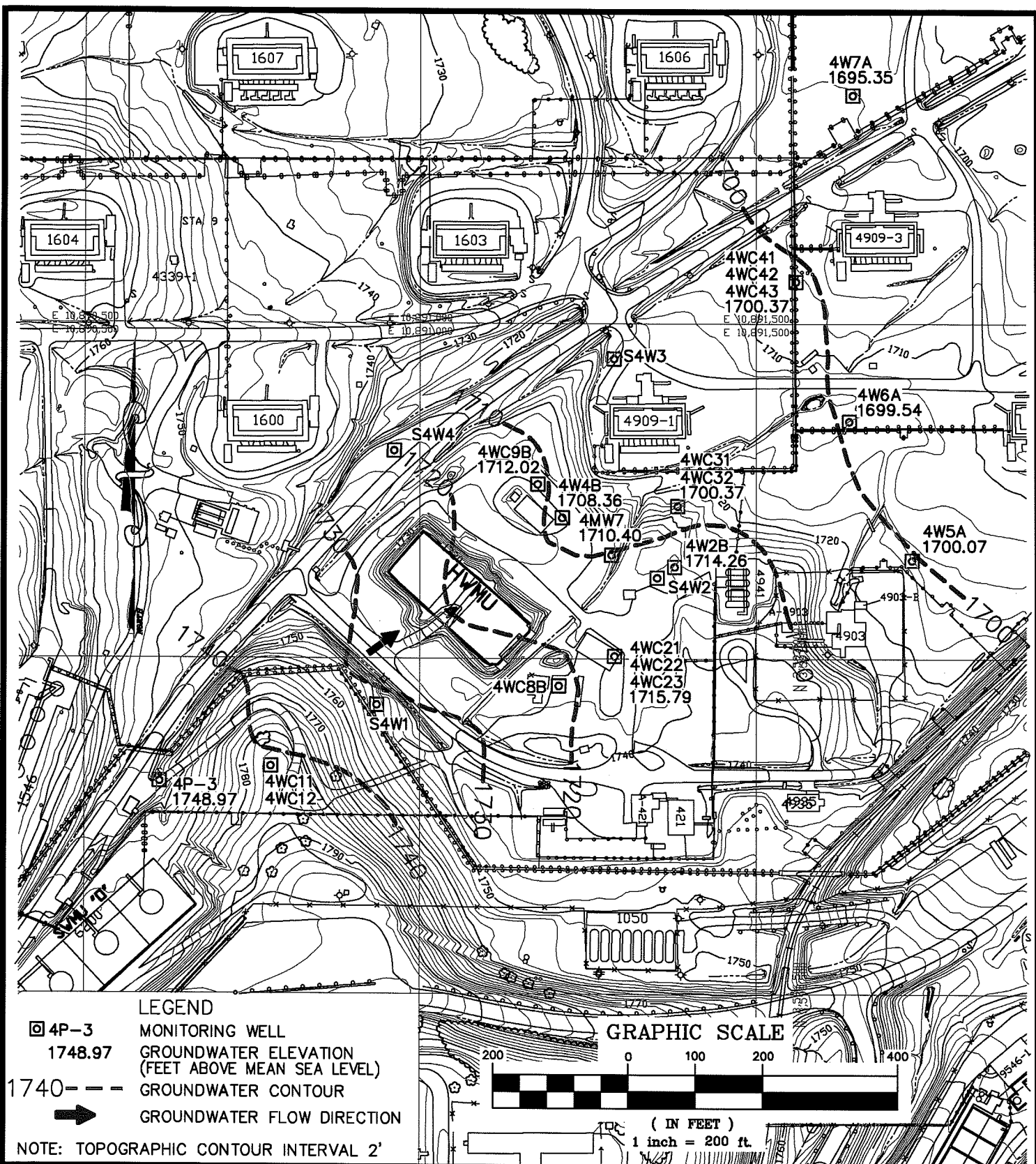
~: Not detected.

APPENDIX A

HWMU-4

APPENDIX A-1

**HWMU-4 POTENTIOMETRIC SURFACE MAP
FOURTH QUARTER 2002**



HWMU-4 POTENTIOMETRIC SURFACE MAP (4TH QUARTER 2002)
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

SCALE: 1"=200'
PLAN NO. 7774-24



Draper Aden Associates
 Engineering • Surveying • Environmental Services

2206 South Main Street
 Blacksburg, VA 24060
 540-552-0444 Fax: 540-552-0291

Richmond, VA
 Charlottesville, VA
 Raleigh-Durham, NC

DESIGNED
DRAWN
CHECKED
DATE

DRW
02/06/03

FIGURE

APPENDIX A-2

HWMU-4 YEAR 2002 LABORATORY ANALYTICAL RESULTS

First Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4MW7-A	2/13/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4MW7-A	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4MW7-A	2/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	2/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	2/13/2002	Barium	µg/L	116	10	SW6020	
SITE 4	4MW7-A	2/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	2/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4MW7-A	2/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	2/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	2/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	2/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4MW7-A	2/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4MW7-A	2/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4MW7-A	2/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4MW7-A	2/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4MW7-A	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4MW7-A	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-A	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-A	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4MW7-A	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	2/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4MW7-B	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-B	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-C	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-C	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-D	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-D	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	2/13/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4P3-A	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4P3-A	2/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4P3-A	2/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4P3-A	2/13/2002	Barium	µg/L	60.2	10	SW6020	
SITE 4	4P3-A	2/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	2/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4P3-A	2/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4P3-A	2/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4P3-A	2/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4P3-A	2/13/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4P3-A	2/13/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4P3-A	2/13/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4P3-A	2/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4P3-A	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4P3-A	2/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4P3-A	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4P3-A	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4P3-A	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-A	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4P3-A	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	2/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4P3-B	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-B	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-C	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-C	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-D	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-D	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	2/18/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4W5A-A	2/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W5A-A	2/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	2/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	2/18/2002	Barium	µg/L	187	10	SW6020	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W5A-A	2/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	2/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4W5A-A	2/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	2/18/2002	Chloroform	µg/L	2.69	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	2/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	2/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	2/18/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W5A-A	2/18/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W5A-A	2/18/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4W5A-A	2/18/2002	Lead	µg/L	3.29	1	SW6020	
SITE 4	4W5A-A	2/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W5A-A	2/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W5A-A	2/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	2/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W5A-A	2/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-A	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	2/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W5A-A	2/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	2/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W5A-B	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-B	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-C	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-C	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-D	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-D	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	2/18/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4W6A-A	2/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W6A-A	2/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	2/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	2/18/2002	Barium	µg/L	232	10	SW6020	
SITE 4	4W6A-A	2/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	2/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4W6A-A	2/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	2/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	2/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	2/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	2/18/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W6A-A	2/18/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W6A-A	2/18/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4W6A-A	2/18/2002	Lead	µg/L	2.56	1	SW6020	
SITE 4	4W6A-A	2/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W6A-A	2/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W6A-A	2/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	2/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W6A-A	2/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-A	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	2/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W6A-A	2/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	2/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W6A-B	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-B	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-C	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-C	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-D	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-D	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	2/18/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4W7A-A	2/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W7A-A	2/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	2/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	2/18/2002	Barium	µg/L	112	10	SW6020	
SITE 4	4W7A-A	2/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	2/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4W7A-A	2/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	2/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Chloromethane	µg/L	ND	1	SW8260B	

First Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W7A-A	2/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	2/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	2/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	2/18/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W7A-A	2/18/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4W7A-A	2/18/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4W7A-A	2/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	2/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W7A-A	2/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W7A-A	2/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Nickel	µg/L	11.3	10	SW6020	
SITE 4	4W7A-A	2/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W7A-A	2/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-A	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	2/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W7A-A	2/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	2/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W7A-B	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-B	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-C	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-C	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-D	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-D	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4WC2-1-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Barium	µg/L	93.5	10	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC2-1-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Chloroform	µg/L	1.16	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-1-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-1-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC2-1-A	2/15/2002	Lead	µg/L	3.36	1	SW6020	
SITE 4	4WC2-1-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-1-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-1-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4WC2-2-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Barium	µg/L	47.1	10	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC2-2-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-2-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2-2-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC2-2-A	2/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-2-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-2-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4WC2-3-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Barium	µg/L	49.3	10	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC2-3-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-3-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-3-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC2-3-A	2/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-3-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-3-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	2/13/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4WC2B-A	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	2/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	2/13/2002	Barium	µg/L	159	10	SW6020	
SITE 4	4WC2B-A	2/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	2/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2B-A	2/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	2/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	2/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	2/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	2/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	2/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	2/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2B-A	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2B-A	2/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2B-A	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-A	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2B-A	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	2/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2B-B	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-B	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-C	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-C	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-D	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-D	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4WC3-2-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Barium	µg/L	181	10	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC3-2-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC3-2-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC3-2-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC3-2-A	2/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC3-2-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC3-2-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4WC4-1-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Barium	µg/L	121	10	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC4-1-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Chloroform	µg/L	1.11	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-1-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-1-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC4-1-A	2/15/2002	Lead	µg/L	3.08	1	SW6020	
SITE 4	4WC4-1-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-1-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Nickel	µg/L	14.7	10	SW6020	
SITE 4	4WC4-1-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-1-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-1-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4WC4-2-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Barium	µg/L	115	10	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC4-2-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-2-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-2-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC4-2-A	2/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-2-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Nickel	µg/L	10.4	10	SW6020	
SITE 4	4WC4-2-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-2-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	2/15/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4WC4-3-A	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Barium	µg/L	43.2	10	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC4-3-A	2/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Chloroform	µg/L	1.3	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-3-A	2/15/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4-3-A	2/15/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC4-3-A	2/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-3-A	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Nickel	µg/L	11.7	10	SW6020	
SITE 4	4WC4-3-A	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-A	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	2/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-3-A	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-3-A	2/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-B	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-B	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-C	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-C	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-D	2/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-D	2/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	2/13/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4WC4B-A	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	2/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	2/13/2002	Barium	µg/L	43	10	SW6020	
SITE 4	4WC4B-A	2/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	2/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC4B-A	2/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	2/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	2/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	2/13/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4B-A	2/13/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC4B-A	2/13/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC4B-A	2/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4B-A	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Nickel	µg/L	12.7	10	SW6020	
SITE 4	4WC4B-A	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4B-A	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-A	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4B-A	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	2/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4B-B	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-B	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-C	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-C	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-D	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-D	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	2/13/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4WC9B-A	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	2/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	2/13/2002	Barium	µg/L	134	10	SW6020	
SITE 4	4WC9B-A	2/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	2/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC9B-A	2/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	2/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	2/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	2/13/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC9B-A	2/13/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC9B-A	2/13/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC9B-A	2/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC9B-A	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Nickel	µg/L	14.8	10	SW6020	
SITE 4	4WC9B-A	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC9B-A	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-A	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC9B-A	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	2/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC9B-B	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-B	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-C	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-C	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC9B-D	2/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-D	2/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	2/18/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	DUPLICATE-A	2/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Barium	µg/L	115	10	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	DUPLICATE-A	2/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	DUPLICATE-A	2/18/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	DUPLICATE-A	2/18/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	DUPLICATE-A	2/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	DUPLICATE-A	2/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Nickel	µg/L	12	10	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-A	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	2/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	DUPLICATE-A	2/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	2/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-B	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-B	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-C	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-C	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-D	2/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-D	2/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	TRIP BLANK 2/13	2/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/13	2/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/15	2/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK 2/18	2/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
Duplicate well: 4W7A								

Second Qtr 2002

SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4P3-A	4/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4P3-A	4/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4P3-A	4/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4P3-A	4/15/2002	Barium	µg/L	61	10	SW6020	
SITE 4	4P3-A	4/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	4/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	4/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4P3-A	4/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4P3-A	4/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4P3-A	4/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4P3-A	4/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4P3-A	4/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4P3-A	4/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4P3-A	4/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4P3-A	4/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4P3-A	4/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4P3-A	4/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-A	4/15/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4P3-A	4/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4P3-A	4/15/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4P3-A	4/15/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4P3-A	4/15/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4P3-A	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-B	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-B	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-C	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-C	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-D	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-D	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	4/15/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC9B-A	4/15/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	4/15/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	4/15/2002	Barium	µg/L	118	10	SW6020	
SITE 4	4WC9B-A	4/15/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	4/15/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	4/15/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	4/15/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	4/15/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	4/15/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	4/15/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	4/15/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC9B-A	4/15/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC9B-A	4/15/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	4/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-A	4/15/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4WC9B-A	4/15/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC9B-A	4/15/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC9B-A	4/15/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC9B-A	4/15/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC9B-A	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-B	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-B	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-C	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-C	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-D	4/15/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-D	4/15/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	4/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4B-A	4/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	4/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	4/17/2002	Barium	µg/L	43.1	10	SW6020	
SITE 4	4WC4B-A	4/17/2002	Beryllium	µg/L	ND	1	SW6020	

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SiteID	ClientSampID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4B-A	4/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	4/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	4/17/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	4/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	4/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	4/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	4/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4B-A	4/17/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4B-A	4/17/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-A	4/17/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4WC4B-A	4/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4B-A	4/17/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4B-A	4/17/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4B-A	4/17/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC4B-A	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-B	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-B	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-C	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-C	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-D	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4B-D	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-A	4/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4MW7-A	4/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	4/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	4/17/2002	Barium	µg/L	110	10	SW6020	
SITE 4	4MW7-A	4/17/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	4/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	4/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	4/17/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	4/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	4/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	4/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	4/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4MW7-A	4/17/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4MW7-A	4/17/2002	Zinc	µg/L	14.9	10	SW6020	
SITE 4	4MW7-A	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4MW7-A	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4MW7-A	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-A	4/17/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 4	4MW7-A	4/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4MW7-A	4/17/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4MW7-A	4/17/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4MW7-A	4/17/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4MW7-A	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-B	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-B	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-C	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-C	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-D	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-D	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	4/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2B-A	4/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	4/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	4/17/2002	Barium	µg/L	158	10	SW6020	
SITE 4	4WC2B-A	4/17/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	4/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	4/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	4/17/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	4/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	4/17/2002	Lead	µg/L	ND	1	SW6020	

Second Qtr 2002

SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2B-A	4/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	4/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2B-A	4/17/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2B-A	4/17/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-A	4/17/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4WC2B-A	4/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2B-A	4/17/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	4/17/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	4/17/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC2B-A	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-B	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-B	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-C	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-C	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-D	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2B-D	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	4/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-2-A	4/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Barium	µg/L	44.6	10	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-2-A	4/17/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-A	4/17/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 4	4WC2-2-A	4/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 4	4WC2-2-A	4/17/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-2-A	4/17/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 4	4WC2-2-A	4/17/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 4	4WC2-2-A	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-B	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-B	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-C	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-C	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-D	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-D	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	4/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-3-A	4/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Barium	µg/L	46.4	10	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-3-A	4/17/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2-3-A	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-A	4/17/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4WC2-3-A	4/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-3-A	4/17/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2-3-A	4/17/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2-3-A	4/17/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC2-3-A	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-B	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-B	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-C	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-C	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-D	4/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-D	4/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	4/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-1-A	4/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Barium	µg/L	89.9	10	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Lead	µg/L	1.86	1	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-1-A	4/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Chloroform	µg/L	1.46	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-A	4/18/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4WC2-1-A	4/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-1-A	4/18/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2-1-A	4/18/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC2-1-A	4/18/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC2-1-A	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-B	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-B	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-C	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-C	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-D	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-1-D	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	4/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC3-2-A	4/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Barium	µg/L	175	10	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC3-2-A	4/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC3-2-A	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-A	4/18/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4WC3-2-A	4/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC3-2-A	4/18/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC3-2-A	4/18/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC3-2-A	4/18/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC3-2-A	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-B	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-B	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-C	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-C	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-D	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-D	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	4/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-1-A	4/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Barium	µg/L	116	10	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Lead	µg/L	2.7	1	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-1-A	4/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Chloroform	µg/L	1.21	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-A	4/18/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4WC4-1-A	4/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-1-A	4/18/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4-1-A	4/18/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4-1-A	4/18/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC4-1-A	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-B	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-B	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-C	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-C	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-D	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-D	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	4/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-2-A	4/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Barium	µg/L	117	10	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-2-A	4/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-2-A	4/18/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 4	4WC4-2-A	4/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-2-A	4/18/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4-2-A	4/18/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4WC4-2-A	4/18/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4WC4-2-A	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-B	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-B	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-C	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-C	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-D	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-D	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	4/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-3-A	4/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Barium	µg/L	46.3	10	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-3-A	4/18/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Chloroform	µg/L	1.32	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-A	4/18/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4WC4-3-A	4/18/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-3-A	4/18/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	4/18/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	4/18/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-B	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-B	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-C	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-C	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-D	4/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-D	4/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	TRIP BLANK	4/15/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/15/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/18/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W5A-A	4/22/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W5A-A	4/22/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	4/22/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	4/22/2002	Barium	µg/L	167	10	SW6020	
SITE 4	4W5A-A	4/22/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	4/22/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	4/22/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	4/22/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	4/22/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	4/22/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	4/22/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	4/22/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W5A-A	4/22/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W5A-A	4/22/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	4/22/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W5A-A	4/22/2002	Chloroform	µg/L	2.84	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W5A-A	4/22/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-A	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	4/22/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4W5A-A	4/22/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W5A-A	4/22/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	4/22/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	4/22/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W5A-B	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-B	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-C	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-C	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-D	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-D	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	4/22/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W6A-A	4/22/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	4/22/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	4/22/2002	Barium	µg/L	210	10	SW6020	
SITE 4	4W6A-A	4/22/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	4/22/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	4/22/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	4/22/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	4/22/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	4/22/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	4/22/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	4/22/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W6A-A	4/22/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W6A-A	4/22/2002	Zinc	µg/L	13.6	10	SW6020	
SITE 4	4W6A-A	4/22/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W6A-A	4/22/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W6A-A	4/22/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-A	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	4/22/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4W6A-A	4/22/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W6A-A	4/22/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4W6A-A	4/22/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4W6A-A	4/22/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4W6A-B	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-B	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-C	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-C	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-D	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-D	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	4/22/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W7A-A	4/22/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	4/22/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	4/22/2002	Barium	µg/L	111	10	SW6020	
SITE 4	4W7A-A	4/22/2002	Beryllium	µg/L	ND	1	SW6020	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W7A-A	4/22/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	4/22/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	4/22/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	4/22/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	4/22/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	4/22/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	4/22/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W7A-A	4/22/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W7A-A	4/22/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	4/22/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W7A-A	4/22/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W7A-A	4/22/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-A	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	4/22/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4W7A-A	4/22/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W7A-A	4/22/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4W7A-A	4/22/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	4W7A-A	4/22/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	4W7A-B	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-B	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-C	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-C	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-D	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-D	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	4/22/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	DUPLICATE-A	4/22/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Barium	µg/L	167	10	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	4/22/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Chloroform	µg/L	2.89	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-A	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	4/22/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	DUPLICATE-A	4/22/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	DUPLICATE-A	4/22/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	DUPLICATE-A	4/22/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 4	DUPLICATE-A	4/22/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 4	DUPLICATE-B	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-B	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-C	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-C	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-D	4/22/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-D	4/22/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	TRIP BLANK	4/22/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	4/22/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

Second Qtr 2002

SiteID	ClientSampleID	CollectionID	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
	Duplicate well	4W5A						

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4MW7-A	8/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4MW7-A	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4MW7-A	8/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	8/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	8/13/2002	Barium	µg/L	116	10	SW6020	
SITE 4	4MW7-A	8/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	8/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4MW7-A	8/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	8/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	8/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	8/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	8/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	8/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	8/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4MW7-A	8/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4MW7-A	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4MW7-A	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4MW7-A	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-A	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4MW7-A	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	8/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4MW7-B	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4MW7-B	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-C	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4MW7-C	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-D	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4MW7-D	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	8/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4P3-A	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4P3-A	8/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4P3-A	8/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4P3-A	8/13/2002	Barium	µg/L	52	10	SW6020	
SITE 4	4P3-A	8/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	8/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4P3-A	8/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4P3-A	8/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4P3-A	8/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4P3-A	8/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	8/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	8/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	8/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4P3-A	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4P3-A	8/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4P3-A	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4P3-A	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4P3-A	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-A	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4P3-A	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	8/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4P3-B	8/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-B	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-C	8/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-C	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-D	8/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-D	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	8/16/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W5A-A	8/16/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W5A-A	8/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	8/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	8/16/2002	Barium	µg/L	190	10	SW6020	

Third Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W5A-A	8/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	8/16/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W5A-A	8/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	8/16/2002	Chloroform	µg/L	3.17	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	8/16/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	8/16/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	8/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	8/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	8/16/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	8/16/2002	Lead	µg/L	7.98	1	SW6020	
SITE 4	4W5A-A	8/16/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W5A-A	8/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W5A-A	8/16/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	8/16/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W5A-A	8/16/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-A	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	8/16/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W5A-A	8/16/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	8/16/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W5A-B	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-B	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-C	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-C	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-D	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-D	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	8/16/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W6A-A	8/16/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W6A-A	8/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	8/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	8/16/2002	Barium	µg/L	216	10	SW6020	
SITE 4	4W6A-A	8/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	8/16/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W6A-A	8/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	8/16/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	8/16/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	8/16/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	8/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	8/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	8/16/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	8/16/2002	Lead	µg/L	1.18	1	SW6020	
SITE 4	4W6A-A	8/16/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W6A-A	8/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W6A-A	8/16/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	8/16/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W6A-A	8/16/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-A	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	8/16/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W6A-A	8/16/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	8/16/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W6A-B	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-B	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-C	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-C	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-D	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-D	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	8/16/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W7A-A	8/16/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W7A-A	8/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	8/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	8/16/2002	Barium	µg/L	119	10	SW6020	
SITE 4	4W7A-A	8/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	8/16/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W7A-A	8/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	8/16/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Chloromethane	µg/L	ND	1	SW8260B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W7A-A	8/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	8/16/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	8/16/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	8/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	8/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	8/16/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	8/16/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	8/16/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W7A-A	8/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4W7A-A	8/16/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Nickel	µg/L	17.3	10	SW6020	
SITE 4	4W7A-A	8/16/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W7A-A	8/16/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Total Organic Carbon	µg/L	4200	1,000	SW9060	
SITE 4	4W7A-A	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	8/16/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W7A-A	8/16/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	8/16/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W7A-B	8/16/2002	Total Organic Carbon	µg/L	4100	1,000	SW9060	
SITE 4	4W7A-B	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-C	8/16/2002	Total Organic Carbon	µg/L	4100	1,000	SW9060	
SITE 4	4W7A-C	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-D	8/16/2002	Total Organic Carbon	µg/L	4100	1,000	SW9060	
SITE 4	4W7A-D	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2-1-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Barium	µg/L	95	10	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-1-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Chloroform	µg/L	1.59	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	8/14/2002	Lead	µg/L	2.39	1	SW6020	
SITE 4	4WC2-1-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-1-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Total Organic Carbon	µg/L	4200	1,000	SW9060	
SITE 4	4WC2-1-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-1-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-B	8/14/2002	Total Organic Carbon	µg/L	4300	1,000	SW9060	
SITE 4	4WC2-1-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-C	8/14/2002	Total Organic Carbon	µg/L	4200	1,000	SW9060	
SITE 4	4WC2-1-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-D	8/14/2002	Total Organic Carbon	µg/L	4200	1,000	SW9060	
SITE 4	4WC2-1-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2-2-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Barium	µg/L	46.1	10	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-2-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-2-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2-2-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2-2-A	8/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-2-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-2-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-B	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-C	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-D	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2-3-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Barium	µg/L	49.5	10	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-3-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-3-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-3-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2-3-A	8/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2-3-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 4	4WC2-3-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-3-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-B	8/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 4	4WC2-3-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-C	8/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 4	4WC2-3-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-D	8/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 4	4WC2-3-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	8/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2B-A	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	8/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	8/13/2002	Barium	µg/L	161	10	SW6020	
SITE 4	4WC2B-A	8/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	8/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2B-A	8/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	8/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	8/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	8/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	8/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	8/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	8/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC2B-A	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2B-A	8/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2B-A	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Total Organic Carbon	µg/L	1400	1,000	SW9060	
SITE 4	4WC2B-A	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2B-A	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	8/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2B-B	8/13/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC2B-B	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-C	8/13/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC2B-C	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-D	8/13/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC2B-D	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC3-2-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Barium	µg/L	180	10	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC3-2-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	8/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC3-2-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Total Organic Carbon	µg/L	9200	1,000	SW9060	
SITE 4	4WC3-2-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC3-2-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-B	8/14/2002	Total Organic Carbon	µg/L	9200	1,000	SW9060	
SITE 4	4WC3-2-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-C	8/14/2002	Total Organic Carbon	µg/L	9300	1,000	SW9060	
SITE 4	4WC3-2-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-D	8/14/2002	Total Organic Carbon	µg/L	9100	1,000	SW9060	
SITE 4	4WC3-2-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-1-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Barium	µg/L	73.9	10	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-1-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Chloroform	µg/L	2.24	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	8/14/2002	Lead	µg/L	1.38	1	SW6020	
SITE 4	4WC4-1-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-1-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-1-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-1-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-B	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-C	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-D	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-2-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Barium	µg/L	123	10	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-2-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	8/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-2-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 4	4WC4-2-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-2-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-B	8/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 4	4WC4-2-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-C	8/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 4	4WC4-2-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-D	8/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 4	4WC4-2-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	8/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-3-A	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Barium	µg/L	38.3	10	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-3-A	8/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Chloroform	µg/L	1.62	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	8/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	8/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	8/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4-3-A	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-A	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	8/14/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-3-A	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-3-A	8/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-B	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-B	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-C	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-C	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-D	8/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-3-D	8/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	8/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4B-A	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	8/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	8/13/2002	Barium	µg/L	40.1	10	SW6020	
SITE 4	4WC4B-A	8/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	8/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4B-A	8/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	8/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	8/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	8/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	8/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	8/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	8/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC4B-A	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4B-A	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC4B-A	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4B-A	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	8/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4B-B	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4WC4B-B	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-C	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4WC4B-C	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-D	8/13/2002	Total Organic Carbon	µg/L	1200	1,000	SW9060	
SITE 4	4WC4B-D	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	8/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC9B-A	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	8/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	8/13/2002	Barium	µg/L	122	10	SW6020	
SITE 4	4WC9B-A	8/13/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	8/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC9B-A	8/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	8/13/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	8/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	8/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	8/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	8/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	8/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	4WC9B-A	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC9B-A	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC9B-A	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC9B-A	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	8/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC9B-B	8/13/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC9B-B	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-C	8/13/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC9B-C	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Third Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC9B-D	8/13/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC9B-D	8/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	8/16/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	DUPLICATE-A	8/16/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Barium	µg/L	222	10	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	DUPLICATE-A	8/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	8/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	8/16/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	8/16/2002	Lead	µg/L	1.04	1	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 4	DUPLICATE-A	8/16/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-A	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	8/16/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	DUPLICATE-A	8/16/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	8/16/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-B	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-B	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-C	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-C	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-D	8/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-D	8/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	TRIP BLANK	8/13/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	8/16/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
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Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4MW7-A	10/24/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 4	4MW7-A	10/24/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4MW7-A	10/24/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	10/24/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4MW7-A	10/24/2002	Barium	µg/L	110	10	SW6020	
SITE 4	4MW7-A	10/24/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	10/24/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4MW7-A	10/24/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	10/24/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Chromium	µg/L	12.4	5	SW6020	
SITE 4	4MW7-A	10/24/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	10/24/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4MW7-A	10/24/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	10/24/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	10/24/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4MW7-A	10/24/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4MW7-A	10/24/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4MW7-A	10/24/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4MW7-A	10/24/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Nickel	µg/L	13.4	10	SW6020	
SITE 4	4MW7-A	10/24/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4MW7-A	10/24/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-A	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-A	10/24/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4MW7-A	10/24/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4MW7-A	10/24/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4MW7-B	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-B	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-C	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-C	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4MW7-D	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4MW7-D	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	10/24/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4P3-A	10/24/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4P3-A	10/24/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4P3-A	10/24/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4P3-A	10/24/2002	Barium	µg/L	44.7	10	SW6020	
SITE 4	4P3-A	10/24/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	10/24/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4P3-A	10/24/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4P3-A	10/24/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Chromium	µg/L	22.1	5	SW6020	
SITE 4	4P3-A	10/24/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4P3-A	10/24/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4P3-A	10/24/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	10/24/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	10/24/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4P3-A	10/24/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4P3-A	10/24/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4P3-A	10/24/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4P3-A	10/24/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Nickel	µg/L	15.2	10	SW6020	
SITE 4	4P3-A	10/24/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4P3-A	10/24/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-A	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-A	10/24/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4P3-A	10/24/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4P3-A	10/24/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4P3-B	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-B	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-C	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-C	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4P3-D	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4P3-D	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W5A-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W5A-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	11/4/2002	Barium	µg/L	209	10	SW6020	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W5A-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W5A-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	11/4/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W5A-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W5A-A	11/4/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W5A-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W5A-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4W5A-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W5A-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W5A-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W5A-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W5A-A	11/4/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W5A-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W5A-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W5A-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W6A-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W6A-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	11/4/2002	Barium	µg/L	233	10	SW6020	
SITE 4	4W6A-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W6A-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W6A-A	11/4/2002	Chloroform	µg/L	1.72	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W6A-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W6A-A	11/4/2002	Lead	µg/L	1.59	1	SW6020	
SITE 4	4W6A-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W6A-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4W6A-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W6A-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W6A-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W6A-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W6A-A	11/4/2002	Zinc	µg/L	25.1	10	SW6020	
SITE 4	4W6A-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W6A-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W6A-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4W7A-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4W7A-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	11/4/2002	Barium	µg/L	118	10	SW6020	
SITE 4	4W7A-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4W7A-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	11/4/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4W7A-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4W7A-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4W7A-A	11/4/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4W7A-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4W7A-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4W7A-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4W7A-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4W7A-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4W7A-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4W7A-A	11/4/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4W7A-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4W7A-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4W7A-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	10/31/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2-1-A	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Barium	µg/L	71.6	10	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-1-A	10/31/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Chloroform	µg/L	1.64	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	10/31/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	10/31/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2-1-A	10/31/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-1-A	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC2-1-A	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-1-A	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC2-1-A	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-A	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-1-A	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-1-A	10/31/2002	Zinc	µg/L	41.6	10	SW6020	
SITE 4	4WC2-1-B	10/31/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC2-1-B	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-C	10/31/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC2-1-C	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-1-D	10/31/2002	Total Organic Carbon	µg/L	2200	1,000	SW9060	
SITE 4	4WC2-1-D	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	10/31/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2-2-A	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Barium	µg/L	42.4	10	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2-2-A	10/31/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2-2-A	10/31/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2-2-A	10/31/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2-2-A	10/31/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-2-A	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC2-2-A	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-A	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-A	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-A	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-2-A	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-2-A	10/31/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-2-B	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-B	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-C	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-C	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-2-D	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-2-D	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	10/31/2002	2,4-Dinitrophenol	µg/L	ND	15	SW8270C	
SITE 4	4WC2-3-A	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Barium	µg/L	44.8	10	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	4	SW8270C	
SITE 4	4WC2-3-A	10/31/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Diethyl phthalate	µg/L	ND	7	SW8270C	
SITE 4	4WC2-3-A	10/31/2002	Di-n-butyl phthalate	µg/L	ND	7	SW8270C	
SITE 4	4WC2-3-A	10/31/2002	Diphenylamine	µg/L	ND	7	SW8270C	
SITE 4	4WC2-3-A	10/31/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2-3-A	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC2-3-A	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-A	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-A	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-A	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2-3-A	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2-3-A	10/31/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC2-3-B	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-B	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-C	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-C	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2-3-D	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC2-3-D	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	10/31/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC2B-A	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	10/31/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	10/31/2002	Barium	µg/L	158	10	SW6020	
SITE 4	4WC2B-A	10/31/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	10/31/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC2B-A	10/31/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	10/31/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	10/31/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	10/31/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC2B-A	10/31/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	10/31/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	10/31/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC2B-A	10/31/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC2B-A	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC2B-A	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC2B-A	10/31/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC2B-A	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC2B-A	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Total Organic Carbon	µg/L	4000	1,000	SW9060	
SITE 4	4WC2B-A	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-A	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC2B-A	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC2B-A	10/31/2002	Zinc	µg/L	49.4	10	SW6020	
SITE 4	4WC2B-B	10/31/2002	Total Organic Carbon	µg/L	4000	1,000	SW9060	
SITE 4	4WC2B-B	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-C	10/31/2002	Total Organic Carbon	µg/L	4000	1,000	SW9060	
SITE 4	4WC2B-C	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC2B-D	10/31/2002	Total Organic Carbon	µg/L	4000	1,000	SW9060	
SITE 4	4WC2B-D	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	10/31/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC3-2-A	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Barium	µg/L	180	10	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC3-2-A	10/31/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	10/31/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	10/31/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC3-2-A	10/31/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC3-2-A	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC3-2-A	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-A	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-A	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-A	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC3-2-A	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC3-2-A	10/31/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC3-2-B	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-B	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-C	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-C	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC3-2-D	10/31/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC3-2-D	10/31/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-1-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Barium	µg/L	157	10	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-1-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Chloroform	µg/L	2.22	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Copper	µg/L	6.19	5	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-1-A	11/4/2002	Lead	µg/L	6.16	1	SW6020	
SITE 4	4WC4-1-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC4-1-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Nickel	µg/L	16.3	10	SW6020	
SITE 4	4WC4-1-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-1-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-1-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-1-A	11/4/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-1-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-1-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-1-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-2-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Barium	µg/L	118	10	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-2-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-2-A	11/4/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-2-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC4-2-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Nickel	µg/L	13.3	10	SW6020	
SITE 4	4WC4-2-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-2-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-2-A	11/4/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC4-2-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-2-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC4-2-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4-3-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Barium	µg/L	36.4	10	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4-3-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Chloroform	µg/L	1.8	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4-3-A	11/4/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4-3-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC4-3-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Nickel	µg/L	13.8	10	SW6020	
SITE 4	4WC4-3-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC4-3-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4-3-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4-3-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC4-3-A	11/4/2002	Zinc	µg/L	24.7	10	SW6020	
SITE 4	4WC4-3-B	11/4/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC4-3-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-C	11/4/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC4-3-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4-3-D	11/4/2002	Total Organic Carbon	µg/L	1300	1,000	SW9060	
SITE 4	4WC4-3-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	10/24/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC4B-A	10/24/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	10/24/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC4B-A	10/24/2002	Barium	µg/L	39	10	SW6020	
SITE 4	4WC4B-A	10/24/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	10/24/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC4B-A	10/24/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	10/24/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	10/24/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	10/24/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC4B-A	10/24/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	10/24/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	10/24/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC4B-A	10/24/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC4B-A	10/24/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC4B-A	10/24/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Nickel	µg/L	15.8	10	SW6020	
SITE 4	4WC4B-A	10/24/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC4B-A	10/24/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Total Organic Carbon	µg/L	3400	1,000	SW9060	
SITE 4	4WC4B-A	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-A	10/24/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC4B-A	10/24/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC4B-A	10/24/2002	Zinc	µg/L	67.5	10	SW6020	
SITE 4	4WC4B-B	10/24/2002	Total Organic Carbon	µg/L	3400	1,000	SW9060	
SITE 4	4WC4B-B	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-C	10/24/2002	Total Organic Carbon	µg/L	3400	1,000	SW9060	
SITE 4	4WC4B-C	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC4B-D	10/24/2002	Total Organic Carbon	µg/L	3400	1,000	SW9060	
SITE 4	4WC4B-D	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	10/24/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	4WC9B-A	10/24/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	10/24/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	4WC9B-A	10/24/2002	Barium	µg/L	149	10	SW6020	
SITE 4	4WC9B-A	10/24/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	10/24/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	4WC9B-A	10/24/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	10/24/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Chromium	µg/L	22	5	SW6020	
SITE 4	4WC9B-A	10/24/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	10/24/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	4WC9B-A	10/24/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	10/24/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	10/24/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	4WC9B-A	10/24/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	4WC9B-A	10/24/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	4WC9B-A	10/24/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Nickel	µg/L	13.4	10	SW6020	
SITE 4	4WC9B-A	10/24/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	4WC9B-A	10/24/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-A	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-A	10/24/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	4WC9B-A	10/24/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	4WC9B-A	10/24/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	4WC9B-B	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-B	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	4WC9B-C	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-C	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 4	4WC9B-D	10/24/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	4WC9B-D	10/24/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	11/4/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 4	DUPLICATE-A	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Antimony	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Barium	µg/L	212	10	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 4	DUPLICATE-A	11/4/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Chloroform	µg/L	1.81	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Chromium	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Cobalt	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Copper	µg/L	ND	5	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	11/4/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	11/4/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 4	DUPLICATE-A	11/4/2002	Lead	µg/L	ND	1	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Mercury	µg/L	ND	0.2	SW7470A	
SITE 4	DUPLICATE-A	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Nickel	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Silver	µg/L	ND	2	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-A	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-A	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Vanadium	µg/L	ND	50	SW6020	
SITE 4	DUPLICATE-A	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	DUPLICATE-A	11/4/2002	Zinc	µg/L	ND	10	SW6020	
SITE 4	DUPLICATE-B	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-B	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-C	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-C	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	DUPLICATE-D	11/4/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 4	DUPLICATE-D	11/4/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 4	TRIP BLANK	10/24/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	2-Butanone	µg/L	ND	10	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Chloroform	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Chloromethane	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Methylene chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	trans-1,2-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Trichloroethene	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/24/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	10/31/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 4	TRIP BLANK	11/4/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
Duplicate well 4W5A								

