



January 24, 2011

Ms. Sharon Trocher – USEPA
290 Broadway
New York, NY 10007-1866

1

Mr. Shewen Bian – USACE
Metro East Resident Office
137C Poly Place, Suite 4B
Fort Hamilton Military Community
Brooklyn, NY 11252

1

Mr. Rob Alvey – USEPA
290 Broadway
New York, NY 10007-1866

1

Mr. Jeff Trad – NYSDEC
625 Broadway
Albany, NY 12233-7013

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Re: *Circuitron Corporation Superfund Site*
2010 Annual Performance Monitoring Report

Please find enclosed your copy of the 2010 Annual Performance Monitoring Report, for the above referenced Site, prepared by URS in accordance with the terms outlined in the scope of work for the current contract mod (W9128F-04-D-0001-DH02 Year 3). This report evaluates the 2010 monitoring well sampling results and water levels obtained through the July 2010 Performance Monitoring Period.

Please do not hesitate to contact Mr. Doug Gray directly via phone at 216-622-2283 or via e-mail at doug_gray@urscorp.com if you have any questions.

Very truly yours,

Anping Zheng
Water Resources Specialist

cc. Mr. Doug Gray – URS, Cleveland, OH
Mr. Dan Patel – Lockheed Martin REAC, Edison, NJ (Electronic file)
Ms. Mariel Harvey – ENVIRON International Corp, Newark, NJ (Electronic file)

2010 ANNUAL PERFORMANCE
MONITORING REPORT

CIRCUITRON SUPERFUND SITE
EAST FARMINGDALE,
NEW YORK

Prepared for
USACE, New York

Contract No. W9128F-04-D-0001
Delivery Order No. DH02

January 2011



201 Willowbrook Boulevard
Wayne, New Jersey 07470
973.785.0700

Project 41785955

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List of Acronyms

1,1,1-TCA	1,1,1-trichloroethane
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCE	1,2-dichloroethene (total)
bgs	below ground surface
FFS	Focused Feasibility Study
FID	Flame Ionization Detector
GAC	Granular Activated Carbon
GC/MS	Gas chromatograph/mass spectrometer
gpm	Gallons per minute
µg/kg	Micrograms per kilogram
µg/l	Micrograms per liter
O&M	Operation and Maintenance
OU-2	Operable Unit Two
PCE	Tetrachloroethene
PLC	Programmable Logic Controller
RCRA	Resource Conservation Recovery Act
REAC	Response Engineering and Analytical Contract
ROD	Record of Decision
SVE	Soil Vapor Extraction
TCE	Trichloroethene
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

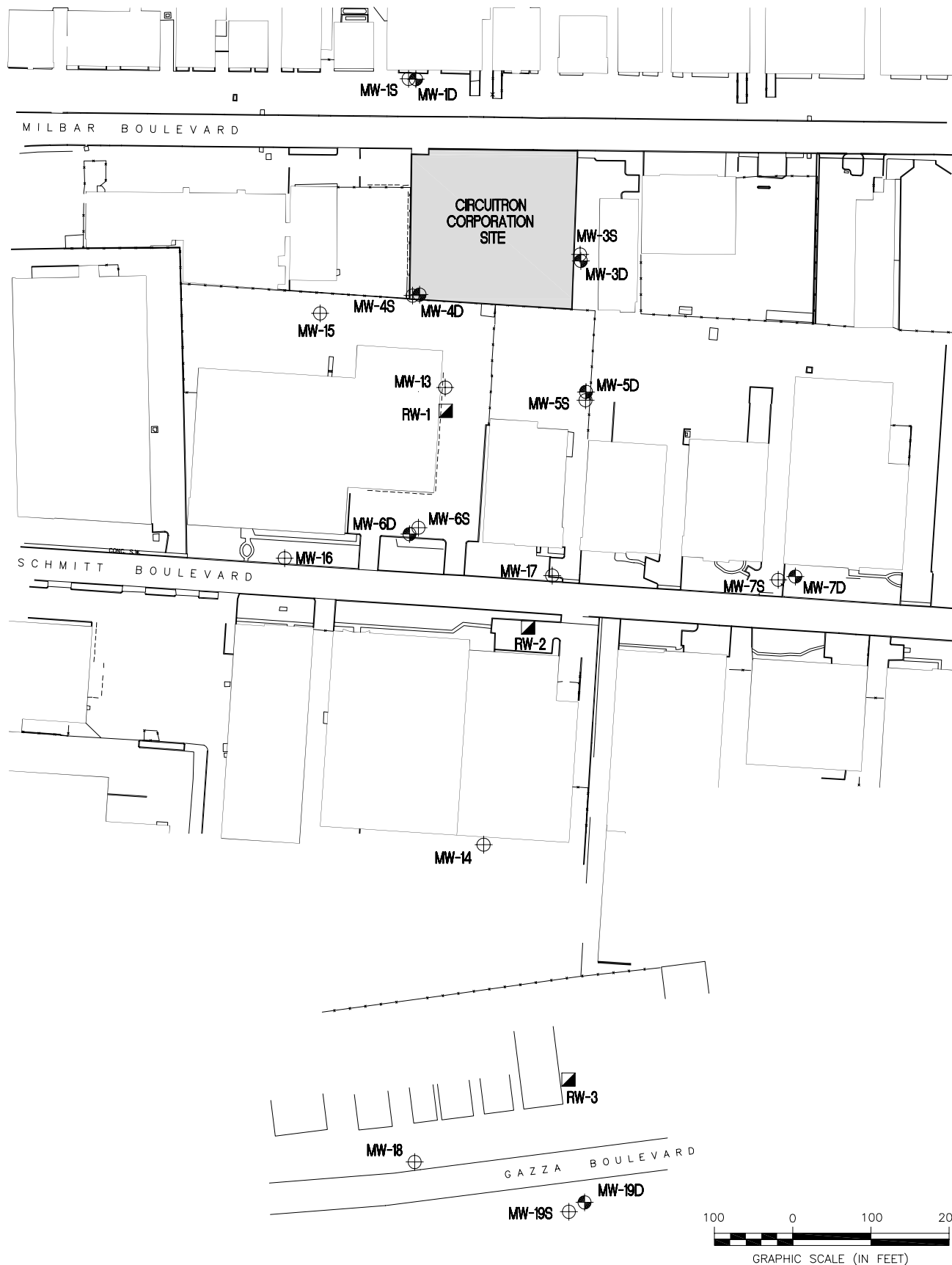
1.0 Introduction

This is the 2010 Annual Performance Monitoring Report for the Circuitron Corporation Superfund Site (Site) located in East Farmingdale, New York (Figure 1-1). This report presents an assessment of the groundwater data collected from January 1999 through July 2010, in accordance with the selected remedy for the Site as described in the Record of Decision (ROD) (United States Environmental Protection Agency [USEPA], 1994) for Operable Unit Two (OU-2). The annual report, documented herein, is prepared on a regular schedule incorporating new performance monitoring data. It is also noted that since metals analyses were eliminated after the 2003 sampling event, this report does not contain the historical metals data. Refer to the 2003 Annual Performance Monitoring Report for the metals data collected from January 1999 through April 2003.

This section of the report provides background information for the Site, including a description of the former and presently non-operational groundwater extraction well system, the network of performance monitoring wells, and the monitoring schedule. Section 2 discusses the technical approach for the performance monitoring evaluation. Section 3 presents an assessment of the groundwater flow patterns for the Site over time (i.e., with and without the groundwater extraction system in operation). Section 4 provides a summary of groundwater quality data collected at the Site. Section 5 presents a summary of the findings and conclusions. Section 6 presents recommendations for the Site, and Section 7 provides the reference materials used for the preparation of this report.

1.1 Background

Based on the results of the Focused Feasibility Study (FFS) for OU-2, completed by Roy F. Weston (Weston, 1994), elevated levels of both organic and inorganic compounds were detected in the Upper Glacial Aquifer below and near the Site. The Upper Glacial Aquifer is described as the water table aquifer that extends to a depth of 70 to 80 feet below the ground surface (bgs) at the Site and overlies the Magothy Aquifer. Elevated levels (exceeding Federal and State Groundwater Drinking Water Standards) of 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), chromium (Cr), and copper (Cu) were detected in the groundwater in the upper portions (less than 40 feet bgs) of the Upper Glacial Aquifer. These detections were attributed to the historical activities at the Site (see Figure 1-2). Similar compounds were also detected at elevated levels in the deeper portions (greater than 60 feet bgs) of the Upper Glacial Aquifer and in the underlying Magothy Aquifer in wells located on-site in addition to the wells



LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL

Site Map

Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 1-2.DWG

DATE: 4-29-03

FIGURE #: 1-2

located upgradient and downgradient of the Site. These detections in the deeper zone are believed to be the result of off-site sources (Weston, 1994). After the FFS was completed, a ROD for OU-2 was signed on September 30, 1994. The selected remedy consisted of the removal of organics and inorganics from the groundwater within the upper portion of the Upper Glacial Aquifer via air stripping and metal precipitation, respectively, and re-injection of the treated groundwater. Groundwater extraction for treatment from the deeper portion of the Upper Glacial Aquifer, and the Magothy Aquifer was not included as part of the OU-2 remedy for the Site. The major components of the OU-2 remedy include the following:

- Extraction of the site-related groundwater contaminant plume present in the upper 40 feet (top portion) of the saturated Upper Glacial Aquifer;
- Treatment, via precipitation and air stripping, of contaminated groundwater to drinking water standards;
- Re-injection of the treated groundwater into the Upper Glacial Aquifer via an infiltration gallery, and
- Disposal of treatment residuals at a Resource Conservation Recovery Act (RCRA) Subtitle C Facility.

1.2 Groundwater Extraction System

For the OU-2 remedy, groundwater flow and contaminant transport modeling was performed (Radian, 1999) to assist in the final design of the treatment system. Specifically, modeling was used to determine the placement and pumping rates of proposed extraction wells. Several scenarios of groundwater extraction well placement and pumping rates were considered for the OU-2 remedy design. The selected design consists of three (3) extraction wells pumping at a total rate of 80 gallons per minute (gpm), a treatment system, and re-injecting treated groundwater into a trench located at the northern (upgradient) end of the Site. The system began operations on June 28, 2000.

Additional groundwater modeling was performed by URS in 2005 to evaluate the effect of halting pumping at downgradient extraction wells RW-2 and RW-3 as recommended in the Streamlined Remediation System Evaluation (RSE-Lite) report (GeoTrans, 2005). The results of the additional modeling and the RSE-Lite report were included as Appendices D and E, respectively, in the 2005 Annual Groundwater Report, and are not re-iterated herein.

Both URS and the USEPA concurred that extraction well RW-3 could be shut off in 2005 and that prior to shutdown of RW-3, groundwater from all three of the extraction wells

would be sampled. The analysis showed that with the exception of 1,1-dichloroethane (1,1-DCA) and 1,1,1-TCA, all volatile organic compounds (VOCs) were below method detection limits in groundwater obtained from extraction wells RW-1, RW-2 and RW-3. The level of 1,1-DCA detected in well RW-2 was 19 micrograms per liter ($\mu\text{g/l}$). The level of 1,1,1-TCA detected was 4 $\mu\text{g/l}$ from well RW-1, 18 $\mu\text{g/l}$ from RW-2, and 3 $\mu\text{g/l}$ from RW-3. Based on these results, USEPA agreed that RW-2 should not be turned off.

The additional groundwater modeling performed by URS evaluated several alternative pumping scenarios, the first with wells RW-1 and RW-2 pumping, and RW-3 shut down; and another with only well RW-1 pumping. The resulting capture zones were compared to the current area where concentrations of 1,1,1-TCA exceed the standard of 5 $\mu\text{g/L}$. The modeling concluded that the capture zone created by wells RW-1 and RW-2 is sufficient to maintain hydraulic control of the affected area. Based on the recommendation of the RSE-Lite report to stop pumping at well RW-3 and supported by the groundwater modeling, well RW-3 was shut down on January 5, 2005.

Since 2005, the groundwater extraction system consisted of two extraction wells (RW-1 and RW-2) each equipped with a submersible well pump and piping that discharges groundwater to an on-site treatment plant. The extraction wells are positioned to pump groundwater from two areas to accomplish groundwater capture around the subject site area. Each well is constructed with a 15-foot long ASTM-A-304 stainless steel screen connected to ASTM-A-304 Schedule 40 stainless steel riser. The bottoms of the well screens for RW-1 and RW-2 were both installed to a depth of 56 feet bgs. The extraction well locations are presented in Figure 1-2. Each extraction well is pumped intermittently based on water levels in the extraction wells and the water levels in both the equalization tank and in the building sump inside the groundwater treatment plant (remediation system) building. The results of the 2005 modeling indicate that the combined flow rate of the two extraction wells should be operated at a total flowrate of 40 gpm. Currently, the system is not actively recovering groundwater; the system is “exercised” approximately four to six hours every month, concurrent with URS visits to the Site.

1.3 Groundwater Monitoring System

Presently, there is a network of 19 monitoring wells located at and around the Site that are used for groundwater monitoring of the OU-2 remedy. Shallow wells are those wells screened in the shallow portion of the Upper Glacial Aquifer (i.e., approximately 34 to 40 ft-bgs). Deep wells are those wells screened in the deep Upper Glacial Aquifer or Magothy Aquifer

(i.e., approximately 99 to 101 ft-bgs). Of the existing 19 wells, 12 wells are shallow and seven (7) are deep. For the Performance Monitoring period of June 2000 through July 2010, water level data and groundwater quality data were collected from each well in the network. Water levels were measured monthly from each well in the network and groundwater samples were collected quarterly for VOCs and semi-annually for inorganic analyses. In 2003, the monitoring well sampling frequency was reduced to annual sampling for VOCs and metals.

Based on URS's recommendations in the 2003 Annual Performance Monitoring Report, USEPA eliminated the requirement for annual metals sampling in the monitoring wells. The sampling method was also changed from the low-flow method to the diffusive bag method. The water level data and groundwater quality data (VOCs) have been collected annually since the mothballing of the treatment system in August 2007. These data are used to assess the performance of the treatment system and are discussed in Sections 3 and 4 of this report.

1.4 Process Observations and Changes

The Circuitron Project Team evaluated the recommendations of the RSE-Lite Report (January 2005) and with USEPA approval, implemented during 2005, those recommendations deemed appropriate. Prior to implementing the recommendation to install extra sets of filter bags, URS performed further evaluation. Based on successful histories at other Operation & Maintenance (O&M) sites with citric acid treatment, URS, with the concurrence of the USEPA, started on July 6, 2005 to introduce citric acid after the influent tank. The micron size of the filter bags was increased from 10 microns to 100 microns. In general, the results indicated that the reduction in the frequency of the filter bag changes caused no major decrease in the pH of the effluent. Acetone was detected in the effluent during the months after citric acid was introduced into the system.

With the introduction of the citric acid, the fouling of the reinjection trench occurred. The Project Team decided that the best solution was to waterjet the trench 3 – 4 times a year and to treat the reinjection trench with citric acid on an as-needed basis. This method continued until the mothballing of the groundwater treatment system in August 2007. On December 8, 2009, URS, with the concurrence of the USEPA, introduced 20 bags of 50-lb citric acid powder into the reinjection vault due to the fact that the water in the reinjection trench did not drain satisfactorily during the previous month's system exercise period, causing water overflow in the vault. The result of the citric acid injection lasted about 1 week before URS observed the water started to rise again when the system was running again. Although there has been no reinjection

trench fouling observed in 2010, a continued water jetting treatment program on the reinjection trench is recommended if the system is re-started in a full operational mode. In June 2010, URS noted a leak in the water supply line to the Site and the leak was subsequently repaired with water service being returned to the Site.

1.5 Summary of Investigation of Chlorinated Source

Response Engineering and Analytical Contract (REAC) personnel provided technical assistance to EPA Region II and performed an investigation of the unsaturated/saturated zone in the southwestern corner of the Circuitron Corporation Site, near wells MW-4S and MW-4D. The objective of the REAC investigation was to determine if a residual source of 1,1,1-TCA remains. The results of this investigation were published by REAC in April 7, 2006 and are briefly summarized below.

During November 2005, REAC utilized direct push to install and sample 40 soil borings and 22 temporary monitoring wells located in the southwestern corner of the Circuitron Corporation Site, predominately near wells MW-4S and MW-4D. The soil borings provided continuous cores to a total depth of between 25 and 35 feet bgs. Based on screening of the soil cores for total VOCs using a Flame Ionization Detector (FID), 63 soil samples were analyzed using an on-site portable gas chromatograph/mass spectrometer (GC/MS) for VOC Target Compound List, which included trichloroethylene (TCE) and tetrachloroethylene (PCE). Six of these soil samples were sent to an analytical laboratory for confirmation. Twenty-two (22) one-inch diameter temporary monitoring wells were installed to a depth of 5 feet below the water table (total depth of 35 feet bgs). Groundwater was obtained using disposable bailers from each of these 22 wells plus existing wells MW-1S, -1D, -4S and -4D. The groundwater samples were analyzed for VOCs using an on-site GC/MS and six samples were sent to an analytical laboratory for confirmation.

The results of this effort indicated:

- a) An accumulation of 1,1,1-TCA dissolved in groundwater surrounding well MW-4S, with a maximum 1,1,1-TCA concentration of 1,600 µg/l from temporary monitoring well SD-3, which is located 5 to 10 feet north of well MW-4S.
- b) An accumulation of PCE dissolved in groundwater located approximately 50 feet north of well MW-4S, with a maximum concentration of 150 µg/l from temporary well R3.

- c) An approximate 15-20 foot diameter area of soil, generally centered around well MW-4S, where 1,1,1-TCA has been detected with a maximum soil concentration of 21,900,000 µg/kg at a depth of 15 feet bgs.
- d) An approximate 10-15 foot diameter area of soil, located approximately 50 feet north of well MW-4S, where PCE has been detected with a maximum soil concentration of 17,200 µg/kg.

In August 2007, USEPA and its contractor, under a separate contract, installed a soil vapor extraction (SVE) system for a pilot study. During the pilot study, the groundwater extraction and treatment system have been operated for approximately four to six hours every two weeks. The pilot SVE system continued to be in operation throughout 2010.

2.0 Technical Approach

The performance monitoring evaluation assesses changes in the concentrations of compounds dissolved in groundwater relative to the observed zone of capture using hydraulic and water quality data collected throughout the Performance Monitoring period, extending from January 1999 through July 2010. Isoconcentration maps, groundwater elevation contour and flow maps, and geochemical time-series graphs are used to assess the effectiveness of the remediation system for treating the groundwater present in the shallow portion of the Upper Glacial aquifer. Portions of the deep Upper Glacial Aquifer and the Magothy Aquifer are being monitored for changes in groundwater chemistry over time; therefore, time-series graphs have also been prepared for wells screened within this zone. However, the overall effectiveness of the remediation system is based solely on the results in the Upper Glacial Aquifer, as described in the ROD.

2.1 Groundwater Contour and Flow Maps

Groundwater elevation contour maps were prepared for the shallow portion of the Upper Glacial Aquifer beneath the Site. When the groundwater extraction system was operational, the effectiveness of the remediation system to induce groundwater capture was evaluated by comparing the groundwater flow pattern under pumping conditions to the modeled capture zone. Compounds dissolved in groundwater obtained from wells within the capture zone will be transported toward one of two pumping wells. Groundwater capture was demonstrated if groundwater flow lines were directed toward one of the two extraction wells, as indicated by groundwater elevation contour maps prepared under pumping conditions. However, since the groundwater extraction system has not been operational since 2007, the assessment on groundwater capture zone is not presented in this report. It is noted that the groundwater extraction and treatment system was only operated (i.e., “exercised”) for approximately four to six hours every month in 2010. For additional details and documentation of assessments on groundwater capture zones, please refer to Section 3 of previously submitted Annual Performance Monitoring Reports.

2.2 Groundwater Quality

Groundwater quality was evaluated by preparing isoconcentration maps and geochemical time-series graphs from the sampling data obtained during the Performance Monitoring Period. Data from sampling events that occurred prior to startup of the remediation system (i.e., May 1993, February 1994 and mid-June 2000) were used as the benchmark to

represent pre-remediation baseline groundwater quality conditions. These data were used to identify which VOCs are potentially related to historical activities at the Site (site-related) or believed to not have been related to historical activities at the Site (non site-related). This is discussed more fully in Section 4 of this report.

- Isoconcentration contour maps were prepared using data obtained from the June 2000, January/February 2002, April 2003, June 2004, June 2005, July 2006, August 2007, July 2008, July 2009 and July 2010 sampling events for various VOCs and inorganic analytes for groundwater obtained from the shallow portion of the Upper Glacial Aquifer. Beginning in June 2004, only VOC samples were collected for analysis as agreed to by USEPA. Based on USEPA's request, only one diffusion bag was utilized for sampling the wells since June 2005. The bag was placed at one foot above the bottom of the well.

Previous data were submitted to the USEPA and United States Army Corps of Engineers (USACE) as part of the Operation and Maintenance Monthly Progress Reports for the Site. Comparison of the isoconcentration maps to groundwater flow paths can be used to document that the remediation system is effectively remediating compounds dissolved in groundwater. This evaluation is presented in Section 4 of this report.

Geochemical time-series graphs provide an effective technique for documenting trends over time in groundwater quality from a given well. Time-series graphs were prepared by plotting concentration levels versus time for compounds detected in groundwater samples from both the shallow and deep monitoring wells. Data obtained from the deeper Upper Glacial and Magothy Aquifer wells were prepared to document changes in groundwater chemistry over time because these wells are included in the Performance Monitoring program. However, the assessment of the OU-2 remedy is solely based on the results from the shallow Upper Glacial Aquifer.

3.0 Groundwater Flow

Water levels measurements from each accessible monitoring well were collected in January 1999, prior to the startup of the full-scale remediation system operation in late June 2000. Groundwater level data from January 1999 (Figure 3-1a) and mid-June 2000 (Figure 3-1b) were used to establish baseline conditions of groundwater flow within the upper portion of the Upper Glacial Aquifer under non-pumping conditions. After commencement of the remediation system operation in late June 2000, water level measurements were collected monthly from each accessible monitoring well. Beginning in January 2005, pumping was halted at the most downgradient extraction well RW-3. Groundwater level data was collected monthly through June 2006, after which groundwater level data was collected quarterly at the request of the USEPA. Since 2008 the groundwater level data has been collected annually, at the same time as the annual performance sampling event. All these groundwater elevation contour maps are presented in Figures 3-1a to 3-1k.

Hydrographs showing groundwater elevation over time were prepared for each well (Appendix C). These graphs indicate that the hydrographs for the individual wells generally (with a few notable exceptions) parallel one another and the hydraulic gradient has remained essentially constant during this Performance Monitoring Period.

3.1 Baseline Conditions

The baseline groundwater flow pattern recorded in January 1999 (Figure 3-1a) and June 2000 (Figure 3-1b) represents hydraulic conditions prior to operating the remediation system. These data show that groundwater flow is to the south/southeast with a hydraulic gradient between 0.002 ft/ft and 0.004 ft/ft within the upper portion of the Upper Glacial Aquifer during January 1999 and June 2000.

3.2 Pumping Conditions

Figures 3-1c to 3-1h show the groundwater contour map within the upper portion of the Upper Glacial Aquifer under pumping conditions during August 2002, April 2003, March 2004, June 2005, June 2006, and July 2007 while the system was fully operational. During the period from July 2008 through July 2010, the system was not operated continuously and groundwater contour maps (Figures 3-1i to 3-1k) are based on water level measurements in monitoring wells.

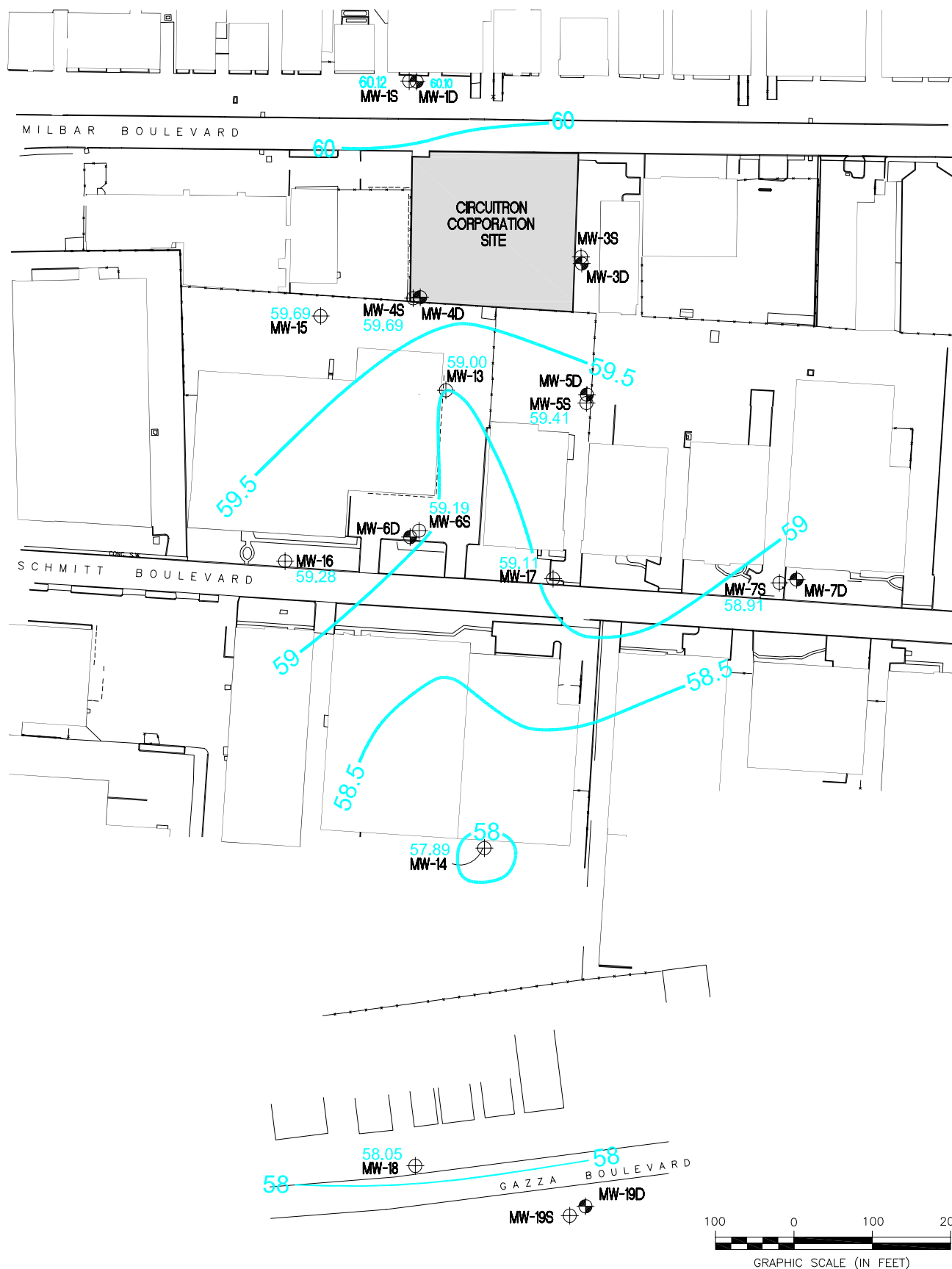
The groundwater flow pattern indicates transport toward the south with a slight bi-directional flow component on either side of a north-south line connecting the recovery wells. West of this line, flow is predominantly to the southeast. East of this line, flow is to the southwest. The effects of the groundwater extraction system, when operational, are evident as groundwater contours are partially wrapped around each recovery well. Pumping well RW-3 was turned off in January 2005. Pumping wells RW-1 and RW-2 have been operated four to six hours every two weeks since August 2007 because of a pilot test of a SVE system near MW-4S and MW-4D. It is noted that since the groundwater extraction system has been non-operational, groundwater flow direction has generally returned to baseline (pre-pumping) conditions with groundwater flow in an apparent south/southeast direction.

Table 3-1 presents hydraulic gradients observed in June 2000 (pre-pumping), August 2002, April 2003, March 2004, June 2005 (pumping), June 2006 and July 2007 conditions. A comparison of the gradients measured in August 2002, April 2003, March 2004, June 2005, June 2006 and July 2007 at which time the treatment system was operational, shows that gradients in the northern portion of the Site are very similar; but that gradients are steeper around well MW-14 during the April 2003 measurements.

**Table 3-1. Horizontal Gradients (feet/feet) Upper Glacial Aquifer,
Circuitron Corporation Superfund Site**

Date	Traverse*			
	MW-15 (Northwest)	MW-5 (Northeast)	MW-14 (Southwest)	MW-14 (Southeast)
June 2000 (pre-pumping)	0.002	0.002	0.004	0.004
August 2002 (pumping)	0.003	0.005	0.004	0.005
April 2003 (pumping)	0.004	0.004	0.006	0.008
March 2004 (pumping)	0.002	0.002	0.006	0.006
June 2005 (pumping)	0.003	0.002	0.003	0.003
June 2006 (pumping)	0.003	0.002	0.003	0.003
July 2007 (pumping)	0.002	0.003	0.003	0.003

*Traverses used to calculate gradients are centered on these wells and follow the flow paths which are at right angles to groundwater contours.



LEGEND

⊕ SHALLOW MONITORING WELL

⊙ DEEP MONITORING WELL

58.05 GROUNDWATER ELEVATION

— GROUNDWATER ELEVATION CONTOUR LINE

January 1999

Groundwater Elevation Contour Map (Non-pumping)
Upper Glacial Aquifer

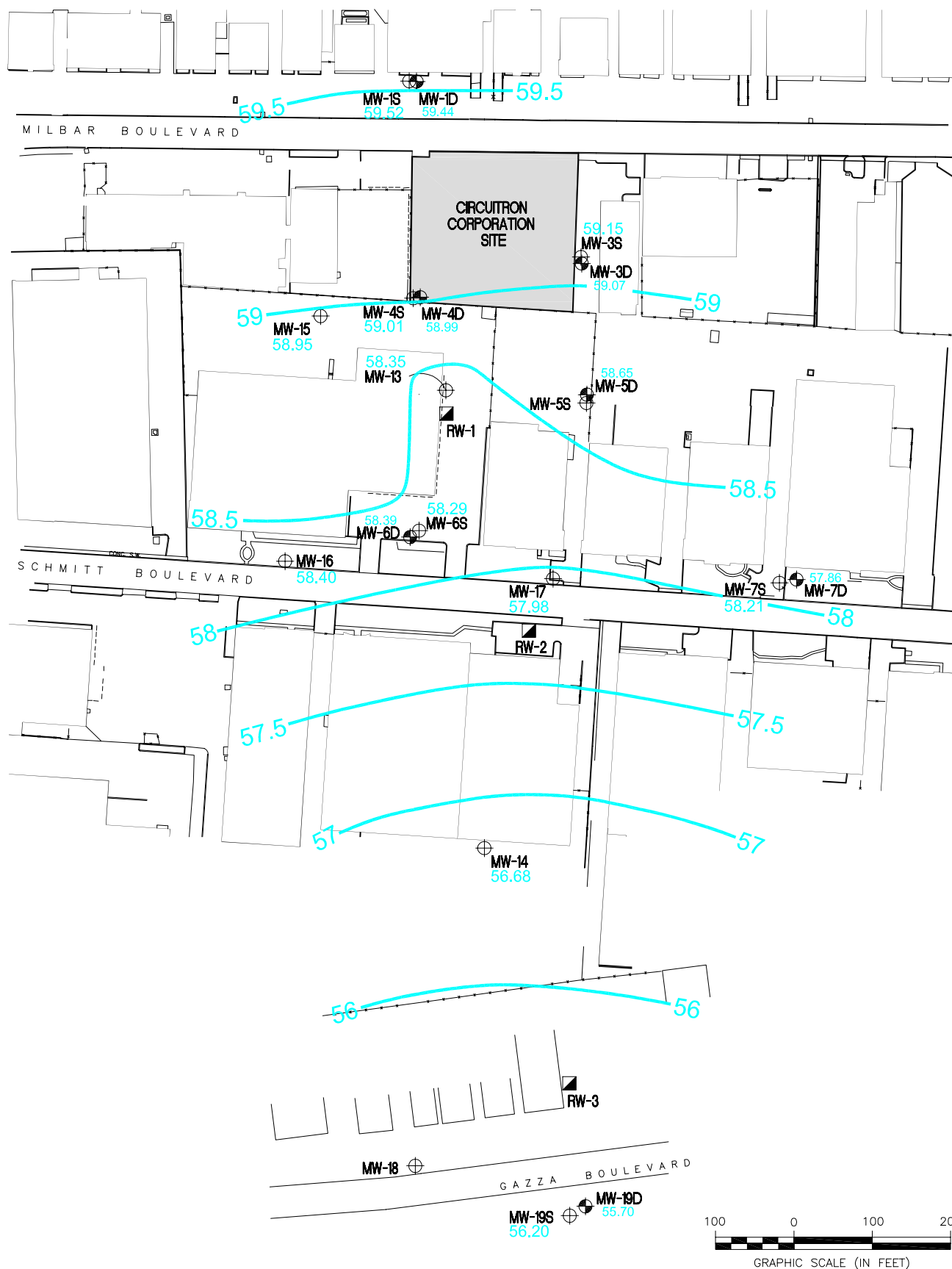
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 3-1a.DWG

DATE: 4-29-03

FIGURE #: 3-1a



LEGEND

-  SHALLOW MONITORING WELL
-  DEEP MONITORING WELL
-  RECOVERY WELL

56.20 GROUNDWATER ELEVATION

GROUNDWATER ELEVATION CONTOUR LINE

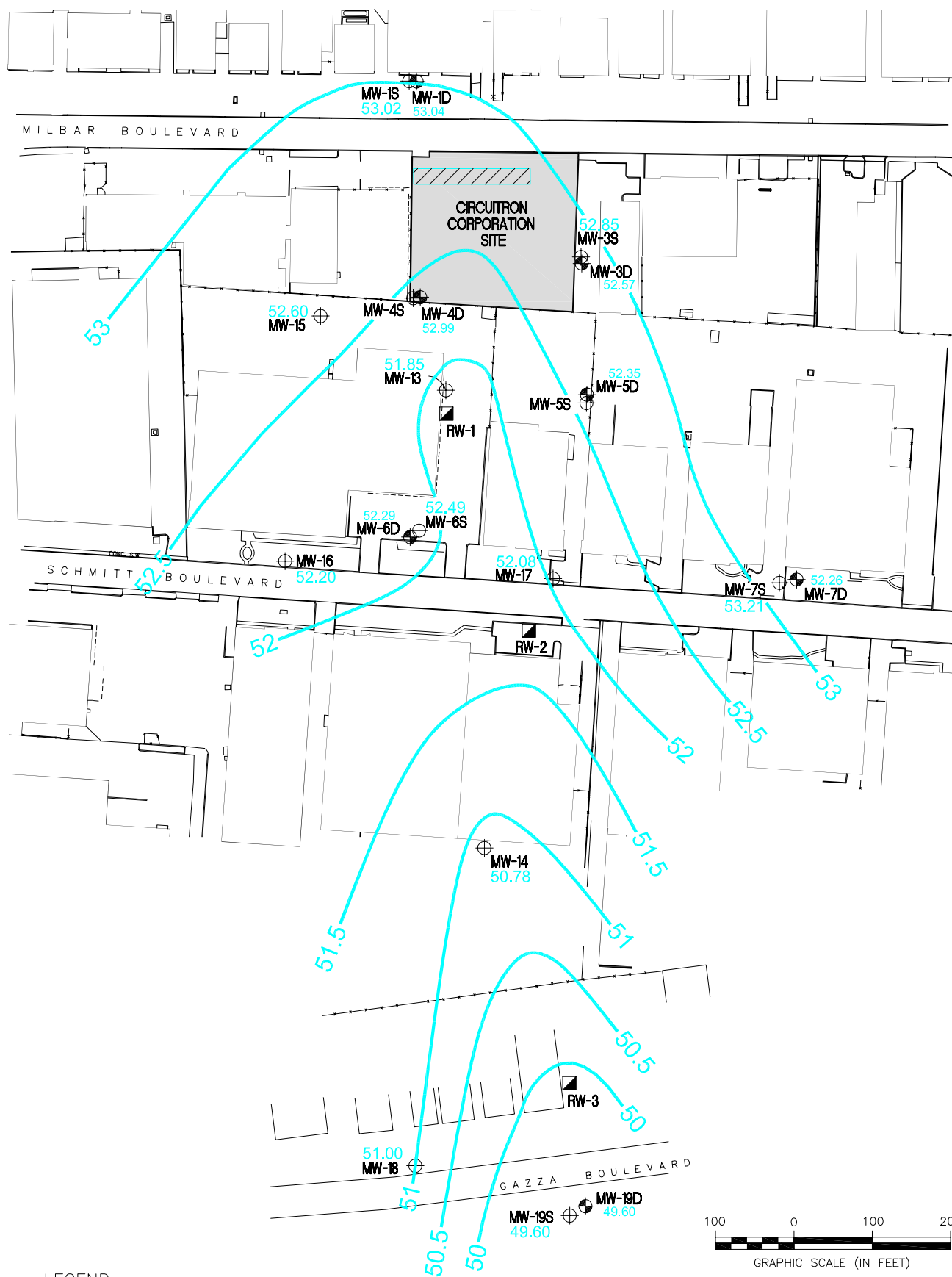
June 2000
Groundwater Elevation Contour Map (Non-pumping)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 3-1b.DWG

DATE: 4-29-03

FIGURE #: 3-1b



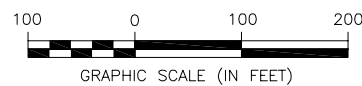
LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ▣ RECOVERY WELL

51.00 GROUNDWATER ELEVATION

— GROUNDWATER ELEVATION CONTOUR LINE

▨ NORTHERN INJECTION TRENCH



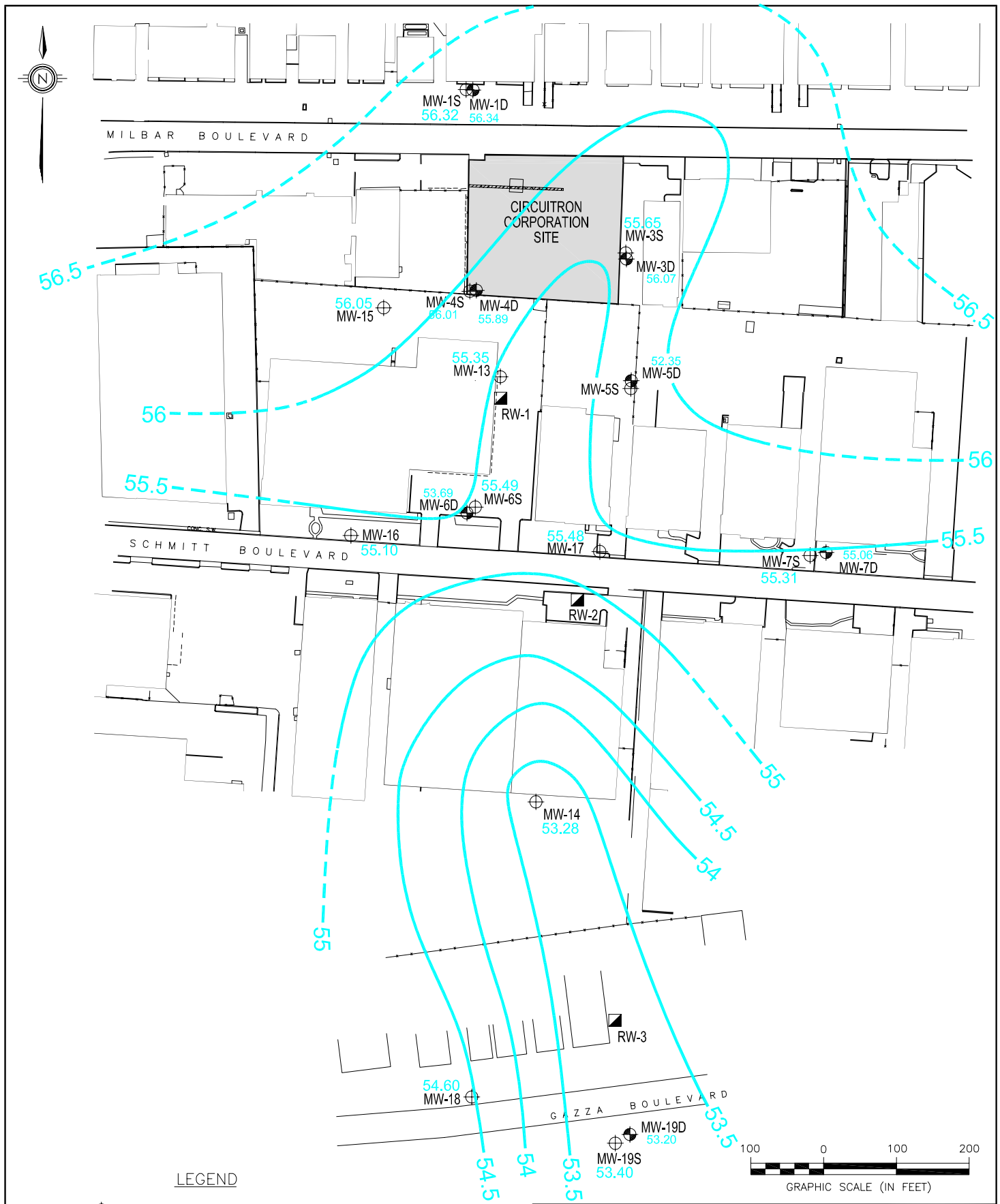
August 2002
Groundwater Elevation Contour Map (Pumping)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

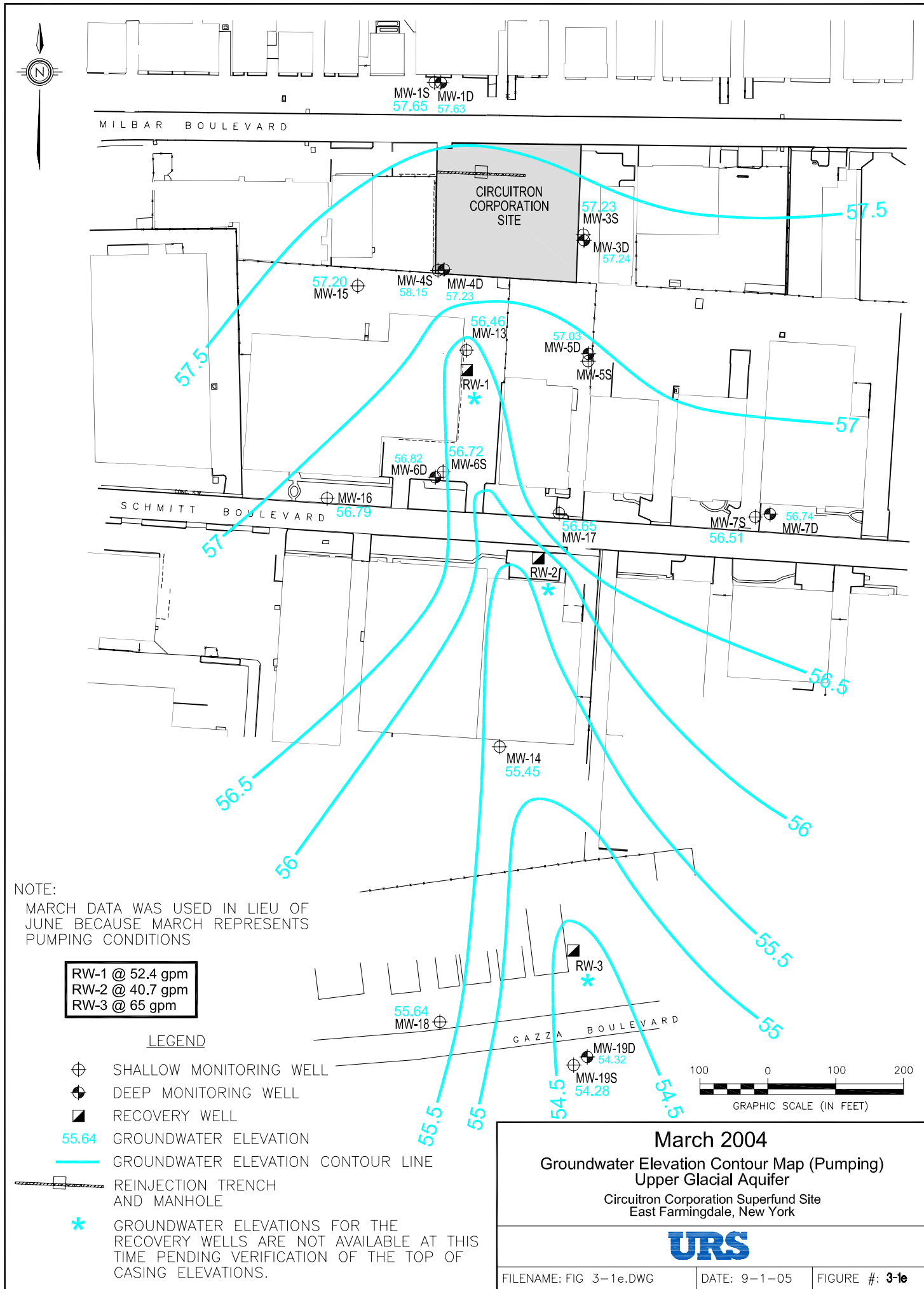
FILENAME: FIG 3-1c.DWG

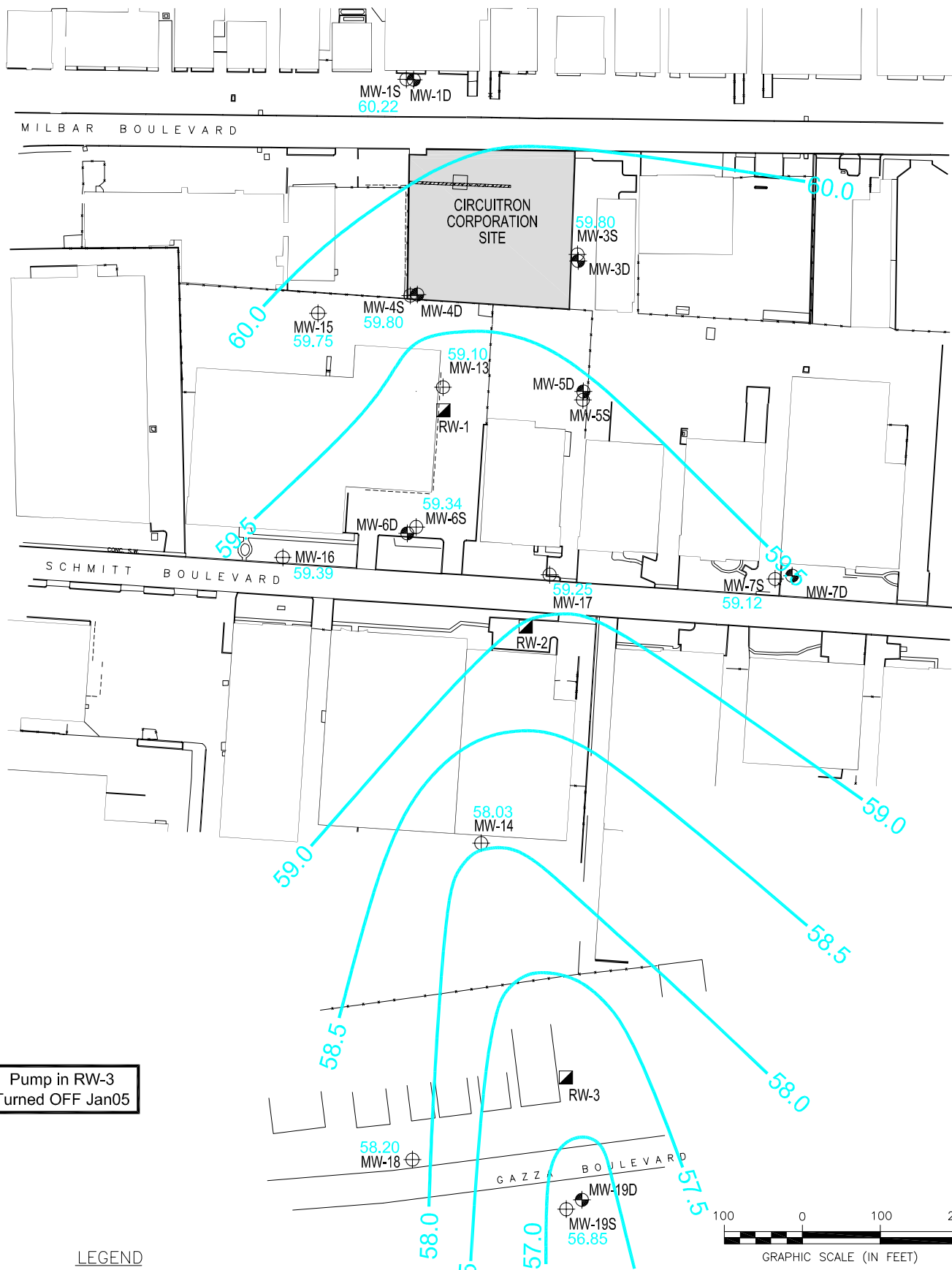
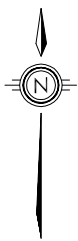
DATE: 4-29-03