APPENDIX A-3

HWMU-4 STATISTICAL ANALYSIS RESULTS

The GRITS/STAT v5.0 software package does not recognize the years 2000 and 2001. Therefore, in order to conduct the statistical analyses for this report, the sample dates for the twelve quarters of laboratory analytical results for the years 2000 through 2002 were entered into the statistical package as follows:

- **First Quarter 2000** entered as **December 10, 1999**
- **Second Quarter 2000** entered as **December 11, 1999**
- **Third Quarter 2000** entered as **December 12, 1999**
- **Fourth Quarter 2000** entered as **December 13, 1999**
- **First Quarter 2001** entered as **December 14, 1999**
- **Second Quarter 2001** entered as **December 15, 1999**
- **Third Quarter 2001** entered as **December 16, 1999**
- **Fourth Quarter 2001** entered as **December 17, 1999**
- **First Quarter 2002** entered as **December 18, 1999**
- **Second Quarter 2002** entered as **December 19, 1999**
- **Third Quarter 2002** entered as **December 20, 1999**
- **Fourth Quarter 2002** entered as **December 21, 1999**

Data Set Summary

Report Printed: 02-24-2003 19:09

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:

Phone:() -

Permit Type:Background

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 2.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	69.000 ppb	4.234
Jun 30 1996	57.000 ppb	4.043
Sep 30 1996	79.000 ppb	4.369
Dec 31 1996	78.000 ppb	4.357
Jun 30 1997	56.000 ppb	4.025
Sep 30 1997	87.000 ppb	4.466
Dec 31 1997	83.000 ppb	4.419
Jan 21 1998	99.000 ppb	4.595
Apr 08 1998	85.000 ppb	4.443
Jul 07 1998	96.000 ppb	4.564
Oct 13 1998	98.000 ppb	4.585
Mar 05 1999	348.000 ppb	5.852
May 26 1999	74.000 ppb	4.304
Jul 23 1999	80.000 ppb	4.382
Nov 05 1999	87.000 ppb	4.466
Dec 10 1999	62.000 ppb	4.127
Dec 11 1999	44.000 ppb	3.784
Dec 12 1999	54.000 ppb	3.989
Dec 13 1999	64.000 ppb	4.159
Dec 14 1999	75.100 ppb	4.319
Dec 15 1999	79.600 ppb	4.377
Dec 16 1999	80.700 ppb	4.391
Dec 17 1999	64.400 ppb	4.165
Dec 18 1999	60.200 ppb	4.098

Dec 19 1999	61.000 ppb	4.111
Dec 20 1999	52.000 ppb	3.951
Dec 21 1999	44.700 ppb	3.800

Well ID:4P3 Summary Statistics

Observations (N): 27
 Nondetects (%ND): 0

Minimum:	44.000 ppb	Ln Minimum:	3.784
Maximum:	348.000 ppb	Ln Maximum:	5.852
Mean:	82.137 ppb	Ln Mean:	4.310
Std. Dev.:	55.346 ppb	Ln Std. Dev.:	0.382

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	110.000 ppb	4.700

Well ID:4MW7 Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	110.000 ppb	Ln Minimum:	4.700
Maximum:	110.000 ppb	Ln Maximum:	4.700
Mean:	110.000 ppb	Ln Mean:	4.700
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	158.000 ppb	5.063

Well ID:4W2B Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	158.000 ppb	Ln Minimum:	5.063
Maximum:	158.000 ppb	Ln Maximum:	5.063
Mean:	158.000 ppb	Ln Mean:	5.063
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	39.000 ppb	3.664

Well ID:4W4B Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	39.000 ppb	Ln Minimum:	3.664
Maximum:	39.000 ppb	Ln Maximum:	3.664
Mean:	39.000 ppb	Ln Mean:	3.664
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	209.000 ppb	5.342

Well ID:4W5A Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	209.000 ppb	Ln Minimum:	5.342
Maximum:	209.000 ppb	Ln Maximum:	5.342
Mean:	209.000 ppb	Ln Mean:	5.342
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	233.000 ppb	5.451

Well ID:4W6A Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	233.000 ppb	Ln Minimum:	5.451
Maximum:	233.000 ppb	Ln Maximum:	5.451
Mean:	233.000 ppb	Ln Mean:	5.451
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	118.000 ppb	4.771

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	118.000 ppb	Ln Minimum:	4.771
Maximum:	118.000 ppb	Ln Maximum:	4.771
Mean:	118.000 ppb	Ln Mean:	4.771
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	71.600 ppb	4.271

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	71.600 ppb	Ln Minimum:	4.271
Maximum:	71.600 ppb	Ln Maximum:	4.271
Mean:	71.600 ppb	Ln Mean:	4.271
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	42.400 ppb	3.747

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	42.400 ppb	Ln Minimum:	3.747
Maximum:	42.400 ppb	Ln Maximum:	3.747
Mean:	42.400 ppb	Ln Mean:	3.747
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	44.800 ppb	3.802

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	44.800 ppb	Ln Minimum:	3.802
Maximum:	44.800 ppb	Ln Maximum:	3.802
Mean:	44.800 ppb	Ln Mean:	3.802
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	180.000 ppb	5.193

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	180.000 ppb	Ln Minimum:	5.193
Maximum:	180.000 ppb	Ln Maximum:	5.193
Mean:	180.000 ppb	Ln Mean:	5.193
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	157.000 ppb	5.056

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	157.000 ppb	Ln Minimum:	5.056
Maximum:	157.000 ppb	Ln Maximum:	5.056
Mean:	157.000 ppb	Ln Mean:	5.056
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	118.000 ppb	4.771

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	118.000 ppb	Ln Minimum:	4.771
Maximum:	118.000 ppb	Ln Maximum:	4.771

Mean: 118.000 ppb
Std. Dev.: 0.000 ppb

Ln Mean: 4.771
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	36.400 ppb	3.595

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	36.400 ppb	Ln Minimum:	3.595
Maximum:	36.400 ppb	Ln Maximum:	3.595
Mean:	36.400 ppb	Ln Mean:	3.595
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	149.000 ppb	5.004

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	149.000 ppb	Ln Minimum:	5.004
Maximum:	149.000 ppb	Ln Maximum:	5.004
Mean:	149.000 ppb	Ln Mean:	5.004
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-24-2003 19:10

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone: () -

Permit Type:Background

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 2.000 ppb

Start Date:Mar 31 1996
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:27

Scale	Minimum	Maximum	Mean	Std Dev
Original:	44.000	348.000	82.137	55.346
Log:	3.784	5.852	4.310	0.382

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	82.137	4.310
Std Dev:	55.346	0.382
Skewness:	4.293*	2.332*
Kurtosis:	18.298	8.026
Minimum:	44.000	3.784
Maximum:	348.000	5.852
CV:	0.674	0.089

Shapiro-Wilk Statistics

Test	5% Critical Value	1% Critical Value
Scale Statistic		
Original:	0.4542*	0.9230
		0.8940

Log: 0.7753* 0.9230 0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Barium, total (CAS Number: 7440-39-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 348.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	110.000 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	158.000 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	39.000 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	209.000 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	233.000 ppb

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	118.000 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	71.600 ppb

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Barium, total (CAS Number: 7440-39-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 348.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	42.400 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	44.800 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	180.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	157.000 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	118.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	36.400 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	149.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:26

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:

Phone:() -

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number: 7440-47-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	9.000 ppb	2.197
Jun 30 1996	3.000 ppb	1.099
Sep 30 1996	2.000 ppb	0.693
Dec 31 1996	3.000 ppb	1.099
Jun 30 1997	4.000 ppb	1.386
Sep 30 1997	3.000 ppb	1.099
Dec 31 1997	3.000 ppb	1.099
Jan 21 1998	0.500 ppb	-0.693 (* Nondetect *)
Apr 08 1998	0.500 ppb	-0.693 (* Nondetect *)
Jul 07 1998	5.000 ppb	1.609
Oct 13 1998	9.000 ppb	2.197
Mar 05 1999	22.000 ppb	3.091
May 26 1999	2.000 ppb	0.693
Jul 23 1999	0.500 ppb	-0.693 (* Nondetect *)
Nov 05 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 10 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 11 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 12 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 13 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 14 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 15 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 16 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 17 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 18 1999	0.500 ppb	-0.693 (* Nondetect *)

Dec 19 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 20 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 21 1999	22.100 ppb	3.096

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 56

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	22.100 ppb	Ln Maximum:	3.096
Mean:	3.504 ppb	Ln Mean:	0.332
Std. Dev.:	5.856 ppb	Ln Std. Dev.:	1.291

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	12.400 ppb	2.518

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	12.400 ppb	Ln Minimum:	2.518
Maximum:	12.400 ppb	Ln Maximum:	2.518
Mean:	12.400 ppb	Ln Mean:	2.518
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND): 100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W4B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4W5A

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4W6A

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4W6A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4W7A

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC21

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC22

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC23

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC32

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC41

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC42

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693

Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC9B

Sample Date Observation
Dec 21 1999 22.000 ppb

Ln
3.091

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 22.000 ppb
Maximum: 22.000 ppb
Mean: 22.000 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 3.091
Ln Maximum: 3.091
Ln Mean: 3.091
Ln Std. Dev.: 0.000

Nonparametric Prediction Interval
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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Chromium, total (CAS Number: 7440-47-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 22.100 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	12.400 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Nonparametric Prediction Interval

Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Chromium, total (CAS Number: 7440-47-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 22.100 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	22.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:29

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford

ST:VA Zip:24141

County:

Contact:

Phone:() -

Permit Type:Background

Constituent:Cu Copper, total

CAS Number: 7440-50-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	3.000 ppb	1.099
Jun 30 1996	2.000 ppb	0.693
Sep 30 1996	4.000 ppb	1.386
Dec 31 1996	0.500 ppb	-0.693 (* Nondetect *)
Jun 30 1997	0.500 ppb	-0.693 (* Nondetect *)
Sep 30 1997	3.000 ppb	1.099
Dec 31 1997	4.000 ppb	1.386
Jan 21 1998	1.000 ppb	0.000
Apr 08 1998	0.500 ppb	-0.693 (* Nondetect *)
Jul 07 1998	2.000 ppb	0.693
Oct 13 1998	3.000 ppb	1.099
Mar 05 1999	27.000 ppb	3.296
May 26 1999	4.000 ppb	1.386
Jul 23 1999	9.000 ppb	2.197
Nov 05 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 10 1999	5.000 ppb	1.609
Dec 11 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 12 1999	1.000 ppb	0.000
Dec 13 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 14 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 15 1999	31.800 ppb	3.459
Dec 16 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 17 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 18 1999	0.500 ppb	-0.693 (* Nondetect *)

Dec 19 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 20 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 48

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	31.800 ppb	Ln Maximum:	3.459
Mean:	3.937 ppb	Ln Mean:	0.385
Std. Dev.:	7.636 ppb	Ln Std. Dev.:	1.284

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W4B Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W6A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	6.190 ppb	1.823

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.190 ppb	Ln Minimum:	1.823
Maximum:	6.190 ppb	Ln Maximum:	1.823
Mean:	6.190 ppb	Ln Mean:	1.823
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693

Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC9B

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Normality Tests

Report Printed: 02-24-2003 19:29

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford ST:VA Zip:24141
County:

Contact:
Phone:() -

Permit Type:Background

Constituent:Cu Copper, total

CAS Number: 7440-50-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:27

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	31.800	3.937	7.636
Log:	-0.693	3.459	0.385	1.284

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	3.937	0.385
Std Dev:	7.636	1.284
Skewness:	2.943*	0.913
Kurtosis:	7.436	-0.122
Minimum:	0.500	-0.693
Maximum:	31.800	3.459
CV:	1.940	3.335

Shapiro-Wilk Statistics

Scale	Test Statistic	5% Critical Value	1% Critical Value
Original:	0.4911*	0.9230	0.8940

Log: 0.8042* 0.9230 0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval

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Facility:Haz. Waste Unit 4 - RAAP
Parameter:Copper, total(CAS Number:7440-50-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 31.800 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well:4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Copper, total (CAS Number: 7440-50-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 31.800 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.190 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:35

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:

Phone:() -

Permit Type:Background

Constituent:Pb Lead, total

CAS Number: 7439-92-1

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	1.000 ppb	0.000
Jun 30 1996	2.000 ppb	0.693
Sep 30 1996	5.000 ppb	1.609
Dec 31 1996	3.000 ppb	1.099
Jun 30 1997	2.000 ppb	0.693
Sep 30 1997	11.000 ppb	2.398
Dec 31 1997	9.000 ppb	2.197
Jan 21 1998	0.500 ppb	-0.693 (* Nondetect *)
Apr 08 1998	0.500 ppb	-0.693 (* Nondetect *)
Jul 07 1998	1.000 ppb	0.000
Oct 13 1998	0.500 ppb	-0.693 (* Nondetect *)
Mar 05 1999	38.000 ppb	3.638
May 26 1999	5.000 ppb	1.609
Jul 23 1999	1.000 ppb	0.000
Nov 05 1999	4.000 ppb	1.386
Dec 10 1999	1.000 ppb	0.000
Dec 11 1999	1.000 ppb	0.000
Dec 12 1999	2.000 ppb	0.693
Dec 13 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 14 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 15 1999	1.500 ppb	0.405
Dec 16 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 17 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 18 1999	0.500 ppb	-0.693 (* Nondetect *)

Dec 19 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 20 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 41

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	38.000 ppb	Ln Maximum:	3.638
Mean:	3.444 ppb	Ln Mean:	0.326
Std. Dev.:	7.397 ppb	Ln Std. Dev.:	1.179

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W4B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	1.590 ppb	0.464

Well ID:4W6A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1.590 ppb	Ln Minimum:	0.464
Maximum:	1.590 ppb	Ln Maximum:	0.464
Mean:	1.590 ppb	Ln Mean:	0.464
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	0.500 ppb	Ln Maximum:	-0.693
Mean:	0.500 ppb	Ln Mean:	-0.693
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC32

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC41

Sample Date Observation
Dec 21 1999 6.160 ppb

Ln
1.818

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 6.160 ppb
Maximum: 6.160 ppb
Mean: 6.160 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 1.818
Ln Maximum: 1.818
Ln Mean: 1.818
Ln Std. Dev.: 0.000

Well ID:4WC42

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693

Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Well ID:4WC9B

Sample Date Observation
Dec 21 1999 0.500 ppb

Ln
-0.693 (* Nondetect *)

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 0.500 ppb
Maximum: 0.500 ppb
Mean: 0.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: -0.693
Ln Maximum: -0.693
Ln Mean: -0.693
Ln Std. Dev.: 0.000

Normality Tests

Report Printed: 02-24-2003 19:35

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone: () -

Permit Type:Background

Constituent:Pb Lead, total

CAS Number: 7439-92-1

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:27

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	38.000	3.444	7.397
Log:	-0.693	3.638	0.326	1.179

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	3.444	0.326
Std Dev:	7.397	1.179
Skewness:	4.019*	1.100*
Kurtosis:	16.091	0.514
Minimum:	0.500	-0.693
Maximum:	38.000	3.638
CV:	2.148	3.619

Shapiro-Wilk Statistics

Test	5% Critical Value	1% Critical Value
Scale Statistic		
Original: 0.4339*	0.9230	0.8940

Log: 0.8335* 0.9230 0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Lead, total (CAS Number: 7439-92-1)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 38.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1.590 ppb

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Lead, total (CAS Number: 7439-92-1)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 38.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.160 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:32

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone:() -

Permit Type:Background

Constituent:Ni Nickel, total

CAS Number: 7440-02-0
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 15.000 ppb

Start Date:Mar 31 1996
End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	22.000 ppb	3.091
Jun 30 1996	7.500 ppb	2.015 (* Nondetect *)
Sep 30 1996	7.500 ppb	2.015 (* Nondetect *)
Dec 31 1996	7.500 ppb	2.015 (* Nondetect *)
Jun 30 1997	7.500 ppb	2.015 (* Nondetect *)
Sep 30 1997	7.500 ppb	2.015 (* Nondetect *)
Dec 31 1997	7.500 ppb	2.015 (* Nondetect *)
Jan 21 1998	7.500 ppb	2.015 (* Nondetect *)
Apr 08 1998	7.500 ppb	2.015 (* Nondetect *)
Jul 07 1998	7.500 ppb	2.015 (* Nondetect *)
Oct 13 1998	7.500 ppb	2.944
Mar 05 1999	19.000 ppb	2.015 (* Nondetect *)
May 26 1999	7.500 ppb	2.015 (* Nondetect *)
Jul 23 1999	7.500 ppb	2.015 (* Nondetect *)
Nov 05 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 10 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 11 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 12 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 13 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 14 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 15 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 16 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 17 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 18 1999	7.500 ppb	2.015 (* Nondetect *)

Dec 19 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 20 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 21 1999	15.200 ppb	2.721

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 89

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	22.000 ppb	Ln Maximum:	3.091
Mean:	8.748 ppb	Ln Mean:	2.115
Std. Dev.:	3.720 ppb	Ln Std. Dev.:	0.294

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	13.400 ppb	2.595

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	13.400 ppb	Ln Minimum:	2.595
Maximum:	13.400 ppb	Ln Maximum:	2.595
Mean:	13.400 ppb	Ln Mean:	2.595
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND): 100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	15.800 ppb	2.760

Well ID:4W4B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	15.800 ppb	Ln Minimum:	2.760
Maximum:	15.800 ppb	Ln Maximum:	2.760
Mean:	15.800 ppb	Ln Mean:	2.760
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4W6A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	7.500 ppb	Ln Maximum:	2.015
Mean:	7.500 ppb	Ln Mean:	2.015
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	16.300 ppb	2.791

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	16.300 ppb	Ln Minimum:	2.791
Maximum:	16.300 ppb	Ln Maximum:	2.791
Mean:	16.300 ppb	Ln Mean:	2.791
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	13.300 ppb	2.588

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	13.300 ppb	Ln Minimum:	2.588
Maximum:	13.300 ppb	Ln Maximum:	2.588

Mean: 13.300 ppb
Std. Dev.: 0.000 ppb

Ln Mean: 2.588
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	13.800 ppb	2.625

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	13.800 ppb	Ln Minimum:	2.625
Maximum:	13.800 ppb	Ln Maximum:	2.625
Mean:	13.800 ppb	Ln Mean:	2.625
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	13.400 ppb	2.595

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	13.400 ppb	Ln Minimum:	2.595
Maximum:	13.400 ppb	Ln Maximum:	2.595
Mean:	13.400 ppb	Ln Mean:	2.595
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Nickel, total (CAS Number: 7440-02-0)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 22.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	13.400 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	15.800 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Nickel, total (CAS Number: 7440-02-0)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 22.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<15.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	16.300 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	13.300 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	13.800 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	13.400 ppb

Data Set Summary

Report Printed: 02-24-2003 19:39

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford ST:VA Zip:24141
County:

Contact:
Phone:() -

Permit Type:Background

Constituent:Zn Zinc, total

CAS Number: 7440-66-6
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 5.000 ppb

Start Date:Mar 31 1996
End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	42.000 ppb	3.738
Jun 30 1996	2.500 ppb	0.916 (* Nondetect *)
Sep 30 1996	139.000 ppb	4.934
Dec 31 1996	20.000 ppb	2.996
Jun 30 1997	36.000 ppb	3.584
Sep 30 1997	29.000 ppb	3.367
Dec 31 1997	25.000 ppb	3.219
Jan 21 1998	2.500 ppb	0.916 (* Nondetect *)
Apr 08 1998	2.500 ppb	0.916 (* Nondetect *)
Jul 07 1998	2.500 ppb	0.916 (* Nondetect *)
Oct 13 1998	20.000 ppb	2.996
Mar 05 1999	83.000 ppb	4.419
May 26 1999	17.000 ppb	2.833
Jul 23 1999	2.500 ppb	0.916 (* Nondetect *)
Nov 05 1999	42.000 ppb	3.738
Dec 10 1999	6.000 ppb	1.792
Dec 11 1999	6.000 ppb	1.792
Dec 12 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 13 1999	5.000 ppb	1.609
Dec 14 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 15 1999	33.500 ppb	3.512
Dec 16 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 17 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 18 1999	2.500 ppb	0.916 (* Nondetect *)

Dec 19 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 20 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 48

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	139.000 ppb	Ln Maximum:	4.934
Mean:	19.852 ppb	Ln Mean:	2.090
Std. Dev.:	30.539 ppb	Ln Std. Dev.:	1.339

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	49.400 ppb	3.900

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	49.400 ppb	Ln Minimum:	3.900
Maximum:	49.400 ppb	Ln Maximum:	3.900
Mean:	49.400 ppb	Ln Mean:	3.900
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	67.500 ppb	4.212

Well ID:4W4B Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	67.500 ppb	Ln Minimum:	4.212
Maximum:	67.500 ppb	Ln Maximum:	4.212
Mean:	67.500 ppb	Ln Mean:	4.212
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	25.100 ppb	3.223

Well ID:4W6A Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	25.100 ppb	Ln Minimum:	3.223
Maximum:	25.100 ppb	Ln Maximum:	3.223
Mean:	25.100 ppb	Ln Mean:	3.223
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	41.600 ppb	3.728

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	41.600 ppb	Ln Minimum:	3.728
Maximum:	41.600 ppb	Ln Maximum:	3.728
Mean:	41.600 ppb	Ln Mean:	3.728
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916

Mean: 2.500 ppb
Std. Dev.: 0.000 ppb

Ln Mean: 0.916
Ln Std. Dev.: 0.000

Well ID:4WC43

Sample Date Observation
Dec 21 1999 24.700 ppb

Ln
3.207

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 24.700 ppb
Maximum: 24.700 ppb
Mean: 24.700 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 3.207
Ln Maximum: 3.207
Ln Mean: 3.207
Ln Std. Dev.: 0.000

Well ID:4WC9B

Sample Date Observation
Dec 21 1999 2.500 ppb

Ln
0.916 (* Nondetect *)

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum: 2.500 ppb
Maximum: 2.500 ppb
Mean: 2.500 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 0.916
Ln Maximum: 0.916
Ln Mean: 0.916
Ln Std. Dev.: 0.000

Normality Tests

Report, Printed: 02-24-2003 19:39

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone:() -

Permit Type:Background

Constituent:Zn Zinc, total

CAS Number: 7440-66-6

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 5.000 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:27

Scale	Minimum	Maximum	Mean	Std Dev
Original:	2.500	139.000	19.852	30.539
Log:	0.916	4.934	2.090	1.339

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	19.852	2.090
Std Dev:	30.539	1.339
Skewness:	2.609*	0.571
Kurtosis:	7.071	-1.145
Minimum:	2.500	0.916
Maximum:	139.000	4.934
CV:	1.538	0.641

Shapiro-Wilk Statistics

Scale	Test Statistic	5% Critical Value	1% Critical Value
Original:	0.6282*	0.9230	0.8940

Log: 0.8029* 0.9230 0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval

Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Zinc, total (CAS Number: 7440-66-6)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 139.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	49.400 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	67.500 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	25.100 ppb

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	41.600 ppb

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Zinc, total (CAS Number: 7440-66-6)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 139.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	24.700 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<5.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:15

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone:() -

Permit Type:Background

Constituent:Chlorofm Chloroform

CAS Number: 67-66-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 0.100 ppb

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	0.050 ppb	-2.996 (* Nondetect *)
Jun 30 1996	0.050 ppb	-2.996 (* Nondetect *)
Sep 30 1996	0.050 ppb	-2.996 (* Nondetect *)
Dec 31 1996	0.050 ppb	-2.996 (* Nondetect *)
Jun 30 1997	0.050 ppb	-2.996 (* Nondetect *)
Sep 30 1997	0.050 ppb	-2.996 (* Nondetect *)
Dec 31 1997	0.050 ppb	-2.996 (* Nondetect *)
Jan 21 1998	0.050 ppb	-2.996 (* Nondetect *)
Apr 08 1998	0.050 ppb	-2.996 (* Nondetect *)
Jul 07 1998	0.050 ppb	-2.996 (* Nondetect *)
Oct 13 1998	0.050 ppb	-2.996 (* Nondetect *)
Mar 05 1999	0.050 ppb	-2.996 (* Nondetect *)
May 26 1999	0.050 ppb	-2.996 (* Nondetect *)
Jul 23 1999	1.600 ppb	0.470
Nov 05 1999	1.600 ppb	0.470
Dec 10 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 11 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 12 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 13 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 14 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 15 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 16 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 17 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 18 1999	0.050 ppb	-2.996 (* Nondetect *)

Dec 19 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 20 1999	0.050 ppb	-2.996 (* Nondetect *)
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 93

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	1.600 ppb	Ln Maximum:	0.470
Mean:	0.165 ppb	Ln Mean:	-2.739
Std. Dev.:	0.414 ppb	Ln Std. Dev.:	0.925

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4W4B Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	1.720 ppb	0.542

Well ID:4W6A Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	1.720 ppb	Ln Minimum:	0.542
Maximum:	1.720 ppb	Ln Maximum:	0.542
Mean:	1.720 ppb	Ln Mean:	0.542
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	1.640 ppb	0.495

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1.640 ppb	Ln Minimum:	0.495
Maximum:	1.640 ppb	Ln Maximum:	0.495
Mean:	1.640 ppb	Ln Mean:	0.495
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	2.220 ppb	0.798

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	2.220 ppb	Ln Minimum:	0.798
Maximum:	2.220 ppb	Ln Maximum:	0.798
Mean:	2.220 ppb	Ln Mean:	0.798
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996

Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	1.800 ppb	0.588

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1.800 ppb	Ln Minimum:	0.588
Maximum:	1.800 ppb	Ln Maximum:	0.588
Mean:	1.800 ppb	Ln Mean:	0.588
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	0.050 ppb	-2.996 (* Nondetect *)

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	0.050 ppb	Ln Minimum:	-2.996
Maximum:	0.050 ppb	Ln Maximum:	-2.996
Mean:	0.050 ppb	Ln Mean:	-2.996
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval

Report Printed February 24, 2003

Page 1

Facility: Haz. Waste Unit 4 - RAAP
Parameter: Chloroform (CAS Number: 67-66-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 1.600 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1.720 ppb *

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1.640 ppb *

Nonparametric Prediction Interval

Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Chloroform (CAS Number: 67-66-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 1.600 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2.220 ppb *

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1.800 ppb *

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<0.100 ppb

Data Set Summary

Report Printed: 02-24-2003 19:42

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone:() -

Permit Type:Background

Constituent:TOC Total Organic Carbon

CAS Number: - -
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 1000.000 ppb

Start Date:Mar 31 1996
End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Mar 31 1996	500.000 ppb	6.215 (* Nondetect *)
Jun 30 1996	2000.000 ppb	7.601
Sep 30 1996	2000.000 ppb	7.601
Dec 31 1996	500.000 ppb	6.215 (* Nondetect *)
Jun 30 1997	2000.000 ppb	7.601
Sep 30 1997	500.000 ppb	6.215 (* Nondetect *)
Dec 31 1997	500.000 ppb	6.215 (* Nondetect *)
Jan 21 1998	1425.000 ppb	7.262
Apr 08 1998	500.000 ppb	6.215 (* Nondetect *)
Jul 07 1998	500.000 ppb	6.215 (* Nondetect *)
Oct 13 1998	500.000 ppb	6.215 (* Nondetect *)
Mar 05 1999	6125.000 ppb	8.720
May 26 1999	500.000 ppb	6.215 (* Nondetect *)
Jul 23 1999	500.000 ppb	6.215 (* Nondetect *)
Nov 05 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 10 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 11 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 12 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 13 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 14 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 15 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 16 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 17 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 18 1999	500.000 ppb	6.215 (* Nondetect *)

Dec 19 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 20 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4P3 Summary Statistics

Observations (N): 27
Nondetects (%ND): 81

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	6125.000 ppb	Ln Maximum:	8.720
Mean:	909.259 ppb	Ln Mean:	6.500
Std. Dev.:	1155.654 ppb	Ln Std. Dev.:	0.649

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	4000.000 ppb	8.294

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	4000.000 ppb	Ln Minimum:	8.294
Maximum:	4000.000 ppb	Ln Maximum:	8.294
Mean:	4000.000 ppb	Ln Mean:	8.294
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	3400.000 ppb	8.132

Well ID:4W4B Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	3400.000 ppb	Ln Minimum:	8.132
Maximum:	3400.000 ppb	Ln Maximum:	8.132
Mean:	3400.000 ppb	Ln Mean:	8.132
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4W5A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4W6A Summary Statistics

Observations (N): 1
 Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	2200.000 ppb	7.696

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	2200.000 ppb	Ln Minimum:	7.696
Maximum:	2200.000 ppb	Ln Maximum:	7.696
Mean:	2200.000 ppb	Ln Mean:	7.696
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215

Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	1300.000 ppb	7.170

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1300.000 ppb	Ln Minimum:	7.170
Maximum:	1300.000 ppb	Ln Maximum:	7.170
Mean:	1300.000 ppb	Ln Mean:	7.170
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval
Report Printed February 24,2003

Page 1

Facility:Haz. Waste Unit 4 - RAAP
Parameter:Total Organic Carbon(CAS Number:- -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 6125.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well:4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	4000.000 ppb

Well:4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	3400.000 ppb

Well:4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well:4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well:4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well:4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2200.000 ppb

Nonparametric Prediction Interval

Report Printed February 24, 2003

Page 2

Facility: Haz. Waste Unit 4 - RAAP
Parameter: Total Organic Carbon (CAS Number: - -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 6125.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1300.000 ppb

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND<1000.000 ppb

Data Set Summary

Report Printed: 02-24-2003 19:44

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:

Phone:() -

Permit Type:Background

Constituent:pH F pH, Field

CAS Number: - -

MCL: 0.000 SU

ACL: 0.000 SU

Detect Limit: 0.100 SU

Start Date:Mar 31 1996

End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Jun 30 1997	6.500 SU	1.872
Sep 30 1997	7.000 SU	1.946
Dec 31 1997	7.100 SU	1.960
Jan 21 1998	7.100 SU	1.960
Apr 08 1998	6.700 SU	1.902
Jul 07 1998	6.200 SU	1.825
Oct 13 1998	6.500 SU	1.872
Mar 05 1999	8.800 SU	2.175
May 26 1999	7.200 SU	1.974
Jul 23 1999	6.740 SU	1.908
Nov 05 1999	7.260 SU	1.982
Dec 10 1999	7.000 SU	1.946
Dec 11 1999	6.900 SU	1.932
Dec 12 1999	6.900 SU	1.932
Dec 13 1999	6.800 SU	1.917
Dec 14 1999	7.100 SU	1.960
Dec 15 1999	7.000 SU	1.946
Dec 16 1999	6.600 SU	1.887
Dec 17 1999	6.900 SU	1.932
Dec 18 1999	6.920 SU	1.934
Dec 19 1999	6.850 SU	1.924
Dec 20 1999	6.750 SU	1.910
Dec 21 1999	6.730 SU	1.907

Well ID:4P3 Summary Statistics

Observations (N): 23
Nondetects (%ND): 0

Minimum:	6.200 SU	Ln Minimum:	1.825
Maximum:	8.800 SU	Ln Maximum:	2.175
Mean:	6.937 SU	Ln Mean:	1.935
Std. Dev.:	0.476 SU	Ln Std. Dev.:	0.064

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	6.810 SU	1.918

Well ID:4MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.810 SU	Ln Minimum:	1.918
Maximum:	6.810 SU	Ln Maximum:	1.918
Mean:	6.810 SU	Ln Mean:	1.918
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	6.860 SU	1.926

Well ID:4W2B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.860 SU	Ln Minimum:	1.926
Maximum:	6.860 SU	Ln Maximum:	1.926
Mean:	6.860 SU	Ln Mean:	1.926
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	6.650 SU	1.895

Well ID:4W4B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.650 SU	Ln Minimum:	1.895
Maximum:	6.650 SU	Ln Maximum:	1.895
Mean:	6.650 SU	Ln Mean:	1.895
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	6.880 SU	1.929

Well ID:4W5A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.880 SU	Ln Minimum:	1.929
Maximum:	6.880 SU	Ln Maximum:	1.929
Mean:	6.880 SU	Ln Mean:	1.929
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	6.930 SU	1.936

Well ID:4W6A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.930 SU	Ln Minimum:	1.936
Maximum:	6.930 SU	Ln Maximum:	1.936
Mean:	6.930 SU	Ln Mean:	1.936
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	6.760 SU	1.911

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.760 SU	Ln Minimum:	1.911
Maximum:	6.760 SU	Ln Maximum:	1.911
Mean:	6.760 SU	Ln Mean:	1.911
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	6.980 SU	1.943

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.980 SU	Ln Minimum:	1.943
Maximum:	6.980 SU	Ln Maximum:	1.943
Mean:	6.980 SU	Ln Mean:	1.943
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	6.970 SU	1.942

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.970 SU	Ln Minimum:	1.942
Maximum:	6.970 SU	Ln Maximum:	1.942
Mean:	6.970 SU	Ln Mean:	1.942
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	6.990 SU	1.944

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.990 SU	Ln Minimum:	1.944
Maximum:	6.990 SU	Ln Maximum:	1.944
Mean:	6.990 SU	Ln Mean:	1.944

Std. Dev.: 0.000 SU

Ln Std. Dev.: 0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	6.950 SU	1.939

Well ID:4WC32 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.950 SU	Ln Minimum:	1.939
Maximum:	6.950 SU	Ln Maximum:	1.939
Mean:	6.950 SU	Ln Mean:	1.939
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	6.630 SU	1.892

Well ID:4WC41 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.630 SU	Ln Minimum:	1.892
Maximum:	6.630 SU	Ln Maximum:	1.892
Mean:	6.630 SU	Ln Mean:	1.892
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	6.790 SU	1.915

Well ID:4WC42 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.790 SU	Ln Minimum:	1.915
Maximum:	6.790 SU	Ln Maximum:	1.915
Mean:	6.790 SU	Ln Mean:	1.915
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	6.740 SU	1.908

Well ID:4WC43 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.740 SU	Ln Minimum:	1.908
Maximum:	6.740 SU	Ln Maximum:	1.908
Mean:	6.740 SU	Ln Mean:	1.908
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	6.740 SU	1.908