FIGURE #: **3-1c**



April 2003 Groundwater Elevation Contour Map (Pumping) Upper Glacial Aquifer Circuitron Corporation Superfund Site East Farmingdale, New York URS		
FILENAME: FIG 3-1d.DWG	DATE: 2-2-04	FIGURE #: 3-1d

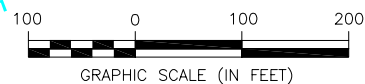




Pump in RW-3
Turned OFF Jan05

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- 55.64 GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE
- REINJECTION TRENCH AND MANHOLE



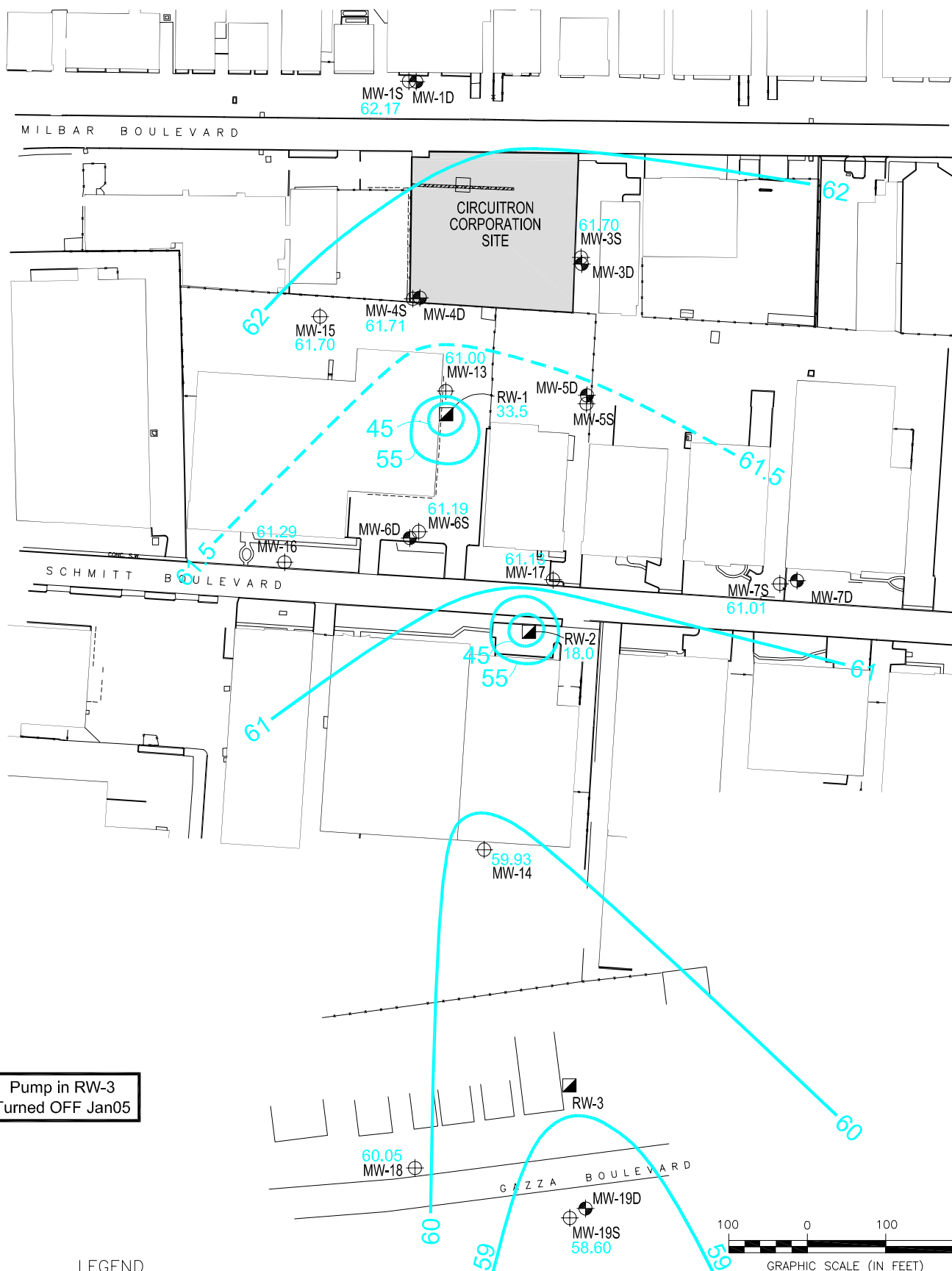
June 2005
Groundwater Elevation Contour Map (Pumping)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 3-1f.DWG

DATE: 10-3-05

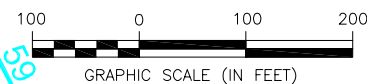
FIGURE #: 3-11



Pump in RW-3
Turned OFF Jan05

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- 60.05 GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE
- REINJECTION TRENCH AND MANHOLE



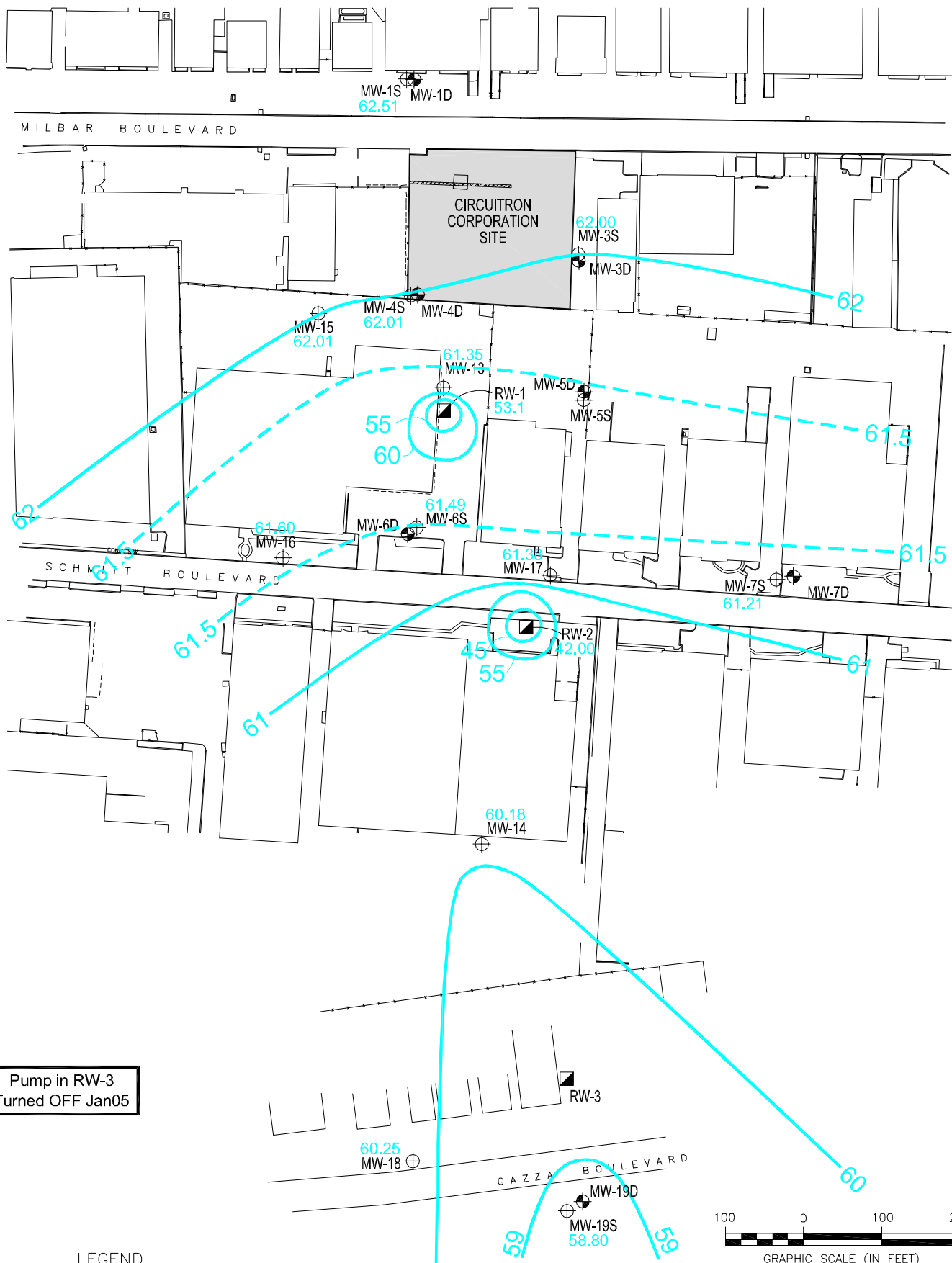
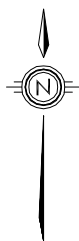
June 2006
Groundwater Elevation Contour Map (Pumping)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 3-1g.DWG

DATE: 9-11-06

FIGURE #: 3-1g



Pump in RW-3
Turned OFF Jan05

LEGEND

⊕ SHALLOW MONITORING WELL

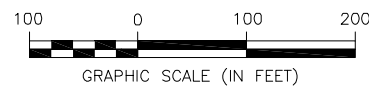
⊕ DEEP MONITORING WELL

▣ RECOVERY WELL

60.05 GROUNDWATER ELEVATION

— GROUNDWATER ELEVATION CONTOUR LINE

— REINJECTION TRENCH
AND MANHOLE



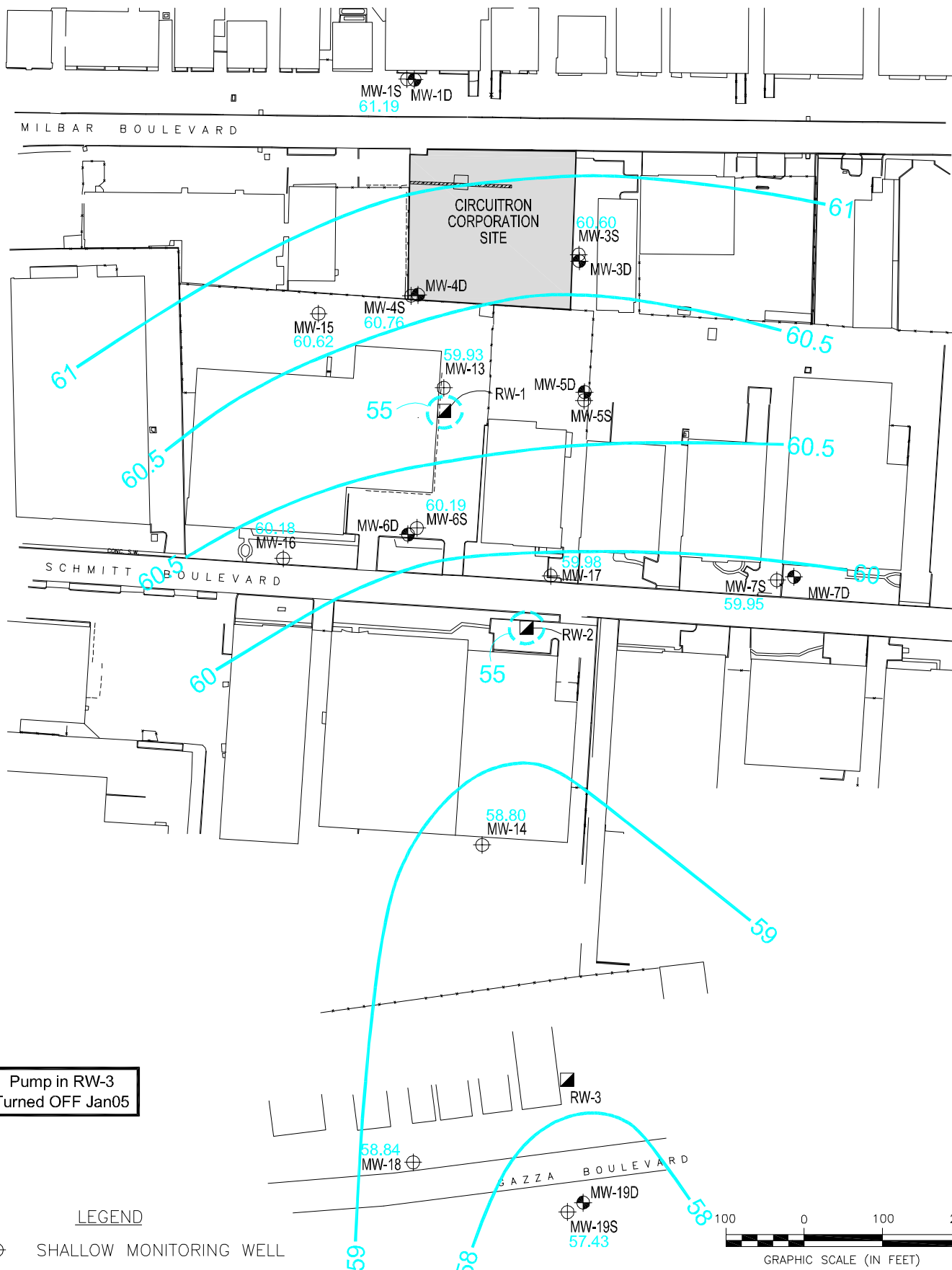
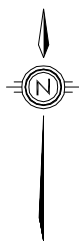
July 2007
Groundwater Elevation Contour Map (Pumping)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 3-1h.DWG

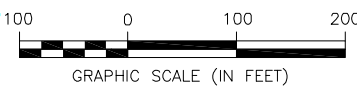
DATE: 10-31-07

FIGURE #: 3-1h



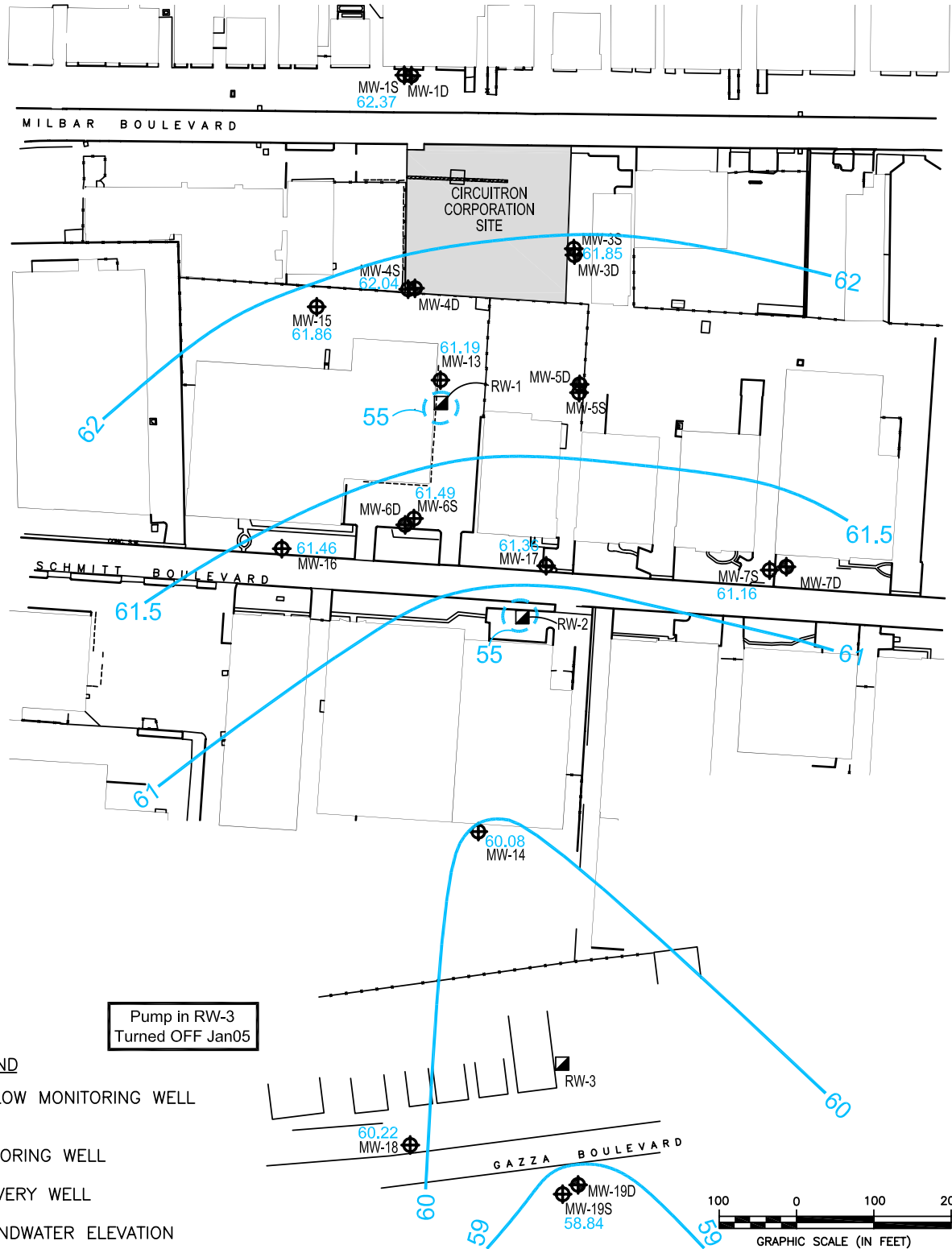
LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- 60.19 GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE
- ESTIMATED GROUNDWATER ELEVATION CONTOUR LINE (SYSTEM OPERATING)
- REINJECTION TRENCH AND MANHOLE



July 2008
Groundwater Elevation Contour Map
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS



LEGEND

⊕ SHALLOW MONITORING WELL
DEEP

⊕ MONITORING WELL

▣ RECOVERY WELL

60.05 GROUNDWATER ELEVATION

— GROUNDWATER ELEVATION
CONTOUR LINE

--- ESTIMATED GROUNDWATER
ELEVATION CONTOUR LINE
(SYSTEM OPERATING)

--- REINJECTION TRENCH AND
MANHOLE

July 2009

Groundwater Elevation Contour Map
Upper Glacial Aquifer

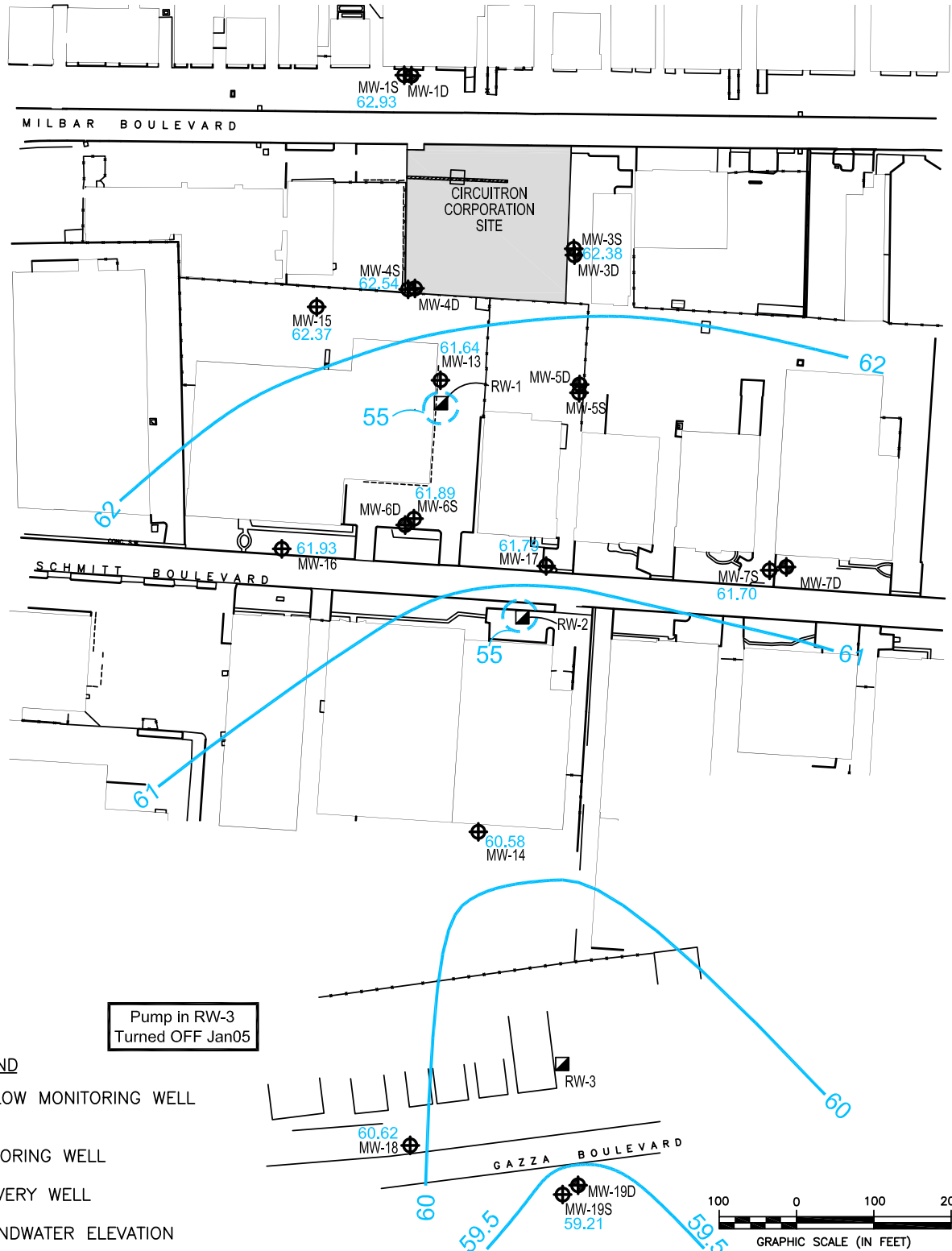
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 3-1j.DWG

DATE: 10-11-09

FIGURE #: 3-1



LEGEND

⊕ SHALLOW MONITORING WELL
DEEP

⊕ MONITORING WELL

▣ RECOVERY WELL

60.05 GROUNDWATER ELEVATION

— GROUNDWATER ELEVATION
CONTOUR LINE

--- ESTIMATED GROUNDWATER
ELEVATION CONTOUR LINE
(SYSTEM OPERATING)

--- REINJECTION TRENCH AND
MANHOLE

July 2010

Groundwater Elevation Contour Map
Upper Glacial Aquifer

Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 3-1k.DWG

DATE: 11-29-10

FIGURE #: 3-k

4.0 Groundwater Quality

During the period from June 2000 through July 2010, when the OU-2 remedy was operating (fully or partially), groundwater samples were collected from up to 19 monitoring wells at the Site. These data, as presented in Appendices A-1, A-2, and A-3, were used to evaluate changes of the dissolved phase VOC concentrations in the groundwater during the Performance Monitoring Period. Data from sampling events that occurred prior to startup of the remediation system (i.e., May 1993, February 1994 and mid-June 2000) were used as the benchmark to represent pre-remediation baseline groundwater quality conditions.