Well ID:4WC9B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.740 SU	Ln Minimum:	1.908
Maximum:	6.740 SU	Ln Maximum:	1.908
Mean:	6.740 SU	Ln Mean:	1.908
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-24-2003 19:44

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford

ST:VA Zip:24141

County:

Contact:

Phone:() -

Permit Type:Background

Constituent:pH F pH, Field

CAS Number: - -

MCL: 0.000 SU

ACL: 0.000 SU

Detect Limit: 0.100 SU

Start Date:Mar 31 1996

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:23

Scale	Minimum	Maximum	Mean	Std Dev
Original:	6.200	8.800	6.937	0.476
Log:	1.825	2.175	1.935	0.064

Pooled Statistics

Observations: 23

Statistic	Original	Log
	Scale	Scale
Mean:	6.937	1.935
Std Dev:	0.476	0.064
Skewness:	2.542*	2.138*
Kurtosis:	8.559	7.028
Minimum:	6.200	1.825
Maximum:	8.800	2.175
CV:	0.069	0.033

Shapiro-Wilk Statistics

Test	5% Critical	1% Critical
Scale Statistic	Value	Value
Original: 0.7275*	0.9140	0.8810

Log: 0.7779* 0.9140 0.8810

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval

Report Printed February 24, 2003

Page 1

Facility: Haz. Waste Unit 4 - RAAP
Parameter: pH, Field(CAS Number:- -)

TWO-TAILED PARAMETRIC PREDICTION INTERVAL

Observations (n): 23
Conf. Level (1- α): 91.670%

UL: 8.800 SU
LL: 6.200 SU

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.810 SU

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.860 SU

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.650 SU

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.880 SU

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.930 SU

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.760 SU

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.980 SU

Nonparametric Prediction Interval
Report Printed February 24, 2003

Page 2

Facility: Haz. Waste Unit 4 - RAAP
Parameter: pH, Field (CAS Number: - -)

TWO-TAILED PARAMETRIC PREDICTION INTERVAL

Observations (n): 23
Conf. Level (1- α): 91.670%

UL: 8.800 SU
LL: 6.200 SU

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.970 SU

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.990 SU

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.950 SU

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.630 SU

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.790 SU

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.740 SU

Well: 4WC9B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.740 SU

Data Set Summary

Report Printed: 02-24-2003 19:22

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford
County:

ST:VA Zip:24141

Contact:
Phone:() -

Permit Type:Background

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -
MCL: 0.000 umhos/cm
ACL: 0.000 umhos/cm
Detect Limit: 1.000 umhos/cm

Start Date:Mar 31 1996
End Date:Dec 21 1999

Well ID:4P3

Sample Date	Observation	Ln
Jun 30 1997	598.000 umhos/cm	6.394
Sep 30 1997	598.000 umhos/cm	6.394
Dec 31 1997	550.000 umhos/cm	6.310
Jan 21 1998	523.000 umhos/cm	6.260
Apr 08 1998	533.000 umhos/cm	6.279
Jul 07 1998	540.000 umhos/cm	6.292
Oct 13 1998	488.000 umhos/cm	6.190
Mar 05 1999	3393.000 umhos/cm	8.129
May 26 1999	538.000 umhos/cm	6.288
Jul 23 1999	557.000 umhos/cm	6.323
Nov 05 1999	654.000 umhos/cm	6.483
Dec 10 1999	347.000 umhos/cm	5.849
Dec 11 1999	275.000 umhos/cm	5.617
Dec 12 1999	428.000 umhos/cm	6.059
Dec 13 1999	487.000 umhos/cm	6.188
Dec 14 1999	430.000 umhos/cm	6.064
Dec 15 1999	330.000 umhos/cm	5.799
Dec 16 1999	426.000 umhos/cm	6.054
Dec 17 1999	403.000 umhos/cm	5.999
Dec 18 1999	409.000 umhos/cm	6.014
Dec 19 1999	380.000 umhos/cm	5.940
Dec 20 1999	384.000 umhos/cm	5.951
Dec 21 1999	465.000 umhos/cm	6.142

Well ID:4P3 Summary Statistics

Observations (N): 23
 Nondetects (%ND): 0

Minimum:	275.000 umhos/cm	Ln Minimum:	5.617
Maximum:	3393.000 umhos/cm	Ln Maximum:	8.129
Mean:	597.217 umhos/cm	Ln Mean:	6.218
Std. Dev.:	616.846 umhos/cm	Ln Std. Dev.:	0.468

Well ID:4MW7

Sample Date	Observation	Ln
Dec 21 1999	810.000 umhos/cm	6.697

Well ID:4MW7 Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	810.000 umhos/cm	Ln Minimum:	6.697
Maximum:	810.000 umhos/cm	Ln Maximum:	6.697
Mean:	810.000 umhos/cm	Ln Mean:	6.697
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4W2B

Sample Date	Observation	Ln
Dec 21 1999	559.000 umhos/cm	6.326

Well ID:4W2B Summary Statistics

Observations (N): 1
 Nondetects (%ND): 0

Minimum:	559.000 umhos/cm	Ln Minimum:	6.326
Maximum:	559.000 umhos/cm	Ln Maximum:	6.326
Mean:	559.000 umhos/cm	Ln Mean:	6.326
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4W4B

Sample Date	Observation	Ln
Dec 21 1999	959.000 umhos/cm	6.866

Well ID:4W4B Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	959.000 umhos/cm	Ln Minimum:	6.866
Maximum:	959.000 umhos/cm	Ln Maximum:	6.866
Mean:	959.000 umhos/cm	Ln Mean:	6.866
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4W5A

Sample Date	Observation	Ln
Dec 21 1999	501.000 umhos/cm	6.217

Well ID:4W5A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	501.000 umhos/cm	Ln Minimum:	6.217
Maximum:	501.000 umhos/cm	Ln Maximum:	6.217
Mean:	501.000 umhos/cm	Ln Mean:	6.217
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4W6A

Sample Date	Observation	Ln
Dec 21 1999	556.000 umhos/cm	6.321

Well ID:4W6A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	556.000 umhos/cm	Ln Minimum:	6.321
Maximum:	556.000 umhos/cm	Ln Maximum:	6.321
Mean:	556.000 umhos/cm	Ln Mean:	6.321
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4W7A

Sample Date	Observation	Ln
Dec 21 1999	800.000 umhos/cm	6.685

Well ID:4W7A Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	800.000 umhos/cm	Ln Minimum:	6.685
Maximum:	800.000 umhos/cm	Ln Maximum:	6.685
Mean:	800.000 umhos/cm	Ln Mean:	6.685
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC21

Sample Date	Observation	Ln
Dec 21 1999	632.000 umhos/cm	6.449

Well ID:4WC21 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	632.000 umhos/cm	Ln Minimum:	6.449
Maximum:	632.000 umhos/cm	Ln Maximum:	6.449
Mean:	632.000 umhos/cm	Ln Mean:	6.449
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC22

Sample Date	Observation	Ln
Dec 21 1999	657.000 umhos/cm	6.488

Well ID:4WC22 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	657.000 umhos/cm	Ln Minimum:	6.488
Maximum:	657.000 umhos/cm	Ln Maximum:	6.488
Mean:	657.000 umhos/cm	Ln Mean:	6.488
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC23

Sample Date	Observation	Ln
Dec 21 1999	652.000 umhos/cm	6.480

Well ID:4WC23 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	652.000 umhos/cm	Ln Minimum:	6.480
Maximum:	652.000 umhos/cm	Ln Maximum:	6.480
Mean:	652.000 umhos/cm	Ln Mean:	6.480

Std. Dev.: 0.000 umhos/cm Ln Std. Dev.: 0.000

Well ID:4WC32

Sample Date	Observation	Ln
Dec 21 1999	583.000 umhos/cm	6.368

Well ID:4WC32 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	583.000 umhos/cm	Ln Minimum:	6.368
Maximum:	583.000 umhos/cm	Ln Maximum:	6.368
Mean:	583.000 umhos/cm	Ln Mean:	6.368
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC41

Sample Date	Observation	Ln
Dec 21 1999	780.000 umhos/cm	6.659

Well ID:4WC41 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	780.000 umhos/cm	Ln Minimum:	6.659
Maximum:	780.000 umhos/cm	Ln Maximum:	6.659
Mean:	780.000 umhos/cm	Ln Mean:	6.659
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC42

Sample Date	Observation	Ln
Dec 21 1999	715.000 umhos/cm	6.572

Well ID:4WC42 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	715.000 umhos/cm	Ln Minimum:	6.572
Maximum:	715.000 umhos/cm	Ln Maximum:	6.572
Mean:	715.000 umhos/cm	Ln Mean:	6.572
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC43

Sample Date	Observation	Ln
Dec 21 1999	811.000 umhos/cm	6.698

Well ID:4WC43 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	811.000 umhos/cm	Ln Minimum:	6.698
Maximum:	811.000 umhos/cm	Ln Maximum:	6.698
Mean:	811.000 umhos/cm	Ln Mean:	6.698
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:4WC9B

Sample Date	Observation	Ln
Dec 21 1999	751.000 umhos/cm	6.621

Well ID:4WC9B Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	751.000 umhos/cm	Ln Minimum:	6.621
Maximum:	751.000 umhos/cm	Ln Maximum:	6.621
Mean:	751.000 umhos/cm	Ln Mean:	6.621
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-24-2003 19:23

Facility:RAAPHWMU4 Haz. Waste Unit 4 - RAAP

Address:

City:Radford ST:VA Zip:24141
County:

Contact:
Phone:() -

Permit Type:Background

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -
MCL: 0.000 umhos/cm
ACL: 0.000 umhos/cm
Detect Limit: 1.000 umhos/cm

Start Date:Mar 31 1996
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:4P3 Position:Upgradient Observations:23

Scale	Minimum	Maximum	Mean	Std Dev
Original:	275.000	3393.000	597.217	616.846
Log:	5.617	8.129	6.218	0.468

Pooled Statistics

Observations: 23

Statistic	Original Scale	Log Scale
Mean:	597.217	6.218
Std Dev:	616.846	0.468
Skewness:	4.303*	2.996*
Kurtosis:	17.063	10.442
Minimum:	275.000	5.617
Maximum:	3393.000	8.129
CV:	1.033	0.075

Shapiro-Wilk Statistics

Test	5% Critical	1% Critical
Scale Statistic	Value	Value
Original: 0.3532*	0.9140	0.8810

Log: 0.6615* 0.9140 0.8810

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP
Parameter: Specific Conductivity, Field (CAS Number: - -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 23
Conf. Level (1- α): 95.830%

UL: 3393.000 umhos/cm
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	810.000 umhos/cm

Well: 4W2B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	559.000 umhos/cm

Well: 4W4B

<u>Sample Date</u>	<u>Observation</u>
12/21/99	959.000 umhos/cm

Well: 4W5A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	501.000 umhos/cm

Well: 4W6A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	556.000 umhos/cm

Well: 4W7A

<u>Sample Date</u>	<u>Observation</u>
12/21/99	800.000 umhos/cm

Well: 4WC21

<u>Sample Date</u>	<u>Observation</u>
12/21/99	632.000 umhos/cm

Nonparametric Prediction Interval

Report Printed February 24, 2003

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Facility: Haz. Waste Unit 4 - RAAP

Parameter: Specific Conductivity, Field (CAS Number: - -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 23
Conf. Level (1- α): 95.830%

UL: 3393.000 umhos/cm
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 4WC22

<u>Sample Date</u>	<u>Observation</u>
12/21/99	657.000 umhos/cm

Well: 4WC23

<u>Sample Date</u>	<u>Observation</u>
12/21/99	652.000 umhos/cm

Well: 4WC32

<u>Sample Date</u>	<u>Observation</u>
12/21/99	583.000 umhos/cm

Well: 4WC41

<u>Sample Date</u>	<u>Observation</u>
12/21/99	780.000 umhos/cm

Well: 4WC42

<u>Sample Date</u>	<u>Observation</u>
12/21/99	715.000 umhos/cm

Well: 4WC43

<u>Sample Date</u>	<u>Observation</u>
12/21/99	811.000 umhos/cm

Well: 4WC9B

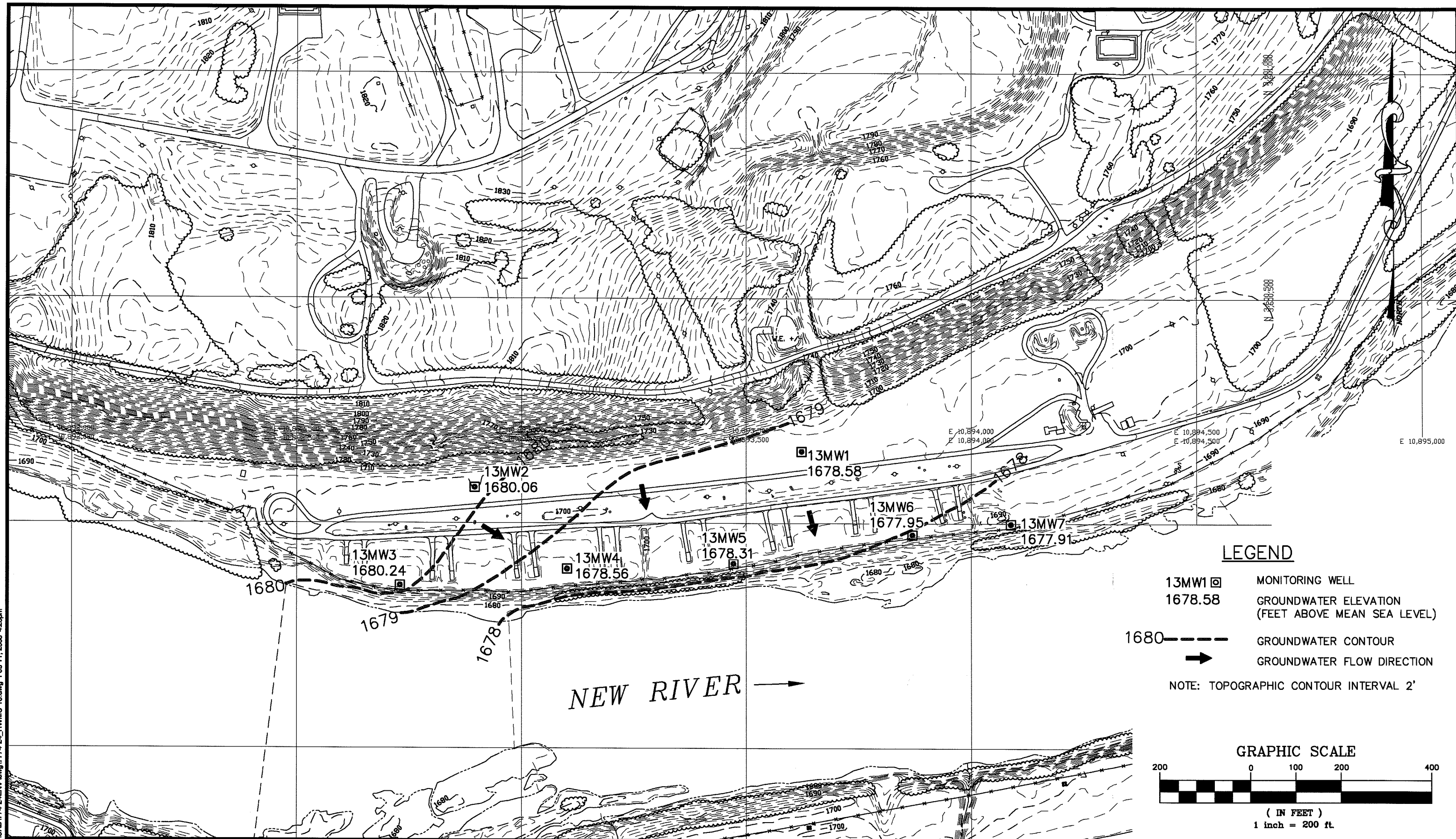
<u>Sample Date</u>	<u>Observation</u>
12/21/99	751.000 umhos/cm

APPENDIX B

HWMU-13

APPENDIX B-1

**HWMU-13 POTENTIOMETRIC SURFACE MAP
THIRD QUARTER 2002**



Draper Aden Associates
Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291

Richmond, VA
Charlottesville, VA
Raleigh-Durham, NC

DESIGNED
DRAWN
CHECKED
DATE

RGM
DRW
AEK
02/06/03

HWMU-13 POTENTIOMETRIC SURFACE MAP (3RD QUARTER 2002)
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

SCALE: 1"=200'

PLAN NO. 7774-24

FIGURE

APPENDIX B-2

HWMU-13 YEAR 2002 LABORATORY ANALYTICAL RESULTS

SiteID	ClientSampID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW1-A	3/5/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW1-A	3/5/2002	Chloride	µg/L	20600	1,000	SW9056	
SITE 13	13MW1-A	3/5/2002	Fluoride	µg/L	200	100	SW9056	
SITE 13	13MW1-A	3/5/2002	Nitrogen, Nitrate	µg/L	340	100	SW9056	
SITE 13	13MW1-A	3/5/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW1-A	3/5/2002	Sulfate	µg/L	65000	5,000	SW9056	
SITE 13	13MW1-A	3/5/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW1-A	3/5/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW1-A	3/5/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW1-A	3/5/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW1-A	3/5/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	3/5/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	3/5/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	3/5/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW1-A	3/5/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW1-A	3/5/2002	Aluminum	µg/L	284	100	SW6010B	
SITE 13	13MW1-A	3/5/2002	Boron	µg/L	102	100	SW6010B	
SITE 13	13MW1-A	3/5/2002	Calcium	µg/L	94900	80	SW6010B	
SITE 13	13MW1-A	3/5/2002	Iron	µg/L	276	100	SW6010B	
SITE 13	13MW1-A	3/5/2002	Magnesium	µg/L	34100	7	SW6010B	
SITE 13	13MW1-A	3/5/2002	Sodium	µg/L	14600	10	SW6010B	
SITE 13	13MW1-A	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-A	3/5/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW1-A	3/5/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	3/5/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	3/5/2002	Barium	µg/L	127	10	SW6020	
SITE 13	13MW1-A	3/5/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	3/5/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	3/5/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	3/5/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	3/5/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW1-A	3/5/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	3/5/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW1-A	3/5/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	3/5/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW1-A	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-A	3/5/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW1-A	3/5/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW1-A	3/5/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	3/5/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	3/5/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	3/5/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	3/5/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	3/5/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	3/5/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW1-B	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-B	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-C	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-C	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-D	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-D	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	3/5/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW2-A	3/5/2002	Chloride	µg/L	2800	1,000	SW9056	
SITE 13	13MW2-A	3/5/2002	Fluoride	µg/L	200	100	SW9056	
SITE 13	13MW2-A	3/5/2002	Nitrogen, Nitrate	µg/L	920	100	SW9056	
SITE 13	13MW2-A	3/5/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW2-A	3/5/2002	Sulfate	µg/L	29900	5,000	SW9056	
SITE 13	13MW2-A	3/5/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW2-A	3/5/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW2-A	3/5/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	

SiteID	ClientSampID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW2-A	3/5/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	3/5/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW2-A	3/5/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	3/5/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW2-A	3/5/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	3/5/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	3/5/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	3/5/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	3/5/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	3/5/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW2-A	3/5/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW2-A	3/5/2002	Aluminum	µg/L	120	100	SW6010B	
SITE 13	13MW2-A	3/5/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	3/5/2002	Calcium	µg/L	83000	80	SW6010B	
SITE 13	13MW2-A	3/5/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	3/5/2002	Magnesium	µg/L	38100	7	SW6010B	
SITE 13	13MW2-A	3/5/2002	Sodium	µg/L	1710	10	SW6010B	
SITE 13	13MW2-A	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-A	3/5/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW2-A	3/5/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	3/5/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	3/5/2002	Barium	µg/L	128	10	SW6020	
SITE 13	13MW2-A	3/5/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	3/5/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	3/5/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	3/5/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	3/5/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW2-A	3/5/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	3/5/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW2-A	3/5/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	3/5/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW2-A	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	3/5/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 13	13MW2-A	3/5/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW2-A	3/5/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	3/5/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	3/5/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	3/5/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	3/5/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	3/5/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	3/5/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW2-B	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-B	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-C	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-C	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-D	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-D	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	3/5/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW3-A	3/5/2002	Chloride	µg/L	4600	1,000	SW9056	
SITE 13	13MW3-A	3/5/2002	Fluoride	µg/L	310	100	SW9056	
SITE 13	13MW3-A	3/5/2002	Nitrogen, Nitrate	µg/L	2660	100	SW9056	
SITE 13	13MW3-A	3/5/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW3-A	3/5/2002	Sulfate	µg/L	118000	5,000	SW9056	
SITE 13	13MW3-A	3/5/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW3-A	3/5/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW3-A	3/5/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW3-A	3/5/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW3-A	3/5/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	3/5/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	3/5/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW3-A	3/5/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW3-A	3/5/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW3-A	3/5/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	3/5/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	3/5/2002	Calcium	µg/L	80400	80	SW6010B	
SITE 13	13MW3-A	3/5/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	3/5/2002	Magnesium	µg/L	34700	7	SW6010B	
SITE 13	13MW3-A	3/5/2002	Sodium	µg/L	12200	10	SW6010B	
SITE 13	13MW3-A	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-A	3/5/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW3-A	3/5/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	3/5/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	3/5/2002	Barium	µg/L	94.9	10	SW6020	
SITE 13	13MW3-A	3/5/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	3/5/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	3/5/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	3/5/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	3/5/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW3-A	3/5/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	3/5/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW3-A	3/5/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	3/5/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW3-A	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	3/5/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 13	13MW3-A	3/5/2002	2,4-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	2,6-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	2-Nitroaniline	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW3-A	3/5/2002	Butyl benzyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	N-Nitrosodiphenylamine	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	Resorcinol	µg/L	ND	10	SW8270C	
SITE 13	13MW3-A	3/5/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	3/5/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	3/5/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	3/5/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	3/5/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	3/5/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW3-B	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-B	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-C	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-C	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-D	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-D	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	DUPLICATE-A	3/5/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	DUPLICATE-A	3/5/2002	Chloride	µg/L	20800	1,000	SW9056	
SITE 13	DUPLICATE-A	3/5/2002	Fluoride	µg/L	230	100	SW9056	
SITE 13	DUPLICATE-A	3/5/2002	Nitrogen, Nitrate	µg/L	370	100	SW9056	
SITE 13	DUPLICATE-A	3/5/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	DUPLICATE-A	3/5/2002	Sulfate	µg/L	65600	5,000	SW9056	
SITE 13	DUPLICATE-A	3/5/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	DUPLICATE-A	3/5/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	DUPLICATE-A	3/5/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	DUPLICATE-A	3/5/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	DUPLICATE-A	3/5/2002	Aluminum	µg/L	248	100	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Calcium	µg/L	96500	80	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Iron	µg/L	281	100	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Magnesium	µg/L	35400	7	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Sodium	µg/L	14600	10	SW6010B	
SITE 13	DUPLICATE-A	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	DUPLICATE-A	3/5/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	DUPLICATE-A	3/5/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Barium	µg/L	133	10	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	DUPLICATE-A	3/5/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	DUPLICATE-A	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	DUPLICATE-A	3/5/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	DUPLICATE-A	3/5/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	DUPLICATE-A	3/5/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	DUPLICATE-A	3/5/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	DUPLICATE-A	3/5/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	DUPLICATE-A	3/5/2002	Nitroguanidine	µg/L	ND	1,000	SW8330	
SITE 13	DUPLICATE-B	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	DUPLICATE-B	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	DUPLICATE-C	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	DUPLICATE-C	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	DUPLICATE-D	3/5/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	DUPLICATE-D	3/5/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK 3/0	3/5/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK 3/0	3/5/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW4-A	3/6/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW4-A	3/6/2002	Chloride	µg/L	6200	1,000	SW9056	
SITE 13	13MW4-A	3/6/2002	Fluoride	µg/L	170	100	SW9056	
SITE 13	13MW4-A	3/6/2002	Nitrogen, Nitrate	µg/L	2810	100	SW9056	
SITE 13	13MW4-A	3/6/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW4-A	3/6/2002	Sulfate	µg/L	68500	5,000	SW9056	
SITE 13	13MW4-A	3/6/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW4-A	3/6/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW4-A	3/6/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW4-A	3/6/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW4-A	3/6/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	3/6/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	3/6/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	3/6/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW4-A	3/6/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW4-A	3/6/2002	Aluminum	µg/L	942	100	SW6010B	
SITE 13	13MW4-A	3/6/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW4-A	3/6/2002	Calcium	µg/L	69900	80	SW6010B	
SITE 13	13MW4-A	3/6/2002	Iron	µg/L	1390	100	SW6010B	
SITE 13	13MW4-A	3/6/2002	Magnesium	µg/L	29600	7	SW6010B	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW4-A	3/6/2002	Sodium	µg/L	9340	10	SW6010B	
SITE 13	13MW4-A	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-A	3/6/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW4-A	3/6/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	3/6/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	3/6/2002	Barium	µg/L	58.7	10	SW6020	
SITE 13	13MW4-A	3/6/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	3/6/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	3/6/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	3/6/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	3/6/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW4-A	3/6/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	3/6/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW4-A	3/6/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	3/6/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW4-A	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	3/6/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW4-A	3/6/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW4-A	3/6/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	3/6/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	3/6/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	3/6/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	3/6/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	3/6/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	3/6/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW4-B	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-B	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-C	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-C	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-D	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-D	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	3/6/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW5-A	3/6/2002	Chloride	µg/L	6800	1,000	SW9056	
SITE 13	13MW5-A	3/6/2002	Fluoride	µg/L	330	100	SW9056	
SITE 13	13MW5-A	3/6/2002	Nitrogen, Nitrate	µg/L	1880	100	SW9056	
SITE 13	13MW5-A	3/6/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW5-A	3/6/2002	Sulfate	µg/L	75800	5,000	SW9056	
SITE 13	13MW5-A	3/6/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW5-A	3/6/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW5-A	3/6/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW5-A	3/6/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW5-A	3/6/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	3/6/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	3/6/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	3/6/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW5-A	3/6/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW5-A	3/6/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	3/6/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	3/6/2002	Calcium	µg/L	81600	80	SW6010B	
SITE 13	13MW5-A	3/6/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	3/6/2002	Magnesium	µg/L	29200	7	SW6010B	
SITE 13	13MW5-A	3/6/2002	Sodium	µg/L	9300	10	SW6010B	
SITE 13	13MW5-A	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-A	3/6/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW5-A	3/6/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	3/6/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	3/6/2002	Barium	µg/L	92.2	10	SW6020	
SITE 13	13MW5-A	3/6/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	3/6/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	3/6/2002	Copper	µg/L	ND	5	SW6020	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW5-A	3/6/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	3/6/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW5-A	3/6/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	3/6/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW5-A	3/6/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	3/6/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW5-A	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	3/6/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 13	13MW5-A	3/6/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW5-A	3/6/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	3/6/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	3/6/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	3/6/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	3/6/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	3/6/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	3/6/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW5-B	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-B	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-C	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-C	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-D	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-D	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	3/6/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW6-A	3/6/2002	Chloride	µg/L	6700	1,000	SW9056	
SITE 13	13MW6-A	3/6/2002	Fluoride	µg/L	320	100	SW9056	
SITE 13	13MW6-A	3/6/2002	Nitrogen, Nitrate	µg/L	640	100	SW9056	
SITE 13	13MW6-A	3/6/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW6-A	3/6/2002	Sulfate	µg/L	163000	5,000	SW9056	
SITE 13	13MW6-A	3/6/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW6-A	3/6/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW6-A	3/6/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW6-A	3/6/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW6-A	3/6/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	3/6/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	3/6/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	3/6/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW6-A	3/6/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW6-A	3/6/2002	Aluminum	µg/L	113	100	SW6010B	
SITE 13	13MW6-A	3/6/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	3/6/2002	Calcium	µg/L	105000	80	SW6010B	
SITE 13	13MW6-A	3/6/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	3/6/2002	Magnesium	µg/L	42000	7	SW6010B	
SITE 13	13MW6-A	3/6/2002	Sodium	µg/L	7500	10	SW6010B	
SITE 13	13MW6-A	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-A	3/6/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW6-A	3/6/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	3/6/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	3/6/2002	Barium	µg/L	84.7	10	SW6020	
SITE 13	13MW6-A	3/6/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	3/6/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	3/6/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	3/6/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	3/6/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW6-A	3/6/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	3/6/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW6-A	3/6/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	3/6/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW6-A	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	3/6/2002	2,4-Dinitrophenol	µg/L	ND	20	SW8270C	
SITE 13	13MW6-A	3/6/2002	2,4-Dinitrotoluene	µg/L	ND	10	SW8270C	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW6-A	3/6/2002	2,6-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	2-Nitroaniline	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW6-A	3/6/2002	Butyl benzyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	Diphenylamine	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	N-Nitrosodiphenylamine	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	Resorcinol	µg/L	ND	10	SW8270C	
SITE 13	13MW6-A	3/6/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	3/6/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	3/6/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	3/6/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	3/6/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	3/6/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW6-B	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-B	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-C	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-C	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-D	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-D	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	3/6/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW7-A	3/6/2002	Chloride	µg/L	5700	1,000	SW9056	
SITE 13	13MW7-A	3/6/2002	Fluoride	µg/L	300	100	SW9056	
SITE 13	13MW7-A	3/6/2002	Nitrogen, Nitrate	µg/L	1910	100	SW9056	
SITE 13	13MW7-A	3/6/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW7-A	3/6/2002	Sulfate	µg/L	135000	5,000	SW9056	
SITE 13	13MW7-A	3/6/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW7-A	3/6/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW7-A	3/6/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW7-A	3/6/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW7-A	3/6/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	3/6/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	3/6/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	3/6/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW7-A	3/6/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW7-A	3/6/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	3/6/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	3/6/2002	Calcium	µg/L	92800	80	SW6010B	
SITE 13	13MW7-A	3/6/2002	Iron	µg/L	112	100	SW6010B	
SITE 13	13MW7-A	3/6/2002	Magnesium	µg/L	36000	7	SW6010B	
SITE 13	13MW7-A	3/6/2002	Sodium	µg/L	8340	10	SW6010B	
SITE 13	13MW7-A	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-A	3/6/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW7-A	3/6/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	3/6/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	3/6/2002	Barium	µg/L	138	10	SW6020	
SITE 13	13MW7-A	3/6/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	3/6/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	3/6/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	3/6/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	3/6/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW7-A	3/6/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	3/6/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW7-A	3/6/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	3/6/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW7-A	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	3/6/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW7-A	3/6/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW7-A	3/6/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	3/6/2002	Resorcinol	µg/L	ND	9	SW8270C	

First Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW7-A	3/6/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	3/6/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	3/6/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	3/6/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	3/6/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	3/6/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW7-B	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-B	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-C	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-C	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-D	3/6/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-D	3/6/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK 3/0	3/6/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK 3/0	3/6/2002	Ethanol	µg/L	ND	200	SW8260B	
Duplicate Well: 13MW1								

Second Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW1-A	5/9/2002	Chloride	µg/L	16900	1,000	SW9056	
SITE 13	13MW1-A	5/9/2002	Fluoride	µg/L	ND	100	SW9056	
SITE 13	13MW1-A	5/9/2002	Nitrogen, Nitrate	µg/L	250	100	SW9056	
SITE 13	13MW1-A	5/9/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW1-A	5/9/2002	Sulfate	µg/L	49200	5,000	SW9056	
SITE 13	13MW1-A	5/9/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW1-A	5/9/2002	Aluminum	µg/L	218	100	SW6010B	
SITE 13	13MW1-A	5/9/2002	Boron	µg/L	103	100	SW6010B	
SITE 13	13MW1-A	5/9/2002	Calcium	µg/L	92400	80	SW6010B	
SITE 13	13MW1-A	5/9/2002	Iron	µg/L	213	100	SW6010B	
SITE 13	13MW1-A	5/9/2002	Magnesium	µg/L	26300	7	SW6010B	
SITE 13	13MW1-A	5/9/2002	Sodium	µg/L	16700	10	SW6010B	
SITE 13	13MW1-A	5/9/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW1-A	5/9/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	5/9/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	5/9/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW1-A	5/9/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW1-A	5/9/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW1-A	5/9/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	5/9/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW1-A	5/9/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	5/9/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	5/9/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	5/9/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	5/9/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW1-A	5/9/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW1-A	5/9/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW1-A	5/9/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW1-A	5/9/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	5/9/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW1-A	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-A	5/9/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW1-A	5/9/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW1-A	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-A	5/9/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	5/9/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	5/9/2002	Barium	µg/L	107	10	SW6020	
SITE 13	13MW1-A	5/9/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	5/9/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	5/9/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	5/9/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	5/9/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW1-A	5/9/2002	Nickel	µg/L	16	10	SW6020	
SITE 13	13MW1-A	5/9/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW1-A	5/9/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW1-B	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-B	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-C	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-C	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-D	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-D	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	5/9/2002	Chloride	µg/L	3000	1,000	SW9056	
SITE 13	13MW2-A	5/9/2002	Fluoride	µg/L	ND	100	SW9056	
SITE 13	13MW2-A	5/9/2002	Nitrogen, Nitrate	µg/L	750	100	SW9056	
SITE 13	13MW2-A	5/9/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW2-A	5/9/2002	Sulfate	µg/L	28300	5,000	SW9056	
SITE 13	13MW2-A	5/9/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW2-A	5/9/2002	Aluminum	µg/L	124	100	SW6010B	
SITE 13	13MW2-A	5/9/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	5/9/2002	Calcium	µg/L	81800	80	SW6010B	

Second Qtr 2002

SiteID	ClientSampID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW2-A	5/9/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	5/9/2002	Magnesium	µg/L	36000	7	SW6010B	
SITE 13	13MW2-A	5/9/2002	Sodium	µg/L	1790	10	SW6010B	
SITE 13	13MW2-A	5/9/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW2-A	5/9/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	5/9/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	5/9/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW2-A	5/9/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW2-A	5/9/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW2-A	5/9/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	5/9/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW2-A	5/9/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	5/9/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	5/9/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	5/9/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	5/9/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW2-A	5/9/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 13	13MW2-A	5/9/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW2-A	5/9/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW2-A	5/9/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	5/9/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW2-A	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-A	5/9/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW2-A	5/9/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW2-A	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	5/9/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	5/9/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	5/9/2002	Barium	µg/L	150	10	SW6020	
SITE 13	13MW2-A	5/9/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	5/9/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	5/9/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	5/9/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	5/9/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW2-A	5/9/2002	Nickel	µg/L	16.6	10	SW6020	
SITE 13	13MW2-A	5/9/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW2-A	5/9/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW2-B	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-B	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-C	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-C	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-D	5/9/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-D	5/9/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK	5/9/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/9/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW3-A	5/13/2002	Chloride	µg/L	4700	1,000	SW9056	
SITE 13	13MW3-A	5/13/2002	Fluoride	µg/L	230	100	SW9056	
SITE 13	13MW3-A	5/13/2002	Nitrogen, Nitrate	µg/L	3250	100	SW9056	
SITE 13	13MW3-A	5/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW3-A	5/13/2002	Sulfate	µg/L	116000	5,000	SW9056	
SITE 13	13MW3-A	5/13/2002	Aluminum	µg/L	ND	100	SW6010B	