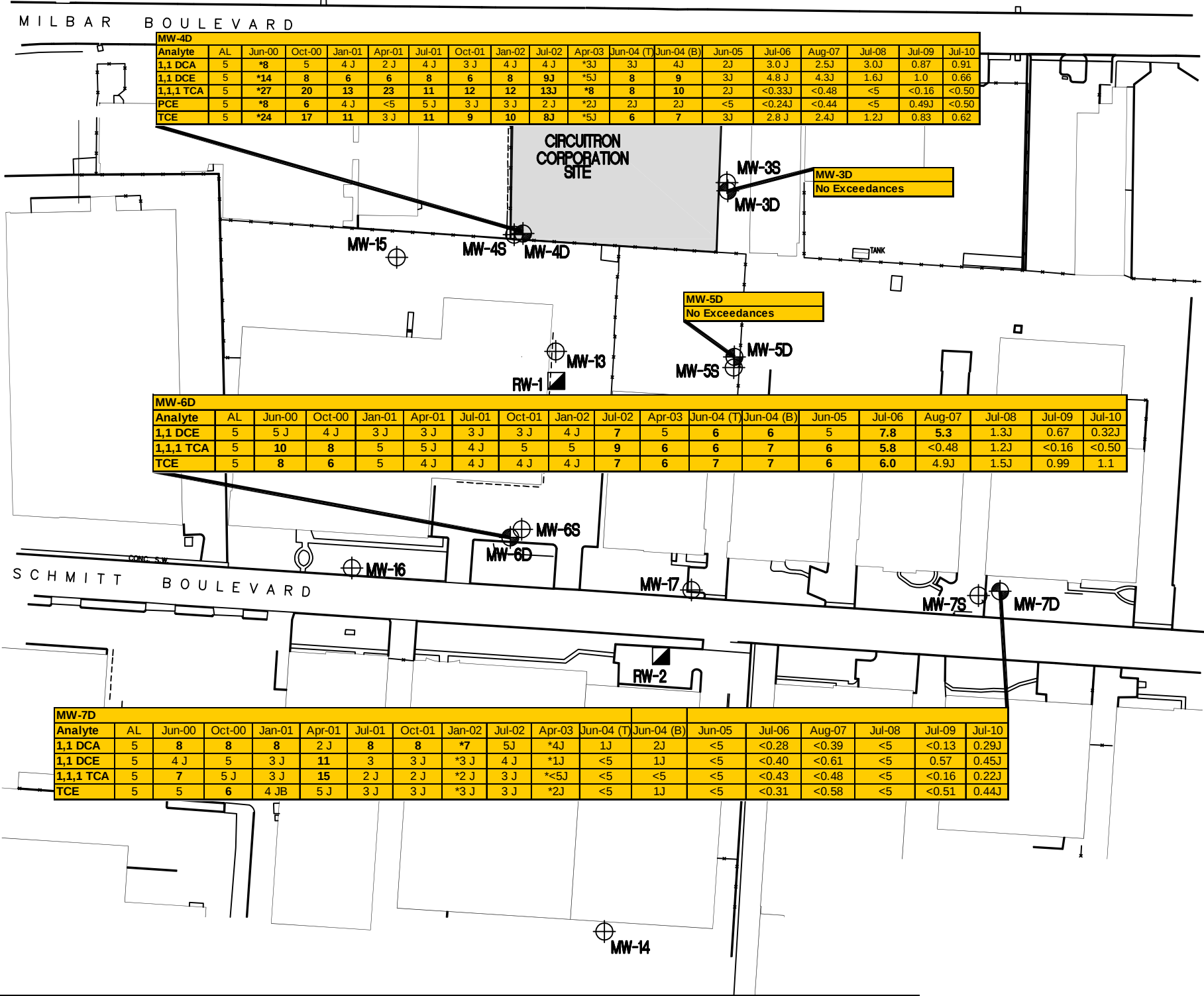
The following sections discuss the distribution of compounds detected in the shallow groundwater using isoconcentration contour maps and time-series graphs (as presented in Appendix B). Time-series graphs for seven deep wells included in the Performance Monitoring program were also prepared to show trends in the deeper zone of the Upper Glacial Aquifer over time and are also presented in Appendix B.

4.1 Exceedances of Action levels

Exceedances are defined for the purposes of this report as groundwater samples analyzed that have VOCs or metals detected at levels exceeding the applicable Federal or State Groundwater Drinking Water Standards. These standards are referred to in this report as Action Levels. Single exceedances may be anomalous and therefore recommendations for changing the operation of the remediation system will be based on only a pattern of multiple exceedances. Table 4-1 summarizes the exceedances observed in groundwater from each well and Figures 4-1a and 4-2a illustrate historical exceedances of VOC compounds observed in groundwater sampled from shallow and deep wells, as well as observed concentrations versus time. Appendix A-1 presents the total VOC concentrations for each monitoring well sampled from June 2000 through July 2010. Appendix A-2 contains the historical VOC analytical results for each monitoring well. Appendix A-3 presents validated laboratory summary data for the 2010 sampling event.

Among all shallow wells, MW-14, MW-18 and MW-19S are located outside the historical capture zone (refer to previous reports about capture zone). Groundwater samples collected from MW-18 showed 2 exceedances of methylene chloride (see Appendix A-2), both occurring in 2001. Groundwater samples collected from MW-19S showed multiple exceedances of methylene chloride, a single exceedance of 1,1-DCA, and 2 exceedances of 1,1,1-TCA. All

MW-1D																				
Analyte	AL	May-93	Feb-94	Jun-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Jul-02	Apr-03	Jun-04 (T)	Jun-04 (B)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 DCE	5	31.00 J	24.00	9	10	7	*8	< 5	*10	11	10	7	7	7	7	4.8 J	1.5J	<5	2.0	0.73
1,1,1-TCA	5	84.00 J	99.00	16	14	13	*13	<5	*16	14	12	8	7	7	8	<0.43	<0.4	<5	1.0	0.42J
PCE	5	38.00 J	18.00	5 J	6	4 J	*5	<5	*6	6	5	3J	2J	1J	1J	<0.35	<0.78	<5	<0.11	0.17J
TCE	5	76.00 J	82.00	13	15	10	*10	<5	*11	11	12	5J	5	5	5	2.0 J	1.6J	<5	1.4	0.82



MW-19D																			
Analyte	AL	Jun-00	Oct-00	Jan-01	Apr-01	Jul-01	Oct-01	Jan-02	Jul-02	Apr-03	Jun-04 (T)	Jun-04 (B)	Jun-04 (LF)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 DCE	5	14	14	12	18	19	*18	23	24	11	<5	*22	19	*24.5	*100	<0.61	42	*29J	<0.50
1,1,1 TCA	5	23	19	17	27	27	*28	30	28	16	2J	*23	22	*29.5	*71	<0.48	34	*18	<0.50
1,2 DCE (t)	5	3J	6	<5	7	8	*8	8	10	8	<5	*8	7	*6.5	*5.1	<0.83	2.7J	*2.3J	<0.50
Chloroform	7	2J	2 J	<5	5 J	7	*7	10	14	19	2J	*32	25	*21	*5.9	<0.35	2.4J	*1.5	<0.50
PCE	5	46	47	50	55	65	*62	77	62	57	2J	*24	39	*19	*17.5	<0.44	8.0	*4.0	<0.50
TCE	5	40	34	37	36	46	*43	55	57	33	2J	*34	32	*27	*27	<0.58	40	*33.5J	<0.50

- LEGEND
- ⊕

⊗

■

1,1 DCA

1,1 DCE

1,1,1 TCA

1,2 DCE (t)

PCE

TCE

AL

B

J

<

SHALLOW MONITORING WELL

DEEP MONITORING WELL

RECOVERY WELL

1,1 DICHLOROETHANE

1,1 DICHLOROETHENE

1,1,1 TRICHLOROETHANE

1,2 DICHLOROETHENE (TOTAL)

TETRACHLOROETHENE

TRICHLOROETHENE

ACTION LEVEL: APPLICABLE FEDERAL & STATE GROUNDWATER DRINKING WATER STANDARD

ANALYTE WAS DETECTED IN ASSOCIATED BLANK

ESTIMATED

NOT DETECTED IN EXCESS OF STATED METHOD DETECTION LIMIT
- REINJECTION TRENCH AND MANHOLE

NOTES:

BOLDED VALUES EXCEED ACTION LEVEL

* VALUES MARKED WITH ASTERISK ARE THE ARITHMETIC MEAN OF NORMAL AND DUPLICATE SAMPLES

ALL CONCENTRATIONS PRESENTED IN ug/L

FOR JUNE 2004, DIFFUSION BAG SAMPLING WAS PERFORMED:
T-TOPMOST BAG; B-BOTTOM BAG

FOR MW-19D IN JUNE 2004, DIFFUSION BAG & LOW FLOW (LF) SAMPLES WERE COLLECTED AS PER USEPA’S REQUEST.

Volatile Organic Compound Concentrations
Exceeding Screening Criteria
Deep Wells

Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-2A.DWG DATE: 11-14-10 FIGURE #: 4-2a

these exceedances occurred between 2000 and 2003. However, methylene chloride, a common analytical artifact for VOCs, is not representative of groundwater contamination because most of the associated method blanks also exhibited detections of methylene chloride, and therefore, such exceedances were not used in this evaluation and are not shown on Figure 4-1a. Monitoring well MW-14 has not exhibited any exceedances of VOC standards during the last eight rounds of annual groundwater sampling conducted since 2002.

Based on the most recent July 2010 groundwater analytical data, only two (2) exceedances to Action Levels are noted within the shallow portion of the Upper Glacial Aquifer. These exceedances occurred at monitoring wells MW-4S (1,1,1-TCA @ 54 µg/L) and MW-13 (1,1-DCA @ 8.7 µg/L). None of the other shallow performance monitoring wells indicated any exceedances. Additionally, no exceedances were observed in any of the deep performance monitoring wells, based on the July 2010 data.

4.2 Site-related Compounds versus Non Site-related Compounds

For the purposes of this document, the following criteria were used to determine if a compound is potentially related to historical activities at the Site (site-related) or believed to not have been related to historical activities at the Site (non site-related). The effectiveness of the remediation system will be evaluated by the presence of compounds that are believed to be site-related. Compounds that are judged to be non site-related will not be used to determine the remediation system effectiveness.

A compound will be considered site-related if:

- a) It was not observed as an exceedance in groundwater obtained from the upgradient well prior to remediation system startup (i.e., May 1993, February 1994 and June 2000 sampling events) and was observed as an exceedance in groundwater from a site well during more than one sampling event; or
- b) It formed from naturally occurring biodegradation, such as dichloroethenes and dichloroethanes, if the parent compound (e.g., PCE, TCE or 1,1,1-TCA) is considered to be site-related (i.e., not observed as an exceedance in groundwater from the upgradient well).

A compound will be considered as non site-related if:

- a) It was observed as an exceedance in groundwater from the upgradient well prior to remediation system startup (i.e., May 1993, February 1994 and June 2000 sampling events); such compounds are considered to be background; or
- b) It formed from naturally occurring biodegradation, such as dichloroethenes and dichloroethanes, if the parent compound (e.g., PCE, TCE or 1,1,1-TCA) is considered to be non site-related, (i.e., observed as an exceedance in groundwater from the upgradient well).

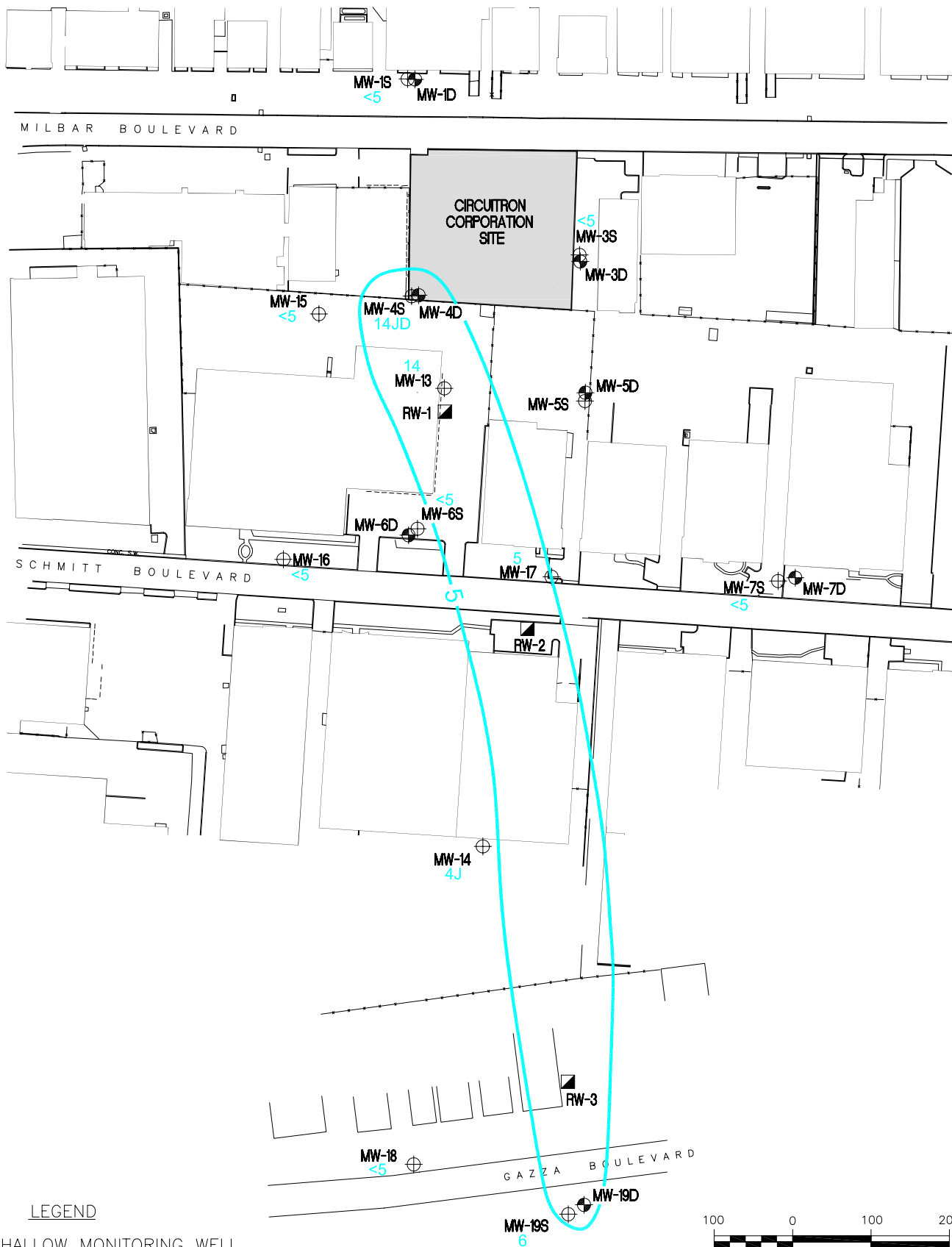
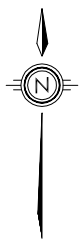
4.3 Isoconcentration Maps

Isoconcentration maps for the shallow portion of the Upper Glacial Aquifer were prepared for sampling events conducted in June 2000, January/February 2002, April 2003, June 2004, June 2005, July 2006, August 2007, July 2008, July 2009 and July 2010 and are presented in Figures 4-3(a-j) and 4-4(a-j) for 1,1-DCA and 1,1,1-TCA, respectively. Data from January/February 2002 was used in place of August 2002 data because dry conditions prevented sampling of shallow monitoring wells (MW-4S, MW-6S, and MW-7S) at that time. Isoconcentration maps were created for organic compounds (1,1-DCA and 1,1,1-TCA), which had historical exceedances observed in the groundwater from downgradient well MW-19S.

4.3.1 VOC Exceedances in Shallow Wells

Figure 4-1a and Table 4-1 provide a summary of the exceedances of VOCs observed to have been present in the groundwater samples from shallow wells. For the 2010 annual sampling event, there are two exceedances of VOCs: the concentration of 1,1-DCA exceeded its respective action level in the groundwater sample collected from site monitoring well MW-13 (8.7 µg/L); the concentration of 1,1,1-TCA exceeded its respective action level in monitoring well MW-4S (54 µg/L).

Isoconcentration contours of these compounds were prepared for the June 2000, January/February 2002, April 2003, June 2004, June 2005, July 2006, August 2007, July 2008, July 2009 and July 2010 data and are presented in Figures 4-3a to 4-3j (1,1-DCA) and Figures 4-4a to 4-4j (1,1,1-TCA). Concentrations of 1,1-DCA found in groundwater for February 2002, April 2003, June 2004, June 2005, July 2006, August 2007, July 2008, July 2009 and July 2010 are considerably less than the levels present in June 2000 in all cases except monitoring wells



LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- 4 1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)
- 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1 DCA June 2000

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

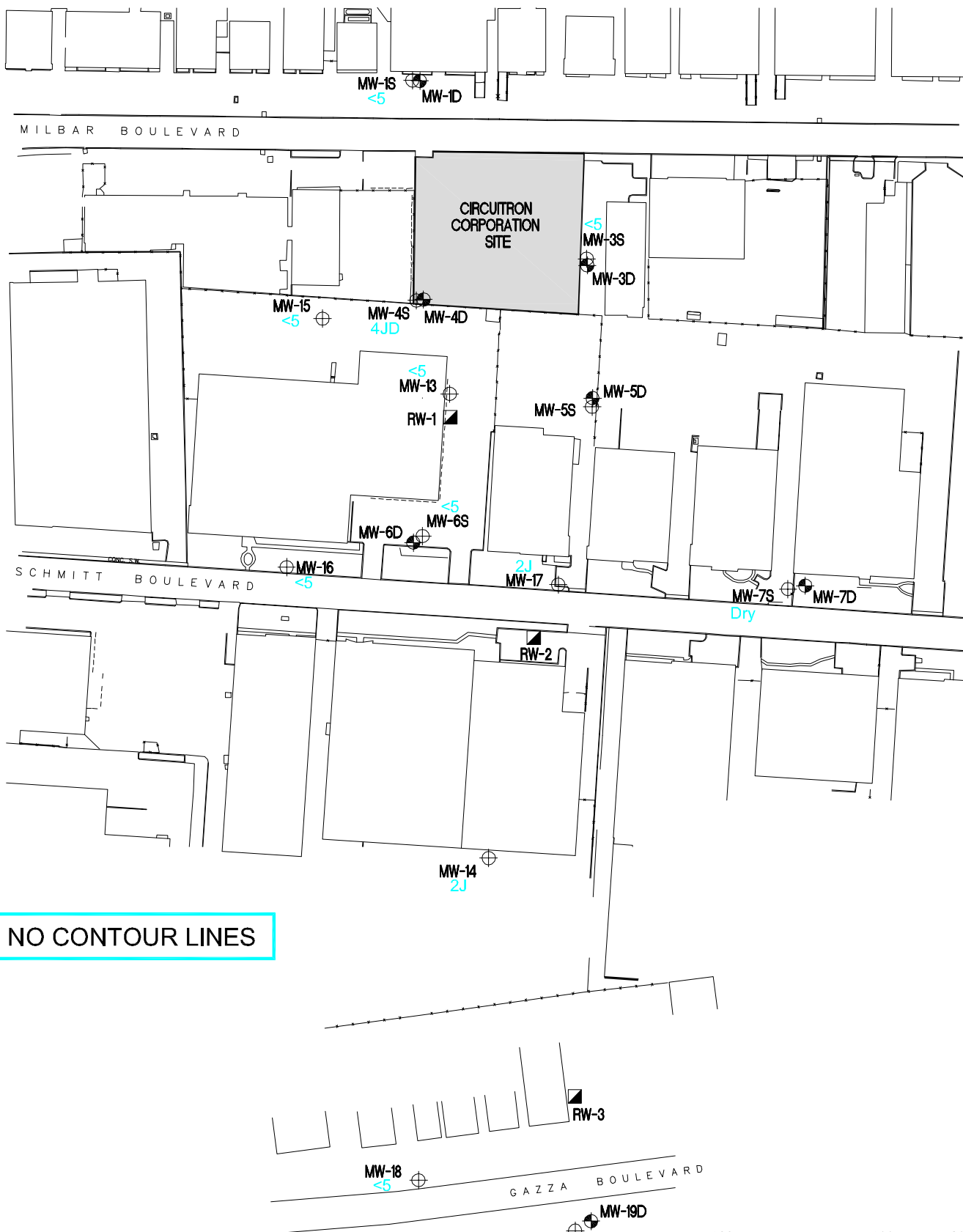
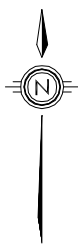
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3a.DWG

DATE: 4-29-03

FIGURE #: 4-3a



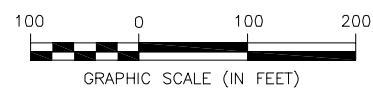
NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- <5 1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

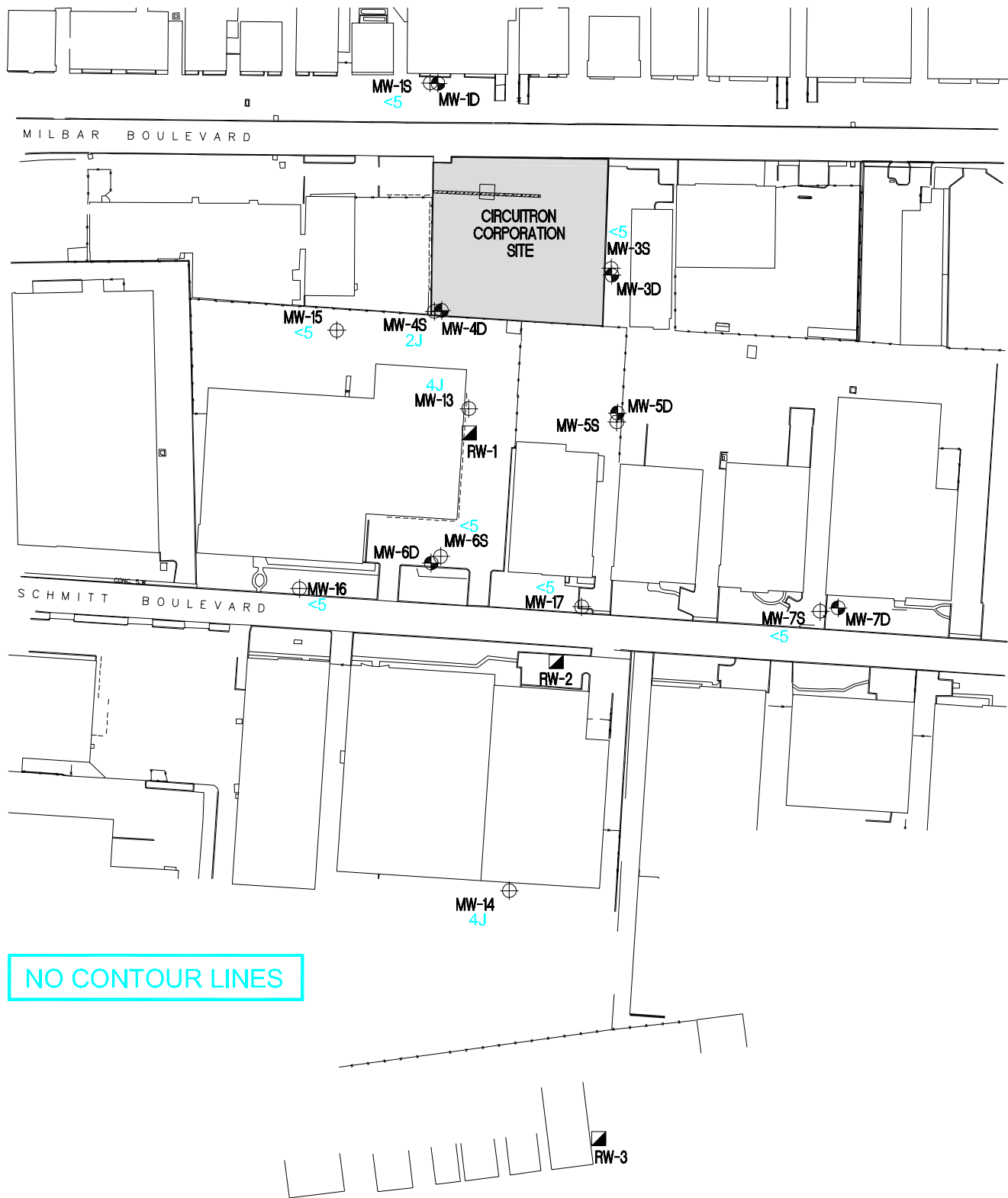


1,1 DCA February 2002

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

Circuitron Corporation Superfund Site
East Farmingdale, New York

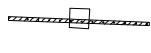
URS



NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL



REINJECTION TRENCH
AND MANHOLE

- 4 1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)
- 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

GAZZA BOULEVARD

MW-19S
4J

MW-19D



GRAPHIC SCALE (IN FEET)