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SiteID	ClientSampID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW3-A	5/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	5/13/2002	Calcium	µg/L	77600	80	SW6010B	
SITE 13	13MW3-A	5/13/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	5/13/2002	Magnesium	µg/L	30200	7	SW6010B	
SITE 13	13MW3-A	5/13/2002	Sodium	µg/L	11700	10	SW6010B	
SITE 13	13MW3-A	5/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW3-A	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW3-A	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW3-A	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW3-A	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	5/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW3-A	5/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	5/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	5/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	5/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	5/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW3-A	5/13/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW3-A	5/13/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW3-A	5/13/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW3-A	5/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	5/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW3-A	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-A	5/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW3-A	5/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW3-A	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	5/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	5/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	5/13/2002	Barium	µg/L	97.6	10	SW6020	
SITE 13	13MW3-A	5/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	5/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	5/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	5/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	5/13/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW3-A	5/13/2002	Nickel	µg/L	14.5	10	SW6020	
SITE 13	13MW3-A	5/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW3-A	5/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW3-B	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-B	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-C	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-C	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-D	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-D	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	5/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW4-A	5/13/2002	Chloride	µg/L	6300	1,000	SW9056	
SITE 13	13MW4-A	5/13/2002	Fluoride	µg/L	100	100	SW9056	
SITE 13	13MW4-A	5/13/2002	Nitrogen, Nitrate	µg/L	3250	100	SW9056	
SITE 13	13MW4-A	5/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW4-A	5/13/2002	Sulfate	µg/L	49000	5,000	SW9056	
SITE 13	13MW4-A	5/13/2002	Aluminum	µg/L	264	100	SW6010B	
SITE 13	13MW4-A	5/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW4-A	5/13/2002	Calcium	µg/L	49800	80	SW6010B	
SITE 13	13MW4-A	5/13/2002	Iron	µg/L	355	100	SW6010B	
SITE 13	13MW4-A	5/13/2002	Magnesium	µg/L	20000	7	SW6010B	
SITE 13	13MW4-A	5/13/2002	Sodium	µg/L	8670	10	SW6010B	
SITE 13	13MW4-A	5/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW4-A	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW4-A	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW4-A	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW4-A	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	5/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW4-A	5/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	5/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	5/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	5/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	5/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW4-A	5/13/2002	2,4-Dinitrophenol	µg/L	ND	19	SW8270C	
SITE 13	13MW4-A	5/13/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	6	SW8270C	
SITE 13	13MW4-A	5/13/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW4-A	5/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	5/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW4-A	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-A	5/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW4-A	5/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW4-A	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	5/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	5/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	5/13/2002	Barium	µg/L	54.3	10	SW6020	
SITE 13	13MW4-A	5/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	5/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	5/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	5/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	5/13/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW4-A	5/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	5/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW4-A	5/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW4-B	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-B	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-C	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-C	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-D	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-D	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	5/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW5-A	5/13/2002	Chloride	µg/L	6500	1,000	SW9056	
SITE 13	13MW5-A	5/13/2002	Fluoride	µg/L	370	100	SW9056	
SITE 13	13MW5-A	5/13/2002	Nitrogen, Nitrate	µg/L	1760	100	SW9056	
SITE 13	13MW5-A	5/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW5-A	5/13/2002	Sulfate	µg/L	109000	5,000	SW9056	
SITE 13	13MW5-A	5/13/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	5/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	5/13/2002	Calcium	µg/L	88600	80	SW6010B	
SITE 13	13MW5-A	5/13/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	5/13/2002	Magnesium	µg/L	30700	7	SW6010B	
SITE 13	13MW5-A	5/13/2002	Sodium	µg/L	6900	10	SW6010B	
SITE 13	13MW5-A	5/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW5-A	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW5-A	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW5-A	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW5-A	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	5/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	

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SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW5-A	5/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	5/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	5/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	5/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	5/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW5-A	5/13/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW5-A	5/13/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW5-A	5/13/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW5-A	5/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	5/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW5-A	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-A	5/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW5-A	5/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW5-A	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	5/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	5/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	5/13/2002	Barium	µg/L	104	10	SW6020	
SITE 13	13MW5-A	5/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	5/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	5/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	5/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	5/13/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW5-A	5/13/2002	Nickel	µg/L	18.6	10	SW6020	
SITE 13	13MW5-A	5/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW5-A	5/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW5-B	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-B	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-C	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-C	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-D	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-D	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	5/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW6-A	5/13/2002	Chloride	µg/L	7700	1,000	SW9056	
SITE 13	13MW6-A	5/13/2002	Fluoride	µg/L	240	100	SW9056	
SITE 13	13MW6-A	5/13/2002	Nitrogen, Nitrate	µg/L	790	100	SW9056	
SITE 13	13MW6-A	5/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW6-A	5/13/2002	Sulfate	µg/L	150000	5,000	SW9056	
SITE 13	13MW6-A	5/13/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	5/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	5/13/2002	Calcium	µg/L	102000	80	SW6010B	
SITE 13	13MW6-A	5/13/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	5/13/2002	Magnesium	µg/L	37000	7	SW6010B	
SITE 13	13MW6-A	5/13/2002	Sodium	µg/L	8710	10	SW6010B	
SITE 13	13MW6-A	5/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW6-A	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW6-A	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW6-A	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW6-A	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	5/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW6-A	5/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	5/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	5/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	5/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	5/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW6-A	5/13/2002	2,4-Dinitrophenol	µg/L	ND	17	SW8270C	
SITE 13	13MW6-A	5/13/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	

Second Qtr 2002

SiteID	ClientSampleID	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW6-A	5/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW6-A	5/13/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW6-A	5/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	5/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW6-A	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-A	5/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW6-A	5/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW6-A	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	5/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	5/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	5/13/2002	Barium	µg/L	85.4	10	SW6020	
SITE 13	13MW6-A	5/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	5/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	5/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	5/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	5/13/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW6-A	5/13/2002	Nickel	µg/L	19.2	10	SW6020	
SITE 13	13MW6-A	5/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW6-A	5/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW6-B	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-B	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-C	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-C	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-D	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-D	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	5/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW7-A	5/13/2002	Chloride	µg/L	6600	1,000	SW9056	
SITE 13	13MW7-A	5/13/2002	Fluoride	µg/L	180	100	SW9056	
SITE 13	13MW7-A	5/13/2002	Nitrogen, Nitrate	µg/L	3980	100	SW9056	
SITE 13	13MW7-A	5/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW7-A	5/13/2002	Sulfate	µg/L	99400	5,000	SW9056	
SITE 13	13MW7-A	5/13/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	5/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	5/13/2002	Calcium	µg/L	89200	80	SW6010B	
SITE 13	13MW7-A	5/13/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	5/13/2002	Magnesium	µg/L	32600	7	SW6010B	
SITE 13	13MW7-A	5/13/2002	Sodium	µg/L	7800	10	SW6010B	
SITE 13	13MW7-A	5/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW7-A	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW7-A	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW7-A	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW7-A	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	5/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW7-A	5/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	5/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	5/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	5/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	5/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW7-A	5/13/2002	2,4-Dinitrophenol	µg/L	ND	18	SW8270C	
SITE 13	13MW7-A	5/13/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	2-Nitroaniline	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW7-A	5/13/2002	Butyl benzyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	Diphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	N-Nitrosodiphenylamine	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 13	13MW7-A	5/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	

Second Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW7-A	5/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	5/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW7-A	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-A	5/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW7-A	5/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW7-A	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	5/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	5/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	5/13/2002	Barium	µg/L	133	10	SW6020	
SITE 13	13MW7-A	5/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	5/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	5/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	5/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	5/13/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW7-A	5/13/2002	Nickel	µg/L	20	10	SW6020	
SITE 13	13MW7-A	5/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW7-A	5/13/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW7-B	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-B	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-C	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-C	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-D	5/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-D	5/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK	5/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	5/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	

Third Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW1-A	9/11/2002	Chloride	µg/L	16400	1,000	SW9056	
SITE 13	13MW1-A	9/11/2002	Fluoride	µg/L	160	100	SW9056	
SITE 13	13MW1-A	9/11/2002	Nitrogen, Nitrate	µg/L	260	100	SW9056	
SITE 13	13MW1-A	9/11/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW1-A	9/11/2002	Sulfate	µg/L	62900	5,000	SW9056	
SITE 13	13MW1-A	9/11/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW1-A	9/11/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW1-A	9/11/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW1-A	9/11/2002	Calcium	µg/L	97100	80	SW6010B	
SITE 13	13MW1-A	9/11/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW1-A	9/11/2002	Magnesium	µg/L	32900	7	SW6010B	
SITE 13	13MW1-A	9/11/2002	Sodium	µg/L	15700	10	SW6010B	
SITE 13	13MW1-A	9/11/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW1-A	9/11/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW1-A	9/11/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW1-A	9/11/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW1-A	9/11/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	9/11/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	9/11/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	9/11/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW1-A	9/11/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW1-A	9/11/2002	Boron	µg/L	118	100	SW6010B	
SITE 13	13MW1-A	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-A	9/11/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	9/11/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	9/11/2002	Barium	µg/L	132	10	SW6020	
SITE 13	13MW1-A	9/11/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	9/11/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	9/11/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	9/11/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	9/11/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW1-A	9/11/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	9/11/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW1-A	9/11/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	9/11/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	9/11/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	9/11/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	9/11/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	9/11/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW1-A	9/11/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW1-A	9/11/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	9/11/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW1-A	9/11/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW1-A	9/11/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-B	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-B	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-C	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-C	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-D	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-D	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	9/11/2002	Chloride	µg/L	1800	1,000	SW9056	
SITE 13	13MW2-A	9/11/2002	Fluoride	µg/L	150	100	SW9056	
SITE 13	13MW2-A	9/11/2002	Nitrogen, Nitrate	µg/L	580	100	SW9056	
SITE 13	13MW2-A	9/11/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW2-A	9/11/2002	Sulfate	µg/L	28500	5,000	SW9056	
SITE 13	13MW2-A	9/11/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW2-A	9/11/2002	Mercury	µg/L	2.52	1	SW7470A	
SITE 13	13MW2-A	9/11/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW2-A	9/11/2002	Calcium	µg/L	82300	80	SW6010B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW2-A	9/11/2002	Iron	µg/L	115	100	SW6010B	
SITE 13	13MW2-A	9/11/2002	Magnesium	µg/L	35600	7	SW6010B	
SITE 13	13MW2-A	9/11/2002	Sodium	µg/L	1730	10	SW6010B	
SITE 13	13MW2-A	9/11/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW2-A	9/11/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW2-A	9/11/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW2-A	9/11/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW2-A	9/11/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	9/11/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	9/11/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	9/11/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW2-A	9/11/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	9/11/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-A	9/11/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	9/11/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	9/11/2002	Barium	µg/L	148	10	SW6020	
SITE 13	13MW2-A	9/11/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	9/11/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	9/11/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	9/11/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	9/11/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW2-A	9/11/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	9/11/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW2-A	9/11/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	9/11/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	9/11/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	9/11/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	9/11/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	9/11/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW2-A	9/11/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW2-A	9/11/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	9/11/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW2-A	9/11/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW2-A	9/11/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	9/11/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW2-B	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-B	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-C	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-C	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-D	9/11/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-D	9/11/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	9/12/2002	Chloride	µg/L	4200	1,000	SW9056	
SITE 13	13MW3-A	9/12/2002	Fluoride	µg/L	270	100	SW9056	
SITE 13	13MW3-A	9/12/2002	Nitrogen, Nitrate	µg/L	2950	100	SW9056	
SITE 13	13MW3-A	9/12/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW3-A	9/12/2002	Sulfate	µg/L	114000	5,000	SW9056	
SITE 13	13MW3-A	9/12/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW3-A	9/12/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW3-A	9/12/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW3-A	9/12/2002	Calcium	µg/L	86200	80	SW6010B	
SITE 13	13MW3-A	9/12/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	9/12/2002	Magnesium	µg/L	34800	7	SW6010B	
SITE 13	13MW3-A	9/12/2002	Sodium	µg/L	12700	10	SW6010B	
SITE 13	13MW3-A	9/12/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW3-A	9/12/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW3-A	9/12/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	9/12/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	9/12/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW3-A	9/12/2002	Benzene	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW3-A	9/12/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW3-A	9/12/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	9/12/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	9/12/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	9/12/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	9/12/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	9/12/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW3-A	9/12/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	9/12/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-A	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	9/12/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	9/12/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	9/12/2002	Barium	µg/L	107	10	SW6020	
SITE 13	13MW3-A	9/12/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	9/12/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	9/12/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	9/12/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	9/12/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW3-A	9/12/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	9/12/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW3-A	9/12/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	9/12/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	9/12/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	9/12/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	9/12/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	9/12/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW3-A	9/12/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW3-A	9/12/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	9/12/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW3-A	9/12/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW3-A	9/12/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	9/12/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW3-B	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-B	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-C	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-C	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-D	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-D	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	9/12/2002	Chloride	µg/L	4100	1,000	SW9056	
SITE 13	13MW4-A	9/12/2002	Fluoride	µg/L	120	100	SW9056	
SITE 13	13MW4-A	9/12/2002	Nitrogen, Nitrate	µg/L	1160	100	SW9056	
SITE 13	13MW4-A	9/12/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW4-A	9/12/2002	Sulfate	µg/L	81300	5,000	SW9056	
SITE 13	13MW4-A	9/12/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW4-A	9/12/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW4-A	9/12/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW4-A	9/12/2002	Calcium	µg/L	74700	80	SW6010B	
SITE 13	13MW4-A	9/12/2002	Iron	µg/L	516	100	SW6010B	
SITE 13	13MW4-A	9/12/2002	Magnesium	µg/L	30200	7	SW6010B	
SITE 13	13MW4-A	9/12/2002	Sodium	µg/L	8090	10	SW6010B	
SITE 13	13MW4-A	9/12/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW4-A	9/12/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW4-A	9/12/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW4-A	9/12/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW4-A	9/12/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	9/12/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	9/12/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	9/12/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW4-A	9/12/2002	Aluminum	µg/L	316	100	SW6010B	
SITE 13	13MW4-A	9/12/2002	Boron	µg/L	ND	100	SW6010B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW4-A	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-A	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	9/12/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	9/12/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	9/12/2002	Barium	µg/L	64.2	10	SW6020	
SITE 13	13MW4-A	9/12/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	9/12/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	9/12/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	9/12/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	9/12/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW4-A	9/12/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	9/12/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW4-A	9/12/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	9/12/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	9/12/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	9/12/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	9/12/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	9/12/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW4-A	9/12/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW4-A	9/12/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	9/12/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW4-A	9/12/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW4-A	9/12/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	9/12/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW4-B	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-B	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-C	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-C	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-D	9/12/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-D	9/12/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK	9/11/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/11/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/12/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW5-A	9/17/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW5-A	9/17/2002	Mercury	µg/L	ND	1	SW7740A	
SITE 13	13MW5-A	9/17/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW5-A	9/17/2002	Calcium	µg/L	93400	80	SW6010B	
SITE 13	13MW5-A	9/17/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	9/17/2002	Magnesium	µg/L	33400	7	SW6010B	
SITE 13	13MW5-A	9/17/2002	Sodium	µg/L	9090	10	SW6010B	
SITE 13	13MW5-A	9/17/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW5-A	9/17/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW5-A	9/17/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW5-A	9/17/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW5-A	9/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	9/17/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	9/17/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	9/17/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW5-A	9/17/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	9/17/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-A	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	9/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	9/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	9/17/2002	Barium	µg/L	118	10	SW6020	
SITE 13	13MW5-A	9/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	9/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	9/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	9/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	9/17/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW5-A	9/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	9/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW5-A	9/17/2002	Zinc	µg/L	12	10	SW6020	
SITE 13	13MW5-A	9/17/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	9/17/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	9/17/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	9/17/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	9/17/2002	Nitroguanidine	µg/L	ND	1,000	SW8330	
SITE 13	13MW5-A	9/17/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW5-A	9/17/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	9/17/2002	Chloride	µg/L	5800	1,000	SW9056	
SITE 13	13MW5-A	9/17/2002	Fluoride	µg/L	440	100	SW9056	
SITE 13	13MW5-A	9/17/2002	Nitrogen, Nitrate	µg/L	2820	100	SW9056	
SITE 13	13MW5-A	9/17/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW5-A	9/17/2002	Sulfate	µg/L	94400	5,000	SW9056	
SITE 13	13MW5-A	9/17/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW5-A	9/17/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW5-A	9/17/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	9/17/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW5-B	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-B	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-C	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-C	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-D	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW5-D	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	9/17/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW6-A	9/17/2002	Mercury	µg/L	5.76	1	SW7470A	
SITE 13	13MW6-A	9/17/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW6-A	9/17/2002	Calcium	µg/L	106000	80	SW6010B	
SITE 13	13MW6-A	9/17/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	9/17/2002	Magnesium	µg/L	41100	7	SW6010B	
SITE 13	13MW6-A	9/17/2002	Sodium	µg/L	7690	10	SW6010B	
SITE 13	13MW6-A	9/17/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW6-A	9/17/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW6-A	9/17/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW6-A	9/17/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW6-A	9/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	9/17/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	9/17/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	9/17/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW6-A	9/17/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	9/17/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW6-A	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	9/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	9/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	9/17/2002	Barium	µg/L	87.9	10	SW6020	
SITE 13	13MW6-A	9/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	9/17/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	9/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	9/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	9/17/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW6-A	9/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	9/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW6-A	9/17/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	9/17/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	9/17/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	9/17/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	9/17/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	9/17/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW6-A	9/17/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW6-A	9/17/2002	Chloride	µg/L	5900	1,000	SW9056	
SITE 13	13MW6-A	9/17/2002	Fluoride	µg/L	460	100	SW9056	
SITE 13	13MW6-A	9/17/2002	Nitrogen, Nitrate	µg/L	590	100	SW9056	
SITE 13	13MW6-A	9/17/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW6-A	9/17/2002	Sulfate	µg/L	162000	5,000	SW9056	
SITE 13	13MW6-A	9/17/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW6-A	9/17/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW6-A	9/17/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	9/17/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	9/17/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-B	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-B	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-C	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-C	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-D	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-D	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	9/17/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW7-A	9/17/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW7-A	9/17/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW7-A	9/17/2002	Calcium	µg/L	96100	80	SW6010B	
SITE 13	13MW7-A	9/17/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	9/17/2002	Magnesium	µg/L	35800	7	SW6010B	
SITE 13	13MW7-A	9/17/2002	Sodium	µg/L	9020	10	SW6010B	
SITE 13	13MW7-A	9/17/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW7-A	9/17/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW7-A	9/17/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW7-A	9/17/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW7-A	9/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	9/17/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	9/17/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	9/17/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW7-A	9/17/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	9/17/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	9/17/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	9/17/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	9/17/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW7-A	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-A	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	9/17/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	9/17/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	9/17/2002	Barium	µg/L	145	10	SW6020	
SITE 13	13MW7-A	9/17/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	9/17/2002	Chromium	µg/L	ND	5	SW6020	

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW7-A	9/17/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	9/17/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	9/17/2002	Manganese	µg/L	ND	50	SW6020	
SITE 13	13MW7-A	9/17/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	9/17/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW7-A	9/17/2002	Zinc	µg/L	11.7	10	SW6020	
SITE 13	13MW7-A	9/17/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	9/17/2002	HMX	µg/L	13.7	10	SW8330	
SITE 13	13MW7-A	9/17/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	9/17/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	9/17/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW7-A	9/17/2002	Nitroglycerine	µg/L	1600	10	SW8332	
SITE 13	13MW7-A	9/17/2002	Chloride	µg/L	5300	1,000	SW9056	
SITE 13	13MW7-A	9/17/2002	Fluoride	µg/L	330	100	SW9056	
SITE 13	13MW7-A	9/17/2002	Nitrogen, Nitrate	µg/L	1510	100	SW9056	
SITE 13	13MW7-A	9/17/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW7-A	9/17/2002	Sulfate	µg/L	135000	5,000	SW9056	
SITE 13	13MW7-A	9/17/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW7-A	9/17/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW7-A	9/17/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW7-A	9/17/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	9/17/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-B	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-B	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-C	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-C	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-D	9/17/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW7-D	9/17/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK	9/17/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	9/17/2002	Ethanol	µg/L	ND	200	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW1-A	11/13/2002	Chloride	µg/L	18400	1,000	SW9056	
SITE 13	13MW1-A	11/13/2002	Fluoride	µg/L	260	100	SW9056	
SITE 13	13MW1-A	11/13/2002	Nitrogen, Nitrate	µg/L	380	100	SW9056	
SITE 13	13MW1-A	11/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW1-A	11/13/2002	Sulfate	µg/L	65000	5,000	SW9056	
SITE 13	13MW1-A	11/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW1-A	11/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW1-A	11/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW1-A	11/13/2002	Aluminum	µg/L	271	100	SW6010B	
SITE 13	13MW1-A	11/13/2002	Boron	µg/L	114	100	SW6010B	
SITE 13	13MW1-A	11/13/2002	Calcium	µg/L	96700	80	SW6010B	
SITE 13	13MW1-A	11/13/2002	Iron	µg/L	212	100	SW6010B	
SITE 13	13MW1-A	11/13/2002	Magnesium	µg/L	31700	7	SW6010B	
SITE 13	13MW1-A	11/13/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW1-A	11/13/2002	Sodium	µg/L	13500	10	SW6010B	
SITE 13	13MW1-A	11/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW1-A	11/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW1-A	11/13/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW1-A	11/13/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW1-A	11/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	11/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	11/13/2002	Barium	µg/L	143	10	SW6020	
SITE 13	13MW1-A	11/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	11/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW1-A	11/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW1-A	11/13/2002	Zinc	µg/L	18.1	10	SW6020	
SITE 13	13MW1-A	11/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW1-A	11/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW1-A	11/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW1-A	11/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	11/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW1-A	11/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW1-A	11/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW1-A	11/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	11/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW1-A	11/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW1-A	11/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW1-A	11/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW1-A	11/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW1-A	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-A	11/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	11/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	11/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	11/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW1-A	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-B	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-B	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-C	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-C	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW1-D	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW1-D	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-A	11/13/2002	Chloride	µg/L	2100	1,000	SW9056	
SITE 13	13MW2-A	11/13/2002	Fluoride	µg/L	210	100	SW9056	
SITE 13	13MW2-A	11/13/2002	Nitrogen, Nitrate	µg/L	700	100	SW9056	
SITE 13	13MW2-A	11/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW2-A	11/13/2002	Sulfate	µg/L	29800	5,000	SW9056	
SITE 13	13MW2-A	11/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW2-A	11/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW2-A	11/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW2-A	11/13/2002	Aluminum	µg/L	317	100	SW6010B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW2-A	11/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW2-A	11/13/2002	Calcium	µg/L	84800	80	SW6010B	
SITE 13	13MW2-A	11/13/2002	Iron	µg/L	219	100	SW6010B	
SITE 13	13MW2-A	11/13/2002	Magnesium	µg/L	34900	7	SW6010B	
SITE 13	13MW2-A	11/13/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW2-A	11/13/2002	Sodium	µg/L	1900	10	SW6010B	
SITE 13	13MW2-A	11/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW2-A	11/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW2-A	11/13/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW2-A	11/13/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW2-A	11/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	11/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	11/13/2002	Barium	µg/L	142	10	SW6020	
SITE 13	13MW2-A	11/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	11/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW2-A	11/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW2-A	11/13/2002	Zinc	µg/L	16.2	10	SW6020	
SITE 13	13MW2-A	11/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW2-A	11/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW2-A	11/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW2-A	11/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	11/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW2-A	11/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW2-A	11/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW2-A	11/13/2002	Chromium	µg/L	57.6	5	SW6020	
SITE 13	13MW2-A	11/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW2-A	11/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW2-A	11/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW2-A	11/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW2-A	11/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW2-A	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-A	11/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	11/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	11/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	11/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW2-A	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-B	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-B	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-C	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-C	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW2-D	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW2-D	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-A	11/13/2002	Chloride	µg/L	4000	1,000	SW9056	
SITE 13	13MW3-A	11/13/2002	Fluoride	µg/L	260	100	SW9056	
SITE 13	13MW3-A	11/13/2002	Nitrogen, Nitrate	µg/L	2440	100	SW9056	
SITE 13	13MW3-A	11/13/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW3-A	11/13/2002	Sulfate	µg/L	109000	5,000	SW9056	
SITE 13	13MW3-A	11/13/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW3-A	11/13/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW3-A	11/13/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW3-A	11/13/2002	Aluminum	µg/L	103	100	SW6010B	
SITE 13	13MW3-A	11/13/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	11/13/2002	Calcium	µg/L	80800	80	SW6010B	
SITE 13	13MW3-A	11/13/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW3-A	11/13/2002	Magnesium	µg/L	29400	7	SW6010B	
SITE 13	13MW3-A	11/13/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW3-A	11/13/2002	Sodium	µg/L	9950	10	SW6010B	
SITE 13	13MW3-A	11/13/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW3-A	11/13/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW3-A	11/13/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW3-A	11/13/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Bis(2-ethylhexyl)phthalate	µg/L	4.91	5	SW8270C	
SITE 13	13MW3-A	11/13/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW3-A	11/13/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	11/13/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	11/13/2002	Barium	µg/L	97.3	10	SW6020	
SITE 13	13MW3-A	11/13/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	11/13/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW3-A	11/13/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW3-A	11/13/2002	Zinc	µg/L	13.2	10	SW6020	
SITE 13	13MW3-A	11/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW3-A	11/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW3-A	11/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW3-A	11/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	11/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW3-A	11/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW3-A	11/13/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW3-A	11/13/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	11/13/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW3-A	11/13/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW3-A	11/13/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW3-A	11/13/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW3-A	11/13/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW3-A	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-A	11/13/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	11/13/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	11/13/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	11/13/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW3-A	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-B	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-B	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-C	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-C	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW3-D	11/13/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW3-D	11/13/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-A	11/14/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW4-A	11/14/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW4-A	11/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW4-A	11/14/2002	Aluminum	µg/L	106	100	SW6010B	
SITE 13	13MW4-A	11/14/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW4-A	11/14/2002	Calcium	µg/L	46500	80	SW6010B	
SITE 13	13MW4-A	11/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW4-A	11/14/2002	Magnesium	µg/L	17100	7	SW6010B	
SITE 13	13MW4-A	11/14/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW4-A	11/14/2002	Sodium	µg/L	8020	10	SW6010B	
SITE 13	13MW4-A	11/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW4-A	11/14/2002	Chloride	µg/L	7000	1,000	SW9056	
SITE 13	13MW4-A	11/14/2002	Fluoride	µg/L	140	100	SW9056	
SITE 13	13MW4-A	11/14/2002	Nitrogen, Nitrate	µg/L	1850	100	SW9056	
SITE 13	13MW4-A	11/14/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW4-A	11/14/2002	Sulfate	µg/L	45100	5,000	SW9056	
SITE 13	13MW4-A	11/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW4-A	11/14/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW4-A	11/14/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW4-A	11/14/2002	Resorcinol	µg/L	ND	8	SW8270C	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW4-A	11/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	11/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	11/14/2002	Barium	µg/L	50	10	SW6020	
SITE 13	13MW4-A	11/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	11/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW4-A	11/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW4-A	11/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	11/14/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW4-A	11/14/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW4-A	11/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW4-A	11/14/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	11/14/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW4-A	11/14/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW4-A	11/14/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW4-A	11/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	11/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW4-A	11/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW4-A	11/14/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW4-A	11/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW4-A	11/14/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW4-A	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-A	11/14/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	11/14/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	11/14/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	11/14/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW4-A	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-B	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-B	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-C	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-C	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW4-D	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW4-D	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-A	11/14/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW5-A	11/14/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW5-A	11/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW5-A	11/14/2002	Aluminum	µg/L	137	100	SW6010B	
SITE 13	13MW5-A	11/14/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	11/14/2002	Calcium	µg/L	57600	80	SW6010B	
SITE 13	13MW5-A	11/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW5-A	11/14/2002	Magnesium	µg/L	18100	7	SW6010B	
SITE 13	13MW5-A	11/14/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW5-A	11/14/2002	Sodium	µg/L	7820	10	SW6010B	
SITE 13	13MW5-A	11/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW5-A	11/14/2002	Chloride	µg/L	7900	1,000	SW9056	
SITE 13	13MW5-A	11/14/2002	Fluoride	µg/L	270	100	SW9056	
SITE 13	13MW5-A	11/14/2002	Nitrogen, Nitrate	µg/L	450	100	SW9056	
SITE 13	13MW5-A	11/14/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW5-A	11/14/2002	Sulfate	µg/L	40200	5,000	SW9056	
SITE 13	13MW5-A	11/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW5-A	11/14/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW5-A	11/14/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW5-A	11/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	11/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	11/14/2002	Barium	µg/L	63.6	10	SW6020	
SITE 13	13MW5-A	11/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	11/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW5-A	11/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW5-A	11/14/2002	Zinc	µg/L	10.6	10	SW6020	
SITE 13	13MW5-A	11/14/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	11/14/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW5-A	11/14/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW5-A	11/14/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	11/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW5-A	11/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	11/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	11/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW5-A	11/14/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	11/14/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW5-A	11/14/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW5-A	11/14/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Trimethyloethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW5-A	11/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	11/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW5-A	11/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW5-A	11/14/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW5-A	11/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW5-A	11/14/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW5-A	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW5-A	11/14/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	11/14/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	11/14/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	11/14/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW5-A	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-B	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW5-B	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-C	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW5-C	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW5-D	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW5-D	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-A	11/14/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW6-A	11/14/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW6-A	11/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW6-A	11/14/2002	Aluminum	µg/L	131	100	SW6010B	
SITE 13	13MW6-A	11/14/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	11/14/2002	Calcium	µg/L	103000	80	SW6010B	
SITE 13	13MW6-A	11/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW6-A	11/14/2002	Magnesium	µg/L	36400	7	SW6010B	
SITE 13	13MW6-A	11/14/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW6-A	11/14/2002	Sodium	µg/L	7500	10	SW6010B	
SITE 13	13MW6-A	11/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW6-A	11/14/2002	Chloride	µg/L	6300	1,000	SW9056	
SITE 13	13MW6-A	11/14/2002	Fluoride	µg/L	440	100	SW9056	
SITE 13	13MW6-A	11/14/2002	Nitrogen, Nitrate	µg/L	870	100	SW9056	
SITE 13	13MW6-A	11/14/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW6-A	11/14/2002	Sulfate	µg/L	168000	5,000	SW9056	
SITE 13	13MW6-A	11/14/2002	2,4-Dinitrophenol	µg/L	ND	16	SW8270C	
SITE 13	13MW6-A	11/14/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	2-Nitroaniline	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	5	SW8270C	
SITE 13	13MW6-A	11/14/2002	Butyl benzyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Diphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	N-Nitrosodiphenylamine	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 13	13MW6-A	11/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	11/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	11/14/2002	Barium	µg/L	72.5	10	SW6020	
SITE 13	13MW6-A	11/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	11/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW6-A	11/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW6-A	11/14/2002	Zinc	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	11/14/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW6-A	11/14/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW6-A	11/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW6-A	11/14/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	11/14/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW6-A	11/14/2002	Ethanol	µg/L	ND	200	SW8260B	

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SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW6-A	11/14/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW6-A	11/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	11/14/2002	Copper	µg/L	ND	5	SW6020	
SITE 13	13MW6-A	11/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW6-A	11/14/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW6-A	11/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW6-A	11/14/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW6-A	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-A	11/14/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	11/14/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	11/14/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	11/14/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW6-A	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-B	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-B	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-C	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-C	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW6-D	11/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 13	13MW6-D	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-A	11/14/2002	Cyanide, Total	µg/L	ND	20	SW9010/9012A	
SITE 13	13MW7-A	11/14/2002	Nitrogen, Ammonia (As N)	µg/L	ND	1,000	E350.3	
SITE 13	13MW7-A	11/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 13	13MW7-A	11/14/2002	Aluminum	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	11/14/2002	Boron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	11/14/2002	Calcium	µg/L	89100	80	SW6010B	
SITE 13	13MW7-A	11/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 13	13MW7-A	11/14/2002	Magnesium	µg/L	30400	7	SW6010B	
SITE 13	13MW7-A	11/14/2002	Manganese	µg/L	ND	50	SW6010B	
SITE 13	13MW7-A	11/14/2002	Sodium	µg/L	7550	10	SW6010B	
SITE 13	13MW7-A	11/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 13	13MW7-A	11/14/2002	Chloride	µg/L	5700	1,000	SW9056	
SITE 13	13MW7-A	11/14/2002	Fluoride	µg/L	290	100	SW9056	
SITE 13	13MW7-A	11/14/2002	Nitrogen, Nitrate	µg/L	2190	100	SW9056	
SITE 13	13MW7-A	11/14/2002	Nitrogen, Nitrite	µg/L	ND	500	SW9056	
SITE 13	13MW7-A	11/14/2002	Sulfate	µg/L	112000	5,000	SW9056	
SITE 13	13MW7-A	11/14/2002	2,4-Dinitrophenol	µg/L	ND	154	SW8270C	
SITE 13	13MW7-A	11/14/2002	2,4-Dinitrotoluene	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	2,6-Dinitrotoluene	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	2-Nitroaniline	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Bis(2-ethylhexyl)phthalate	µg/L	ND	46	SW8270C	
SITE 13	13MW7-A	11/14/2002	Butyl benzyl phthalate	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Di-n-butyl phthalate	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Diethyl phthalate	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Diphenylamine	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	N-Nitrosodiphenylamine	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Resorcinol	µg/L	ND	77	SW8270C	
SITE 13	13MW7-A	11/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	11/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	11/14/2002	Barium	µg/L	120	10	SW6020	
SITE 13	13MW7-A	11/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	11/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 13	13MW7-A	11/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 13	13MW7-A	11/14/2002	Zinc	µg/L	16.7	10	SW6020	
SITE 13	13MW7-A	11/14/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	13MW7-A	11/14/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	13MW7-A	11/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	13MW7-A	11/14/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	11/14/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	13MW7-A	11/14/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	13MW7-A	11/14/2002	2-Nitrodiphenylamine	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Di-n-propyl adipate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Diethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Ethylene glycol monomethyl	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Nitrocellulose	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Triethylene glycol dinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Trimethylethane trinitrate	µg/L	ND	NA	SW8270C	
SITE 13	13MW7-A	11/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 13	13MW7-A	11/14/2002	Copper	µg/L	ND	5	SW6020	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 13	13MW7-A	11/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 13	13MW7-A	11/14/2002	Nitroguanadine	µg/L	ND	1,000	SW8330	
SITE 13	13MW7-A	11/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 13	13MW7-A	11/14/2002	Nitroglycerine	µg/L	ND	10	SW8332	
SITE 13	13MW7-A	11/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 13	13MW7-A	11/14/2002	2,4,6-Trinitrotoluene	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	11/14/2002	HMX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	11/14/2002	RDX	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	11/14/2002	Tetryl	µg/L	ND	10	SW8330	
SITE 13	13MW7-A	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-B	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW7-B	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-C	11/14/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 13	13MW7-C	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	13MW7-D	11/14/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 13	13MW7-D	11/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 13	TRIP BLANK	11/13/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	11/13/2002	Ethanol	µg/L	ND	200	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	1,1,1-Trichloroethane	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	1,1-Dichloroethene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Acetone	µg/L	ND	10	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Benzene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	m,p-Xylene	µg/L	ND	2	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	o-Xylene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Toluene	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Vinyl chloride	µg/L	ND	1	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Diethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Dimethyl ether	µg/L	ND	12.5	SW8260B	
SITE 13	TRIP BLANK	11/14/2002	Ethanol	µg/L	ND	200	SW8260B	

APPENDIX B-3

HWMU-13 STATISTICAL ANALYSIS RESULTS

The GRITS/STAT v5.0 software package does not recognize the years 2000 and 2001. Therefore, in order to conduct the statistical analyses for this report, the sample dates for the twelve quarters of laboratory analytical results for the years 2000 through 2002 were entered into the statistical package as follows:

- **First Quarter 2000** entered as **December 10, 1999**
- **Second Quarter 2000** entered as **December 11, 1999**
- **Third Quarter 2000** entered as **December 12, 1999**
- **Fourth Quarter 2000** entered as **December 13, 1999**
- **First Quarter 2001** entered as **December 14, 1999**
- **Second Quarter 2001** entered as **December 15, 1999**
- **Third Quarter 2001** entered as **December 16, 1999**
- **Fourth Quarter 2001** entered as **December 17, 1999**
- **First Quarter 2002** entered as **December 18, 1999**
- **Second Quarter 2002** entered as **December 19, 1999**
- **Third Quarter 2002** entered as **December 20, 1999**
- **Fourth Quarter 2002** entered as **December 21, 1999**

Data Set Summary

Report Printed: 02-24-2003 20:47

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Ca Calcium, total

CAS Number: 7440-70-2

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 400.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	92200.000 ppb	11.432
May 14 1998	76200.000 ppb	11.241
Aug 14 1998	88100.000 ppb	11.386
Nov 23 1998	127000.000 ppb	11.752
Mar 13 1999	103000.000 ppb	11.542
May 27 1999	87700.000 ppb	11.382
Jul 27 1999	98000.000 ppb	11.493
Nov 08 1999	103000.000 ppb	11.542
Dec 10 1999	103000.000 ppb	11.542
Dec 11 1999	86400.000 ppb	11.367
Dec 12 1999	71800.000 ppb	11.182
Dec 13 1999	99800.000 ppb	11.511
Dec 14 1999	91200.000 ppb	11.421
Dec 15 1999	57100.000 ppb	10.953
Dec 16 1999	96300.000 ppb	11.475
Dec 17 1999	101000.000 ppb	11.523
Dec 18 1999	94900.000 ppb	11.461
Dec 19 1999	92400.000 ppb	11.434
Dec 20 1999	97100.000 ppb	11.483
Dec 21 1999	96700.000 ppb	11.479

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	57100.000 ppb	Ln Minimum:	10.953
Maximum:	127000.000 ppb	Ln Maximum:	11.752
Mean:	93145.000 ppb	Ln Mean:	11.430
Std. Dev.:	14060.413 ppb	Ln Std. Dev.:	0.163

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	81800.000 ppb	11.312
May 14 1998	71500.000 ppb	11.177
Aug 14 1998	79700.000 ppb	11.286
Nov 23 1998	77100.000 ppb	11.253
Mar 13 1999	90200.000 ppb	11.410
May 27 1999	76000.000 ppb	11.238
Jul 27 1999	71200.000 ppb	11.173
Nov 08 1999	91100.000 ppb	11.420
Dec 10 1999	80000.000 ppb	11.290
Dec 11 1999	80700.000 ppb	11.298
Dec 12 1999	82800.000 ppb	11.324
Dec 13 1999	81300.000 ppb	11.306
Dec 14 1999	75600.000 ppb	11.233
Dec 15 1999	71400.000 ppb	11.176
Dec 16 1999	76900.000 ppb	11.250
Dec 17 1999	87600.000 ppb	11.381
Dec 18 1999	83000.000 ppb	11.327
Dec 19 1999	81800.000 ppb	11.312
Dec 20 1999	82300.000 ppb	11.318
Dec 21 1999	84800.000 ppb	11.348

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	71200.000 ppb	Ln Minimum:	11.173
Maximum:	91100.000 ppb	Ln Maximum:	11.420
Mean:	80339.992 ppb	Ln Mean:	11.292
Std. Dev.:	5683.068 ppb	Ln Std. Dev.:	0.071

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	80800.000 ppb	11.300

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	80800.000 ppb	Ln Minimum:	11.300
Maximum:	80800.000 ppb	Ln Maximum:	11.300
Mean:	80800.000 ppb	Ln Mean:	11.300
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	46500.000 ppb	10.747

Well ID:13MW4 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	46500.000 ppb	Ln Minimum:	10.747
Maximum:	46500.000 ppb	Ln Maximum:	10.747
Mean:	46500.000 ppb	Ln Mean:	10.747
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	57600.000 ppb	10.961

Well ID:13MW5 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	57600.000 ppb	Ln Minimum:	10.961
Maximum:	57600.000 ppb	Ln Maximum:	10.961
Mean:	57600.000 ppb	Ln Mean:	10.961
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	103000.000 ppb	11.542

Well ID:13MW6 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	103000.000 ppb	Ln Minimum:	11.542
Maximum:	103000.000 ppb	Ln Maximum:	11.542
Mean:	103000.000 ppb	Ln Mean:	11.542

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	89100.000 ppb	11.398

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	89100.000 ppb	Ln Minimum:	11.398
Maximum:	89100.000 ppb	Ln Maximum:	11.398
Mean:	89100.000 ppb	Ln Mean:	11.398
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:23

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Ca Calcium, total

CAS Number: 7440-70-2

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 400.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	57100.000	127000.000	93145.000	14060.413
Log:	10.953	11.752	11.430	0.163

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	71200.000	91100.000	80339.992	5683.068
Log:	11.173	11.420	11.292	0.071

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	86742.500	11.361
Std Dev:	12413.329	0.142
Skewness:	0.561	-0.069
Kurtosis:	1.449	1.001
Minimum:	57100.000	10.953
Maximum:	127000.000	11.752

CV: 0.143 0.013

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.9677	0.9400	0.9190
Log:	0.9799	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility:Haz. Waste Unit 13 - RAAP
Parameter:Calcium, total(CAS Number:7440-70-2)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 40
Shapiro-Wilk (W): 0.9677
Critical W, $\alpha=0.01$: 0.9190
Mean: 86742.500 ppb
Std Dev: 12413.327 ppb
DF: 39
Conf. Level (1- α): 0.9500
Future Samples (k): 1
 $t \left[\begin{matrix} 1 - \alpha \\ - \\ k \end{matrix} \right]$: 1.6849
Kappa: 1.7058

UL: 107917.227 ppb
LL: $-\infty$

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	80800.000 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	46500.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	57600.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	103000.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	89100.000 ppb

Data Set Summary

Report Printed: 02-24-2003 20:48

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Flrd Fluoride

CAS Number:16984-48-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	260.000 ppb	5.561
May 14 1998	220.000 ppb	5.394
Aug 14 1998	230.000 ppb	5.438
Nov 23 1998	240.000 ppb	5.481
Mar 13 1999	210.000 ppb	5.347
May 27 1999	210.000 ppb	5.347
Jul 27 1999	235.000 ppb	5.460
Nov 08 1999	233.000 ppb	5.451
Dec 10 1999	270.000 ppb	5.598
Dec 11 1999	304.000 ppb	5.717
Dec 12 1999	300.000 ppb	5.704
Dec 13 1999	330.000 ppb	5.799
Dec 14 1999	240.000 ppb	5.481
Dec 15 1999	120.000 ppb	4.787
Dec 16 1999	260.000 ppb	5.561
Dec 17 1999	270.000 ppb	5.598
Dec 18 1999	200.000 ppb	5.298
Dec 19 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 20 1999	160.000 ppb	5.075
Dec 21 1999	260.000 ppb	5.561

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum: 50.000 ppb
Maximum: 330.000 ppb
Mean: 230.100 ppb
Std. Dev.: 63.953 ppb

Ln Minimum: 3.912
Ln Maximum: 5.799
Ln Mean: 5.378
Ln Std. Dev.: 0.412

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	230.000 ppb	5.438
May 14 1998	230.000 ppb	5.438
Aug 14 1998	200.000 ppb	5.298
Nov 23 1998	190.000 ppb	5.247
Mar 13 1999	170.000 ppb	5.136
May 27 1999	200.000 ppb	5.298
Jul 27 1999	227.000 ppb	5.425
Nov 08 1999	210.000 ppb	5.347
Dec 10 1999	240.000 ppb	5.481
Dec 11 1999	312.000 ppb	5.743
Dec 12 1999	260.000 ppb	5.561
Dec 13 1999	330.000 ppb	5.799
Dec 14 1999	170.000 ppb	5.136
Dec 15 1999	110.000 ppb	4.700
Dec 16 1999	180.000 ppb	5.193
Dec 17 1999	230.000 ppb	5.438
Dec 18 1999	200.000 ppb	5.298
Dec 19 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 20 1999	150.000 ppb	5.011
Dec 21 1999	210.000 ppb	5.347

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum: 50.000 ppb
Maximum: 330.000 ppb
Mean: 204.950 ppb
Std. Dev.: 62.062 ppb

Ln Minimum: 3.912
Ln Maximum: 5.799
Ln Mean: 5.262
Ln Std. Dev.: 0.400

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	260.000 ppb	5.561

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	260.000 ppb	Ln Minimum:	5.561
Maximum:	260.000 ppb	Ln Maximum:	5.561
Mean:	260.000 ppb	Ln Mean:	5.561
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	140.000 ppb	4.942

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	140.000 ppb	Ln Minimum:	4.942
Maximum:	140.000 ppb	Ln Maximum:	4.942
Mean:	140.000 ppb	Ln Mean:	4.942
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	270.000 ppb	5.598

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	270.000 ppb	Ln Minimum:	5.598
Maximum:	270.000 ppb	Ln Maximum:	5.598
Mean:	270.000 ppb	Ln Mean:	5.598
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	440.000 ppb	6.087

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	440.000 ppb	Ln Minimum:	6.087
Maximum:	440.000 ppb	Ln Maximum:	6.087
Mean:	440.000 ppb	Ln Mean:	6.087

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation
Dec 21 1999	290.000 ppb

Ln
5.670

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	290.000 ppb
Maximum:	290.000 ppb
Mean:	290.000 ppb
Std. Dev.:	0.000 ppb

Ln Minimum:	5.670
Ln Maximum:	5.670
Ln Mean:	5.670
Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:25

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Flrd Fluoride

CAS Number:16984-48-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	330.000	230.100	63.953
Log:	3.912	5.799	5.378	0.412

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	330.000	204.950	62.062
Log:	3.912	5.799	5.262	0.400

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	217.525	5.320
Std Dev:	63.492	0.405
Skewness:	-0.694	-2.149*
Kurtosis:	0.844	5.135
Minimum:	50.000	3.912
Maximum:	330.000	5.799

CV: 0.292 0.076

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
	Scale Statistic	Value	Value
Original:	0.9423	0.9400	0.9190
Log:	0.7694*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 13 - RAAP
Parameter:Fluoride(CAS Number:16984-48-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 40
Shapiro-Wilk (W): 0.9423
Critical W, $\alpha=0.01$: 0.9190
Mean: 217.525 ppb
Std Dev: 63.492 ppb
DF: 39
Conf. Level (1- α): 0.9500
Future Samples (k): 1
 $t \left[\begin{matrix} 1 - \alpha \\ - \\ k \end{matrix} \right]$: 1.6849
Kappa: 1.7058
UL: 325.830 ppb
LL: $-\infty$

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	260.000 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	140.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	270.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	440.000 ppb *

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	290.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:32

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Nitrate Nitrate

CAS Number:14797-55-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	480.000 ppb	6.174
May 14 1998	360.000 ppb	5.886
Aug 14 1998	440.000 ppb	6.087
Nov 23 1998	560.000 ppb	6.328
Mar 13 1999	410.000 ppb	6.016
May 27 1999	230.000 ppb	5.438
Jul 27 1999	380.000 ppb	5.940
Nov 08 1999	430.000 ppb	6.064
Dec 10 1999	430.000 ppb	6.064
Dec 11 1999	130.000 ppb	4.868
Dec 12 1999	900.000 ppb	6.802
Dec 13 1999	310.000 ppb	5.737
Dec 14 1999	320.000 ppb	5.768
Dec 15 1999	150.000 ppb	5.011
Dec 16 1999	380.000 ppb	5.940
Dec 17 1999	400.000 ppb	5.991
Dec 18 1999	340.000 ppb	5.829
Dec 19 1999	250.000 ppb	5.521
Dec 20 1999	260.000 ppb	5.561
Dec 21 1999	380.000 ppb	5.940

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	130.000 ppb	Ln Minimum:	4.868
Maximum:	900.000 ppb	Ln Maximum:	6.802
Mean:	377.000 ppb	Ln Mean:	5.848
Std. Dev.:	162.581 ppb	Ln Std. Dev.:	0.430

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	790.000 ppb	6.672
May 14 1998	380.000 ppb	5.940
Aug 14 1998	640.000 ppb	6.461
Nov 23 1998	600.000 ppb	6.397
Mar 13 1999	710.000 ppb	6.565
May 27 1999	860.000 ppb	6.757
Jul 27 1999	890.000 ppb	6.791
Nov 08 1999	920.000 ppb	6.824
Dec 10 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 11 1999	920.000 ppb	6.824
Dec 12 1999	1050.000 ppb	6.957
Dec 13 1999	1360.000 ppb	7.215
Dec 14 1999	1200.000 ppb	7.090
Dec 15 1999	1160.000 ppb	7.056
Dec 16 1999	1190.000 ppb	7.082
Dec 17 1999	710.000 ppb	6.565
Dec 18 1999	920.000 ppb	6.824
Dec 19 1999	750.000 ppb	6.620
Dec 20 1999	580.000 ppb	6.363
Dec 21 1999	700.000 ppb	6.551

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	1360.000 ppb	Ln Maximum:	7.215
Mean:	819.000 ppb	Ln Mean:	6.573
Std. Dev.:	303.244 ppb	Ln Std. Dev.:	0.695

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	2440.000 ppb	7.800

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	2440.000 ppb	Ln Minimum:	7.800
Maximum:	2440.000 ppb	Ln Maximum:	7.800
Mean:	2440.000 ppb	Ln Mean:	7.800
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	1850.000 ppb	7.523

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1850.000 ppb	Ln Minimum:	7.523
Maximum:	1850.000 ppb	Ln Maximum:	7.523
Mean:	1850.000 ppb	Ln Mean:	7.523
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	450.000 ppb	6.109

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	450.000 ppb	Ln Minimum:	6.109
Maximum:	450.000 ppb	Ln Maximum:	6.109
Mean:	450.000 ppb	Ln Mean:	6.109
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	870.000 ppb	6.768

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	870.000 ppb	Ln Minimum:	6.768
Maximum:	870.000 ppb	Ln Maximum:	6.768
Mean:	870.000 ppb	Ln Mean:	6.768

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation
Dec 21 1999	2190.000 ppb

Ln
7.692

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	2190.000 ppb
Maximum:	2190.000 ppb
Mean:	2190.000 ppb
Std. Dev.:	0.000 ppb

Ln Minimum:	7.692
Ln Maximum:	7.692
Ln Mean:	7.692
Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:32

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford

ST:VA Zip:

County:PULASKI

Contact:

Phone:() -

Permit Type:Detection

Constituent:Nitrate Nitrate

CAS Number:14797-55-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	130.000	900.000	377.000	162.581
Log:	4.868	6.802	5.848	0.430

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	1360.000	819.000	303.244
Log:	3.912	7.215	6.573	0.695

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	598.000	6.211
Std Dev:	328.284	0.678
Skewness:	0.505	-1.065*
Kurtosis:	-0.630	1.728
Minimum:	50.000	3.912
Maximum:	1360.000	7.215

CV: 0.549 0.109

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.9471	0.9400	0.9190
Log:	0.9282*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 13 - RAAP
Parameter:Nitrate(CAS Number:14797-55-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 40
Shapiro-Wilk (W): 0.9471
Critical W, $\alpha=0.01$: 0.9190
Mean: 598.000 ppb
Std Dev: 328.284 ppb
DF: 39
Conf. Level (1- α): 0.9500
Future Samples (k): 1
 $t \left[\begin{matrix} 1 - \alpha \\ - \\ k \end{matrix} \right]$: 1.6849
Kappa: 1.7058
UL: 1157.988 ppb
LL: $-\infty$

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2440.000 ppb *

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1850.000 ppb *

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	450.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	870.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2190.000 ppb *

Data Set Summary

Report Printed: 02-25-2003 08:45

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:pH F pH, Field

CAS Number: - -

MCL: 0.000 SU

ACL: 0.000 SU

Detect Limit: 0.100 SU

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	6.700 SU	1.902
May 14 1998	6.300 SU	1.841
Aug 14 1998	6.500 SU	1.872
Nov 23 1998	7.000 SU	1.946
Mar 13 1999	6.700 SU	1.902
May 27 1999	6.990 SU	1.944
Jul 27 1999	7.030 SU	1.950
Nov 08 1999	6.950 SU	1.939
Dec 10 1999	6.820 SU	1.920
Dec 11 1999	6.600 SU	1.887
Dec 12 1999	6.390 SU	1.855
Dec 13 1999	5.720 SU	1.744
Dec 14 1999	7.010 SU	1.947
Dec 15 1999	6.480 SU	1.869
Dec 16 1999	6.520 SU	1.875
Dec 17 1999	6.690 SU	1.901
Dec 18 1999	6.940 SU	1.937
Dec 19 1999	6.570 SU	1.883
Dec 20 1999	6.550 SU	1.879
Dec 21 1999	6.650 SU	1.895

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	5.720 SU	Ln Minimum:	1.744
Maximum:	7.030 SU	Ln Maximum:	1.950
Mean:	6.655 SU	Ln Mean:	1.894
Std. Dev.:	0.313 SU	Ln Std. Dev.:	0.049

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	6.800 SU	1.917
May 14 1998	6.700 SU	1.902
Aug 14 1998	6.700 SU	1.902
Nov 23 1998	7.100 SU	1.960
Mar 13 1999	7.700 SU	2.041
May 27 1999	7.180 SU	1.971
Jul 27 1999	7.170 SU	1.970
Nov 08 1999	7.090 SU	1.959
Dec 10 1999	6.910 SU	1.933
Dec 11 1999	6.960 SU	1.940
Dec 12 1999	6.710 SU	1.904
Dec 13 1999	6.200 SU	1.825
Dec 14 1999	7.090 SU	1.959
Dec 15 1999	6.830 SU	1.921
Dec 16 1999	6.670 SU	1.898
Dec 17 1999	6.790 SU	1.915
Dec 18 1999	7.060 SU	1.954
Dec 19 1999	6.840 SU	1.923
Dec 20 1999	6.670 SU	1.898
Dec 21 1999	6.710 SU	1.904

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	6.200 SU	Ln Minimum:	1.825
Maximum:	7.700 SU	Ln Maximum:	2.041
Mean:	6.894 SU	Ln Mean:	1.930
Std. Dev.:	0.300 SU	Ln Std. Dev.:	0.043

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	6.480 SU	1.869

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 6.480 SU
Maximum: 6.480 SU
Mean: 6.480 SU
Std. Dev.: 0.000 SU

Ln Minimum: 1.869
Ln Maximum: 1.869
Ln Mean: 1.869
Ln Std. Dev.: 0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	6.400 SU	1.856

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 6.400 SU
Maximum: 6.400 SU
Mean: 6.400 SU
Std. Dev.: 0.000 SU

Ln Minimum: 1.856
Ln Maximum: 1.856
Ln Mean: 1.856
Ln Std. Dev.: 0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	6.720 SU	1.905

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 6.720 SU
Maximum: 6.720 SU
Mean: 6.720 SU
Std. Dev.: 0.000 SU

Ln Minimum: 1.905
Ln Maximum: 1.905
Ln Mean: 1.905
Ln Std. Dev.: 0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	6.800 SU	1.917

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 6.800 SU
Maximum: 6.800 SU
Mean: 6.800 SU

Ln Minimum: 1.917
Ln Maximum: 1.917
Ln Mean: 1.917

Std. Dev.: 0.000 SU

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	6.530 SU	1.876

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6.530 SU	Ln Minimum:	1.876
Maximum:	6.530 SU	Ln Maximum:	1.876
Mean:	6.530 SU	Ln Mean:	1.876
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:45

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:pH F pH, Field

CAS Number: - -

MCL: 0.000 SU

ACL: 0.000 SU

Detect Limit: 0.100 SU

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	5.720	7.030	6.655	0.313
Log:	1.744	1.950	1.894	0.049

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	6.200	7.700	6.894	0.300
Log:	1.825	2.041	1.930	0.043

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	6.775	1.912
Std Dev:	0.326	0.049
Skewness:	-0.384	-0.687
Kurtosis:	2.314	2.710
Minimum:	5.720	1.744
Maximum:	7.700	2.041

CV: 0.048 0.026

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.9585	0.9400	0.9190
Log:	0.9482	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 13 - RAAP
Parameter:pH, Field(CAS Number:- -)

TWO-TAILED PARAMETRIC PREDICTION INTERVAL

Observations (n): 40
Shapiro-Wilk (W): 0.9585
Critical W, $\alpha=0.01$: 0.9190
Mean: 6.775 SU
Std Dev: 0.326 SU
DF: 39
Conf. Level (1- α): 0.9500
Future Samples (k): 1
 $t \left[\frac{1 - \alpha}{2 \cdot k} \right]$: 2.0227
Kappa: 2.0478
UL: 7.442 SU
LL: 6.107 SU

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.480 SU

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.400 SU

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.720 SU

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.800 SU

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.530 SU

Data Set Summary

Report Printed: 02-24-2003 20:44

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Al Aluminum, total

CAS Number: 7429-90-5

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 60.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	2790.000 ppb	7.934
May 14 1998	621.000 ppb	6.431
Aug 14 1998	1380.000 ppb	7.230
Nov 23 1998	6090.000 ppb	8.714
Mar 13 1999	4760.000 ppb	8.468
May 27 1999	99.000 ppb	4.595
Jul 27 1999	30.000 ppb	3.401 (* Nondetect *)
Nov 08 1999	340.000 ppb	5.829
Dec 10 1999	72.000 ppb	4.277
Dec 11 1999	282.000 ppb	5.642
Dec 12 1999	330.000 ppb	5.799
Dec 13 1999	163.000 ppb	5.094
Dec 14 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 15 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 16 1999	404.000 ppb	6.001
Dec 17 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 18 1999	284.000 ppb	5.649
Dec 19 1999	218.000 ppb	5.384
Dec 20 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 21 1999	271.000 ppb	5.602

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 25

Minimum: 30.000 ppb
Maximum: 6090.000 ppb
Mean: 912.700 ppb
Std. Dev.: 1683.892 ppb

Ln Minimum: 3.401
Ln Maximum: 8.714
Ln Mean: 5.483
Ln Std. Dev.: 1.685

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	2760.000 ppb	7.923
May 14 1998	334.000 ppb	5.811
Aug 14 1998	449.000 ppb	6.107
Nov 23 1998	904.000 ppb	6.807
Mar 13 1999	1570.000 ppb	7.359
May 27 1999	70.000 ppb	4.248
Jul 27 1999	30.000 ppb	3.401 (* Nondetect *)
Nov 08 1999	157.000 ppb	5.056
Dec 10 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 11 1999	96.000 ppb	4.564
Dec 12 1999	91.000 ppb	4.511
Dec 13 1999	89.000 ppb	4.489
Dec 14 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 15 1999	377.000 ppb	5.932
Dec 16 1999	315.000 ppb	5.753
Dec 17 1999	238.000 ppb	5.472
Dec 18 1999	120.000 ppb	4.787
Dec 19 1999	124.000 ppb	4.820
Dec 20 1999	30.000 ppb	3.401 (* Nondetect *)
Dec 21 1999	317.000 ppb	5.759

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 20

Minimum: 30.000 ppb
Maximum: 2760.000 ppb
Mean: 406.550 ppb
Std. Dev.: 664.674 ppb

Ln Minimum: 3.401
Ln Maximum: 7.923
Ln Mean: 5.150
Ln Std. Dev.: 1.310

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	103.000 ppb	4.635

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 103.000 ppb
Maximum: 103.000 ppb
Mean: 103.000 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 4.635
Ln Maximum: 4.635
Ln Mean: 4.635
Ln Std. Dev.: 0.000

Well ID:13MW4

Sample Date Observation
Dec 21 1999 106.000 ppb

Ln
4.663

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 106.000 ppb
Maximum: 106.000 ppb
Mean: 106.000 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 4.663
Ln Maximum: 4.663
Ln Mean: 4.663
Ln Std. Dev.: 0.000

Well ID:13MW5

Sample Date Observation
Dec 21 1999 137.000 ppb

Ln
4.920

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 137.000 ppb
Maximum: 137.000 ppb
Mean: 137.000 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 4.920
Ln Maximum: 4.920
Ln Mean: 4.920
Ln Std. Dev.: 0.000

Well ID:13MW6

Sample Date Observation
Dec 21 1999 131.000 ppb

Ln
4.875

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 131.000 ppb
Maximum: 131.000 ppb
Mean: 131.000 ppb

Ln Minimum: 4.875
Ln Maximum: 4.875
Ln Mean: 4.875

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation
Dec 21 1999	30.000 ppb

Ln
3.401 (* Nondetect *)

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	30.000 ppb
Maximum:	30.000 ppb
Mean:	30.000 ppb
Std. Dev.:	0.000 ppb

Ln Minimum:	3.401
Ln Maximum:	3.401
Ln Mean:	3.401
Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:19

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Al Aluminum, total

CAS Number: 7429-90-5
MCL: 0.000 ppb
ACL: 0.000 ppb
Detect Limit: 60.000 ppb

Start Date:Mar 09 1998
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	30.000	6090.000	912.700	1683.892
Log:	3.401	8.714	5.483	1.685

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	30.000	2760.000	406.550	664.674
Log:	3.401	7.923	5.150	1.310

Pooled Statistics
Observations: 40

Statistic	Original Scale	Log Scale
Mean:	659.625	5.316
Std Dev:	1289.308	1.499
Skewness:	2.964*	0.465
Kurtosis:	8.381	-0.456
Minimum:	30.000	3.401
Maximum:	6090.000	8.714

CV: 1.955 0.282

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.5298*	0.9400	0.9190
Log:	0.9215*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility:Haz. Waste Unit 13 - RAAP
Parameter:Aluminum, total(CAS Number:7429-90-5)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970%

UL: 4760.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	103.000 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	106.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	137.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	131.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 60.000 ppb

Data Set Summary

Report Printed: 02-24-2003 20:47

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Chloride Chloride

CAS Number:16887-00-6

MCL: 0.000 ppm

ACL: 0.000 ppm

Detect Limit: 1000.000 ppm

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	13200.000 ppm	9.488
May 14 1998	22500.000 ppm	10.021
Aug 14 1998	24800.000 ppm	10.119
Nov 23 1998	20900.000 ppm	9.948
Mar 13 1999	23600.000 ppm	10.069
May 27 1999	29300.000 ppm	10.285
Jul 27 1999	24700.000 ppm	10.115
Nov 08 1999	30500.000 ppm	10.325
Dec 10 1999	31700.000 ppm	10.364
Dec 11 1999	31400.000 ppm	10.355
Dec 12 1999	21100.000 ppm	9.957
Dec 13 1999	27400.000 ppm	10.218
Dec 14 1999	29600.000 ppm	10.296
Dec 15 1999	13700.000 ppm	9.525
Dec 16 1999	26400.000 ppm	10.181
Dec 17 1999	19800.000 ppm	9.893
Dec 18 1999	20600.000 ppm	9.933
Dec 19 1999	16900.000 ppm	9.735
Dec 20 1999	16400.000 ppm	9.705
Dec 21 1999	18400.000 ppm	9.820

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	13200.000 ppm	Ln Minimum:	9.488
Maximum:	31700.000 ppm	Ln Maximum:	10.364
Mean:	23145.002 ppm	Ln Mean:	10.018
Std. Dev.:	5765.001 ppm	Ln Std. Dev.:	0.265

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	2400.000 ppm	7.783
May 14 1998	2800.000 ppm	7.937
Aug 14 1998	2000.000 ppm	7.601
Nov 23 1998	2000.000 ppm	7.601
Mar 13 1999	2200.000 ppm	7.696
May 27 1999	1800.000 ppm	7.496
Jul 27 1999	1800.000 ppm	7.496
Nov 08 1999	1800.000 ppm	7.496
Dec 10 1999	2000.000 ppm	7.601
Dec 11 1999	1800.000 ppm	7.496
Dec 12 1999	1700.000 ppm	7.438
Dec 13 1999	2300.000 ppm	7.741
Dec 14 1999	1400.000 ppm	7.244
Dec 15 1999	1700.000 ppm	7.438
Dec 16 1999	2700.000 ppm	7.901
Dec 17 1999	1700.000 ppm	7.438
Dec 18 1999	2800.000 ppm	7.937
Dec 19 1999	3000.000 ppm	8.006
Dec 20 1999	1800.000 ppm	7.496
Dec 21 1999	2100.000 ppm	7.650

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	1400.000 ppm	Ln Minimum:	7.244
Maximum:	3000.000 ppm	Ln Maximum:	8.006
Mean:	2090.000 ppm	Ln Mean:	7.625
Std. Dev.:	443.550 ppm	Ln Std. Dev.:	0.205

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	4000.000 ppm	8.294

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	4000.000 ppm	Ln Minimum:	8.294
Maximum:	4000.000 ppm	Ln Maximum:	8.294
Mean:	4000.000 ppm	Ln Mean:	8.294
Std. Dev.:	0.000 ppm	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	7000.000 ppm	8.854

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	7000.000 ppm	Ln Minimum:	8.854
Maximum:	7000.000 ppm	Ln Maximum:	8.854
Mean:	7000.000 ppm	Ln Mean:	8.854
Std. Dev.:	0.000 ppm	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	7900.000 ppm	8.975

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	7900.000 ppm	Ln Minimum:	8.975
Maximum:	7900.000 ppm	Ln Maximum:	8.975
Mean:	7900.000 ppm	Ln Mean:	8.975
Std. Dev.:	0.000 ppm	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	6300.000 ppm	8.748

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	6300.000 ppm	Ln Minimum:	8.748
Maximum:	6300.000 ppm	Ln Maximum:	8.748
Mean:	6300.000 ppm	Ln Mean:	8.748

Std. Dev.: 0.000 ppm

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date Observation
Dec 21 1999 5700.000 ppm

Ln
8.648

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 5700.000 ppm
Maximum: 5700.000 ppm
Mean: 5700.000 ppm
Std. Dev.: 0.000 ppm

Ln Minimum: 8.648
Ln Maximum: 8.648
Ln Mean: 8.648
Ln Std. Dev.: 0.000

Normality Tests

Report Printed: 02-25-2003 08:24

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford

ST:VA Zip:

County:PULASKI

Contact:

Phone:() -

Permit Type:Detection

Constituent:Chloride Chloride

CAS Number:16887-00-6

MCL: 0.000 ppm

ACL: 0.000 ppm

Detect Limit: 1000.000 ppm

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	13200.000	31700.000	23145.002	5765.001
Log:	9.488	10.364	10.018	0.265

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	1400.000	3000.000	2090.000	443.550
Log:	7.244	8.006	7.625	0.205

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	12617.499	8.821
Std Dev:	11399.884	1.234
Skewness:	0.341	0.025
Kurtosis:	-1.540	-1.872
Minimum:	1400.000	7.244
Maximum:	31700.000	10.364

CV: 0.903 0.140

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.7944*	0.9400	0.9190
Log:	0.7736*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility:Haz. Waste Unit 13 - RAAP
Parameter:Chloride(CAS Number:16887-00-6)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970%

UL: 31700.000 ppm
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	4000.000 ppm

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	7000.000 ppm

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	7900.000 ppm

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6300.000 ppm

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	5700.000 ppm

Data Set Summary

Report Printed: 02-24-2003 20:47

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 2.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	117.000 ppb	4.762
May 14 1998	98.000 ppb	4.585
Aug 14 1998	107.000 ppb	4.673
Nov 23 1998	255.000 ppb	5.541
Mar 13 1999	178.000 ppb	5.182
May 27 1999	85.000 ppb	4.443
Jul 27 1999	103.000 ppb	4.635
Nov 08 1999	128.000 ppb	4.852
Dec 10 1999	96.000 ppb	4.564
Dec 11 1999	91.000 ppb	4.511
Dec 12 1999	81.000 ppb	4.394
Dec 13 1999	111.000 ppb	4.710
Dec 14 1999	115.000 ppb	4.745
Dec 15 1999	81.800 ppb	4.404
Dec 16 1999	112.000 ppb	4.718
Dec 17 1999	132.000 ppb	4.883
Dec 18 1999	127.000 ppb	4.844
Dec 19 1999	107.000 ppb	4.673
Dec 20 1999	132.000 ppb	4.883
Dec 21 1999	143.000 ppb	4.963

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	81.000 ppb	Ln Minimum:	4.394
Maximum:	255.000 ppb	Ln Maximum:	5.541
Mean:	119.990 ppb	Ln Mean:	4.748
Std. Dev.:	39.357 ppb	Ln Std. Dev.:	0.271

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	220.000 ppb	5.394
May 14 1998	159.000 ppb	5.069
Aug 14 1998	151.000 ppb	5.017
Nov 23 1998	172.000 ppb	5.147
Mar 13 1999	168.000 ppb	5.124
May 27 1999	153.000 ppb	5.030
Jul 27 1999	124.000 ppb	4.820
Nov 08 1999	146.000 ppb	4.984
Dec 10 1999	138.000 ppb	4.927
Dec 11 1999	145.000 ppb	4.977
Dec 12 1999	130.000 ppb	4.868
Dec 13 1999	135.000 ppb	4.905
Dec 14 1999	131.000 ppb	4.875
Dec 15 1999	147.000 ppb	4.990
Dec 16 1999	148.000 ppb	4.997
Dec 17 1999	155.000 ppb	5.043
Dec 18 1999	128.000 ppb	4.852
Dec 19 1999	150.000 ppb	5.011
Dec 20 1999	148.000 ppb	4.997
Dec 21 1999	142.000 ppb	4.956

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	124.000 ppb	Ln Minimum:	4.820
Maximum:	220.000 ppb	Ln Maximum:	5.394
Mean:	149.500 ppb	Ln Mean:	4.999
Std. Dev.:	20.814 ppb	Ln Std. Dev.:	0.127

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	97.300 ppb	4.578

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	97.300 ppb	Ln Minimum:	4.578
Maximum:	97.300 ppb	Ln Maximum:	4.578
Mean:	97.300 ppb	Ln Mean:	4.578
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	50.000 ppb	3.912

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	50.000 ppb	Ln Maximum:	3.912
Mean:	50.000 ppb	Ln Mean:	3.912
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	63.600 ppb	4.153

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	63.600 ppb	Ln Minimum:	4.153
Maximum:	63.600 ppb	Ln Maximum:	4.153
Mean:	63.600 ppb	Ln Mean:	4.153
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	72.500 ppb	4.284

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	72.500 ppb	Ln Minimum:	4.284
Maximum:	72.500 ppb	Ln Maximum:	4.284
Mean:	72.500 ppb	Ln Mean:	4.284

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	120.000 ppb	4.787

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	120.000 ppb	Ln Minimum:	4.787
Maximum:	120.000 ppb	Ln Maximum:	4.787
Mean:	120.000 ppb	Ln Mean:	4.787
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:20

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 2.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	81.000	255.000	119.990	39.357
Log:	4.394	5.541	4.748	0.271

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	124.000	220.000	149.500	20.814
Log:	4.820	5.394	4.999	0.127

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	134.745	4.874
Std Dev:	34.482	0.245
Skewness:	1.166*	0.173
Kurtosis:	2.629	0.469
Minimum:	81.000	4.394
Maximum:	255.000	5.541

CV: 0.256 0.050

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.9169*	0.9400	0.9190
Log:	0.9684	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25, 2003

Page 1

Facility: Haz. Waste Unit 13 - RAAP
Parameter: Barium, total (CAS Number: 7440-39-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970%

UL: 178.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	97.300 ppb

Well: 13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	50.000 ppb

Well: 13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	63.600 ppb

Well: 13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	72.500 ppb

Well: 13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	120.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:31

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Mg Magnesium, total

CAS Number: 7439-95-4

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 200.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	29600.000 ppb	10.296
May 14 1998	23400.000 ppb	10.060
Aug 14 1998	25700.000 ppb	10.154
Nov 23 1998	55200.000 ppb	10.919
Mar 13 1999	38300.000 ppb	10.553
May 27 1999	22600.000 ppb	10.026
Jul 27 1999	30700.000 ppb	10.332
Nov 08 1999	29500.000 ppb	10.292
Dec 10 1999	30500.000 ppb	10.325
Dec 11 1999	21800.000 ppb	9.990
Dec 12 1999	18000.000 ppb	9.798
Dec 13 1999	28600.000 ppb	10.261
Dec 14 1999	29800.000 ppb	10.302
Dec 15 1999	15000.000 ppb	9.616
Dec 16 1999	29800.000 ppb	10.302
Dec 17 1999	31400.000 ppb	10.355
Dec 18 1999	34100.000 ppb	10.437
Dec 19 1999	26300.000 ppb	10.177
Dec 20 1999	32900.000 ppb	10.401
Dec 21 1999	31700.000 ppb	10.364