1,1 DCA April 2003

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

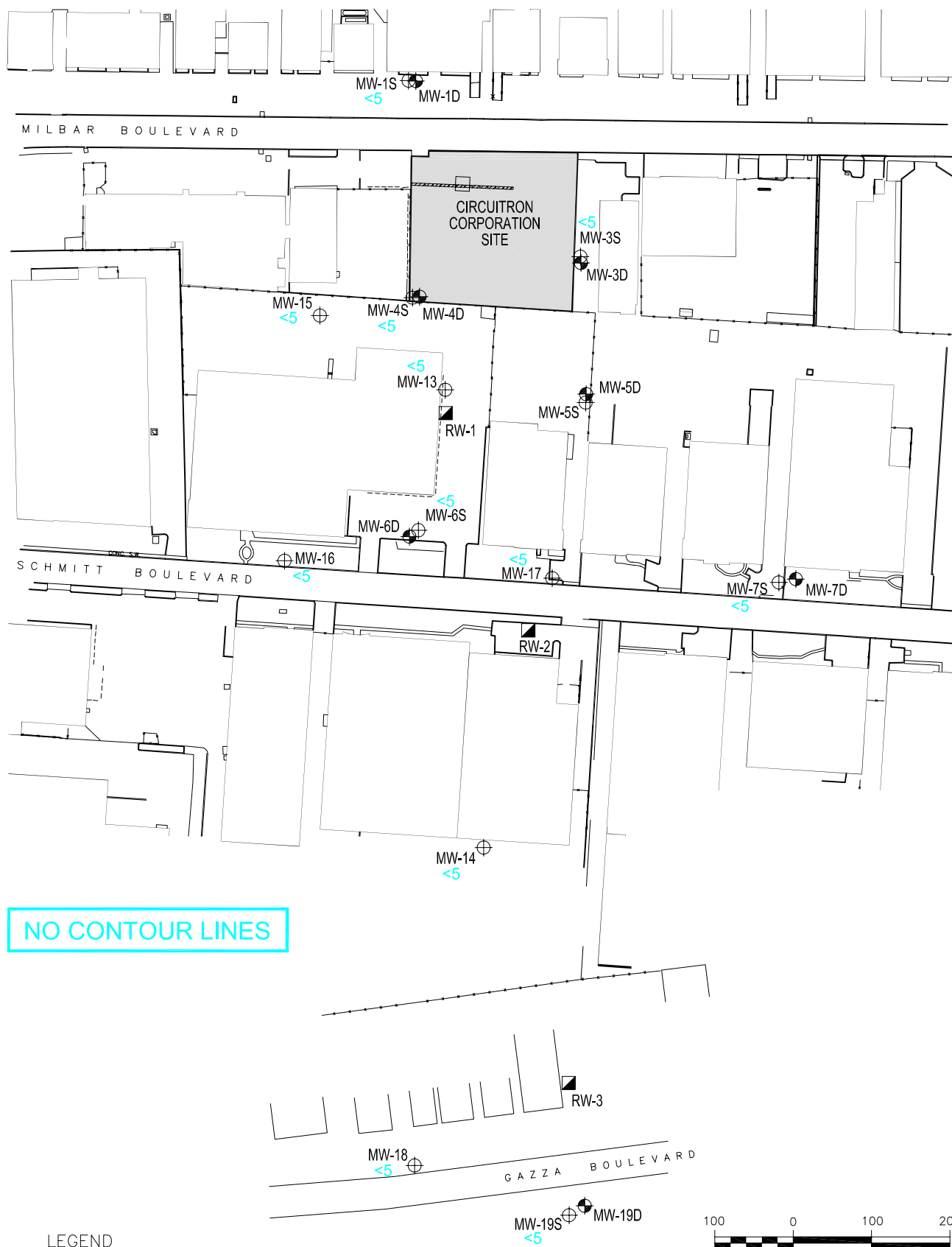
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3c.DWG

DATE: 2-2-04

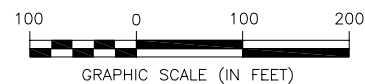
FIGURE #: 4-3c



NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- ▨ REINJECTION TRENCH AND MANHOLE
- 4 1,1 DICHLOROETHANE (1,1 DCA) CONCENTRATION VALUE (ug/L)
- 1,1 DCA CONCENTRATION CONTOUR LINE



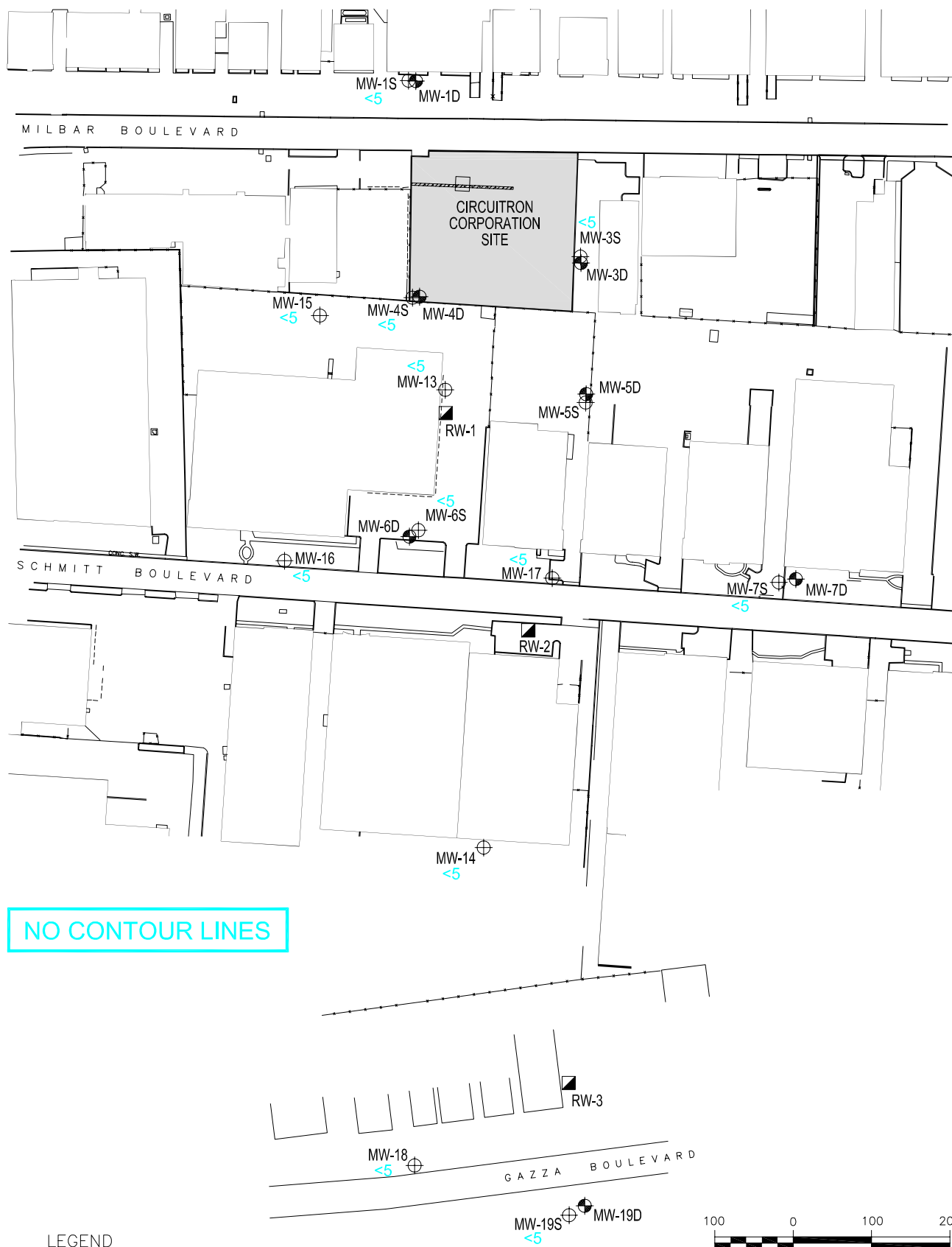
1,1 DCA June 2004
Isoconcentration Map (ug/L)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 4-3d.DWG

DATE: 8-20-04

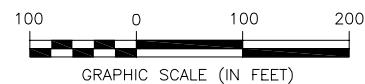
FIGURE #: 4-3d



NO CONTOUR LINES

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- REINJECTION TRENCH AND MANHOLE
- 1,1 DICHLOROETHANE (1,1 DCA) CONCENTRATION VALUE (ug/L)
- 1,1 DCA CONCENTRATION CONTOUR LINE



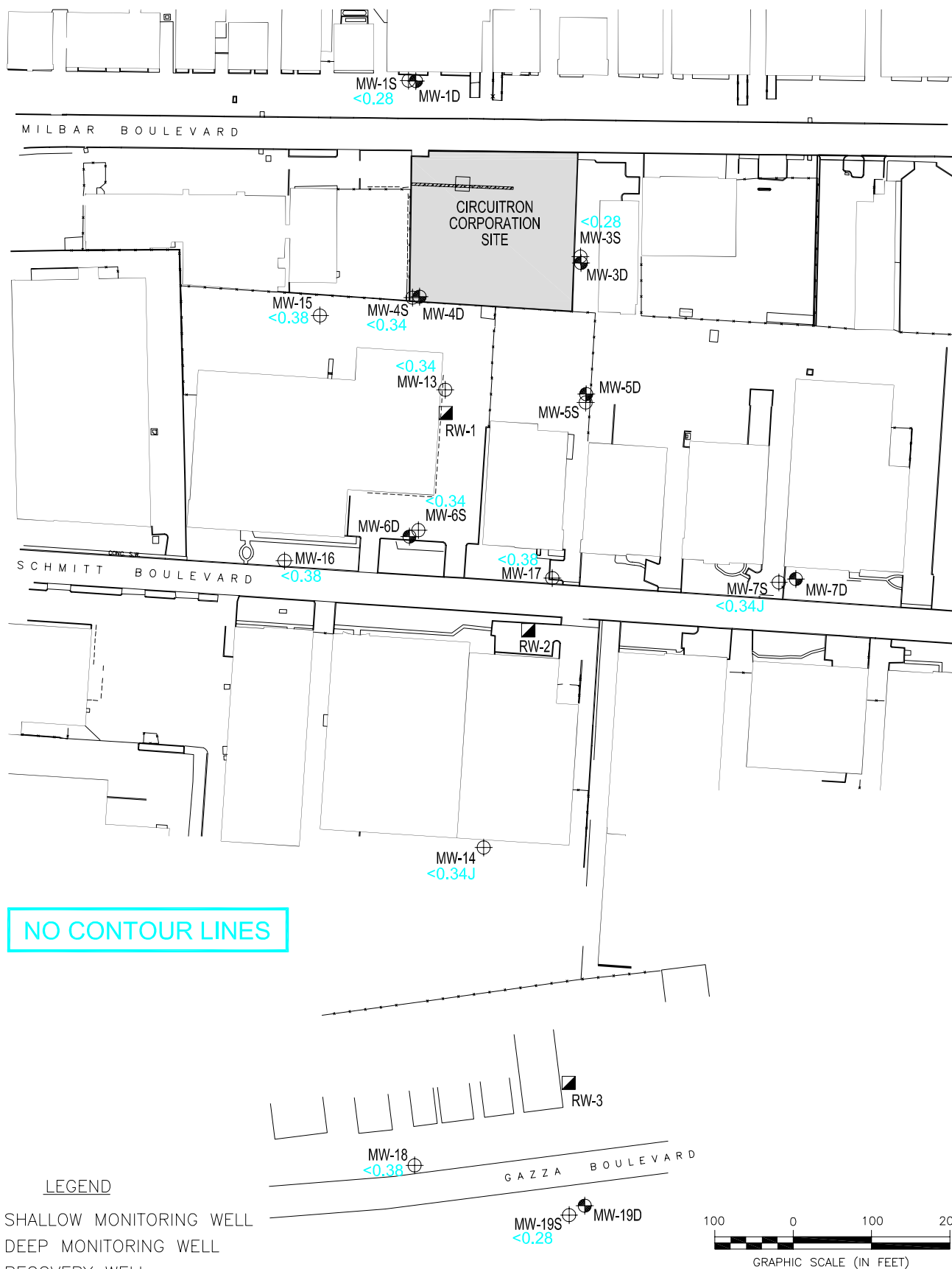
1,1 DCA June 2005
Isoconcentration Map (ug/L)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 4-3e.DWG

DATE: 9-7-05

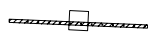
FIGURE #: 4-3e



NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL



REINJECTION TRENCH AND MANHOLE

4 1,1 DICHLOROETHANE (1,1 DCA) CONCENTRATION VALUE (ug/L)

— 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1 DCA July 2006

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

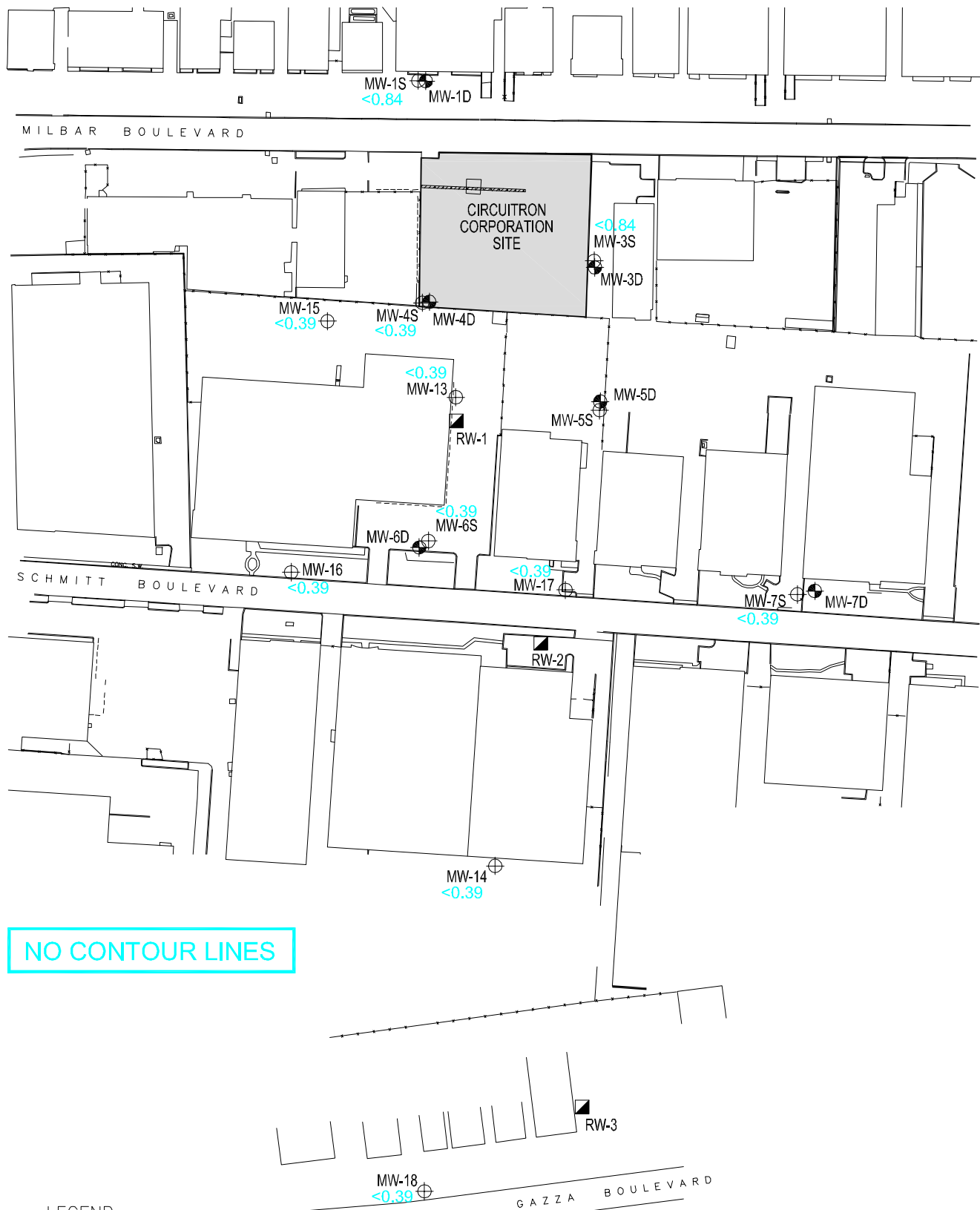
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3f.DWG

DATE: 9-11-06

FIGURE #: 4-3f



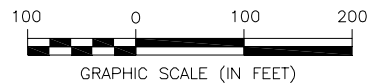
NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- REINJECTION TRENCH AND MANHOLE
- 4 1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)
- 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



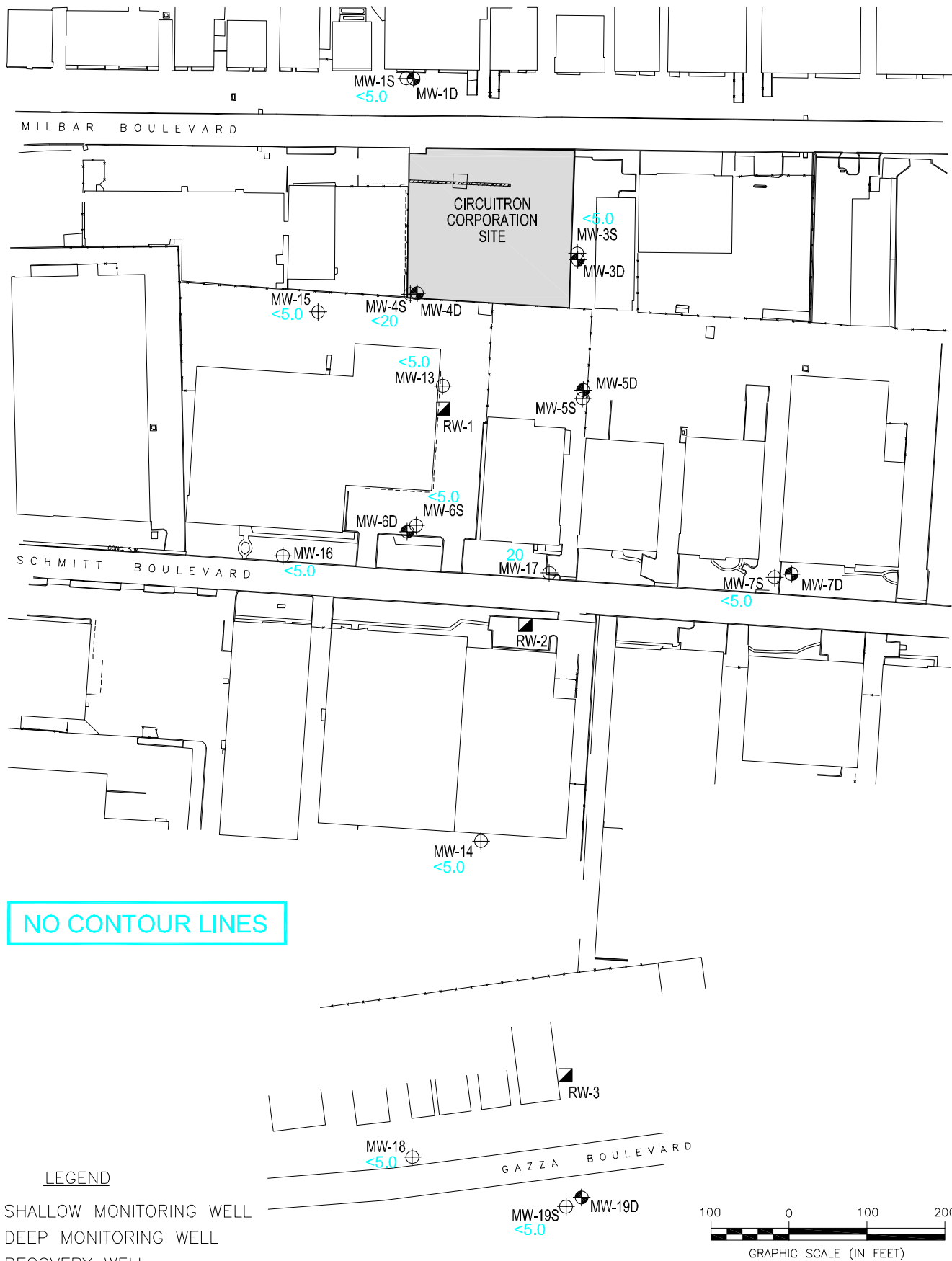
1,1 DCA August 2007
Isoconcentration Map (ug/L)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3g.DWG

DATE: 10-31-07

FIGURE #: 4-3g



NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ⊠ RECOVERY WELL



REINJECTION TRENCH
AND MANHOLE

20 1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)

— 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1 DCA July 2008

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

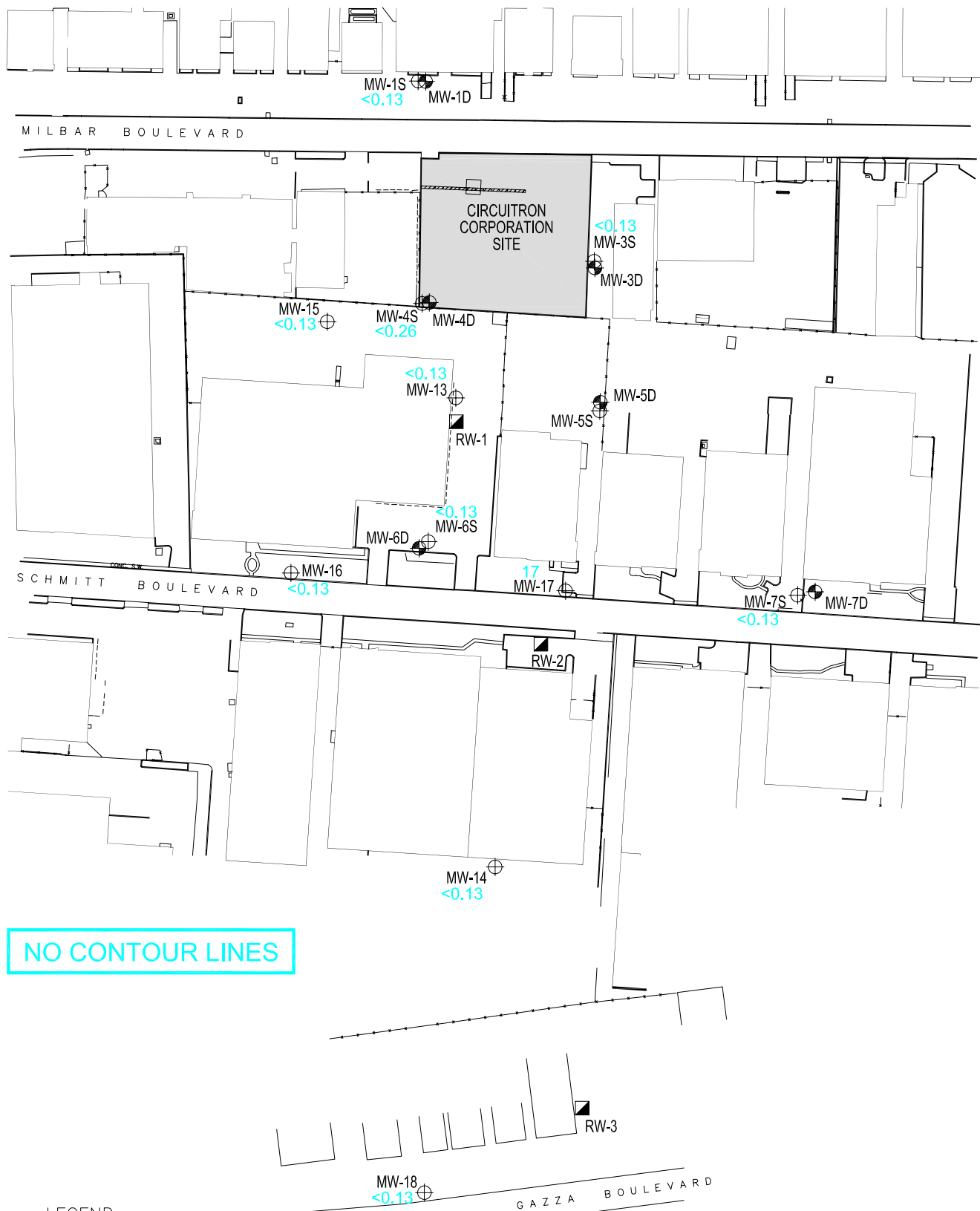
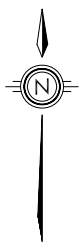
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3h.DWG

DATE: 10-14-08

FIGURE #: 4-3h



NO CONTOUR LINES

LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL



REINJECTION TRENCH
AND MANHOLE

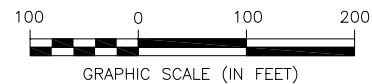
4

1,1 DICHLOROETHANE (1,1 DCA)
CONCENTRATION VALUE (ug/L)

— 1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



GRAPHIC SCALE (IN FEET)