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	15000.000 ppb	Ln Minimum:	9.616
Maximum:	55200.000 ppb	Ln Maximum:	10.919
Mean:	29245.004 ppb	Ln Mean:	10.248
Std. Dev.:	8247.899 ppb	Ln Std. Dev.:	0.273

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	39000.000 ppb	10.571
May 14 1998	32200.000 ppb	10.380
Aug 14 1998	33800.000 ppb	10.428
Nov 23 1998	34300.000 ppb	10.443
Mar 13 1999	42800.000 ppb	10.664
May 27 1999	30500.000 ppb	10.325
Jul 27 1999	31700.000 ppb	10.364
Nov 08 1999	36800.000 ppb	10.513
Dec 10 1999	33100.000 ppb	10.407
Dec 11 1999	34100.000 ppb	10.437
Dec 12 1999	34100.000 ppb	10.437
Dec 13 1999	32200.000 ppb	10.380
Dec 14 1999	34200.000 ppb	10.440
Dec 15 1999	31800.000 ppb	10.367
Dec 16 1999	33100.000 ppb	10.407
Dec 17 1999	36300.000 ppb	10.500
Dec 18 1999	38100.000 ppb	10.548
Dec 19 1999	36000.000 ppb	10.491
Dec 20 1999	35600.000 ppb	10.480
Dec 21 1999	34900.000 ppb	10.460

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	30500.000 ppb	Ln Minimum:	10.325
Maximum:	42800.000 ppb	Ln Maximum:	10.664
Mean:	34730.000 ppb	Ln Mean:	10.452
Std. Dev.:	2899.746 ppb	Ln Std. Dev.:	0.081

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	29400.000 ppb	10.289

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	29400.000 ppb	Ln Minimum:	10.289
Maximum:	29400.000 ppb	Ln Maximum:	10.289
Mean:	29400.000 ppb	Ln Mean:	10.289
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	17100.000 ppb	9.747

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	17100.000 ppb	Ln Minimum:	9.747
Maximum:	17100.000 ppb	Ln Maximum:	9.747
Mean:	17100.000 ppb	Ln Mean:	9.747
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	18100.000 ppb	9.804

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	18100.000 ppb	Ln Minimum:	9.804
Maximum:	18100.000 ppb	Ln Maximum:	9.804
Mean:	18100.000 ppb	Ln Mean:	9.804
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	36400.000 ppb	10.502

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	36400.000 ppb	Ln Minimum:	10.502
Maximum:	36400.000 ppb	Ln Maximum:	10.502
Mean:	36400.000 ppb	Ln Mean:	10.502

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	30400.000 ppb	10.322

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	30400.000 ppb	Ln Minimum:	10.322
Maximum:	30400.000 ppb	Ln Maximum:	10.322
Mean:	30400.000 ppb	Ln Mean:	10.322
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:31

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Mg Magnesium, total

CAS Number: 7439-95-4

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 200.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	15000.000	55200.000	29245.004	8247.899
Log:	9.616	10.919	10.248	0.273

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	30500.000	42800.000	34730.000	2899.746
Log:	10.325	10.664	10.452	0.081

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	31987.498	10.350
Std Dev:	6704.654	0.224
Skewness:	0.370	-0.977
Kurtosis:	2.978	2.670
Minimum:	15000.000	9.616
Maximum:	55200.000	10.919

CV: 0.210 0.022

Shapiro-Wilk Statistics

Scale	Test Statistic	5% Critical Value	1% Critical Value
Original:	0.9281*	0.9400	0.9190
Log:	0.9037*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility:Haz. Waste Unit 13 - RAAP
Parameter:Magnesium, total(CAS Number:7439-95-4)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970 %

UL: 42800.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	29400.000 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	17100.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	18100.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	36400.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	30400.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:36

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Na Sodium

CAS Number: 7440-23-5

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	12700.000 ppb	9.449
May 14 1998	13200.000 ppb	9.488
Aug 14 1998	13100.000 ppb	9.480
Nov 23 1998	11200.000 ppb	9.324
Mar 13 1999	14600.000 ppb	9.589
May 27 1999	18100.000 ppb	9.804
Jul 27 1999	14000.000 ppb	9.547
Nov 08 1999	16500.000 ppb	9.711
Dec 10 1999	12800.000 ppb	9.457
Dec 11 1999	18000.000 ppb	9.798
Dec 12 1999	16100.000 ppb	9.687
Dec 13 1999	19000.000 ppb	9.852
Dec 14 1999	18500.000 ppb	9.826
Dec 15 1999	16500.000 ppb	9.711
Dec 16 1999	17500.000 ppb	9.770
Dec 17 1999	12900.000 ppb	9.465
Dec 18 1999	14600.000 ppb	9.589
Dec 19 1999	16700.000 ppb	9.723
Dec 20 1999	15700.000 ppb	9.661
Dec 21 1999	13500.000 ppb	9.510

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum: 11200.000 ppb
Maximum: 19000.000 ppb
Mean: 15260.000 ppb
Std. Dev.: 2297.000 ppb

Ln Minimum: 9.324
Ln Maximum: 9.852
Ln Mean: 9.622
Ln Std. Dev.: 0.152

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	1430.000 ppb	7.265
May 14 1998	1510.000 ppb	7.320
Aug 14 1998	1420.000 ppb	7.258
Nov 23 1998	1550.000 ppb	7.346
Mar 13 1999	1590.000 ppb	7.371
May 27 1999	1490.000 ppb	7.307
Jul 27 1999	1180.000 ppb	7.073
Nov 08 1999	1310.000 ppb	7.178
Dec 10 1999	1270.000 ppb	7.147
Dec 11 1999	1600.000 ppb	7.378
Dec 12 1999	1530.000 ppb	7.333
Dec 13 1999	1910.000 ppb	7.555
Dec 14 1999	1720.000 ppb	7.450
Dec 15 1999	1990.000 ppb	7.596
Dec 16 1999	1760.000 ppb	7.473
Dec 17 1999	1880.000 ppb	7.539
Dec 18 1999	1710.000 ppb	7.444
Dec 19 1999	1790.000 ppb	7.490
Dec 20 1999	1730.000 ppb	7.456
Dec 21 1999	1900.000 ppb	7.550

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum: 1180.000 ppb
Maximum: 1990.000 ppb
Mean: 1613.500 ppb
Std. Dev.: 226.699 ppb

Ln Minimum: 7.073
Ln Maximum: 7.596
Ln Mean: 7.376
Ln Std. Dev.: 0.144

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	9950.000 ppb	9.205

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum: 9950.000 ppb
Maximum: 9950.000 ppb
Mean: 9950.000 ppb
Std. Dev.: 0.000 ppb

Ln Minimum: 9.205
Ln Maximum: 9.205
Ln Mean: 9.205
Ln Std. Dev.: 0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	8020.000 ppb	8.990

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	8020.000 ppb	Ln Minimum:	8.990
Maximum:	8020.000 ppb	Ln Maximum:	8.990
Mean:	8020.000 ppb	Ln Mean:	8.990
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	7820.000 ppb	8.964

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	7820.000 ppb	Ln Minimum:	8.964
Maximum:	7820.000 ppb	Ln Maximum:	8.964
Mean:	7820.000 ppb	Ln Mean:	8.964
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	7500.000 ppb	8.923

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	7500.000 ppb	Ln Minimum:	8.923
Maximum:	7500.000 ppb	Ln Maximum:	8.923
Mean:	7500.000 ppb	Ln Mean:	8.923

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	7550.000 ppb	8.929

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	7550.000 ppb	Ln Minimum:	8.929
Maximum:	7550.000 ppb	Ln Maximum:	8.929
Mean:	7550.000 ppb	Ln Mean:	8.929
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:36

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Na Sodium

CAS Number: 7440-23-5

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	11200.000	19000.000	15260.000	2297.000
Log:	9.324	9.852	9.622	0.152

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	1180.000	1990.000	1613.500	226.699
Log:	7.073	7.596	7.376	0.144

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	8436.750	8.499
Std Dev:	7095.492	1.147
Skewness:	0.148	0.002
Kurtosis:	-1.795	-1.935
Minimum:	1180.000	7.073
Maximum:	19000.000	9.852

CV: 0.841 0.135

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
	Scale Statistic	Value	Value
Original:	0.7592*	0.9400	0.9190
Log:	0.7374*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility: Haz. Waste Unit 13 - RAAP
Parameter: Sodium(CAS Number:7440-23-5)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970%

UL: 19000.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	9950.000 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	8020.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	7820.000 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	7500.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	7550.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:36

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Sulfate Sulfate, total

CAS Number:14808-79-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	73900.000 ppb	11.210
May 14 1998	61500.000 ppb	11.027
Aug 14 1998	64100.000 ppb	11.068
Nov 23 1998	73300.000 ppb	11.202
Mar 13 1999	65000.000 ppb	11.082
May 27 1999	53900.000 ppb	10.895
Jul 27 1999	68500.000 ppb	11.135
Nov 08 1999	61700.000 ppb	11.030
Dec 10 1999	65000.000 ppb	11.082
Dec 11 1999	47500.000 ppb	10.768
Dec 12 1999	39800.000 ppb	10.592
Dec 13 1999	59600.000 ppb	10.995
Dec 14 1999	59100.000 ppb	10.987
Dec 15 1999	34700.000 ppb	10.454
Dec 16 1999	58300.000 ppb	10.973
Dec 17 1999	64900.000 ppb	11.081
Dec 18 1999	65000.000 ppb	11.082
Dec 19 1999	49200.000 ppb	10.804
Dec 20 1999	62900.000 ppb	11.049
Dec 21 1999	65000.000 ppb	11.082

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	34700.000 ppb	Ln Minimum:	10.454
Maximum:	73900.000 ppb	Ln Maximum:	11.210
Mean:	59645.004 ppb	Ln Mean:	10.980
Std. Dev.:	10147.049 ppb	Ln Std. Dev.:	0.193

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	30300.000 ppb	10.319
May 14 1998	30700.000 ppb	10.332
Aug 14 1998	26900.000 ppb	10.200
Nov 23 1998	27500.000 ppb	10.222
Mar 13 1999	26200.000 ppb	10.174
May 27 1999	22400.000 ppb	10.017
Jul 27 1999	23100.000 ppb	10.048
Nov 08 1999	24400.000 ppb	10.102
Dec 10 1999	25700.000 ppb	10.154
Dec 11 1999	22200.000 ppb	10.008
Dec 12 1999	27300.000 ppb	10.215
Dec 13 1999	23400.000 ppb	10.060
Dec 14 1999	26300.000 ppb	10.177
Dec 15 1999	31800.000 ppb	10.367
Dec 16 1999	22700.000 ppb	10.030
Dec 17 1999	24100.000 ppb	10.090
Dec 18 1999	29900.000 ppb	10.306
Dec 19 1999	28300.000 ppb	10.251
Dec 20 1999	28500.000 ppb	10.258
Dec 21 1999	29800.000 ppb	10.302

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	22200.000 ppb	Ln Minimum:	10.008
Maximum:	31800.000 ppb	Ln Maximum:	10.367
Mean:	26575.000 ppb	Ln Mean:	10.182
Std. Dev.:	3020.958 ppb	Ln Std. Dev.:	0.114

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	109000.000 ppb	11.599

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	109000.000 ppb	Ln Minimum:	11.599
Maximum:	109000.000 ppb	Ln Maximum:	11.599
Mean:	109000.000 ppb	Ln Mean:	11.599
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	45100.000 ppb	10.717

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	45100.000 ppb	Ln Minimum:	10.717
Maximum:	45100.000 ppb	Ln Maximum:	10.717
Mean:	45100.000 ppb	Ln Mean:	10.717
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	40200.000 ppb	10.602

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	40200.000 ppb	Ln Minimum:	10.602
Maximum:	40200.000 ppb	Ln Maximum:	10.602
Mean:	40200.000 ppb	Ln Mean:	10.602
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	168000.000 ppb	12.032

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	168000.000 ppb	Ln Minimum:	12.032
Maximum:	168000.000 ppb	Ln Maximum:	12.032
Mean:	168000.000 ppb	Ln Mean:	12.032

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	112000.000 ppb	11.626

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	112000.000 ppb	Ln Minimum:	11.626
Maximum:	112000.000 ppb	Ln Maximum:	11.626
Mean:	112000.000 ppb	Ln Mean:	11.626
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:37

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Sulfate Sulfate, total

CAS Number:14808-79-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	34700.000	73900.000	59645.004	10147.049
Log:	10.454	11.210	10.980	0.193

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	22200.000	31800.000	26575.000	3020.958
Log:	10.008	10.367	10.182	0.114

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	43110.000	10.581
Std Dev:	18303.660	0.433
Skewness:	0.292	0.115
Kurtosis:	-1.626	-1.698
Minimum:	22200.000	10.008
Maximum:	73900.000	11.210

CV: 0.425 0.041

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.8262*	0.9400	0.9190
Log:	0.8395*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25, 2003

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Facility: Haz. Waste Unit 13 - RAAP
Parameter: Sulfate, total (CAS Number: 14808-79-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970 %

UL: 68500.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 13MW3

<u>Sample Date</u>	<u>Observation</u>	
12/21/99	109000.000 ppb	*

Well: 13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	45100.000 ppb

Well: 13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	40200.000 ppb

Well: 13MW6

<u>Sample Date</u>	<u>Observation</u>	
12/21/99	168000.000 ppb	*

Well: 13MW7

<u>Sample Date</u>	<u>Observation</u>	
12/21/99	112000.000 ppb	*

Data Set Summary

Report Printed: 02-25-2003 08:40

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Zn Zinc, total

CAS Number: 7440-66-6

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 5.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	9.000 ppb	2.197
May 14 1998	2.500 ppb	0.916 (* Nondetect *)
Aug 14 1998	2.500 ppb	0.916 (* Nondetect *)
Nov 23 1998	29.000 ppb	3.367
Mar 13 1999	42.000 ppb	3.738
May 27 1999	2.500 ppb	0.916 (* Nondetect *)
Jul 27 1999	2.500 ppb	0.916 (* Nondetect *)
Nov 08 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 10 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 11 1999	6.000 ppb	1.792
Dec 12 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 13 1999	7.000 ppb	1.946
Dec 14 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 15 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 16 1999	32.200 ppb	3.472
Dec 17 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 18 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 19 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 20 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 21 1999	18.100 ppb	2.896

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 65

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	42.000 ppb	Ln Maximum:	3.738
Mean:	8.790 ppb	Ln Mean:	1.566
Std. Dev.:	11.858 ppb	Ln Std. Dev.:	1.012

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	12.000 ppb	2.485
May 14 1998	2.500 ppb	0.916 (* Nondetect *)
Aug 14 1998	9.000 ppb	2.197
Nov 23 1998	9.000 ppb	2.197
Mar 13 1999	42.000 ppb	3.738
May 27 1999	6.000 ppb	1.792
Jul 27 1999	20.000 ppb	2.996
Nov 08 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 10 1999	20.000 ppb	2.996
Dec 11 1999	5.000 ppb	1.609
Dec 12 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 13 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 14 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 15 1999	37.000 ppb	3.611
Dec 16 1999	18.200 ppb	2.901
Dec 17 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 18 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 19 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 20 1999	2.500 ppb	0.916 (* Nondetect *)
Dec 21 1999	16.200 ppb	2.785

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 45

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	42.000 ppb	Ln Maximum:	3.738
Mean:	10.845 ppb	Ln Mean:	1.878
Std. Dev.:	11.693 ppb	Ln Std. Dev.:	1.021

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	13.200 ppb	2.580

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	13.200 ppb	Ln Minimum:	2.580
Maximum:	13.200 ppb	Ln Maximum:	2.580
Mean:	13.200 ppb	Ln Mean:	2.580
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	10.600 ppb	2.361

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	10.600 ppb	Ln Minimum:	2.361
Maximum:	10.600 ppb	Ln Maximum:	2.361
Mean:	10.600 ppb	Ln Mean:	2.361
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	2.500 ppb	0.916 (* Nondetect *)

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	2.500 ppb	Ln Minimum:	0.916
Maximum:	2.500 ppb	Ln Maximum:	0.916
Mean:	2.500 ppb	Ln Mean:	0.916

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	16.700 ppb	2.815

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	16.700 ppb	Ln Minimum:	2.815
Maximum:	16.700 ppb	Ln Maximum:	2.815
Mean:	16.700 ppb	Ln Mean:	2.815
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval
Report Printed February 25,2003

Page 1

Facility: Haz. Waste Unit 13 - RAAP
Parameter: Zinc, total(CAS Number:7440-66-6)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970%

UL: 42.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	13.200 ppb

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 5.000 ppb

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	10.600 ppb

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 5.000 ppb

Well:13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	16.700 ppb

Data Set Summary

Report Printed: 02-25-2003 08:41

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:TOC Total Organic Carbon

CAS Number: - -

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	500.000 ppb	6.215 (* Nondetect *)
May 14 1998	500.000 ppb	6.215 (* Nondetect *)
Aug 14 1998	500.000 ppb	6.215 (* Nondetect *)
Nov 23 1998	500.000 ppb	6.215 (* Nondetect *)
Mar 13 1999	1725.000 ppb	7.453
May 27 1999	500.000 ppb	6.215 (* Nondetect *)
Jul 27 1999	500.000 ppb	6.215 (* Nondetect *)
Nov 08 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 10 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 11 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 12 1999	1550.000 ppb	7.346
Dec 13 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 14 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 15 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 16 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 17 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 18 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 19 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 20 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 90

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	1725.000 ppb	Ln Maximum:	7.453
Mean:	613.750 ppb	Ln Mean:	6.333
Std. Dev.:	351.264 ppb	Ln Std. Dev.:	0.365

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	500.000 ppb	6.215 (* Nondetect *)
May 14 1998	1400.000 ppb	7.244
Aug 14 1998	500.000 ppb	6.215 (* Nondetect *)
Nov 23 1998	500.000 ppb	6.215 (* Nondetect *)
Mar 13 1999	8625.000 ppb	9.062
May 27 1999	500.000 ppb	6.215 (* Nondetect *)
Jul 27 1999	500.000 ppb	6.215 (* Nondetect *)
Nov 08 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 10 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 11 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 12 1999	1625.000 ppb	7.393
Dec 13 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 14 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 15 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 16 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 17 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 18 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 19 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 20 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 85

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	8625.000 ppb	Ln Maximum:	9.062
Mean:	1007.500 ppb	Ln Mean:	6.467
Std. Dev.:	1820.065 ppb	Ln Std. Dev.:	0.699

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:13MW4 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	1100.000 ppb	7.003

Well ID:13MW5 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1100.000 ppb	Ln Minimum:	7.003
Maximum:	1100.000 ppb	Ln Maximum:	7.003
Mean:	1100.000 ppb	Ln Mean:	7.003
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	500.000 ppb	6.215 (* Nondetect *)

Well ID:13MW6 Summary Statistics

Observations (N): 1
Nondetects (%ND):100

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	500.000 ppb	Ln Maximum:	6.215
Mean:	500.000 ppb	Ln Mean:	6.215

Std. Dev.: 0.000 ppb

Ln Std. Dev.: 0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	1050.000 ppb	6.957

Well ID:13MW7 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1050.000 ppb	Ln Minimum:	6.957
Maximum:	1050.000 ppb	Ln Maximum:	6.957
Mean:	1050.000 ppb	Ln Mean:	6.957
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval
Report Printed February 25, 2003

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Facility: Haz. Waste Unit 13 - RAAP
Parameter: Total Organic Carbon (CAS Number: - -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n):	32
Conf. Level (1- α):	96.970%
UL:	8625.000 ppb
LL:	0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 1000.000 ppb

Well: 13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 1000.000 ppb

Well: 13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1100.000 ppb

Well: 13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	ND < 1000.000 ppb

Well: 13MW7

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1050.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:44

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Detection

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -

MCL: 0.000 umhos/cm

ACL: 0.000 umhos/cm

Detect Limit: 1.000 umhos/cm

Start Date:Mar 09 1998

End Date:Dec 21 1999

Well ID:13MW1

Sample Date	Observation	Ln
Mar 09 1998	660.000 umhos/cm	6.492
May 14 1998	590.000 umhos/cm	6.380
Aug 14 1998	613.000 umhos/cm	6.418
Nov 23 1998	660.000 umhos/cm	6.492
Mar 13 1999	1940.000 umhos/cm	7.570
May 27 1999	6870.000 umhos/cm	8.835
Jul 27 1999	759.000 umhos/cm	6.632
Nov 08 1999	896.000 umhos/cm	6.798
Dec 10 1999	634.000 umhos/cm	6.452
Dec 11 1999	599.000 umhos/cm	6.395
Dec 12 1999	506.000 umhos/cm	6.227
Dec 13 1999	871.000 umhos/cm	6.770
Dec 14 1999	754.000 umhos/cm	6.625
Dec 15 1999	457.000 umhos/cm	6.125
Dec 16 1999	762.000 umhos/cm	6.636
Dec 17 1999	730.000 umhos/cm	6.593
Dec 18 1999	732.000 umhos/cm	6.596
Dec 19 1999	665.000 umhos/cm	6.500
Dec 20 1999	733.000 umhos/cm	6.597
Dec 21 1999	729.000 umhos/cm	6.592

Well ID:13MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	457.000 umhos/cm	Ln Minimum:	6.125
Maximum:	6870.000 umhos/cm	Ln Maximum:	8.835
Mean:	1058.000 umhos/cm	Ln Mean:	6.686
Std. Dev.:	1400.381 umhos/cm	Ln Std. Dev.:	0.581

Well ID:13MW2

Sample Date	Observation	Ln
Mar 09 1998	568.000 umhos/cm	6.342
May 14 1998	573.000 umhos/cm	6.351
Aug 14 1998	553.000 umhos/cm	6.315
Nov 23 1998	560.000 umhos/cm	6.328
Mar 13 1999	500.000 umhos/cm	6.215
May 27 1999	5810.000 umhos/cm	8.667
Jul 27 1999	589.000 umhos/cm	6.378
Nov 08 1999	687.000 umhos/cm	6.532
Dec 10 1999	495.000 umhos/cm	6.205
Dec 11 1999	568.000 umhos/cm	6.342
Dec 12 1999	601.000 umhos/cm	6.399
Dec 13 1999	689.000 umhos/cm	6.535
Dec 14 1999	618.000 umhos/cm	6.426
Dec 15 1999	574.000 umhos/cm	6.353
Dec 16 1999	613.000 umhos/cm	6.418
Dec 17 1999	617.000 umhos/cm	6.425
Dec 18 1999	612.000 umhos/cm	6.417
Dec 19 1999	648.000 umhos/cm	6.474
Dec 20 1999	610.000 umhos/cm	6.413
Dec 21 1999	621.000 umhos/cm	6.431

Well ID:13MW2 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	495.000 umhos/cm	Ln Minimum:	6.205
Maximum:	5810.000 umhos/cm	Ln Maximum:	8.667
Mean:	855.300 umhos/cm	Ln Mean:	6.498
Std. Dev.:	1167.278 umhos/cm	Ln Std. Dev.:	0.518

Well ID:13MW3

Sample Date	Observation	Ln
Dec 21 1999	622.000 umhos/cm	6.433

Well ID:13MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	622.000 umhos/cm	Ln Minimum:	6.433
Maximum:	622.000 umhos/cm	Ln Maximum:	6.433
Mean:	622.000 umhos/cm	Ln Mean:	6.433
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:13MW4

Sample Date	Observation	Ln
Dec 21 1999	460.000 umhos/cm	6.131

Well ID:13MW4 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	460.000 umhos/cm	Ln Minimum:	6.131
Maximum:	460.000 umhos/cm	Ln Maximum:	6.131
Mean:	460.000 umhos/cm	Ln Mean:	6.131
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:13MW5

Sample Date	Observation	Ln
Dec 21 1999	428.000 umhos/cm	6.059

Well ID:13MW5 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	428.000 umhos/cm	Ln Minimum:	6.059
Maximum:	428.000 umhos/cm	Ln Maximum:	6.059
Mean:	428.000 umhos/cm	Ln Mean:	6.059
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:13MW6

Sample Date	Observation	Ln
Dec 21 1999	756.000 umhos/cm	6.628

Well ID:13MW6 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	756.000 umhos/cm	Ln Minimum:	6.628
Maximum:	756.000 umhos/cm	Ln Maximum:	6.628
Mean:	756.000 umhos/cm	Ln Mean:	6.628

Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:13MW7

Sample Date	Observation	Ln
Dec 21 1999	647.000 umhos/cm	6.472

Well ID:13MW7 Summary Statistics

Observations (N):	1
Nondetects (%ND):	0

Minimum:	647.000 umhos/cm	Ln Minimum:	6.472
Maximum:	647.000 umhos/cm	Ln Maximum:	6.472
Mean:	647.000 umhos/cm	Ln Mean:	6.472
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:44

Facility:RAAPHWMU13 Haz. Waste Unit 13 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Detection

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -
MCL: 0.000 umhos/cm
ACL: 0.000 umhos/cm
Detect Limit: 1.000 umhos/cm

Start Date:Mar 09 1998
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:13MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	457.000	6870.000	1058.000	1400.381
Log:	6.125	8.835	6.686	0.581

Well:13MW2 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	495.000	5810.000	855.300	1167.278
Log:	6.205	8.667	6.498	0.518

Pooled Statistics

Observations: 40

Statistic	Original Scale	Log Scale
Mean:	956.650	6.592
Std Dev:	1276.608	0.551
Skewness:	4.001*	3.216*
Kurtosis:	14.616	9.802
Minimum:	457.000	6.125
Maximum:	6870.000	8.835

CV: 1.334 0.084

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.3405*	0.9400	0.9190
Log:	0.5441*	0.9400	0.9190

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 13 - RAAP
Parameter:Specific Conductivity, Field(CAS Number:- -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 32
Conf. Level (1- α): 96.970 %
UL: 6870.000 umhos/cm
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:13MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	622.000 umhos/cm

Well:13MW4

<u>Sample Date</u>	<u>Observation</u>
12/21/99	460.000 umhos/cm

Well:13MW5

<u>Sample Date</u>	<u>Observation</u>
12/21/99	428.000 umhos/cm

Well:13MW6

<u>Sample Date</u>	<u>Observation</u>
12/21/99	756.000 umhos/cm

Well:13MW7

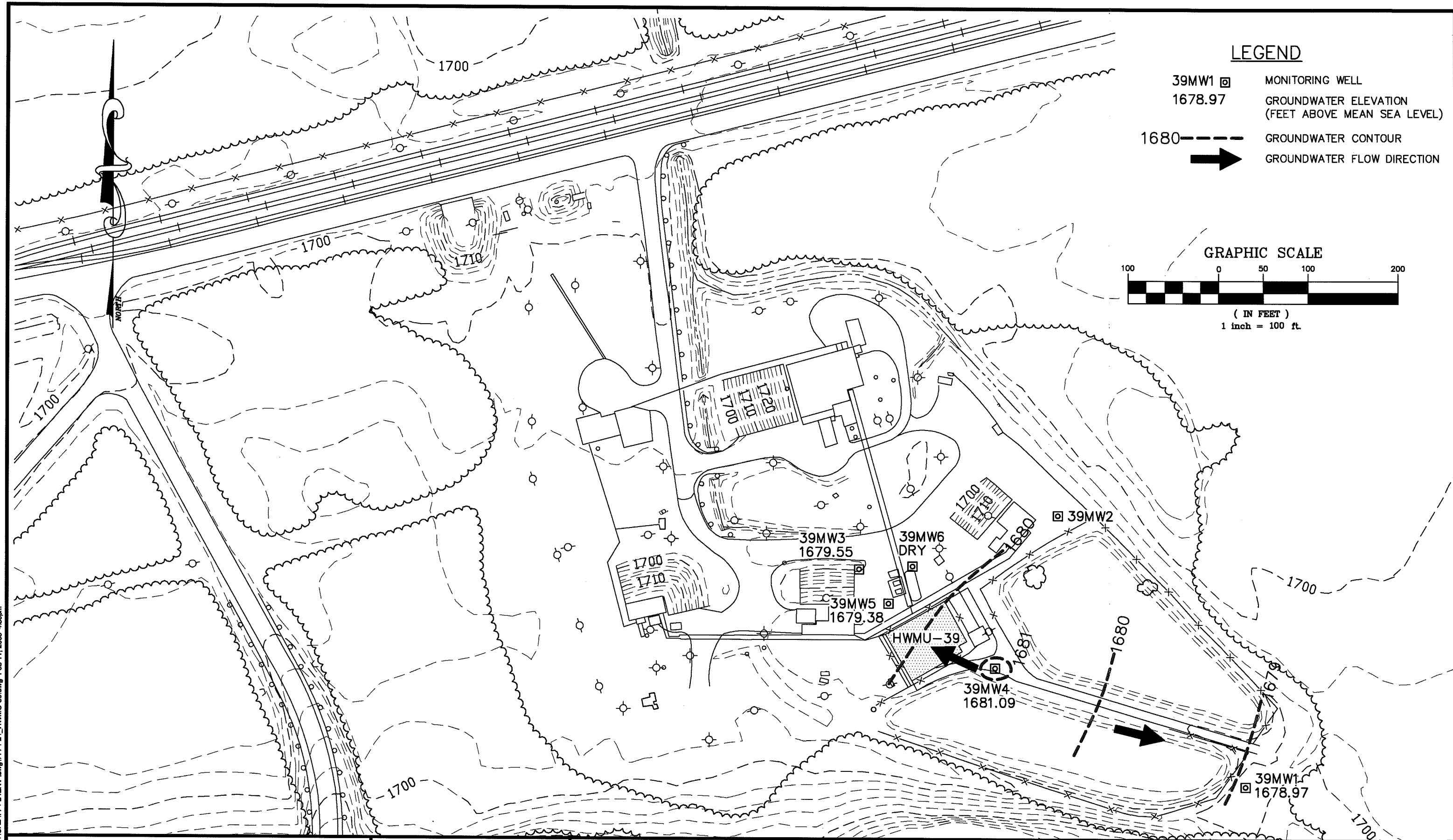
<u>Sample Date</u>	<u>Observation</u>
12/21/99	647.000 umhos/cm

APPENDIX C

HWMU-39

APPENDIX C-1

**HWMU-39 POTENTIOMETRIC SURFACE MAP
FOURTH QUARTER 2002**



Draper Aden Associates
Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291

Richmond, VA
Charlottesville, VA
Raleigh-Durham, NC

DESIGNED
DRAWN
CHECKED
DATE

RGM
DRW
AEK
02/06/03

HWMU-39 POTENTIOMETRIC SURFACE MAP (4TH QUARTER 2002)
RADFORD ARMY AMMUNITION PLANT
RADFORD, VIRGINIA

SCALE: 1"=100'

PLAN NO. 7774-24

FIGURE

APPENDIX C-2

HWMU-39 YEAR 2002 LABORATORY ANALYTICAL RESULTS

Site ID	Client/SampID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW1-A	3/7/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW1-A	3/7/2002	Chloride	µg/L	12900	1,000	SW9056	
SITE 39	39MW1-A	3/7/2002	Fluoride	µg/L	310	100	SW9056	
SITE 39	39MW1-A	3/7/2002	Nitrogen, Nitrate	µg/L	1240	100	SW9056	
SITE 39	39MW1-A	3/7/2002	Sulfate	µg/L	18300	5,000	SW9056	
SITE 39	39MW1-A	3/7/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW1-A	3/7/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW1-A	3/7/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW1-A	3/7/2002	Iron	µg/L	274	100	SW6010B	
SITE 39	39MW1-A	3/7/2002	Sodium	µg/L	12600	10	SW6010B	
SITE 39	39MW1-A	3/7/2002	Endrin	µg/L	ND	0.5	SW8081	
SITE 39	39MW1-A	3/7/2002	gamma-BHC	µg/L	ND	0.2	SW8081	
SITE 39	39MW1-A	3/7/2002	Methoxychlor	µg/L	ND	0.5	SW8081	
SITE 39	39MW1-A	3/7/2002	Toxaphene	µg/L	ND	3	SW8081	
SITE 39	39MW1-A	3/7/2002	2,4,5-TP (Silvex)	µg/L	ND	10	SW8151	
SITE 39	39MW1-A	3/7/2002	2,4-D	µg/L	ND	50	SW8151	
SITE 39	39MW1-A	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-A	3/7/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	3/7/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	3/7/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	3/7/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	3/7/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	3/7/2002	Total Organic Halides (TOX)	µg/L	54.5	20	SW9020B	
SITE 39	39MW1-A	3/7/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	3/7/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	3/7/2002	Barium	µg/L	41.8	10	SW6020	
SITE 39	39MW1-A	3/7/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	3/7/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	3/7/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW1-A	3/7/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	3/7/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW1-A	3/7/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	3/7/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW1-A	3/7/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW1-B	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-B	3/7/2002	Total Organic Halides (TOX)	µg/L	58.9	20	SW9020B	
SITE 39	39MW1-C	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-C	3/7/2002	Total Organic Halides (TOX)	µg/L	59.5	20	SW9020B	
SITE 39	39MW1-D	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-D	3/7/2002	Total Organic Halides (TOX)	µg/L	56.9	20	SW9020B	
SITE 39	39MW3-A	3/7/2002	Gross Alpha	pCi/l	0.7 ± 0.6		SW9310	
SITE 39	39MW3-A	3/7/2002	Gross Beta	pCi/l	2.9 ± 0.7		SW9310	
SITE 39	39MW3-A	3/7/2002	Total Radium	pCi/l	0.7 ± 0.5		SW9320	
SITE 39	39MW3-A	3/7/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW3-A	3/7/2002	Chloride	µg/L	7800	1,000	SW9056	
SITE 39	39MW3-A	3/7/2002	Fluoride	µg/L	180	100	SW9056	
SITE 39	39MW3-A	3/7/2002	Nitrogen, Nitrate	µg/L	3250	100	SW9056	
SITE 39	39MW3-A	3/7/2002	Sulfate	µg/L	130000	5,000	SW9056	
SITE 39	39MW3-A	3/7/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW3-A	3/7/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW3-A	3/7/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW3-A	3/7/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW3-A	3/7/2002	Sodium	µg/L	37500	10	SW6010B	
SITE 39	39MW3-A	3/7/2002	Endrin	µg/L	ND	0.5	SW8081	
SITE 39	39MW3-A	3/7/2002	gamma-BHC	µg/L	ND	0.2	SW8081	
SITE 39	39MW3-A	3/7/2002	Methoxychlor	µg/L	ND	0.5	SW8081	
SITE 39	39MW3-A	3/7/2002	Toxaphene	µg/L	ND	3	SW8081	
SITE 39	39MW3-A	3/7/2002	2,4,5-TP (Silvex)	µg/L	ND	10	SW8151	
SITE 39	39MW3-A	3/7/2002	2,4-D	µg/L	ND	50	SW8151	
SITE 39	39MW3-A	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-A	3/7/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	3/7/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	3/7/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	3/7/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	3/7/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	3/7/2002	Total Organic Halides (TOX)	µg/L	37.4	20	SW9020B	
SITE 39	39MW3-A	3/7/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	3/7/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	3/7/2002	Barium	µg/L	88.8	10	SW6020	
SITE 39	39MW3-A	3/7/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	3/7/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	3/7/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW3-A	3/7/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	3/7/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW3-A	3/7/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	3/7/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW3-A	3/7/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW3-B	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-B	3/7/2002	Total Organic Halides (TOX)	µg/L	35.3	20	SW9020B	

First Qtr 2002

Site ID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW3-C	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-C	3/7/2002	Total Organic Halides (TOX)	µg/L	36.7	20	SW9020B	
SITE 39	39MW3-D	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-D	3/7/2002	Total Organic Halides (TOX)	µg/L	34.6	20	SW9020B	
SITE 39	39MW3-A	3/7/2002	Gross Alpha	pCi/l	4.4 ± 1.9		SW9310	
SITE 39	39MW3-A	3/7/2002	Gross Beta	pCi/l	10.0 ± 1.1		SW9310	
SITE 39	39MW3-A	3/7/2002	Total Radium	pCi/l	0.9 ± 0.5		SW9320	
SITE 39	DUPLICATE-A	3/7/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	DUPLICATE-A	3/7/2002	Chloride	µg/L	12300	1,000	SW9056	
SITE 39	DUPLICATE-A	3/7/2002	Fluoride	µg/L	290	100	SW9056	
SITE 39	DUPLICATE-A	3/7/2002	Nitrogen, Nitrate	µg/L	1290	100	SW9056	
SITE 39	DUPLICATE-A	3/7/2002	Sulfate	µg/L	18500	5,000	SW9056	
SITE 39	DUPLICATE-A	3/7/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	DUPLICATE-A	3/7/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	DUPLICATE-A	3/7/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	DUPLICATE-A	3/7/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	DUPLICATE-A	3/7/2002	Sodium	µg/L	11300	10	SW6010B	
SITE 39	DUPLICATE-A	3/7/2002	Endrin	µg/L	ND	0.5	SW8081	
SITE 39	DUPLICATE-A	3/7/2002	gamma-BHC	µg/L	ND	0.2	SW8081	
SITE 39	DUPLICATE-A	3/7/2002	Methoxychlor	µg/L	ND	0.5	SW8081	
SITE 39	DUPLICATE-A	3/7/2002	Toxaphene	µg/L	ND	3	SW8081	
SITE 39	DUPLICATE-A	3/7/2002	2,4,5-TP (Silvex)	µg/L	ND	10	SW8151	
SITE 39	DUPLICATE-A	3/7/2002	2,4-D	µg/L	ND	50	SW8151	
SITE 39	DUPLICATE-A	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-A	3/7/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE-A	3/7/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE-A	3/7/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE-A	3/7/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE-A	3/7/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE-A	3/7/2002	Total Organic Halides (TOX)	µg/L	63.4	20	SW9020B	
SITE 39	DUPLICATE-A	3/7/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Barium	µg/L	42.3	10	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	3/7/2002	Gross Alpha	pCi/l	1.1 ± 0.6		SW9310	
SITE 39	DUPLICATE-A	3/7/2002	Gross Beta	pCi/l	2.7 ± 0.7		SW9310	
SITE 39	DUPLICATE-A	3/7/2002	Total Radium	pCi/l	0.7 ± 0.5		SW9320	
SITE 39	DUPLICATE-B	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-B	3/7/2002	Total Organic Halides (TOX)	µg/L	58.2	20	SW9020B	
SITE 39	DUPLICATE-C	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-C	3/7/2002	Total Organic Halides (TOX)	µg/L	61.6	20	SW9020B	
SITE 39	DUPLICATE-D	3/7/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-D	3/7/2002	Total Organic Halides (TOX)	µg/L	63.8	20	SW9020B	
SITE 39	TRIP BLANK	3/7/2002	2,4-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	3/7/2002	2,6-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	3/7/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	3/7/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	3/7/2002	Resorcinol	µg/L	ND	10	SW8270C	
Duplicate Well: 39MW1								

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SiteID	ClientSample	CollectionC	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW1-A	5/14/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW1-A	5/14/2002	2,4-D	µg/L	ND	39	SW8151	
SITE 39	39MW1-A	5/14/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	5/14/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	5/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	5/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	5/14/2002	Barium	µg/L	51.7	10	SW6020	
SITE 39	39MW1-A	5/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	5/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	5/14/2002	Chloride	µg/L	8500	1,000	SW9056	
SITE 39	39MW1-A	5/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW1-A	5/14/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	5/14/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	5/14/2002	Endrin	µg/L	ND	0	SW8081	
SITE 39	39MW1-A	5/14/2002	Fluoride	µg/L	160	100	SW9056	
SITE 39	39MW1-A	5/14/2002	gamma-BHC	µg/L	ND	0	SW8081	
SITE 39	39MW1-A	5/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW1-A	5/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	5/14/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW1-A	5/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW1-A	5/14/2002	Methoxychlor	µg/L	ND	0	SW8081	
SITE 39	39MW1-A	5/14/2002	MPN, Fecal Coliform	MPN Index	300	2	SM9221 E	
SITE 39	39MW1-A	5/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	5/14/2002	Nitrogen, Nitrate	µg/L	1410	100	SW9056	
SITE 39	39MW1-A	5/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW1-A	5/14/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	39MW1-A	5/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW1-A	5/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW1-A	5/14/2002	Sodium	µg/L	7990	10	SW6010B	
SITE 39	39MW1-A	5/14/2002	Sulfate	µg/L	18500	5,000	SW9056	
SITE 39	39MW1-A	5/14/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-A	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	5/14/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	39MW1-B	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-B	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-C	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-C	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-D	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-D	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	5/14/2002	Gross Alpha	pCi/l	1.6 + 0.4	1	SW9310	
SITE 39	39MW1-A	5/14/2002	Gross Beta	pCi/l	2.8 ± 0.5	1	SW9310	
SITE 39	39MW1-A	5/14/2002	Total Radium	pCi/l	0.9 + 0.8	1	SW9320	
SITE 39	39MW3-A	5/14/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW3-A	5/14/2002	2,4-D	µg/L	ND	40	SW8151	
SITE 39	39MW3-A	5/14/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	5/14/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	5/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	5/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	5/14/2002	Barium	µg/L	103	10	SW6020	
SITE 39	39MW3-A	5/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	5/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	5/14/2002	Chloride	µg/L	15000	1,000	SW9056	
SITE 39	39MW3-A	5/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW3-A	5/14/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	5/14/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	5/14/2002	Endrin	µg/L	ND	0	SW8081	
SITE 39	39MW3-A	5/14/2002	Fluoride	µg/L	480	100	SW9056	
SITE 39	39MW3-A	5/14/2002	gamma-BHC	µg/L	ND	0	SW8081	
SITE 39	39MW3-A	5/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW3-A	5/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	5/14/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW3-A	5/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW3-A	5/14/2002	Methoxychlor	µg/L	ND	0	SW8081	
SITE 39	39MW3-A	5/14/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW3-A	5/14/2002	Nickel	µg/L	12.4	10	SW6020	
SITE 39	39MW3-A	5/14/2002	Nitrogen, Nitrate	µg/L	2800	100	SW9056	
SITE 39	39MW3-A	5/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW3-A	5/14/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	39MW3-A	5/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW3-A	5/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW3-A	5/14/2002	Sodium	µg/L	43000	10	SW6010B	
SITE 39	39MW3-A	5/14/2002	Sulfate	µg/L	151000	5,000	SW9056	
SITE 39	39MW3-A	5/14/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-A	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-A	5/14/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	39MW3-B	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-B	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Second Qtr 2002

SiteID	ClientSample	Collection	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW3-C	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-C	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-D	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-D	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-A	5/14/2002	Gross Alpha	pCi/l	1.3 ± 0.6	1	SW9310	
SITE 39	39MW3-A	5/14/2002	Gross Beta	pCi/l	12.1 ± 0.7	1	SW9310	
SITE 39	39MW3-A	5/14/2002	Total Radium	pCi/l	0.6 ± 0.8	1	SW9320	
SITE 39	DUPLICATE	5/14/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	DUPLICATE	5/14/2002	2,4-D	µg/L	ND	40	SW8151	
SITE 39	DUPLICATE	5/14/2002	2,4-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE	5/14/2002	2,6-Dinitrotoluene	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE	5/14/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE	5/14/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE	5/14/2002	Barium	µg/L	53.8	10	SW6020	
SITE 39	DUPLICATE	5/14/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE	5/14/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE	5/14/2002	Chloride	µg/L	8500	1,000	SW9056	
SITE 39	DUPLICATE	5/14/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	DUPLICATE	5/14/2002	Diethyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE	5/14/2002	Di-n-butyl phthalate	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE	5/14/2002	Endrin	µg/L	ND	0	SW8081	
SITE 39	DUPLICATE	5/14/2002	Fluoride	µg/L	160	100	SW9056	
SITE 39	DUPLICATE	5/14/2002	gamma-BHC	µg/L	ND	0	SW8081	
SITE 39	DUPLICATE	5/14/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	DUPLICATE	5/14/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE	5/14/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	DUPLICATE	5/14/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	DUPLICATE	5/14/2002	Methoxychlor	µg/L	ND	0	SW8081	
SITE 39	DUPLICATE	5/14/2002	MPN, Fecal Coliform	MPN Index	30	2	SM9221 E	
SITE 39	DUPLICATE	5/14/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE	5/14/2002	Nitrogen, Nitrate	µg/L	1480	100	SW9056	
SITE 39	DUPLICATE	5/14/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	DUPLICATE	5/14/2002	Resorcinol	µg/L	ND	9	SW8270C	
SITE 39	DUPLICATE	5/14/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	DUPLICATE	5/14/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	DUPLICATE	5/14/2002	Sodium	µg/L	7990	10	SW6010B	
SITE 39	DUPLICATE	5/14/2002	Sulfate	µg/L	18900	5,000	SW9056	
SITE 39	DUPLICATE	5/14/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE	5/14/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	DUPLICATE	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE	5/14/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE	5/14/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE	5/14/2002	Gross Alpha	pCi/l	1.0 ± 0.4	1	SW9310	
SITE 39	DUPLICATE	5/14/2002	Gross Beta	pCi/l	2.9 ± 0.5	1	SW9310	
SITE 39	DUPLICATE	5/14/2002	Total Radium	pCi/l	0.4 ± 0.8	1	SW9320	
SITE 39	TRIP BLANK	5/14/2002	2,4-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	5/14/2002	2,6-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	5/14/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	5/14/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	5/14/2002	Resorcinol	µg/L	ND	10	SW8270C	
	Duplicate well 39MW1							

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW1-A	9/18/2002	Chloride	µg/L	12100	1,000	SW9056	
SITE 39	39MW1-A	9/18/2002	Fluoride	µg/L	260	100	SW9056	
SITE 39	39MW1-A	9/18/2002	Nitrogen, Nitrate	µg/L	1480	100	SW9056	
SITE 39	39MW1-A	9/18/2002	Sulfate	µg/L	21400	5,000	SW9056	
SITE 39	39MW1-A	9/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW1-A	9/18/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW1-A	9/18/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW1-A	9/18/2002	Iron	µg/L	174	100	SW6010B	
SITE 39	39MW1-A	9/18/2002	Sodium	µg/L	11700	10	SW6010B	
SITE 39	39MW1-A	9/18/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW1-A	9/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	9/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	9/18/2002	Barium	µg/L	39.3	10	SW6020	
SITE 39	39MW1-A	9/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	9/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	9/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW1-A	9/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	9/18/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW1-A	9/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	9/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW1-A	9/18/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	9/18/2002	Total Organic Carbon	µg/L	1000	1,000	SW9060	
SITE 39	39MW1-A	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	9/18/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	9/18/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	9/18/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	9/18/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	9/18/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	9/18/2002	Endrin	µg/L	ND	0.393	SW8081	
SITE 39	39MW1-A	9/18/2002	gamma-BHC	µg/L	ND	0.157	SW8081	
SITE 39	39MW1-A	9/18/2002	Methoxychlor	µg/L	ND	0.393	SW8081	
SITE 39	39MW1-A	9/18/2002	Toxaphene	µg/L	ND	2.36	SW8081	
SITE 39	39MW1-A	9/18/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW1-A	9/18/2002	2,4-D	µg/L	ND	39	SW8151	
SITE 39	39MW1-B	9/18/2002	Total Organic Carbon	µg/L	1100	1,000	SW9060	
SITE 39	39MW1-B	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-C	9/18/2002	Total Organic Carbon	µg/L	1400	1,000	SW9060	
SITE 39	39MW1-C	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-D	9/18/2002	Total Organic Carbon	µg/L	1500	1,000	SW9060	
SITE 39	39MW1-D	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	9/18/2002	Gross Alpha	pCi/l	0.8 ± 0.4	1	SW9310	
SITE 39	39MW1-A	9/18/2002	Gross Beta	pCi/l	2.4 ± 0.5	1	SW9310	
SITE 39	39MW1-A	9/18/2002	Total Radium	pCi/l	0.6 ± 0.8	1	SW9320	
SITE 39	39MW3-A	9/18/2002	Chloride	µg/L	4200	1,000	SW9056	
SITE 39	39MW3-A	9/18/2002	Fluoride	µg/L	240	100	SW9056	
SITE 39	39MW3-A	9/18/2002	Nitrogen, Nitrate	µg/L	2490	100	SW9056	
SITE 39	39MW3-A	9/18/2002	Sulfate	µg/L	92400	5,000	SW9056	
SITE 39	39MW3-A	9/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW3-A	9/18/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW3-A	9/18/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW3-A	9/18/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW3-A	9/18/2002	Sodium	µg/L	23300	10	SW6010B	
SITE 39	39MW3-A	9/18/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW3-A	9/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	9/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	9/18/2002	Barium	µg/L	90.6	10	SW6020	
SITE 39	39MW3-A	9/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	9/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	9/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW3-A	9/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	9/18/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW3-A	9/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	9/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW3-A	9/18/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-A	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-A	9/18/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	9/18/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	9/18/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	9/18/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	9/18/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	9/18/2002	Endrin	µg/L	ND	0.392	SW8081	
SITE 39	39MW3-A	9/18/2002	gamma-BHC	µg/L	ND	0.157	SW8081	
SITE 39	39MW3-A	9/18/2002	Methoxychlor	µg/L	ND	0.392	SW8081	
SITE 39	39MW3-A	9/18/2002	Toxaphene	µg/L	ND	2.35	SW8081	
SITE 39	39MW3-A	9/18/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW3-A	9/18/2002	2,4-D	µg/L	ND	39	SW8151	
SITE 39	39MW3-B	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-B	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Third Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW3-C	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-C	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-D	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-D	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-D	9/18/2002	Gross Alpha	pCi/l	3.3 ± 1.1	1	SW9310	
SITE 39	39MW3-D	9/18/2002	Gross Beta	pCi/l	10.8 ± 0.7	1	SW9310	
SITE 39	39MW3-D	9/18/2002	Total Radium	pCi/l	0.2 ± 0.8	1	SW9320	
SITE 39	DUPLICATE-A	9/18/2002	Chloride	µg/L	11700	1,000	SW9056	
SITE 39	DUPLICATE-A	9/18/2002	Fluoride	µg/L	270	100	SW9056	
SITE 39	DUPLICATE-A	9/18/2002	Nitrogen, Nitrate	µg/L	1500	100	SW9056	
SITE 39	DUPLICATE-A	9/18/2002	Sulfate	µg/L	20200	5,000	SW9056	
SITE 39	DUPLICATE-A	9/18/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	DUPLICATE-A	9/18/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	DUPLICATE-A	9/18/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	DUPLICATE-A	9/18/2002	Iron	µg/L	104	100	SW6010B	
SITE 39	DUPLICATE-A	9/18/2002	Sodium	µg/L	13300	10	SW6010B	
SITE 39	DUPLICATE-A	9/18/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	DUPLICATE-A	9/18/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Barium	µg/L	40.8	10	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-A	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-A	9/18/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	9/18/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	9/18/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	9/18/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	9/18/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	9/18/2002	Endrin	µg/L	ND	0.389	SW8081	
SITE 39	DUPLICATE-A	9/18/2002	gamma-BHC	µg/L	ND	0.156	SW8081	
SITE 39	DUPLICATE-A	9/18/2002	Methoxychlor	µg/L	ND	0.389	SW8081	
SITE 39	DUPLICATE-A	9/18/2002	Toxaphene	µg/L	ND	2.33	SW8081	
SITE 39	DUPLICATE-A	9/18/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	DUPLICATE-A	9/18/2002	2,4-D	µg/L	ND	39	SW8151	
SITE 39	DUPLICATE-B	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-B	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-C	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-C	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-D	9/18/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-D	9/18/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE	9/18/2002	Gross Alpha	pCi/l	1.0 ± 0.4	1	SW9310	
SITE 39	DUPLICATE	9/18/2002	Gross Beta	pCi/l	2.7 ± 0.5	1	SW9310	
SITE 39	DUPLICATE	9/18/2002	Total Radium	pCi/l	0.6 ± 1.1	1	SW9320	
SITE 39	TRIP BLANK	9/18/2002	2,4-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	9/18/2002	2,6-Dinitrotoluene	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	9/18/2002	Di-n-butyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	9/18/2002	Diethyl phthalate	µg/L	ND	10	SW8270C	
SITE 39	TRIP BLANK	9/18/2002	Resorcinol	µg/L	ND	10	SW8270C	
Duplicate well - 39MW1								

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW1-A	12/16/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW1-A	12/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW1-A	12/16/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW1-A	12/16/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW1-A	12/16/2002	Sodium	µg/L	4520	10	SW6010B	
SITE 39	39MW1-A	12/16/2002	Chloride	µg/L	3230	1,000	SW9056	
SITE 39	39MW1-A	12/16/2002	Fluoride	µg/L	210	100	SW9056	
SITE 39	39MW1-A	12/16/2002	Nitrogen, Nitrate	µg/L	1750	100	SW9056	
SITE 39	39MW1-A	12/16/2002	Sulfate	µg/L	24400	5,000	SW9056	
SITE 39	39MW1-A	12/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	12/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	12/16/2002	Barium	µg/L	51.7	10	SW6020	
SITE 39	39MW1-A	12/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	12/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	12/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW1-A	12/16/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	12/16/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW1-A	12/16/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	39MW1-A	12/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW1-A	12/16/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW1-A	12/16/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW1-A	12/16/2002	Endrin	µg/L	ND	0.388	SW8081	
SITE 39	39MW1-A	12/16/2002	gamma-BHC	µg/L	ND	0.155	SW8081	
SITE 39	39MW1-A	12/16/2002	Methoxychlor	µg/L	ND	0.388	SW8081	
SITE 39	39MW1-A	12/16/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	39MW1-A	12/16/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW1-A	12/16/2002	2,4-D	µg/L	ND	41	SW8151	
SITE 39	39MW1-A	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-A	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	12/16/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	12/16/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	12/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	12/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW1-A	12/16/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	39MW1-B	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-B	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-C	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-C	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-D	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW1-D	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW1-A	12/16/2002	Gross Alpha	pCi/l	0.8 ± 0.4	1	SW9310	
SITE 39	39MW1-A	12/16/2002	Gross Beta	pCi/l	2.6 ± 0.7	1	SW9310	
SITE 39	39MW1-A	12/16/2002	Total Radium	pCi/l	0.0 ± 0.6	1	SW9320	
SITE 39	39MW3-A	12/16/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW3-A	12/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW3-A	12/16/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW3-A	12/16/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW3-A	12/16/2002	Sodium	µg/L	29800	10	SW6010B	
SITE 39	39MW3-A	12/16/2002	Chloride	µg/L	3420	1,000	SW9056	
SITE 39	39MW3-A	12/16/2002	Fluoride	µg/L	290	100	SW9056	
SITE 39	39MW3-A	12/16/2002	Nitrogen, Nitrate	µg/L	2640	100	SW9056	
SITE 39	39MW3-A	12/16/2002	Sulfate	µg/L	99300	5,000	SW9056	
SITE 39	39MW3-A	12/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	12/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW3-A	12/16/2002	Barium	µg/L	61.1	10	SW6020	
SITE 39	39MW3-A	12/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	12/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	12/16/2002	Chromium	µg/L	96.8	5	SW6020	
SITE 39	39MW3-A	12/16/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	12/16/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW3-A	12/16/2002	Nickel	µg/L	88.7	10	SW6020	
SITE 39	39MW3-A	12/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW3-A	12/16/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW3-A	12/16/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW3-A	12/16/2002	Endrin	µg/L	ND	0.388	SW8081	
SITE 39	39MW3-A	12/16/2002	gamma-BHC	µg/L	ND	0.155	SW8081	
SITE 39	39MW3-A	12/16/2002	Methoxychlor	µg/L	ND	0.388	SW8081	
SITE 39	39MW3-A	12/16/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	39MW3-A	12/16/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW3-A	12/16/2002	2,4-D	µg/L	ND	41	SW8151	
SITE 39	39MW3-A	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-A	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-A	12/16/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	12/16/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	12/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	12/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW3-A	12/16/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	39MW3-B	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-B	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	39MW3-C	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-C	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-D	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	39MW3-D	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW3-A	12/16/2002	Gross Alpha	pCi/l	1.6 ± 0.7	1	SW9310	
SITE 39	39MW3-A	12/16/2002	Gross Beta	pCi/l	4.8 ± 0.8	1	SW9310	
SITE 39	39MW3-A	12/16/2002	Total Radium	pCi/l	2.6 ± 0.9	1	SW9320	
SITE 39	39MW4-A	12/16/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	39MW4-A	12/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	39MW4-A	12/16/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	39MW4-A	12/16/2002	Iron	µg/L	ND	100	SW6010B	
SITE 39	39MW4-A	12/16/2002	Sodium	µg/L	12500	10	SW6010B	
SITE 39	39MW4-A	12/16/2002	Chloride	µg/L	2240	1,000	SW9056	
SITE 39	39MW4-A	12/16/2002	Fluoride	µg/L	150	100	SW9056	
SITE 39	39MW4-A	12/16/2002	Nitrogen, Nitrate	µg/L	660	100	SW9056	
SITE 39	39MW4-A	12/16/2002	Sulfate	µg/L	96600	5,000	SW9056	
SITE 39	39MW4-A	12/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	39MW4-A	12/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	39MW4-A	12/16/2002	Barium	µg/L	120	10	SW6020	
SITE 39	39MW4-A	12/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	39MW4-A	12/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	39MW4-A	12/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	39MW4-A	12/16/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	39MW4-A	12/16/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	39MW4-A	12/16/2002	Nickel	µg/L	15.3	10	SW6020	
SITE 39	39MW4-A	12/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	39MW4-A	12/16/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	39MW4-A	12/16/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	39MW4-A	12/16/2002	Endrin	µg/L	ND	0.392	SW8081	
SITE 39	39MW4-A	12/16/2002	gamma-BHC	µg/L	ND	0.157	SW8081	
SITE 39	39MW4-A	12/16/2002	Methoxychlor	µg/L	ND	0.392	SW8081	
SITE 39	39MW4-A	12/16/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	39MW4-A	12/16/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	39MW4-A	12/16/2002	2,4-D	µg/L	ND	41	SW8151	
SITE 39	39MW4-A	12/16/2002	Total Organic Carbon	µg/L	1600	1,000	SW9060	
SITE 39	39MW4-A	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW4-A	12/16/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW4-A	12/16/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	39MW4-A	12/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW4-A	12/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	39MW4-A	12/16/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	39MW4-B	12/16/2002	Total Organic Carbon	µg/L	1400	1,000	SW9060	
SITE 39	39MW4-B	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW4-C	12/16/2002	Total Organic Carbon	µg/L	1400	1,000	SW9060	
SITE 39	39MW4-C	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW4-D	12/16/2002	Total Organic Carbon	µg/L	1400	1,000	SW9060	
SITE 39	39MW4-D	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	39MW4-A	12/16/2002	Gross Alpha	pCi/l	0.5 ± 0.6	1	SW9310	
SITE 39	39MW4-A	12/16/2002	Gross Beta	pCi/l	10.8 ± 0.9	1	SW9310	
SITE 39	39MW4-A	12/16/2002	Total Radium	pCi/l	0.2 ± 0.7	1	SW9320	
SITE 39	DUPLICATE-A	12/16/2002	MPN, Fecal Coliform	MPN Index	ND	2	SM9221 E	
SITE 39	DUPLICATE-A	12/16/2002	Mercury	µg/L	ND	1	SW7470A	
SITE 39	DUPLICATE-A	12/16/2002	Phenolics, Total	µg/L	ND	5	SW9065	
SITE 39	DUPLICATE-A	12/16/2002	Iron	µg/L	130	100	SW6010B	
SITE 39	DUPLICATE-A	12/16/2002	Sodium	µg/L	5930	10	SW6010B	
SITE 39	DUPLICATE-A	12/16/2002	Chloride	µg/L	4160	1,000	SW9056	
SITE 39	DUPLICATE-A	12/16/2002	Fluoride	µg/L	200	100	SW9056	
SITE 39	DUPLICATE-A	12/16/2002	Nitrogen, Nitrate	µg/L	1620	100	SW9056	
SITE 39	DUPLICATE-A	12/16/2002	Sulfate	µg/L	20800	5,000	SW9056	
SITE 39	DUPLICATE-A	12/16/2002	Antimony	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Arsenic	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Barium	µg/L	52.7	10	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Beryllium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Cadmium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Chromium	µg/L	ND	5	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Lead	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Manganese	µg/L	ND	50	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Nickel	µg/L	ND	10	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Silver	µg/L	ND	2	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Thallium	µg/L	ND	1	SW6020	
SITE 39	DUPLICATE-A	12/16/2002	Selenium	µg/L	ND	10	SW7740	
SITE 39	DUPLICATE-A	12/16/2002	Endrin	µg/L	ND	0.388	SW8081	
SITE 39	DUPLICATE-A	12/16/2002	gamma-BHC	µg/L	ND	0.155	SW8081	
SITE 39	DUPLICATE-A	12/16/2002	Methoxychlor	µg/L	ND	0.388	SW8081	
SITE 39	DUPLICATE-A	12/16/2002	Toxaphene	µg/L	ND	2	SW8081	
SITE 39	DUPLICATE-A	12/16/2002	2,4,5-TP (Silvex)	µg/L	ND	8	SW8151	
SITE 39	DUPLICATE-A	12/16/2002	2,4-D	µg/L	ND	41	SW8151	
SITE 39	DUPLICATE-A	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-A	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	

Fourth Qtr 2002

SiteID	ClientSampleID	CollectionDate	Analyte	Units	Result	QuantLimit	TestNo	Qualifiers
SITE 39	DUPLICATE-A	12/16/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	12/16/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	12/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	12/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-A	12/16/2002	Resorcinol	µg/L	ND	8	SW8270C	
SITE 39	DUPLICATE-B	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-B	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-C	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-C	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-D	12/16/2002	Total Organic Carbon	µg/L	ND	1,000	SW9060	
SITE 39	DUPLICATE-D	12/16/2002	Total Organic Halides (TOX)	µg/L	ND	20	SW9020B	
SITE 39	DUPLICATE-A	12/16/2002	Gross Alpha	pCi/l	1.7 ± 0.5	1	SW9310	
SITE 39	DUPLICATE-A	12/16/2002	Gross Beta	pCi/l	3.2 ± 0.7	1	SW9310	
SITE 39	DUPLICATE-A	12/16/2002	Total Radium	pCi/l	0.4 ± 0.7	1	SW9320	
SITE 39	TRIP BLANK	12/16/2002	2,4-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	TRIP BLANK	12/16/2002	2,6-Dinitrotoluene	µg/L	ND	8	SW8270C	
SITE 39	TRIP BLANK	12/16/2002	Di-n-butyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	TRIP BLANK	12/16/2002	Diethyl phthalate	µg/L	ND	8	SW8270C	
SITE 39	TRIP BLANK	12/16/2002	Resorcinol	µg/L	ND	8	SW8270C	
Duplicate well 39MW1								

APPENDIX C-3

HWMU-39 STATISTICAL ANALYSIS RESULTS

The GRITS/STAT v5.0 software package does not recognize the years 2000 and 2001. Therefore, in order to conduct the statistical analyses for this report, the sample dates for the twelve quarters of laboratory analytical results for the years 2000 through 2002 were entered into the statistical package as follows:

- **First Quarter 2000** entered as **December 10, 1999**
- **Second Quarter 2000** entered as **December 11, 1999**
- **Third Quarter 2000** entered as **December 12, 1999**
- **Fourth Quarter 2000** entered as **December 13, 1999**
- **First Quarter 2001** entered as **December 14, 1999**
- **Second Quarter 2001** entered as **December 15, 1999**
- **Third Quarter 2001** entered as **December 16, 1999**
- **Fourth Quarter 2001** entered as **December 17, 1999**
- **First Quarter 2002** entered as **December 18, 1999**
- **Second Quarter 2002** entered as **December 19, 1999**
- **Third Quarter 2002** entered as **December 20, 1999**
- **Fourth Quarter 2002** entered as **December 21, 1999**

Data Set Summary

Report Printed: 02-25-2003 08:51

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 2.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	49.000 ppb	3.892
May 28 1998	65.000 ppb	4.174
Sep 02 1998	67.000 ppb	4.205
Dec 08 1998	64.000 ppb	4.159
Mar 22 1999	76.000 ppb	4.331
May 28 1999	57.000 ppb	4.043
Jul 27 1999	41.000 ppb	3.714
Nov 08 1999	57.000 ppb	4.043
Dec 10 1999	54.000 ppb	3.989
Dec 11 1999	43.000 ppb	3.761
Dec 12 1999	46.000 ppb	3.829
Dec 13 1999	46.000 ppb	3.829
Dec 14 1999	40.500 ppb	3.701
Dec 15 1999	54.200 ppb	3.993
Dec 16 1999	59.300 ppb	4.083
Dec 17 1999	52.000 ppb	3.951
Dec 18 1999	41.800 ppb	3.733
Dec 19 1999	51.700 ppb	3.945
Dec 20 1999	39.300 ppb	3.671
Dec 21 1999	51.700 ppb	3.945

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	39.300 ppb	Ln Minimum:	3.671
Maximum:	76.000 ppb	Ln Maximum:	4.331
Mean:	52.775 ppb	Ln Mean:	3.950
Std. Dev.:	9.987 ppb	Ln Std. Dev.:	0.185

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	94.000 ppb	4.543
May 28 1998	78.000 ppb	4.357
Sep 02 1998	175.000 ppb	5.165
Dec 08 1998	170.000 ppb	5.136
Mar 22 1999	249.000 ppb	5.517
May 28 1999	131.000 ppb	4.875
Jul 27 1999	56.000 ppb	4.025
Dec 21 1999	120.000 ppb	4.787

Well ID:39MW4 Summary Statistics

Observations (N):	8		
Nondetects (%ND):	0		
Minimum:	56.000 ppb	Ln Minimum:	4.025
Maximum:	249.000 ppb	Ln Maximum:	5.517
Mean:	134.125 ppb	Ln Mean:	4.801
Std. Dev.:	62.366 ppb	Ln Std. Dev.:	0.482

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	61.100 ppb	4.113

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	61.100 ppb	Ln Minimum:	4.113
Maximum:	61.100 ppb	Ln Maximum:	4.113
Mean:	61.100 ppb	Ln Mean:	4.113
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:51

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Ba Barium, total

CAS Number: 7440-39-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 2.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	39.300	76.000	52.775	9.987
Log:	3.671	4.331	3.950	0.185

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	56.000	249.000	134.125	62.366
Log:	4.025	5.517	4.801	0.482

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	76.018	4.193
Std Dev:	49.791	0.488
Skewness:	2.094*	1.273*
Kurtosis:	3.837	0.696
Minimum:	39.300	3.671
Maximum:	249.000	5.517

CV: 0.655 0.116

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.6945*	0.9240	0.8960
Log:	0.8443*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval

Report Printed February 25, 2003

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Facility: Haz. Waste Unit 39 - RAAP
Parameter: Barium, total (CAS Number: 7440-39-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 249.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	61.100 ppb

Data Set Summary

Report Printed: 02-25-2003 08:53

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Chloride Chloride

CAS Number:16887-00-6

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	2100.000 ppb	7.650
May 28 1998	2400.000 ppb	7.783
Sep 02 1998	2600.000 ppb	7.863
Dec 08 1998	5700.000 ppb	8.648
Mar 22 1999	2300.000 ppb	7.741
May 28 1999	5500.000 ppb	8.613
Jul 27 1999	9000.000 ppb	9.105
Nov 08 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 10 1999	6500.000 ppb	8.780
Dec 11 1999	4400.000 ppb	8.389
Dec 12 1999	7400.000 ppb	8.909
Dec 13 1999	10100.000 ppb	9.220
Dec 14 1999	10600.000 ppb	9.269
Dec 15 1999	4100.000 ppb	8.319
Dec 16 1999	4900.000 ppb	8.497
Dec 17 1999	10000.000 ppb	9.210
Dec 18 1999	12900.000 ppb	9.465
Dec 19 1999	8500.000 ppb	9.048
Dec 20 1999	12100.000 ppb	9.401
Dec 21 1999	3230.000 ppb	8.080

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	12900.000 ppb	Ln Maximum:	9.465
Mean:	6241.500 ppb	Ln Mean:	8.510
Std. Dev.:	3657.339 ppb	Ln Std. Dev.:	0.794

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	2400.000 ppb	7.783
May 28 1998	2200.000 ppb	7.696
Sep 02 1998	3300.000 ppb	8.102
Dec 08 1998	4400.000 ppb	8.389
Mar 22 1999	2500.000 ppb	7.824
May 28 1999	2600.000 ppb	7.863
Jul 27 1999	1300.000 ppb	7.170
Dec 21 1999	2240.000 ppb	7.714

Well ID:39MW4 Summary Statistics

Observations (N):	8		
Nondetects (%ND):	0		
Minimum:	1300.000 ppb	Ln Minimum:	7.170
Maximum:	4400.000 ppb	Ln Maximum:	8.389
Mean:	2617.500 ppb	Ln Mean:	7.818
Std. Dev.:	906.890 ppb	Ln Std. Dev.:	0.350

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	3420.000 ppb	8.137

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	3420.000 ppb	Ln Minimum:	8.137
Maximum:	3420.000 ppb	Ln Maximum:	8.137
Mean:	3420.000 ppb	Ln Mean:	8.137
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:53

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Chloride Chloride

CAS Number:16887-00-6

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	500.000	12900.000	6241.500	3657.339
Log:	6.215	9.465	8.510	0.794

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	1300.000	4400.000	2617.500	906.890
Log:	7.170	8.389	7.818	0.350

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	5206.072	8.312
Std Dev:	3522.160	0.759
Skewness:	0.762	-0.501
Kurtosis:	-0.652	0.256
Minimum:	500.000	6.215
Maximum:	12900.000	9.465

CV: 0.677 0.091

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.8898*	0.9240	0.8960
Log:	0.9440	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Chloride(CAS Number:16887-00-6)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 12900.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	3420.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:56

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number: 7440-47-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	2.000 ppb	0.693
May 28 1998	4.000 ppb	1.386
Sep 02 1998	3.000 ppb	1.099
Dec 08 1998	4.000 ppb	1.386
Mar 22 1999	4.000 ppb	1.386
May 28 1999	3.000 ppb	1.099
Jul 27 1999	4.000 ppb	1.386
Nov 08 1999	4.000 ppb	1.386
Dec 10 1999	2.000 ppb	0.693
Dec 11 1999	2.000 ppb	0.693
Dec 12 1999	3.000 ppb	1.099
Dec 13 1999	3.000 ppb	1.099
Dec 14 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 15 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 16 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 17 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 18 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 19 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 20 1999	0.500 ppb	-0.693 (* Nondetect *)
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 40

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	4.000 ppb	Ln Maximum:	1.386
Mean:	2.100 ppb	Ln Mean:	0.393
Std. Dev.:	1.483 ppb	Ln Std. Dev.:	0.936

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	7.000 ppb	1.946
May 28 1998	4.000 ppb	1.386
Sep 02 1998	25.000 ppb	3.219
Dec 08 1998	71.000 ppb	4.263
Mar 22 1999	57.000 ppb	4.043
May 28 1999	3.000 ppb	1.099
Jul 27 1999	8.000 ppb	2.079
Dec 21 1999	0.500 ppb	-0.693 (* Nondetect *)