1,1 DCA July 2009

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

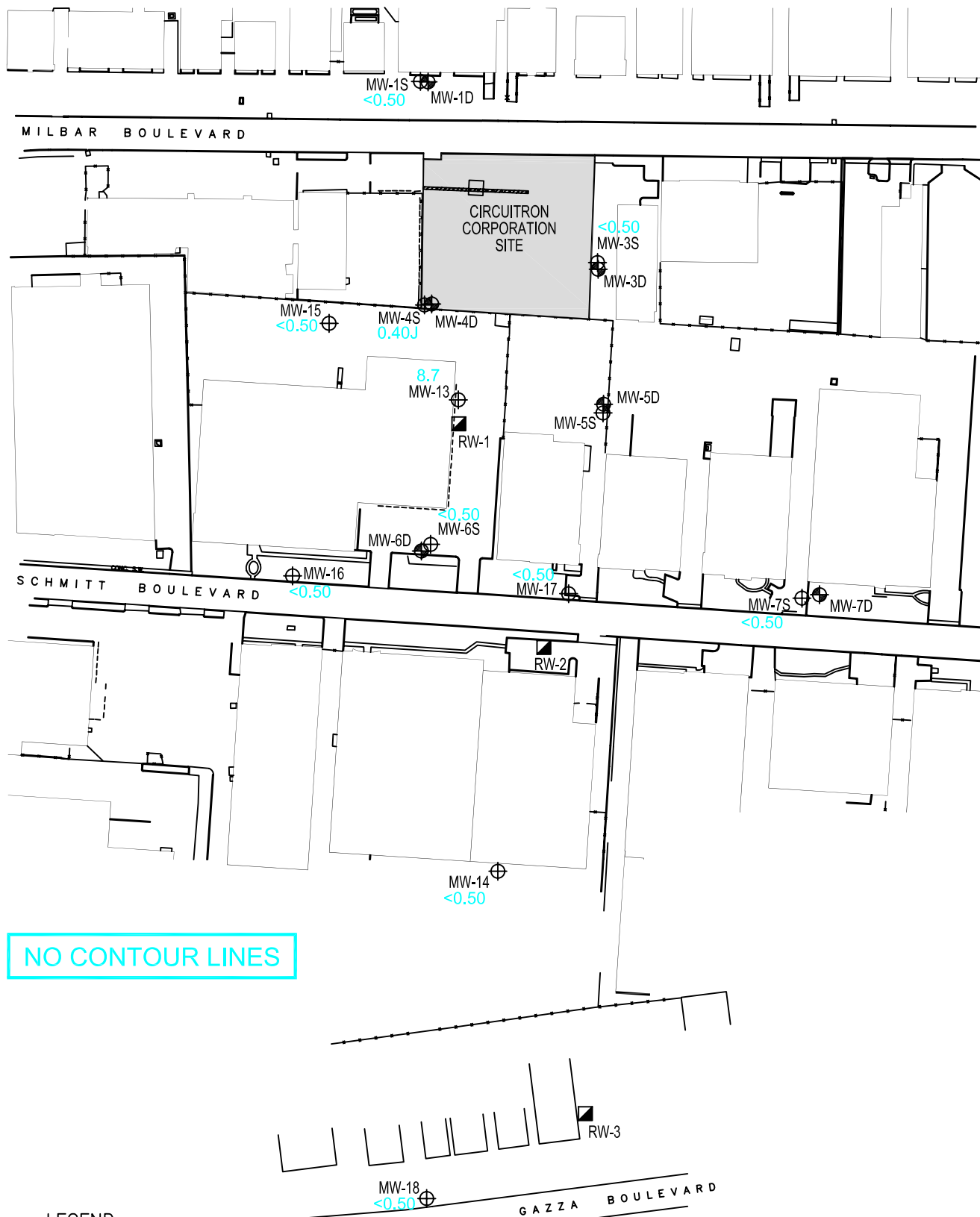
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3i.DWG

DATE: 11-11-09

FIGURE #: 4-3i



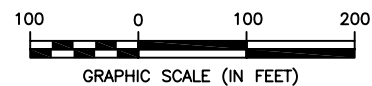
NO CONTOUR LINES

LEGEND

-  SHALLOW MONITORING WELL
-  DEEP MONITORING WELL
-  RECOVERY WELL
-  REINJECTION TRENCH AND MANHOLE
-  1,1 DICHLOROETHANE (1,1 DCA) CONCENTRATION VALUE (ug/L)
-  1,1 DCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



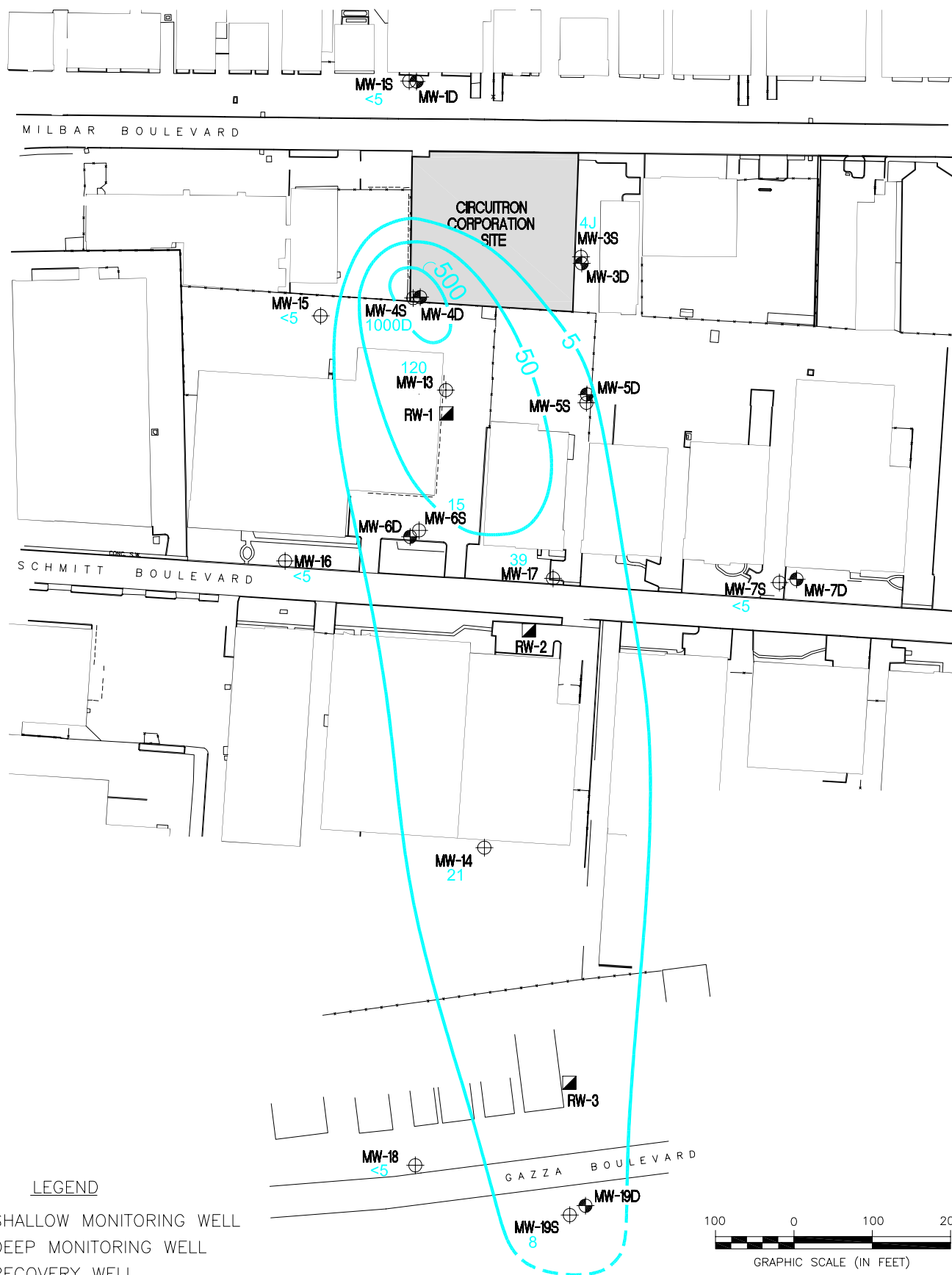
1,1 DCA July 2010
Isoconcentration Map (ug/L)
Upper Glacial Aquifer
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-3j.DWG

DATE: 11-30-10

FIGURE #: 4-3

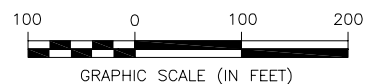


LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ⊠ RECOVERY WELL
- 8 1,1,1 TRICHLOROETHANE (1,1,1 TCA)
CONCENTRATION VALUE (ug/L)
- 1,1,1 TCA CONCENTRATION CONTOUR LINE
(DASHED WHERE INFERRED)

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



1,1,1 TCA June 2000

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-4a.DWG

DATE: 4-29-03

FIGURE #: 4-4a

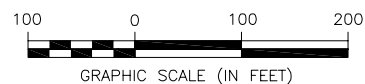


LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊙ DEEP MONITORING WELL
- ▣ RECOVERY WELL
- 15 1,1,1 TRICHLOROETHANE (1,1,1 TCA)
CONCENTRATION VALUE (ug/L)
- 1,1,1 TCA CONCENTRATION CONTOUR LINE

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



1,1,1 TCA JANUARY-FEBRUARY 2002

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

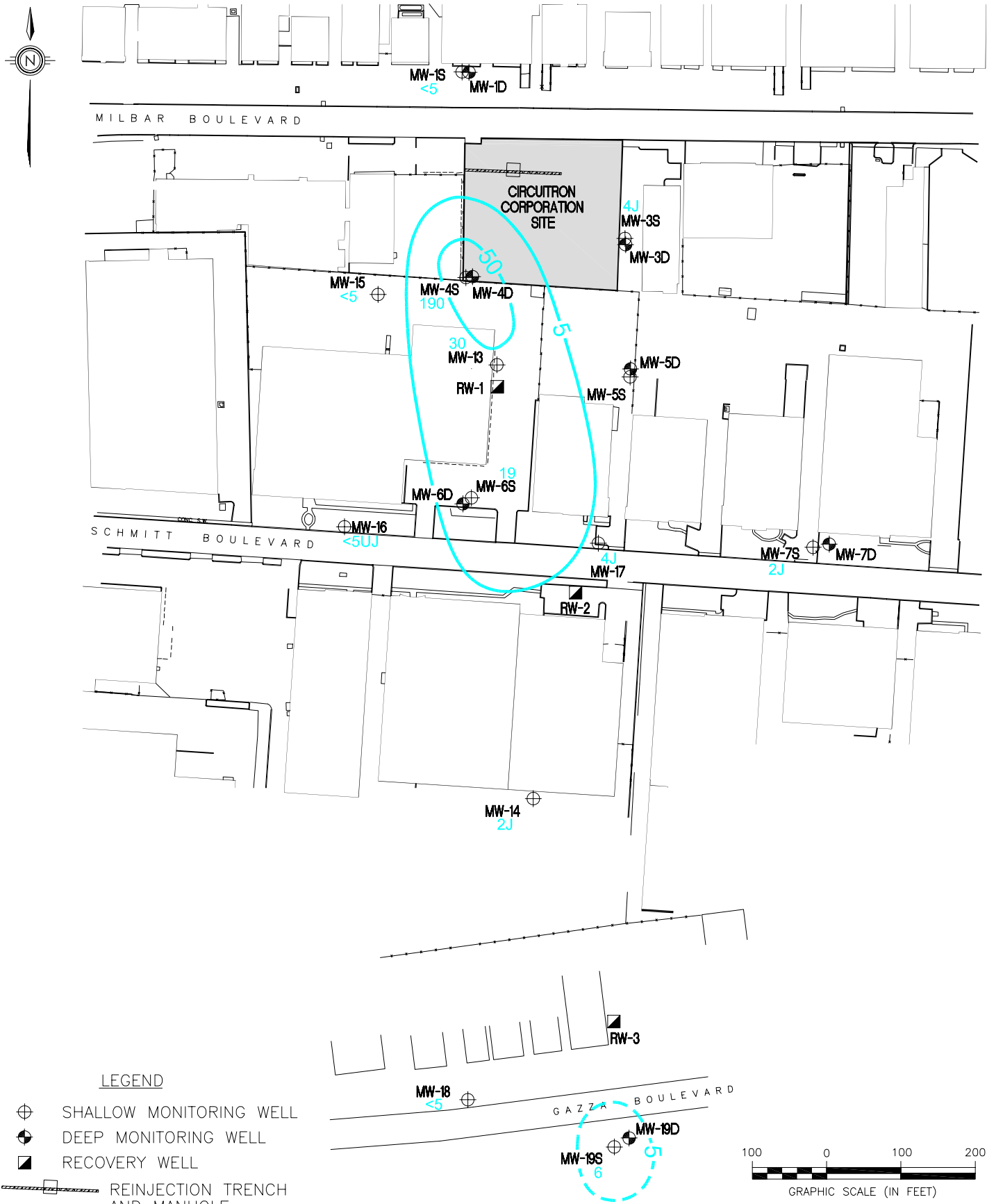
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-4b.DWG

DATE: 4-29-03

FIGURE #: 4-4b



LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL

▬ REINJECTION TRENCH AND MANHOLE

8 1,1,1 TRICHLOROETHANE (1,1,1 TCA) CONCENTRATION VALUE (ug/L)

— 1,1,1 TCA CONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)

QUALIFIERS:

- D RESULTS ARE REPORTED FOR THE DILUTED SAMPLES
- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1,1 TCA April 2003
Isoconcentration Map (ug/L)
Upper Glacial Aquifer

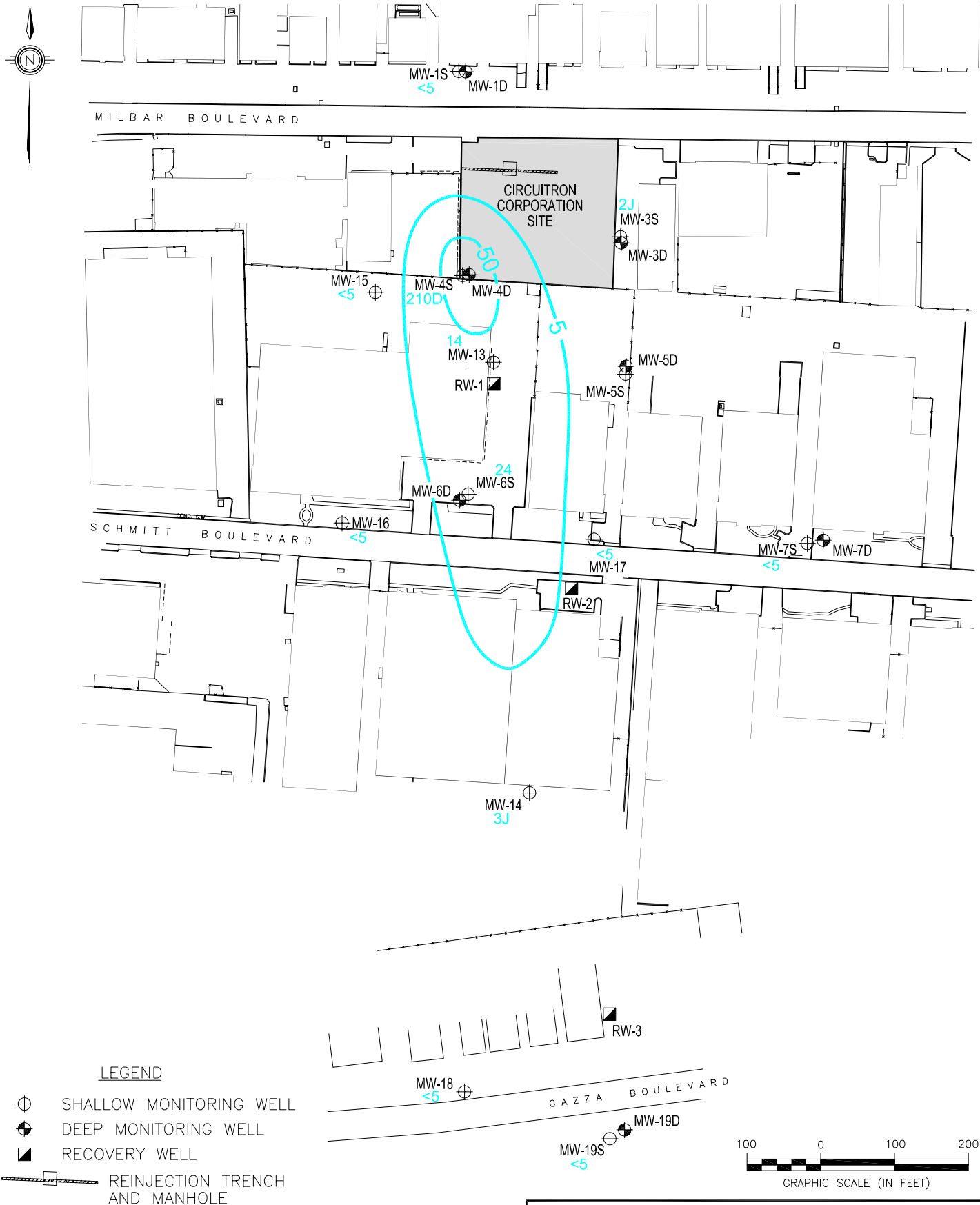
Circuitron Corporation Superfund Site
 East Farmingdale, New York

URS

FILENAME: FIG 4-4c.DWG

DATE: 2-2-04

FIGURE #: 4-4c



1,1,1 TCA June 2004

**Isoconcentration Map (ug/L)
Upper Glacial Aquifer**

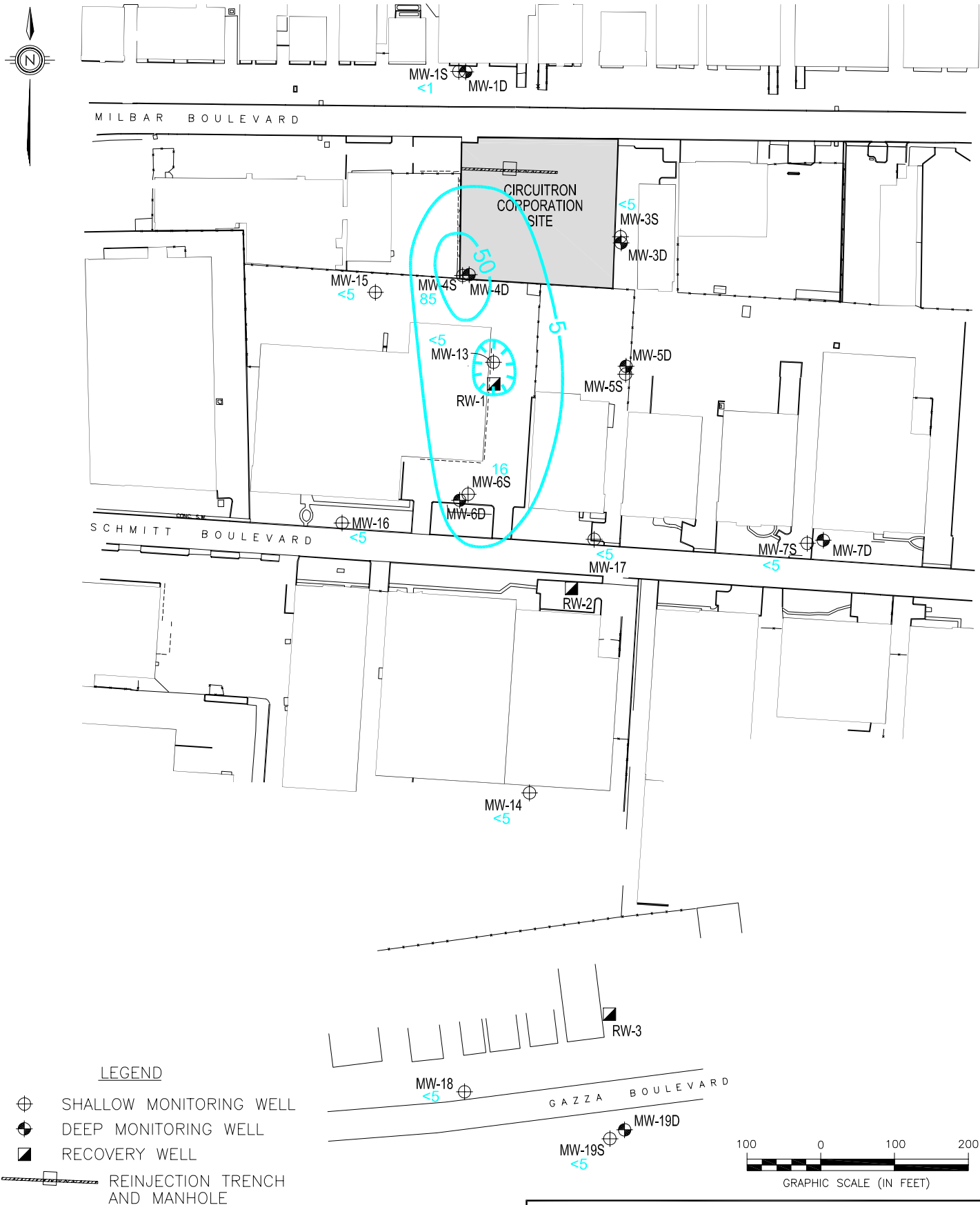
Circuitron Corporation Superfund Site
East Farmingdale, New York

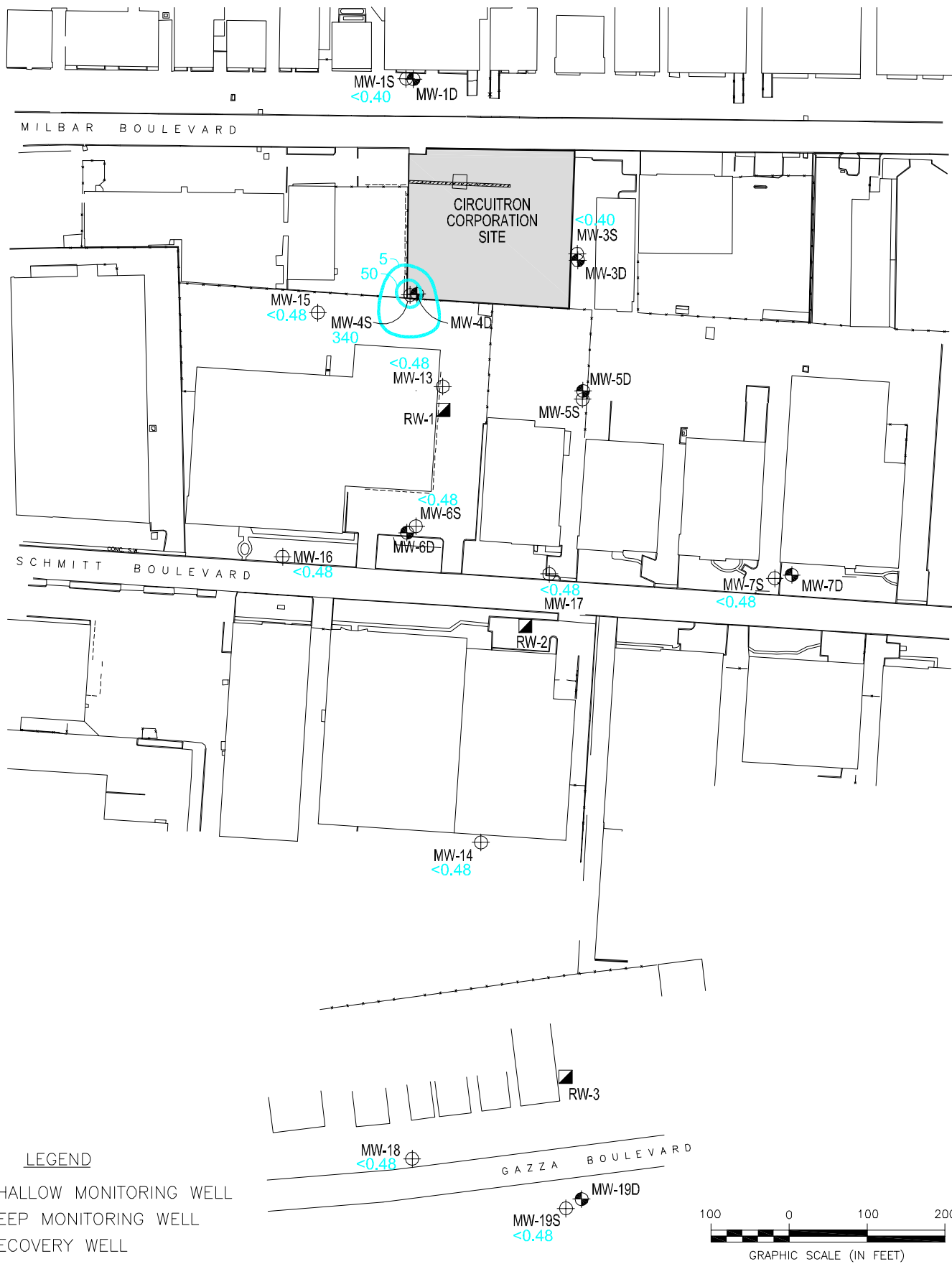
URS

FILENAME: FIG 4-4d.DWG

DATE: 8-20-04

FIGURE #: 4-4d





LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- RECOVERY WELL

— REINJECTION TRENCH AND MANHOLE

8 1,1,1 TRICHLOROETHANE (1,1,1 TCA)
CONCENTRATION VALUE (ug/L)

— 1,1,1 TCA CONCENTRATION CONTOUR LINE
(DASHED WHERE INFERRED)

QUALIFIERS:

J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1,1 TCA August 2007

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

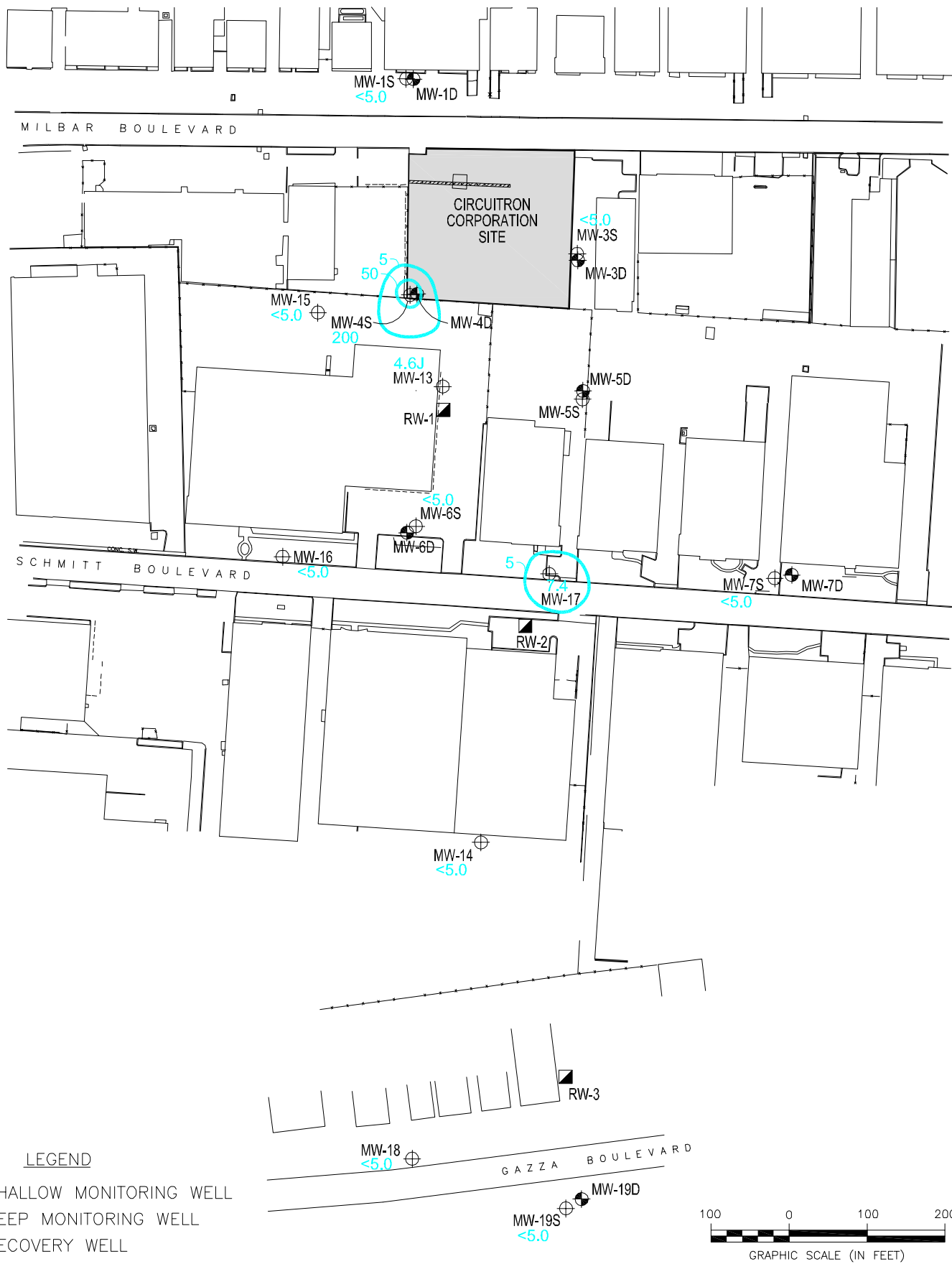
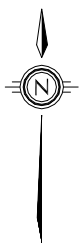
Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-4g.DWG

DATE: 11-29-07

FIGURE #: 4-4g



LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- ▣ RECOVERY WELL

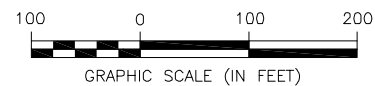
— REINJECTION TRENCH AND MANHOLE

7.4 1,1,1 TRICHLOROETHANE (1,1,1 TCA)
CONCENTRATION VALUE (ug/L)

— 1,1,1 TCA CONCENTRATION CONTOUR LINE
(DASHED WHERE INFERRED)

QUALIFIERS:

- J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY



1,1,1 TCA July 2008

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

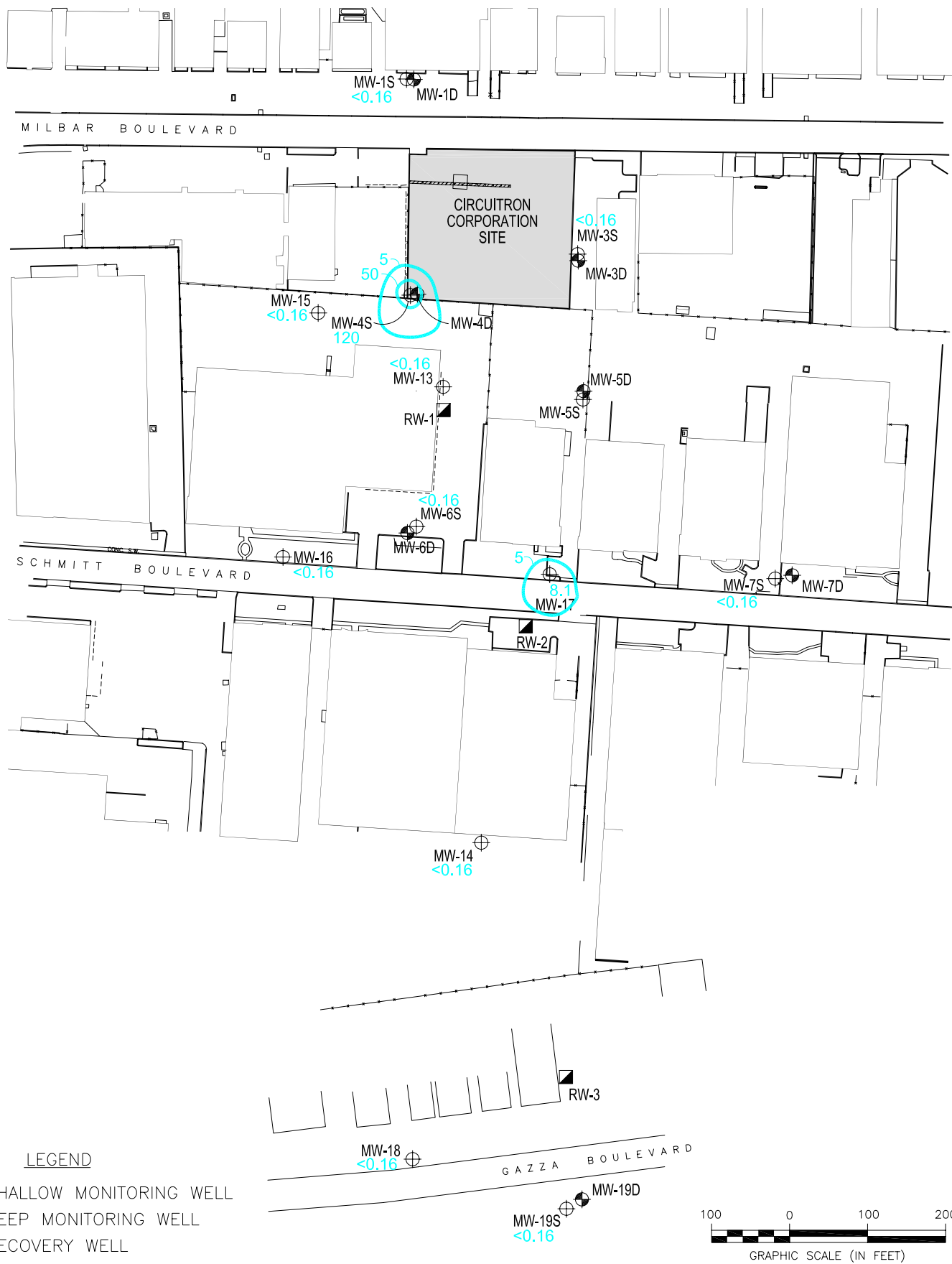
Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 4-4h.DWG

DATE: 10-14-08

FIGURE #: 4-4h



LEGEND

- ⊕ SHALLOW MONITORING WELL
- ⊗ DEEP MONITORING WELL
- RECOVERY WELL

— REINJECTION TRENCH AND MANHOLE

8 1,1,1 TRICHLOROETHANE (1,1,1 TCA)
CONCENTRATION VALUE (ug/L)

— 1,1,1 TCA CONCENTRATION CONTOUR LINE
(DASHED WHERE INFERRED)

QUALIFIERS:

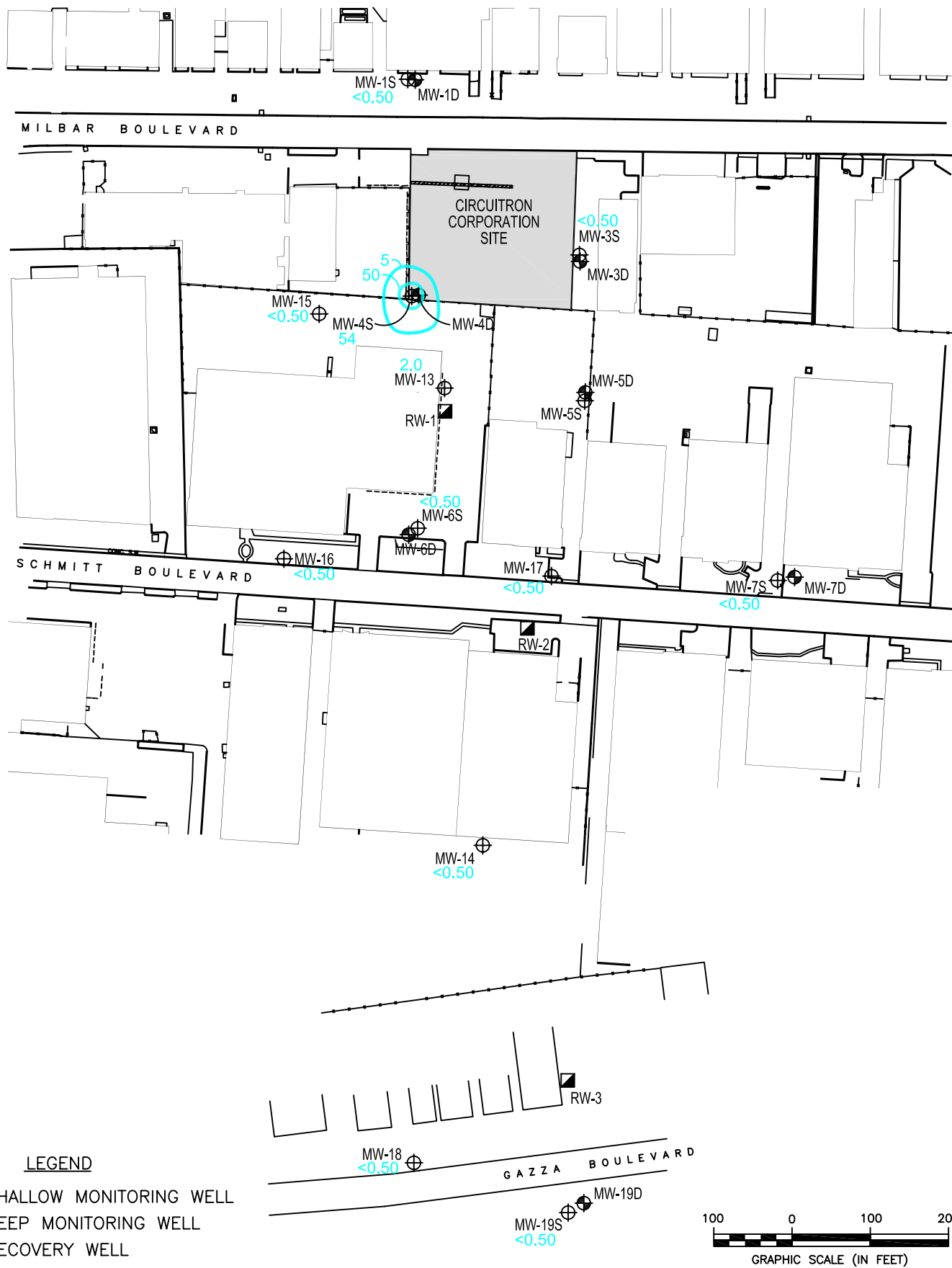
J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

1,1,1 TCA July 2009

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

Circuitron Corporation Superfund Site
East Farmingdale, New York

URS



1,1,1 TCA July 2010

Isoconcentration Map (ug/L)
Upper Glacial Aquifer

Circuitron Corporation Superfund Site
East Farmingdale, New York



FILENAME: FIG 4-4j.DWG

DATE: 11-30-10

FIGURE #: 4-4j

QUALIFIERS:

J ASSOCIATED VALUE IS AN ESTIMATED QUANTITY

MW-13 and MW-17. The MW-13 sample collected during July 2010 had a 1,1-DCA concentration of 8.7 µg/L, which exceeds the action level of 5 µg/L. This was the first detection of 1,1-DCA in MW-13 since 2003. It is also noted that MW-17 was non-detect for 1,1-DCA compared to samples collected in July 2008 and July 2009 of 20 µg/L and 17 µg/L, respectively.

The data from July 2010 indicate all locations (except for well MW-4S) with less than 2 µg/l of 1,1,1-TCA. For the monitoring well MW-4S, the concentration of 1,1,1-TCA has continuously decreased from 340 µg/L in 2007 to 54 µg/L in 2010, which may be due to the localized treatment conducted by USEPA. While very slight variations might be detected from year to year, the significant reductions in the mass of 1,1,1-TCA dissolved in groundwater are evidence that the remediation system has been effective in capturing this constituent in the shallow groundwater at the Site.

The July 2010 data indicate that only wells MW-4S and MW-13 exhibited levels of VOCs exceeding NY Water Quality Criteria (Figure 4-1a). Overall, historical results indicate the success of the remediation system at capturing VOCs in the shallow portion of the Upper Glacial Aquifer. Groundwater obtained from well MW-4S historically showed greater levels of VOCs than any other monitoring wells (Figure 4-1a). Levels of VOCs (1,1-DCA, 1,1-DCE, 1,1,1-TCA, PCE) detected in groundwater from this well have all declined since October 2000. As noted in Section 1.5, localized treatment (SVE pilot test) around MW-4S was initiated in August 2007 by the USEPA, and operations are presently ongoing in the area of the Site.

4.3.2 VOC Exceedances in Deep Wells

Figure 4-2a and Table 4-1 provide a summary of the exceedances of VOCs present in groundwater samples from the deep wells in the period from June 2000 through July 2010. These data show that multiple exceedances of 1,1-DCA, 1,1-DCE, 1,1,1-TCA, PCE, TCE, 1,2-dichloroethene (total) (1,2-DCE), and methylene chloride had historically been observed in groundwater from various deep wells in various years. The overall trend is towards lower or non-detectable concentrations of VOCs across the entire Site. In fact, it should be noted that none of the deep wells exhibited any VOC exceedances in the July 2010 sampling event.

The historical data show that multiple exceedances of 1,1-DCE, 1,1,1-TCA, PCE and TCE were present in groundwater from upgradient well MW-1D, indicating these specific compounds are non site-related. These same compounds were also shown to have multiple

exceedances in groundwater from downgradient well MW-19D, indicating these compounds had been being transported in deeper groundwater across the Site. As aforementioned, both MW-1D and MW-19D showed no exceedances in the July 2010 sampling event, and MW-19D was non-detect for all analyzed chlorinated organics. Appendix A-2 contains the historical summary data for each monitoring well.

Figure 4-5 presents these VOCs in a cross-sectional view and shows data for wells screened in the Upper Glacial Aquifer and the deeper Magothy Aquifer for select dates from baseline through the July 2010 sampling events. With the exception of MW-4S and MW-13, no exceedances are currently observed within the shallow portion of the Upper Glacial Aquifer in the direction of groundwater flow and downgradient of the former source area (i.e., MW-4S). Within the deeper portion of the aquifer, non site-related impacts from upgradient of the Site have also apparently decreased. It is also noted that it is apparent that the PCE and TCE detected in groundwater in the Magothy Aquifer are being transported within the Magothy Aquifer under the Site, and that these compounds originate from a source upgradient of the subject property.

Multiple exceedances of 1,2-DCE were observed in groundwater from downgradient well MW-19D through July 2006. 1,2-DCE is a daughter-product of natural biodegradation of PCE and TCE (both of which were observed as exceedances in groundwater from upgradient well MW-1D); therefore, 1,2-DCE is not considered a site-related compound.

1,1-DCA, detected as multiple exceedances in groundwater from MW-7D through June 2004, is a daughter-product of natural biodegradation of 1,1,1-TCA. 1,1,1-TCA was observed as an exceedance in groundwater from upgradient well MW-1D; therefore, 1,1-DCA is not considered a site-related compound.

Methylene chloride and acetone are believed not to be representative of groundwater contamination due to their widespread detections in method blank samples, and therefore, these data were not evaluated in this report.

4.4 Geochemical Time-Series Graphs

Trends in groundwater quality over time are apparent in geochemical time-series graphs prepared for each monitoring well. Time-series graphs were prepared by plotting concentration levels versus time for select compounds detected in groundwater samples collected

NORTH

SOUTH

APPROXIMATE EXISTING
GRADE ELEVATION 86.00'

℄ MILBAR BLVD.→

CORPORATION
SITE

MW-1S
MW-1D

MW-4S
MW-4D

MW-15 (PROJECTED)

MW-13

℄ SCHMITT BLVD.→

MW-6S
MW-6D
MW-16 (PROJECTED)
MW-17 (PROJECTED)

MW-14

MW-18

MW-19D
MW-19S

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	<5	<-0.39	<5	<-0.13	<-0.50
1,1-DCE	<5	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	15	<-0.48	<5	<-0.16	<-0.50
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.20	0.27J

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	<5	<-0.39	20	16	<-0.50
1,1-DCE	<5	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	39	<-0.48	7.4	8.1	<-0.50
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.11	<-0.50

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	<5	<-0.39	<5	<-0.13	<-0.50
1,1-DCE	<5	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	<5	<-0.48	<5	<-0.16	<-0.50
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.11	0.15J

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	<5	<-0.39	<5	<-0.13	<-0.50
1,1-DCE	<5	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	<5	<-0.48	<5	<-0.16	<-0.50
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.11	<-0.50

ELEVATION, FT.

UPPER GLACIAL
AQUIFER

WATER TABLE
(APPROXIMATE)

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	14JD	<-0.39	<20	<-0.25	0.48J
1,1-DCE	40JD	<-0.61	<20	<-0.38	<-0.50
1,1,1-TCA	1000D	340	200	120	54
PCE	13JD	6.6	<20	2.7	0.98
TCE	<5	<-0.58	<20	<-0.77	0.24J

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	14	<-0.39	<5	<-0.13	8.7
1,1-DCE	8	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	120	<-0.48	4.6J	<-0.16	2.0
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.11	0.31J

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	<5	<-0.39	<5	<-0.13	<-0.50
1,1-DCE	<5	<-0.61	<5	<-0.20	<-0.50
1,1,1-TCA	<5	<-0.48	<5	<-0.16	<-0.50
PCE	11	<-0.44	<5	0.20J	<-0.50
TCE	14	<-0.58	<5	<-0.11	<-0.50

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	4J	2.3J	<5	0.41J	0.38J
1,1-DCE	5J	5.3	1.3J	0.67	0.32J
1,1,1-TCA	10	<-0.48	1.2J	<-0.16	<-0.50
PCE	3J	1.3J	<5	0.42J	<-0.50
TCE	8	4.9J	1.5J	0.99	1.1

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	6	<-0.39	<5	0.28J	<-0.50
1,1-DCE	1J	<-0.61	<5	<-0.19	<-0.50
1,1,1-TCA	8	<-0.48	<5	<-0.16	<-0.50
PCE	<5	<-0.44	<5	<-0.11	<-0.50
TCE	<5	<-0.58	<5	<-0.11	0.30J

Analyte	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	3J	<-0.39	4.0J	3.7J	<-0.50
1,1-DCE	14	<-0.61	40	*28J	<-0.50
1,1,1-TCA	23	<-0.48	32	*18	<-0.50
PCE	46	<-0.44	7.2	4.0	<-0.50
TCE	40	<-0.58	40	*3.5J	<-0.50

Analyte	Feb-94	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	0.70J	<5	<-0.84	<5	<-0.13	<-0.50
1,1-DCE	<1	<5	<-0.96	<5	<-0.19	<-0.50
1,1,1-TCA	0.40 J	<5	<-0.40	<5	<-0.16	<-0.50
PCE	<1	<5	<-0.78	<5	0.74	<-0.50
TCE	<1	<5	<-0.37	<5	<-0.11	<-0.50

Analyte	May-93	Feb-94	Jun-00	Aug-07	Jul-08	Jul-09	Jul-10
1,1-DCA	4J	6	5J	<-0.84	<5	<-0.13	<-0.50
1,1-DCE	31J	24	9	15J	<5	2	0.73
1,1,1-TCA	84J	99	16	<-0.40	<5	1	0.42J
PCE	38J	18	5J	<-0.78	<5	<-0.11	0.17J
TCE	76J	82	13	1.6J	<5	1.4	0.82

LEGEND:

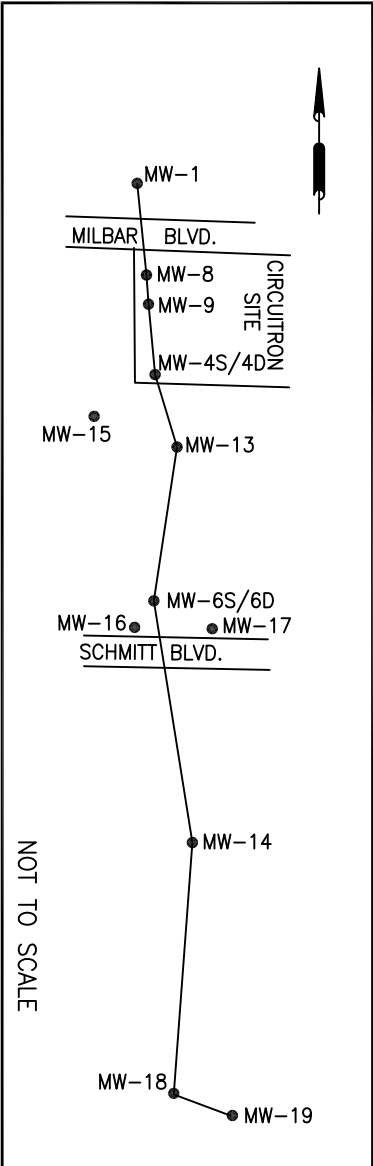
76J BOLDED VALUES EXCEED ACTION LEVEL

UNCONFORMABLE GEOLOGIC FORMATION CONTACT

MONITORING WELL SCREENED INTERVAL

1,1-DCE 1,1 DICHLOROETHENE (ug/L)
1,1,1-TCA 1,1,1 TRICHLOROETHANE (ug/L)
PCE TETRACHLOROETHENE (ug/L)
TCE TRICHLOROETHENE (ug/L)
J ESTIMATED CONCENTRATION
< NOT DETECTED IN EXCESS OF STATED METHOD DETECTION LIMIT

NOTES:
* VALUES MARKED WITH ASTERISK ARE THE ARITHMETIC
MEAN OF NORMAL AND DUPLICATE SAMPLES
FOR JUNE 2004, DIFFUSION BAG SAMPLING WAS PERFORMED:
T-TOPMOST BAG: B-BOTTOM BAG
FOR MW-4S IN JUNE 2004, DIFFUSION BAG (DB) & LOW FLOW (LF) SAMPLES
WERE COLLECTED AS PER USEPA'S REQUEST.



Cross-section

Circuitron Corporation Superfund Site
East Farmingdale, New York

URS

FILENAME: FIG 4-5.DWG

DATE: 12-01-10 FIGURE #: 4-5

NOTE: NOT TO SCALE

during the period extending from June 2000 through July 2010. Time-series graphs and the associated data are presented in Appendix B.