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 13

Minimum:	0.500 ppb	Ln Minimum:	-0.693
Maximum:	71.000 ppb	Ln Maximum:	4.263
Mean:	21.937 ppb	Ln Mean:	2.168
Std. Dev.:	27.264 ppb	Ln Std. Dev.:	1.648

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	96.800 ppb	4.573

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	96.800 ppb	Ln Minimum:	4.573
Maximum:	96.800 ppb	Ln Maximum:	4.573
Mean:	96.800 ppb	Ln Mean:	4.573
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:56

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Cr Chromium, total

CAS Number: 7440-47-3

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	4.000	2.100	1.483
Log:	-0.693	1.386	0.393	0.936

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	71.000	21.937	27.264
Log:	-0.693	4.263	2.168	1.648

Pooled Statistics

Observations: 28

Statistic	Original	Log
	Scale	Scale
Mean:	7.768	0.900
Std Dev:	16.660	1.409
Skewness:	3.037*	0.655
Kurtosis:	7.960	0.074
Minimum:	0.500	-0.693
Maximum:	71.000	4.263

CV: 2.145 1.566

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.4565*	0.9240	0.8960
Log:	0.8630*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
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Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Chromium, total(CAS Number:7440-47-3)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 71.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	96.800 ppb *

Data Set Summary

Report Printed: 02-25-2003 08:57

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Flrd Fluoride

CAS Number:16984-48-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	50.000 ppb	3.912 (* Nondetect *)
May 28 1998	240.000 ppb	5.481
Sep 02 1998	330.000 ppb	5.799
Dec 08 1998	350.000 ppb	5.858
Mar 22 1999	270.000 ppb	5.598
May 28 1999	360.000 ppb	5.886
Jul 27 1999	380.000 ppb	5.940
Nov 08 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 10 1999	390.000 ppb	5.966
Dec 11 1999	250.000 ppb	5.521
Dec 12 1999	410.000 ppb	6.016
Dec 13 1999	340.000 ppb	5.829
Dec 14 1999	290.000 ppb	5.670
Dec 15 1999	220.000 ppb	5.394
Dec 16 1999	240.000 ppb	5.481
Dec 17 1999	280.000 ppb	5.635
Dec 18 1999	310.000 ppb	5.737
Dec 19 1999	160.000 ppb	5.075
Dec 20 1999	260.000 ppb	5.561
Dec 21 1999	210.000 ppb	5.347

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 10

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	410.000 ppb	Ln Maximum:	6.016
Mean:	269.500 ppb	Ln Mean:	5.481
Std. Dev.:	99.603 ppb	Ln Std. Dev.:	0.586

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	50.000 ppb	3.912 (* Nondetect *)
May 28 1998	50.000 ppb	3.912 (* Nondetect *)
Sep 02 1998	50.000 ppb	3.912 (* Nondetect *)
Dec 08 1998	240.000 ppb	5.481
Mar 22 1999	50.000 ppb	3.912 (* Nondetect *)
May 28 1999	50.000 ppb	3.912 (* Nondetect *)
Jul 27 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 21 1999	150.000 ppb	5.011

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 75

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	240.000 ppb	Ln Maximum:	5.481
Mean:	86.250 ppb	Ln Mean:	4.245
Std. Dev.:	71.302 ppb	Ln Std. Dev.:	0.630

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	290.000 ppb	5.670

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	290.000 ppb	Ln Minimum:	5.670
Maximum:	290.000 ppb	Ln Maximum:	5.670
Mean:	290.000 ppb	Ln Mean:	5.670
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 08:57

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Flrd Fluoride

CAS Number:16984-48-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	410.000	269.500	99.603
Log:	3.912	6.016	5.481	0.586

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	240.000	86.250	71.302
Log:	3.912	5.481	4.245	0.630

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	217.143	5.128
Std Dev:	124.122	0.817
Skewness:	-0.215	-0.703
Kurtosis:	-1.300	-1.229
Minimum:	50.000	3.912
Maximum:	410.000	6.016

CV: 0.572 0.159

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.8834*	0.9240	0.8960
Log:	0.7714*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Fluoride(CAS Number:16984-48-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 410.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	290.000 ppb

Data Set Summary

Report Printed: 02-25-2003 08:59

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Ni Nickel, total

CAS Number: 7440-02-0

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 15.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	7.500 ppb	2.015 (* Nondetect *)
May 28 1998	7.500 ppb	2.015 (* Nondetect *)
Sep 02 1998	44.000 ppb	3.784
Dec 08 1998	7.500 ppb	2.015 (* Nondetect *)
Mar 22 1999	7.500 ppb	2.015 (* Nondetect *)
May 28 1999	7.500 ppb	2.015 (* Nondetect *)
Jul 27 1999	7.500 ppb	2.015 (* Nondetect *)
Nov 08 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 10 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 11 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 12 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 13 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 14 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 15 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 16 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 17 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 18 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 19 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 20 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 21 1999	7.500 ppb	2.015 (* Nondetect *)

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 95

Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	44.000 ppb	Ln Maximum:	3.784
Mean:	9.325 ppb	Ln Mean:	2.103
Std. Dev.:	8.162 ppb	Ln Std. Dev.:	0.396

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	7.500 ppb	2.015 (* Nondetect *)
May 28 1998	7.500 ppb	2.015 (* Nondetect *)
Sep 02 1998	16.000 ppb	2.773
Dec 08 1998	43.000 ppb	3.761
Mar 22 1999	63.000 ppb	4.143
May 28 1999	7.500 ppb	2.015 (* Nondetect *)
Jul 27 1999	7.500 ppb	2.015 (* Nondetect *)
Dec 21 1999	15.300 ppb	2.728

Well ID:39MW4 Summary Statistics

Observations (N):	8		
Nondetects (%ND):	50		
Minimum:	7.500 ppb	Ln Minimum:	2.015
Maximum:	63.000 ppb	Ln Maximum:	4.143
Mean:	20.913 ppb	Ln Mean:	2.683
Std. Dev.:	20.820 ppb	Ln Std. Dev.:	0.853

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	88.700 ppb	4.485

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	88.700 ppb	Ln Minimum:	4.485
Maximum:	88.700 ppb	Ln Maximum:	4.485
Mean:	88.700 ppb	Ln Mean:	4.485
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Nickel, total(CAS Number:7440-02-0)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 63.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	88.700 ppb *

Data Set Summary

Report Printed: 02-25-2003 09:00

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Nitrate Nitrate

CAS Number:14797-55-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	1430.000 ppb	7.265
May 28 1998	1840.000 ppb	7.518
Sep 02 1998	1400.000 ppb	7.244
Dec 08 1998	1150.000 ppb	7.048
Mar 22 1999	2110.000 ppb	7.654
May 28 1999	1220.000 ppb	7.107
Jul 27 1999	1190.000 ppb	7.082
Nov 08 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 10 1999	1570.000 ppb	7.359
Dec 11 1999	1670.000 ppb	7.421
Dec 12 1999	1230.000 ppb	7.115
Dec 13 1999	1290.000 ppb	7.162
Dec 14 1999	1520.000 ppb	7.326
Dec 15 1999	1850.000 ppb	7.523
Dec 16 1999	1520.000 ppb	7.326
Dec 17 1999	1470.000 ppb	7.293
Dec 18 1999	1240.000 ppb	7.123
Dec 19 1999	1410.000 ppb	7.251
Dec 20 1999	1480.000 ppb	7.300
Dec 21 1999	1750.000 ppb	7.467

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	2110.000 ppb	Ln Maximum:	7.654
Mean:	1419.500 ppb	Ln Mean:	7.125
Std. Dev.:	409.499 ppb	Ln Std. Dev.:	0.774

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	1360.000 ppb	7.215
May 28 1998	910.000 ppb	6.813
Sep 02 1998	620.000 ppb	6.430
Dec 08 1998	800.000 ppb	6.685
Mar 22 1999	1140.000 ppb	7.039
May 28 1999	1020.000 ppb	6.928
Jul 27 1999	430.000 ppb	6.064
Dec 21 1999	660.000 ppb	6.492

Well ID:39MW4 Summary Statistics

Observations (N):	8		
Nondetects (%ND):	0		
Minimum:	430.000 ppb	Ln Minimum:	6.064
Maximum:	1360.000 ppb	Ln Maximum:	7.215
Mean:	867.500 ppb	Ln Mean:	6.708
Std. Dev.:	302.879 ppb	Ln Std. Dev.:	0.371

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	2640.000 ppb	7.879

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	2640.000 ppb	Ln Minimum:	7.879
Maximum:	2640.000 ppb	Ln Maximum:	7.879
Mean:	2640.000 ppb	Ln Mean:	7.879
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:00

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone: () -

Permit Type:Background

Constituent:Nitrate Nitrate

CAS Number:14797-55-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	2110.000	1419.500	409.499
Log:	3.912	7.654	7.125	0.774

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	430.000	1360.000	867.500	302.879
Log:	6.064	7.215	6.708	0.371

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	1261.786	7.006
Std Dev:	454.175	0.703
Skewness:	-0.689	-3.248*
Kurtosis:	0.482	11.657
Minimum:	50.000	3.912
Maximum:	2110.000	7.654

CV: 0.360 0.100

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.9627	0.9240	0.8960
Log:	0.6355*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Nitrate(CAS Number:14797-55-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Shapiro-Wilk (W): 0.9627
Critical W, $\alpha=0.01$: 0.8960
Mean: 1261.786 ppb
Std Dev: 454.175 ppb
DF: 27
Conf. Level (1- α): 0.9500
Future Samples (k): 1
 $t_{1-\alpha, k}$: 1.7033
Kappa: 1.7334
UL: 2049.069 ppb
LL: $-\infty$

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2640.000 ppb *

Data Set Summary

Report Printed: 02-25-2003 09:04

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Na Sodium

CAS Number: 7440-23-5

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	3200.000 ppb	8.071
May 28 1998	3680.000 ppb	8.211
Sep 02 1998	4550.000 ppb	8.423
Dec 08 1998	8710.000 ppb	9.072
Mar 22 1999	4340.000 ppb	8.376
May 28 1999	6020.000 ppb	8.703
Jul 27 1999	9460.000 ppb	9.155
Nov 08 1999	8480.000 ppb	9.045
Dec 10 1999	6210.000 ppb	8.734
Dec 11 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 12 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 13 1999	50.000 ppb	3.912 (* Nondetect *)
Dec 14 1999	9460.000 ppb	9.155
Dec 15 1999	4760.000 ppb	8.468
Dec 16 1999	6670.000 ppb	8.805
Dec 17 1999	9840.000 ppb	9.194
Dec 18 1999	12600.000 ppb	9.441
Dec 19 1999	7990.000 ppb	8.986
Dec 20 1999	11700.000 ppb	9.367
Dec 21 1999	4520.000 ppb	8.416

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 15

Minimum:	50.000 ppb	Ln Minimum:	3.912
Maximum:	12600.000 ppb	Ln Maximum:	9.441
Mean:	6117.000 ppb	Ln Mean:	8.068
Std. Dev.:	3702.268 ppb	Ln Std. Dev.:	1.832

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	12300.000 ppb	9.417
May 28 1998	11300.000 ppb	9.333
Sep 02 1998	13700.000 ppb	9.525
Dec 08 1998	15800.000 ppb	9.668
Mar 22 1999	14000.000 ppb	9.547
May 28 1999	14300.000 ppb	9.568
Jul 27 1999	3840.000 ppb	8.253
Dec 21 1999	12500.000 ppb	9.433

Well ID:39MW4 Summary Statistics

Observations (N):	8		
Nondetects (%ND):	0		
Minimum:	3840.000 ppb	Ln Minimum:	8.253
Maximum:	15800.000 ppb	Ln Maximum:	9.668
Mean:	12217.500 ppb	Ln Mean:	9.343
Std. Dev.:	3657.813 ppb	Ln Std. Dev.:	0.452

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	29800.000 ppb	10.302

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	29800.000 ppb	Ln Minimum:	10.302
Maximum:	29800.000 ppb	Ln Maximum:	10.302
Mean:	29800.000 ppb	Ln Mean:	10.302
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:04

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Na Sodium

CAS Number: 7440-23-5

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 100.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	50.000	12600.000	6117.000	3702.268
Log:	3.912	9.441	8.068	1.832

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	3840.000	15800.000	12217.500	3657.813
Log:	8.253	9.668	9.343	0.452

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	7860.000	8.432
Std Dev:	4581.563	1.661
Skewness:	-0.087	-2.179*
Kurtosis:	-1.018	3.389
Minimum:	50.000	3.912
Maximum:	15800.000	9.668

CV: 0.583 0.197

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.9542	0.9240	0.8960
Log:	0.6169*	0.9240	0.8960

*. Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Parametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Sodium(CAS Number:7440-23-5)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Shapiro-Wilk (W): 0.9542
Critical W, $\alpha=0.01$: 0.8960
Mean: 7860.001 ppb
Std Dev: 4581.564 ppb
DF: 27
Conf. Level (1- α): 0.9500
Future Samples (k): 1
t $\left[\begin{array}{c} 1 - \alpha \\ - \\ k \end{array} \right]$: 1.7033
Kappa: 1.7334
UL: 15801.855 ppb
LL: $-\infty$

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	29800.000 ppb *

Data Set Summary

Report Printed: 02-25-2003 09:05

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Sulfate Sulfate, total

CAS Number:14808-79-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	17100.000 ppb	9.747
May 28 1998	19200.000 ppb	9.863
Sep 02 1998	19200.000 ppb	9.863
Dec 08 1998	20500.000 ppb	9.928
Mar 22 1999	19700.000 ppb	9.888
May 28 1999	18000.000 ppb	9.798
Jul 27 1999	16100.000 ppb	9.687
Nov 08 1999	500.000 ppb	6.215 (* Nondetect *)
Dec 10 1999	21400.000 ppb	9.971
Dec 11 1999	19800.000 ppb	9.893
Dec 12 1999	17500.000 ppb	9.770
Dec 13 1999	17800.000 ppb	9.787
Dec 14 1999	17900.000 ppb	9.793
Dec 15 1999	18400.000 ppb	9.820
Dec 16 1999	16600.000 ppb	9.717
Dec 17 1999	20200.000 ppb	9.913
Dec 18 1999	18300.000 ppb	9.815
Dec 19 1999	18500.000 ppb	9.826
Dec 20 1999	21400.000 ppb	9.971
Dec 21 1999	24400.000 ppb	10.102

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 5

Minimum:	500.000 ppb	Ln Minimum:	6.215
Maximum:	24400.000 ppb	Ln Maximum:	10.102
Mean:	18124.998 ppb	Ln Mean:	9.668
Std. Dev.:	4572.789 ppb	Ln Std. Dev.:	0.819

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	71400.000 ppb	11.176
May 28 1998	95700.000 ppb	11.469
Sep 02 1998	98700.000 ppb	11.500
Dec 08 1998	100000.000 ppb	11.513
Mar 22 1999	87100.000 ppb	11.375
May 28 1999	88500.000 ppb	11.391
Jul 27 1999	24400.000 ppb	10.102
Dec 21 1999	96600.000 ppb	11.478

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 0

Minimum:	24400.000 ppb	Ln Minimum:	10.102
Maximum:	100000.000 ppb	Ln Maximum:	11.513
Mean:	82800.000 ppb	Ln Mean:	11.251
Std. Dev.:	25346.176 ppb	Ln Std. Dev.:	0.477

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	99300.000 ppb	11.506

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	99300.000 ppb	Ln Minimum:	11.506
Maximum:	99300.000 ppb	Ln Maximum:	11.506
Mean:	99300.000 ppb	Ln Mean:	11.506
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 ppb	Ln Minimum:	0.000
Maximum:	0.000 ppb	Ln Maximum:	0.000
Mean:	0.000 ppb	Ln Mean:	0.000
Std. Dev.:	0.000 ppb	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:05

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Sulfate Sulfate, total

CAS Number:14808-79-8

MCL: 0.000 ppb

ACL: 0.000 ppb

Detect Limit: 1000.000 ppb

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	500.000	24400.000	18124.998	4572.789
Log:	6.215	10.102	9.668	0.819

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	24400.000	100000.000	82800.000	25346.176
Log:	10.102	11.513	11.251	0.477

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	36603.570	10.120
Std Dev:	32657.783	1.030
Skewness:	1.161*	-1.541*
Kurtosis:	-0.466	5.652
Minimum:	500.000	6.215
Maximum:	100000.000	11.513

CV: 0.892 0.102

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.6633*	0.9240	0.8960
Log:	0.7013*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval

Report Printed February 25,2003

Page 1

Facility:Haz. Waste Unit 39 - RAAP
Parameter:Sulfate, total(CAS Number:14808-79-8)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 100000.000 ppb
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	99300.000 ppb

Data Set Summary

Report Printed: 02-25-2003 09:08

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Alpha Alpha emission, total

CAS Number:12587-46-1

MCL: 0.000 pCi/l

ACL: 0.000 pCi/l

Detect Limit: 1.000 pCi/l

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	0.500 pCi/l	-0.693 (* Nondetect *)
May 28 1998	2.800 pCi/l	1.030
Sep 02 1998	2.400 pCi/l	0.875
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	4.000 pCi/l	1.386
May 28 1999	1.100 pCi/l	0.095
Jul 27 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Nov 08 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 10 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 11 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 12 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 13 1999	1.500 pCi/l	0.405
Dec 14 1999	2.000 pCi/l	0.693
Dec 15 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 16 1999	2.100 pCi/l	0.742
Dec 17 1999	1.300 pCi/l	0.262
Dec 18 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 19 1999	1.600 pCi/l	0.470
Dec 20 1999	0.800 pCi/l	-0.223
Dec 21 1999	0.800 pCi/l	-0.223

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 45

Minimum:	0.500 pCi/l	Ln Minimum:	-0.693
Maximum:	4.000 pCi/l	Ln Maximum:	1.386
Mean:	1.245 pCi/l	Ln Mean:	-0.036
Std. Dev.:	0.980 pCi/l	Ln Std. Dev.:	0.712

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	2.300 pCi/l	0.833
May 28 1998	3.300 pCi/l	1.194
Sep 02 1998	7.900 pCi/l	2.067
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	53.000 pCi/l	3.970
May 28 1999	3.600 pCi/l	1.281
Jul 27 1999	7.000 pCi/l	1.946
Dec 21 1999	0.500 pCi/l	-0.693

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 13

Minimum:	0.500 pCi/l	Ln Minimum:	-0.693
Maximum:	53.000 pCi/l	Ln Maximum:	3.970
Mean:	9.763 pCi/l	Ln Mean:	1.238
Std. Dev.:	17.678 pCi/l	Ln Std. Dev.:	1.525

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	1.600 pCi/l	0.470

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	1.600 pCi/l	Ln Minimum:	0.470
Maximum:	1.600 pCi/l	Ln Maximum:	0.470
Mean:	1.600 pCi/l	Ln Mean:	0.470
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:08

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Alpha Alpha emission, total

CAS Number:12587-46-1

MCL: 0.000 pCi/l

ACL: 0.000 pCi/l

Detect Limit: 1.000 pCi/l

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	4.000	1.245	0.980
Log:	-0.693	1.386	-0.036	0.712

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	53.000	9.763	17.678
Log:	-0.693	3.970	1.238	1.525

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	3.679	0.328
Std Dev:	9.852	1.142
Skewness:	4.719*	1.247*
Kurtosis:	21.138	1.684
Minimum:	0.500	-0.693
Maximum:	53.000	3.970

CV: 2.678 3.483

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.3281*	0.9240	0.8960
Log:	0.8376*	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Alpha emission, total(CAS Number:12587-46-1)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 53.000 pCi/l
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	1.600 pCi/l

Data Set Summary

Report Printed: 02-25-2003 09:09

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Beta Beta emission, total

CAS Number:12587-47-2

MCL: 0.000 pCi/l

ACL: 0.000 pCi/l

Detect Limit: 1.000 pCi/l

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	3.000 pCi/l	1.099
May 28 1998	6.700 pCi/l	1.902
Sep 02 1998	54.000 pCi/l	3.989
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	7.800 pCi/l	2.054
May 28 1999	2.700 pCi/l	0.993
Jul 27 1999	1.500 pCi/l	0.405
Nov 08 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 10 1999	1.600 pCi/l	0.470
Dec 11 1999	3.000 pCi/l	1.099
Dec 12 1999	3.200 pCi/l	1.163
Dec 13 1999	2.800 pCi/l	1.030
Dec 14 1999	3.300 pCi/l	1.194
Dec 15 1999	3.300 pCi/l	1.194
Dec 16 1999	4.100 pCi/l	1.411
Dec 17 1999	4.900 pCi/l	1.589
Dec 18 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 19 1999	2.800 pCi/l	1.030
Dec 20 1999	2.400 pCi/l	0.875
Dec 21 1999	2.600 pCi/l	0.956

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 15

Minimum:	0.500 pCi/l	Ln Minimum:	-0.693
Maximum:	54.000 pCi/l	Ln Maximum:	3.989
Mean:	5.560 pCi/l	Ln Mean:	1.019
Std. Dev.:	11.552 pCi/l	Ln Std. Dev.:	1.045

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	11.600 pCi/l	2.451
May 28 1998	14.200 pCi/l	2.653
Sep 02 1998	19.800 pCi/l	2.986
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	115.000 pCi/l	4.745
May 28 1999	17.300 pCi/l	2.851
Jul 27 1999	20.000 pCi/l	2.996
Dec 21 1999	10.800 pCi/l	2.380

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 13

Minimum:	0.500 pCi/l	Ln Minimum:	-0.693
Maximum:	115.000 pCi/l	Ln Maximum:	4.745
Mean:	26.150 pCi/l	Ln Mean:	2.546
Std. Dev.:	36.447 pCi/l	Ln Std. Dev.:	1.505

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	4.800 pCi/l	1.569

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	4.800 pCi/l	Ln Minimum:	1.569
Maximum:	4.800 pCi/l	Ln Maximum:	1.569
Mean:	4.800 pCi/l	Ln Mean:	1.569
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:09

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Beta Beta emission, total

CAS Number:12587-47-2

MCL: 0.000 pCi/l

ACL: 0.000 pCi/l

Detect Limit: 1.000 pCi/l

Start Date:Mar 23 1998

End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	54.000	5.560	11.552
Log:	-0.693	3.989	1.019	1.045

Well:39MW4 Position:Upgradient Observations:8

Scale	Minimum	Maximum	Mean	Std Dev
Original:	0.500	115.000	26.150	36.447
Log:	-0.693	4.745	2.546	1.505

Pooled Statistics

Observations: 28

Statistic	Original Scale	Log Scale
Mean:	11.443	1.455
Std Dev:	22.979	1.360
Skewness:	3.652*	0.347
Kurtosis:	13.315	-0.026
Minimum:	0.500	-0.693
Maximum:	115.000	4.745

CV: 2.008 0.935

Shapiro-Wilk Statistics

	Test Scale Statistic	5% Critical Value	1% Critical Value
Original:	0.4803*	0.9240	0.8960
Log:	0.9470	0.9240	0.8960

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25, 2003

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Facility: Haz. Waste Unit 39 - RAAP
Parameter: Beta emission, total (CAS Number: 12587-47-2)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 115.000 pCi/l
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	4.800 pCi/l

Data Set Summary

Report Printed: 02-25-2003 09:10

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Ra Radium, total

CAS Number: 7400-14-4

MCL: 0.000 pCi/l

ACL: 0.000 pCi/l

Detect Limit: 1.000 pCi/l

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	0.500 pCi/l	-0.693 (* Nondetect *)
May 28 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Sep 02 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	0.500 pCi/l	-0.693 (* Nondetect *)
May 28 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Jul 27 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Nov 08 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 10 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 11 1999	1.000 pCi/l	0.000
Dec 12 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 13 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 14 1999	1.000 pCi/l	0.000
Dec 15 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 16 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 17 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 18 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 19 1999	0.900 pCi/l	-0.105
Dec 20 1999	0.600 pCi/l	-0.511
Dec 21 1999	0.500 pCi/l	-0.693 (* Nondetect *)

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 80

Minimum:	0.500 pCi/l	Ln Minimum:	-0.693
Maximum:	1.000 pCi/l	Ln Maximum:	0.000
Mean:	0.575 pCi/l	Ln Mean:	-0.585
Std. Dev.:	0.171 pCi/l	Ln Std. Dev.:	0.241

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	0.500 pCi/l	-0.693 (* Nondetect *)
May 28 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Sep 02 1998	1.900 pCi/l	0.642
Dec 08 1998	0.500 pCi/l	-0.693 (* Nondetect *)
Mar 22 1999	5.000 pCi/l	1.609
May 28 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Jul 27 1999	0.500 pCi/l	-0.693 (* Nondetect *)
Dec 21 1999	0.200 pCi/l	-1.609

Well ID:39MW4 Summary Statistics

Observations (N): 8
Nondetects (%ND): 63

Minimum:	0.200 pCi/l	Ln Minimum:	-1.609
Maximum:	5.000 pCi/l	Ln Maximum:	1.609
Mean:	1.200 pCi/l	Ln Mean:	-0.353
Std. Dev.:	1.620 pCi/l	Ln Std. Dev.:	1.000

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	2.600 pCi/l	0.956

Well ID:39MW3 Summary Statistics

Observations (N): 1
Nondetects (%ND): 0

Minimum:	2.600 pCi/l	Ln Minimum:	0.956
Maximum:	2.600 pCi/l	Ln Maximum:	0.956
Mean:	2.600 pCi/l	Ln Mean:	0.956
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 pCi/l	Ln Minimum:	0.000
Maximum:	0.000 pCi/l	Ln Maximum:	0.000
Mean:	0.000 pCi/l	Ln Mean:	0.000
Std. Dev.:	0.000 pCi/l	Ln Std. Dev.:	0.000

Nonparametric Prediction Interval

Report Printed February 25, 2003

Page 1

Facility: Haz. Waste Unit 39 - RAAP
Parameter: Radium, total (CAS Number: 7400-14-4)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 28
Conf. Level (1- α): 96.550%

UL: 5.000 pCi/l
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well: 39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	2.600 pCi/l

Data Set Summary

Report Printed: 02-25-2003 09:15

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone:() -

Permit Type:Background

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -

MCL: 0.000 umhos/cm

ACL: 0.000 umhos/cm

Detect Limit: 1.000 umhos/cm

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	370.000 umhos/cm	5.914
May 28 1998	495.000 umhos/cm	6.205
Sep 02 1998	470.000 umhos/cm	6.153
Dec 08 1998	463.000 umhos/cm	6.138
Mar 22 1999	370.000 umhos/cm	5.914
May 28 1999	3900.000 umhos/cm	8.269
Jul 27 1999	426.000 umhos/cm	6.054
Nov 08 1999	560.000 umhos/cm	6.328
Dec 10 1999	481.000 umhos/cm	6.176
Dec 11 1999	503.000 umhos/cm	6.221
Dec 12 1999	428.000 umhos/cm	6.059
Dec 13 1999	519.000 umhos/cm	6.252
Dec 14 1999	452.000 umhos/cm	6.114
Dec 15 1999	458.000 umhos/cm	6.127
Dec 16 1999	544.000 umhos/cm	6.299
Dec 17 1999	412.000 umhos/cm	6.021
Dec 18 1999	403.000 umhos/cm	5.999
Dec 19 1999	421.000 umhos/cm	6.043
Dec 20 1999	408.000 umhos/cm	6.011
Dec 21 1999	489.000 umhos/cm	6.192

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	370.000 umhos/cm	Ln Minimum:	5.914
Maximum:	3900.000 umhos/cm	Ln Maximum:	8.269
Mean:	628.600 umhos/cm	Ln Mean:	6.224
Std. Dev.:	771.816 umhos/cm	Ln Std. Dev.:	0.495

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	560.000 umhos/cm	6.328
May 28 1998	603.000 umhos/cm	6.402
Sep 02 1998	720.000 umhos/cm	6.579
Dec 08 1998	768.000 umhos/cm	6.644
Mar 22 1999	470.000 umhos/cm	6.153
Jul 27 1999	461.000 umhos/cm	6.133
Dec 21 1999	817.000 umhos/cm	6.706

Well ID:39MW4 Summary Statistics

Observations (N):	7		
Nondetects (%ND):	0		
Minimum:	461.000 umhos/cm	Ln Minimum:	6.133
Maximum:	817.000 umhos/cm	Ln Maximum:	6.706
Mean:	628.429 umhos/cm	Ln Mean:	6.421
Std. Dev.:	142.528 umhos/cm	Ln Std. Dev.:	0.231

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	880.000 umhos/cm	6.780

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	880.000 umhos/cm	Ln Minimum:	6.780
Maximum:	880.000 umhos/cm	Ln Maximum:	6.780
Mean:	880.000 umhos/cm	Ln Mean:	6.780
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 umhos/cm	Ln Minimum:	0.000
Maximum:	0.000 umhos/cm	Ln Maximum:	0.000
Mean:	0.000 umhos/cm	Ln Mean:	0.000
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 umhos/cm	Ln Minimum:	0.000
Maximum:	0.000 umhos/cm	Ln Maximum:	0.000
Mean:	0.000 umhos/cm	Ln Mean:	0.000
Std. Dev.:	0.000 umhos/cm	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:16

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:Cond F Specific Conductivity, Field

CAS Number: - -
MCL: 0.000 umhos/cm
ACL: 0.000 umhos/cm
Detect Limit: 1.000 umhos/cm

Start Date:Mar 23 1998
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	370.000	3900.000	628.600	771.816
Log:	5.914	8.269	6.224	0.495

Well:39MW4 Position:Upgradient Observations:7

Scale	Minimum	Maximum	Mean	Std Dev
Original:	461.000	817.000	628.429	142.528
Log:	6.133	6.706	6.421	0.231

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	628.556	6.275
Std Dev:	663.331	0.446
Skewness:	4.685*	3.479*
Kurtosis:	20.636	13.050
Minimum:	370.000	5.914
Maximum:	3900.000	8.269

CV: 1.055 0.071

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
	Scale Statistic	Value	Value
Original:	0.3277*	0.9230	0.8940
Log:	0.5970*	0.9230	0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:Specific Conductivity, Field(CAS Number:- -)

ONE-TAILED UPPER PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 96.430%

UL: 3900.000 umhos/cm
LL: 0.000

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	880.000 umhos/cm

Data Set Summary

Report Printed: 02-25-2003 09:16

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:

Phone: () -

Permit Type:Background

Constituent:pH F pH, Field

CAS Number: - -

MCL: 0.000 SU

ACL: 0.000 SU

Detect Limit: 0.100 SU

Start Date:Mar 23 1998

End Date:Dec 21 1999

Well ID:39MW1

Sample Date	Observation	Ln
Mar 23 1998	6.500 SU	1.872
May 28 1998	6.300 SU	1.841
Sep 02 1998	7.000 SU	1.946
Dec 08 1998	6.900 SU	1.932
Mar 22 1999	8.480 SU	2.138
May 28 1999	7.210 SU	1.975
Jul 27 1999	7.400 SU	2.001
Nov 08 1999	7.290 SU	1.987
Dec 10 1999	6.870 SU	1.927
Dec 11 1999	6.820 SU	1.920
Dec 12 1999	6.660 SU	1.896
Dec 13 1999	6.910 SU	1.933
Dec 14 1999	7.050 SU	1.953
Dec 15 1999	6.750 SU	1.910
Dec 16 1999	6.590 SU	1.886
Dec 17 1999	6.900 SU	1.932
Dec 18 1999	7.180 SU	1.971
Dec 19 1999	6.780 SU	1.914
Dec 20 1999	6.820 SU	1.920
Dec 21 1999	6.550 SU	1.879

Well ID:39MW1 Summary Statistics

Observations (N): 20
Nondetects (%ND): 0

Minimum:	6.300 SU	Ln Minimum:	1.841
Maximum:	8.480 SU	Ln Maximum:	2.138
Mean:	6.948 SU	Ln Mean:	1.937
Std. Dev.:	0.453 SU	Ln Std. Dev.:	0.062

Well ID:39MW4

Sample Date	Observation	Ln
Mar 23 1998	6.500 SU	1.872
May 28 1998	6.400 SU	1.856
Sep 02 1998	7.000 SU	1.946
Dec 08 1998	6.900 SU	1.932
Mar 22 1999	8.380 SU	2.126
Jul 27 1999	6.940 SU	1.937
Dec 21 1999	6.370 SU	1.852

Well ID:39MW4 Summary Statistics

Observations (N):	7		
Nondetects (%ND):	0		
Minimum:	6.370 SU	Ln Minimum:	1.852
Maximum:	8.380 SU	Ln Maximum:	2.126
Mean:	6.927 SU	Ln Mean:	1.931
Std. Dev.:	0.694 SU	Ln Std. Dev.:	0.095

Well ID:39MW3

Sample Date	Observation	Ln
Dec 21 1999	6.610 SU	1.889

Well ID:39MW3 Summary Statistics

Observations (N):	1		
Nondetects (%ND):	0		
Minimum:	6.610 SU	Ln Minimum:	1.889
Maximum:	6.610 SU	Ln Maximum:	1.889
Mean:	6.610 SU	Ln Mean:	1.889
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:39MW5

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW5 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 SU	Ln Minimum:	0.000
Maximum:	0.000 SU	Ln Maximum:	0.000
Mean:	0.000 SU	Ln Mean:	0.000
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Well ID:39MW6

*** NO OBSERVATIONS FOR THIS WELL ***

Well ID:39MW6 Summary Statistics

Observations (N): 0
Nondetects (%ND): 0

Minimum:	0.000 SU	Ln Minimum:	0.000
Maximum:	0.000 SU	Ln Maximum:	0.000
Mean:	0.000 SU	Ln Mean:	0.000
Std. Dev.:	0.000 SU	Ln Std. Dev.:	0.000

Normality Tests

Report Printed: 02-25-2003 09:16

Facility:RAAPHWMU39 Haz. Waste Unit 39 - RAAP

Address:

City:Radford
County:PULASKI

ST:VA Zip:

Contact:
Phone:() -

Permit Type:Background

Constituent:pH F pH, Field

CAS Number: - -
MCL: 0.000 SU
ACL: 0.000 SU
Detect Limit: 0.100 SU

Start Date:Mar 23 1998
End Date:Dec 21 1999

Normality Test on Observations for wells listed below:

Well:39MW1 Position:Upgradient Observations:20

Scale	Minimum	Maximum	Mean	Std Dev
Original:	6.300	8.480	6.948	0.453
Log:	1.841	2.138	1.937	0.062

Well:39MW4 Position:Upgradient Observations:7

Scale	Minimum	Maximum	Mean	Std Dev
Original:	6.370	8.380	6.927	0.694
Log:	1.852	2.126	1.931	0.095

Pooled Statistics

Observations: 27

Statistic	Original Scale	Log Scale
Mean:	6.943	1.935
Std Dev:	0.511	0.070
Skewness:	1.715*	1.488*
Kurtosis:	3.086	2.453
Minimum:	6.300	1.841
Maximum:	8.480	2.138

CV: 0.074 0.036

Shapiro-Wilk Statistics

	Test	5% Critical	1% Critical
Scale	Statistic	Value	Value
Original:	0.8159*	0.9230	0.8940
Log:	0.8505*	0.9230	0.8940

* Indicates statistically significant evidence of non-normality.
GRIT/STAT Version 5.0

Nonparametric Prediction Interval
Report Printed February 25,2003

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Facility:Haz. Waste Unit 39 - RAAP
Parameter:pH, Field(CAS Number:- -)

TWO-TAILED PARAMETRIC PREDICTION INTERVAL

Observations (n): 27
Conf. Level (1- α): 92.860%

UL: 8.480 SU
LL: 6.300 SU

BACKGROUND TO COMPLIANCE WELL COMPARISON

Well:39MW3

<u>Sample Date</u>	<u>Observation</u>
12/21/99	6.610 SU