- In general, the time-series graphs show either slight decrease or no change in concentrations of VOCs detected in groundwater from the shallow wells over the Performance Monitoring Period up through July 2007, with a rather significant increase in July 2008 and a rather significant decrease in July 2009 and July 2010. This increase on the time-series graphs apparently is attributable to the low method detection limits achieved during other sampling events as compared to the relatively higher detection limit achieved during the July 2008 sampling event. All compounds exhibited lower concentrations in 2010 sampling event where the method detection limit was low, except for 1,1-DCA in MW-13, which has a noted increase from non-detect in previous 3 years to 8.7 µg/l. Considering the detection limit issue, the overall trend appears to be a consistent decrease over the entire Performance Monitoring Period, especially during the latest two years (2009 and 2010). Continued monitoring will be conducted to evaluate the significance, if any, of these results.
- The graphs also show an apparent increase in concentration of VOCs detected in some deep wells and a consistent decrease in other wells over the Performance Monitoring Period. As noted above, the increase may be attributed to the relatively higher detection limit achieved during the July 2008 sampling event. Considering the detection limit issue, the overall trend appears to be slight decrease over the Performance Monitoring Period.

The difference in trends observed in VOC levels between the shallow and the deep groundwater is potentially attributable to the remediation system treating groundwater from the shallow zone, while leaving the deeper zone unaffected.

Trends over time in the levels of compounds observed as exceedances in groundwater from downgradient shallow well MW-19S are also useful to evaluate the effectiveness of the remediation system. No VOC compounds have been detected as exceedances in groundwater from MW-19S since 6 µg/L of 1,1,1-TCA (a non-site related constituent) was detected in April 2003. Therefore, the time-series graph for MW-19S further demonstrates that the remediation system has been effective in mitigating the VOC compounds.

Additionally, trends over time in the levels of compounds observed as exceedances in groundwater from downgradient well MW-19D indicate that the attenuation and degradation of these compounds continue as the non-site related deep groundwater plume migrates across the Site.

Table 4-1. Site-Related and Non Site-Related Compounds, Circuitron Corporation Superfund Site

(Page 1 of 4)

Media	Location	Compound	Number of Exceedance Occurrences	Site-Related	Rationale ⁽¹⁾
Shallow Groundwater	MW-1S (Upgradient well)	1,1 Dichloroethene	1	No	These four compounds were not observed as exceedances prior to remediation system startup.
		1,1,1 Trichloroethane	1	No	
		Tetrachloroethene	1	No	
		Trichloroethene	1	No	
		Methylene chloride	1	No	Method blank artifact
	MW-3S	Iron	8	No	Baseline exceedance in MW-1S
		Manganese	6	No	Baseline exceedance in MW-1S
		1,1,1 Trichloroethane	2	Yes	
		Iron	6	No	Baseline exceedance in MW-1S
	MW-4S	1,1 Dichloroethene	4	Yes	
		1,1 Dichloroethene	2	Yes	
		1,1,1 Trichloroethane	15	Yes	
		Tetrachloroethene	10	Yes	
		Methylene chloride	3	No	Method blank artifact
	MW-6S	Chromium	5	Yes	
		Iron	5	No	
		1,1 Dichloroethene	1	Yes	
		1,1,1 Trichloroethane	10	Yes	
		Methylene chloride	2	No	Method blank artifact
	MW-7S	Antimony	1	No	Single exceedance
		Chromium	3	Yes	Baseline exceedance in MW-1S
		Iron	3	No	
		Methylene chloride	1	No	
		Chromium	2	Yes	
	MW-13	Iron	3	No	Baseline exceedance in MW-1S
		1,1 Dichloroethene	6	Yes	
		1,1 Dichloroethene	2	Yes	
		1,1,1 Trichloroethane	10	Yes	
		Methylene chloride	1	No	Method blank artifact
	MW-13	Chlorobenzene	1	No	Single exceedance
		Iron	*6	No	Baseline exceedance in MW-1S
		Manganese	1	No	Baseline exceedance in MW-1S

Table 4-1. Site-Related and Non Site-Related Compounds, Circuitron Corporation Superfund Site

(Page 2 of 4)

Media	Location	Compound	Number of Exceedance Occurrences	Site-Related	Rationale ⁽¹⁾
Shallow Groundwater (Continued)	MW-14	1,1,1 Trichloroethane	6	Yes	
		Methylene chloride	1	No	Method blank artifact
		Iron	6	No	Baseline exceedance in MW-1S
	MW-15	Manganese	3	No	Baseline exceedance in MW-1S
		1,2 Dichloroethane (total)	3	Yes	
		Tetrachloroethene	2	Yes	
		Trichloroethene	1	Yes	
	MW-16	Iron	6	No	Baseline exceedance in MW-1S
		Manganese	5	No	Baseline exceedance in MW-1S
		Arsenic	1	No	Single exceedance
		Iron	6	No	Baseline exceedance in MW-1S
	MW-17	Lead	1	No	Single exceedance
		Manganese	5	No	Baseline exceedance in MW-1S
		1,1 Dichloroethane	3	Yes	
		1,1,1 Trichloroethane	9	Yes	
	MW-18	1,1,2 Trichloroethane	2	Yes	
		Methylene chloride	1	No	Method blank artifact
		Chromium	1	No	Single exceedance
		Iron	6	No	Baseline exceedance in MW-1S
	MW-19S	Lead	1	No	Single exceedance
		Manganese	2	No	Baseline exceedance in MW-1S
		Methylene chloride	4	No	Method blank artifact
		Chromium	2	Yes	
	MW-19S	Iron	6	No	Baseline exceedance in MW-1S
		Lead	1	No	Single exceedance
		Manganese	6	No	Baseline exceedance in MW-1S
		Mercury	1	No	Single exceedance

Table 4-1. Site-Related and Non Site-Related Compounds, Circuitron Corporation Superfund Site

(Page 3 of 4)

Media	Location	Compound	Number of Exceedance Occurrences	Site-Related	Rationale ⁽¹⁾
Deep Groundwater	MW-1D (Upgradient well)	1,1 Dichloroethane	1	No	Upgradient well
		1,1 Dichloroethene	12	No	
		1,1,1 Trichloroethane	12	No	
		Tetrachloroethene	*5	No	
		Trichloroethene	9	No	
		Methylene chloride	2	No	
	MW-3D	Chromium	5	No	Upgradient well
		Iron	8	No	
		Lead	1	No	
		Methylene chloride	1	No	
		Chromium	3	No	
		Iron	4	No	
	MW-4D	Manganese	1	No	Method blank artifact
		1,1 Dichloroethane	1	No	
		1,1 Dichloroethene	9	No	
		1,1,1 Trichloroethane	10	No	
		Tetrachloroethene	2	No	
		Trichloroethene	8	No	
	MW-5D	Methylene chloride	2	No	Baseline exceedance in MW-1D
		Iron	*6	No	
		Chromium	5	No	
		Iron	5	No	
		Nickel	5	No	
		Manganese	6	No	
	MW-6D	Methylene chloride	2	No	Method blank artifact
		Iron	4	No	
		Chromium	5	No	
		Iron	5	No	
		Nickel	5	No	
		Manganese	6	No	

Table 4-1. Site-Related and Non Site-Related Compounds, Circuitron Corporation Superfund Site

(Page 4 of 4)

Media	Location	Compound	Number of Exceedance Occurrences	Site-Related	Rationale ⁽¹⁾
Deep Groundwater (Continued)	MW-7D	1,1 Dichloroethane	6	No	Biodegradation product of 1,1,1-TCA
		1,1 Dichloroethene	1	No	Baseline exceedance in MW-1D
		1,1,1 Trichloroethane	2	No	Baseline exceedance in MW-1D
		Trichloroethene	1	No	Baseline exceedance in MW-1D
		Methylene chloride	2	No	Method blank artifact
		Iron	*3	No	Baseline exceedance in MW-1D
	MW-19D	1,1 Dichloroethene	14	No	Baseline exceedance in MW-1D
		1,1,1 Trichloroethane	14	No	Baseline exceedance in MW-1D
		1,2 Dichloroethene (total)	10	No	Biodegradation product of PCE and TCE
		Tetrachloroethene	14	No	Baseline exceedance in MW-1D
		Trichloroethene	14	No	Baseline exceedance in MW-1D
		Chloroform	6	No	Biodegradation product of 1,1,1-TCA
		Methylene chloride	4	No	Method blank artifact
		Chromium	3	No	Baseline exceedance in MW-1D
		Iron	6	No	Baseline exceedance in MW-1D
		Lead	4	No	Baseline exceedance in MW-1D
		Manganese	5	No	Not site-related in shallow aquifer
		Nickel	1	No	Single exceedance

Notes: Data considered in this table includes volatile organics through July 2010 and inorganics through April 2003. With concurrence from the USEPA, metals analysis was discontinued prior to the June 2004 sampling event.

(1) Rationale:

Method blank artifact: The compound was detected in several method blanks and will not be considered site-related.

Baseline exceedance in MW-1S: The compound was observed to exceed action levels prior to remediation system startup in groundwater samples collected from the upgradient well and will not be considered site-related.

Single exceedance: The compound was observed as an exceedance in groundwater collected from a site well during only one sampling event and will not be considered site related.

Upgradient well: If a compound is observed exceeding action levels in this well, the compound will not be considered site-related in any downgradient well.

Baseline exceedance in MW-1D: The compound was observed to exceed action levels prior to remediation system startup in groundwater samples collected from the upgradient well and will not be considered site-related.

Not site-related in shallow aquifer: If a compound is determined to be non site-related in the shallow groundwater, it will not be considered site-related in deeper groundwater.

Biodegradation product: The compound is a biodegradation product of a compound that has been determined non site-related.

* Values that appear with an asterisk indicate that a duplicate sample showed a detection of the compound exceeding the action level, but analysis of the normal sample showed either a detection less than the action level or was not detected in excess of the detection limit. The number includes the duplicate exceedance.

5.0 Summary and Conclusions

This section presents a summary of the findings and conclusions for the 2010 Annual Performance Evaluation.

5.1 Groundwater Flow

The groundwater flow pattern for the shallow portion of the Upper Glacial Aquifer was altered during remediation system operation, and has generally returned to baseline conditions since the system has been non-operational. During the remediation system operation, shallow groundwater contamination located within the zone of capture was directed to the remediation system for treatment. Previous reports have documented the effective capture zone, however, an assessment of groundwater capture zone is not presented in this report since the groundwater extraction and treatment system was only operated intermittently (i.e., monthly) during 2010.

5.2 Groundwater Quality

Monitoring well MW-1S is located upgradient of the Site with respect to groundwater flow direction and is the background well for the shallow portion of the Upper Glacial Aquifer in the Site. Comparison of the results from each shallow well located downgradient of well MW-1S provides a benchmark to determine if the concentrations detected in the downgradient wells are site-related. A compound is considered site-related if it is observed as an exceedance in groundwater from a site well and not observed as an exceedance in groundwater obtained from the upgradient well prior to remediation system startup (February 1994 and June 2000 sampling events).

Monitoring well MW-1D is located upgradient of the Site and is screened within the deep portion of the Upper Glacial Aquifer. Comparison of the results from each deep well located downgradient of well MW-1D provides a benchmark to determine if the concentrations detected in the downgradient deep wells are site-related. A compound is considered site-related if it is observed as an exceedance in groundwater from a site well and not observed as an exceedance in groundwater obtained from the upgradient well prior to remediation system startup (May 1993, February 1994 and June 2000 sampling events). The May 1993 data were also used along with the February 1994 data in this comparison because of the lead that exceeded the action level during that sampling event. A compound is not considered site-related in

groundwater from the deep aquifer unless it is determined to be site-related in shallow groundwater.

5.2.1 Shallow Wells - VOCs

VOCs present in the groundwater from the shallow portion of the Upper Glacial Aquifer within this area appear to have been reduced by the remediation system. Evidence for this is:

- a) The levels of 1,1,1-TCA and 1,1-DCA present in January/February 2002, June 2004, June 2005, July 2006, August 2007, July 2008, July 2009 and July 2010 are considerably less than the levels present in June 2000.
- b) Both 1,1-DCA and 1,1,1-TCA were observed as an exceedance in groundwater from downgradient well MW-19S sampled prior to remediation system start-up (June 2000) and once again in April 2003 at a concentration just above the detection limit for 1,1,1-TCA of 5 µg/L. Other than this single exceedance in April 2003, these compounds were not detected as exceedances in groundwater sampled from this well during sampling events after the startup of the remediation system.
- c) As of July 2010, the only shallow wells which exhibited levels of VOCs exceeding 5 µg/l are wells MW-4S and MW-13. Exceedances of 1,1,1-TCA and 1,1-DCA were found in the groundwater from well MW-17 at levels exceeding 5 µg/l in both 2008 and 2009, but were non-detect in 2010. Only 1,1,1-TCA has been detected in groundwater as exceedances from well MW-4S since 2008, but concentrations have decreased from 200 µg/l in 2008 to 54 µg/l in 2010. This decrease may be due to the localized treatment pilot study that USEPA conducted at the well. MW-13 has a 1,1-DCA concentration of 8.7 µg/l in 2010, which has not been detected since 2003.
- d) The above, in combination with the evaluation of the overall Site data, indicates the success of the remediation system in reducing VOC concentrations in the shallow portion of the Upper Glacial Aquifer.

5.2.2 Deep Wells - VOCs

Exceedances of 1,1-DCE, 1,1,1-TCA, PCE, and TCE were observed in groundwater from upgradient well MW-1D, sampled prior to start-up of the remediation system, indicating that these compounds are not site-related. VOCs were consistently detected in MW-1D at decreasing concentrations and there has been no exceedance since July 2006. The same compounds have had multiple exceedances in groundwater from downgradient well MW-19D. These results suggest that these chemicals are no longer being released into the deep aquifer

upgradient of the Site and their attenuation and degradation continue as the non-site related deep groundwater plume migrates across the Site.

In addition, multiple exceedances of 1,2-DCE were historically observed in groundwater from downgradient well MW-19D through July 2006. The presence of 1,2-DCE is not considered site-related, because this compound is a breakdown product of PCE or TCE due to naturally occurring biodegradation. Neither PCE nor TCE were shown as site-related.

The level of 1,1-DCA in groundwater from MW-7D has been less than 5 µg/l since July 2002. Historically, 1,1-DCA was observed as a multiple exceedance in groundwater from MW-7D; however, 1,1-DCA will not be considered site-related because this compound is a naturally occurring biodegradation product of 1,1,1-TCA (parent product), which was determined to be non site-related.

5.2.3 Water Quality Trends over Time

Generally, concentrations of VOCs detected in groundwater from both shallow and deep wells are generally observed to consistently decrease over the Performance Monitoring Period. Time-series graphs for shallow and deep wells depict an increase in some wells, especially in Year 2008, generally followed by a decrease over the Performance Monitoring Period. The increases in 2008 on the time-series graphs are attributable to the relatively higher method detection limit achieved during the July 2008 sampling event and consequently, are based on worst-case assumed concentrations rather than on actual detected concentrations. Considering the effect of the high detection limits, the overall trend continues as a consistent decrease. This was further demonstrated by the results from the 2010 sampling event.

6.0 Recommendations

Continued performance monitoring is recommended for the Site to ensure that current groundwater conditions are maintained in the shallow portion of the Upper Glacial Aquifer at the Site. The only VOC compounds that exhibited exceedances in 2010 were MW-4S (for 1,1,1-TCA) and MW-13 (for 1,1-DCA), but the concentrations have decreased consistently and are considerably less than historical highs. This observation may be due to the localized treatment (SVE pilot test) that USEPA is presently conducting in the area of MW-4S. Based on the planned decommissioning of the Site in 2011, no other actions are recommended at this time.

7.0 References

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- URS Corporation, September 6, 2000. Operation and Maintenance Manual, Groundwater Treatment System, Circuitron Corporation, East Farmingdale, New York.
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Appendix A-1
Total VOC Concentrations

Appendix A-1
Total VOC Concentrations

Well Type	Monitoring Well	Jun 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	Jul - Aug 2001	Oct 2001	Jan - Feb 2002	Jul - Aug 2002	Apr-03	Jun-04	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
Shallow	MW-1S	16		5		56	4	8		5						0.74	0.75
Shallow	MW-3S	20	13	5	7	8	8	6	*4	4	2	2				1.8	0.77
Shallow	MW-4S	1155	915	720	279	93	328	347		219	**239	*89	314.4	346.6	200	122.7	56.46
Shallow	MW-6S	15	374	119	89	*112	107	64		19	**25	16					1.23
Shallow	MW-7S		*2	*2			11					1					0.18
Shallow	MW-13	154	397	124	47	41	31	35	*14	34	**10			11.5	4.6		12.21
Shallow	MW-14	30	10	17	13	14	15	21	1	6	**3		1.3	1.3			0.77
Shallow	MW-15	68	*1	*35	29		5	*2								0.2	0.21
Shallow	MW-16				*		1	3									1.25
Shallow	MW-17	44	71	37	11	14	32	26	8	4					27.4	25.1	1.8
Shallow	MW-18			13	13	*	10					5					0.26
Shallow	MW-19S	17	34	21	14	13	16	5	5	10						1.18	1.51
Deep	MW-1D	61	52	45	*41	7	*53	57	45	27	**26	24	8.2	3.1		4.65	3.34
Deep	MW-3D	5	2	7	4	5	5	8	1	1			1.0				1.97
Deep	MW-4D	*94	57	49	50	41	38	43	37	*23	**34	10	10.6	9.2	5.8	3.68	4.09
Deep	MW-5D	*10	30	4	7	4	8										1.76
Deep	MW-6D	30	24	35	14	20	31	17	37	25	**28	20	25.3	14.8	4	2.95	2.50
Deep	MW-7D	30	35	29	36	23	32	*28	19	*8.5	**3					1.37	3.94
Deep	MW-19D	133	139	136	158	176	*180	214	199	146	**111	*130	*231		*130.8	*89.4	*0.25

Note:

VOC: Volatile Organic Compound

All concentrations in ug/L

Blank cells indicate no VOCs detected

* Values marked with an asterisk are the arithmetic mean of normal and duplicate samples

** Values marked with two asterisks are the arithmetic mean of multiple diffusive bag samples. For MW-4S and MW-19D, values are the arithmetic mean of bag samples, duplicates, and low flow samples.

Appendix A-2
Groundwater Sampling Results by Well

Groundwater Sampling Analytical Results for
MW-1D

Analyte	NY Water Quality Criteria	May 1993*	Feb 1994*	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	Apr - May 2001 Duplicate	July - Aug 2001	Oct 2001	Oct 2001 Duplicate	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	4.00 J	6.00	5 J	5 J	4 J	4 J	4 J	< 5	4 J	4 J	4 J	4 J	3J	3J	3J	3J	1.4J	<0.84	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	31.00 J	24.00	9	10	7	8	8	< 5	10	10	11	10	7	7	7	7	4.8J	1.5J	<5.0	2.0	0.73
1,1,1 Trichloroethane	5	84.00 J	99.00	16	14	13	13	13	<5	16	17	14	12	8	7	7	8	<0.43	<0.40	<5.0	1.0	0.42 J
1,2 Dichloroethene (total)	5	4.00 J	4.00	1 J	2 J	<5	1 J	1 J	<5	1 J	1 J	1 J	2 J	1J	2J	1J	<5	<0.44	<0.84	<5.0	<0.24	<0.50
Acetone	NP	5.00 R	5.00 R	8 JB	<10	3 JB	<10	<10	<10	<10	<10	<10	<10	<10	<10UJ	<10UJ	<10UJ	<16U	<8.7	<61 U	<3.8 U	<1.9 U
Chloroform	7	3.00 UJ	1.00 U	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24	<0.53	<5.0	0.25 J	<0.50
Methylene Chloride	5	2.00 R	2.00 U	4 JB	<5	4 JB	<5	<5	7 J	5 B	5 JB	10 B	<5	<5J	<4U	<4U	<5	<0.91	<1.7	<5.0	<0.24 U	<0.21 UJ
Tetrachloroethene	5	38.00 J	18.00	5 J	6	4 J	5	5	<5	5	6	6	5	3J	2J	1J	1J	<0.35	<0.78	<5.0	<0.11	0.17 J
Toluene	5	1.00 UJ	1.00 U	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.31	<0.41	<5.0	<0.18	1.2
Trichloroethene	5	76.00 J	82.00	13	15	10	10	10	<5	11	11	11	12	5J	5	5	5	2.0J	1.6J	<5.0	1.4	0.82
Turbidity	5	NR	NR	35.5	NR	580	0	0	0.0	NR	NR	34.7	0	12	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	17.90U	28.30 UJ	<2.2	NR	<2.3	NR	NR	<1.9	NR	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	2.30 U	1.30 UJ	<3.2	NR	<2.4	NR	NR	<2.3	NR	NR	<3.0	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.50 U	0.20 U	0.14	NR	0.14 J	NR	NR	<0.20	NR	NR	<0.10	0.24U	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	31.40	36.20	567	NR	255 J	NR	NR	34.9	NR	NR	55.7	153	145	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	16.50 B	9.00 B	16.6	NR	13.4	NR	NR	5.9	NR	NR	7.2	4.9	7	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	659	621	3020	NR	1110	NR	NR	302	NR	NR	456	1170	637	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	16.4	5.30 J	7.6 UJ	NR	<2.1	NR	NR	<2.6	NR	NR	4.0	2.2U	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	31.20	60.10	211	NR	177	NR	NR	138	NR	NR	149	160	164	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	0.10 UJ	0.20 U	<0.10	NR	<0.10	NR	NR	<0.10	NR	NR	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	10.60 B	10.80 U	52	NR	88.2	NR	NR	16.0	NR	NR	10.8	38.3	17	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: -3.00 feet

Groundwater Elevation (feet):

59.44	58.54	57.44	59.80	59.80	58.24	56.54	56.54	54.74	53.04	56.34	58.47	58.47	60.19	62.14	62.49	61.05	62.31	62.83
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Bottom of Screen Elevation: -13.00 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity units

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request.

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantitation level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient wells.

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Results for
MW-1S

Analyte	NY Water Quality Criteria	Feb 1994*	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	0.70 J	<5	<5	<5	<5	5 J	<5	<5	<5	<5	<5	<5	<0.28	<0.84	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	1.00 U	<5	<5	<5	<5	10	<5	<5	<5	<5	<5	<5	<0.40	<0.96	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	0.40 J	<5	<5	<5	<5	15	<5	<5	<5	<5	<5	<5	<0.43	<0.40	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	1.00 U	<5	<5	<5	<5	2 J	<5	<5	<5	<5	<5	<5	<0.44	<0.84	<5.0	<0.24	<0.50
Acetone	NP	3.00 J	11 B	<10	3 JB	<10	<10	<10	<10	<10	5J	<7UJ	<10UJ	<16U	<8.7	< 61 U	<3.7 U	<1.9 U
Chloroform	7	1.00 U	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24	<0.53	<5.0	<0.12	<0.50
Methylene Chloride	5	2.00 U	5 B	<5	2 JB	<5	4 J	4 JB	8 B	<5	<5	<3U	<5	<0.91	<1.7	<5.0	<0.20 UJ	<2.0 U
Tetrachloroethene	5	1.00 U	<5	<5	<5	<5	8	<5	<5	<5	<5	<5	<5	<0.35	<0.78	<5.0	0.74	<0.50
Toluene	5	1.00 U	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.31	<0.41	<5.0	<0.18	0.75
Trichloroethene	5	1.00 U	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	<0.31	<0.37	<5.0	<0.11	<0.50
Turbidity	5	NR	229	NR	27	0	0.1	NR	33.1	0	83	NR	NR	NR	NR	NR	NR	NR
Antimony	3	28.30 U	<2.2	NR	<2.3	NR	2.2 J	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	R	12.1	NR	18.5	NR	8.2	NR	6.0	11.1	<3.5	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.20 U	<0.10	NR	0.37 J	NR	<0.20	NR	<0.10	0.22U	<0.66U	NR	NR	NR	NR	NR	NR	NR
Chromium	50	7.70 B	2.2	NR	2.2 J	NR	1.2	NR	3.3	3.1U	12.4	NR	NR	NR	NR	NR	NR	NR
Copper	200	17.80 B	7.3	NR	1.9	NR	1.3	NR	3.3	<0.30	8.6	NR	NR	NR	NR	NR	NR	NR
Iron	300	52600.00	19400	NR	31200	NR	22000	NR	20000	24300	8990	NR	NR	15000	NR	NR	NR	NR
Lead	15	2.90 BJ	<2.3 UJ	NR	<2.1	NR	<2.6	NR	2.5	<1.7	<2.6	NR	NR	NR	NR	NR	NR	NR
Manganese	300	714.00	393	NR	559	NR	429	NR	366	403	289	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	0.20 U	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR
Nickel	100	10.80 U	2.2	NR	2.2	NR	<1.2	NR	3.0	4.1U	7.8	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 62.04 feet

Groundwater Elevation (feet):

59.52	58.62	57.42	59.82	60.72	56.61	51.92	53.02	56.32	58.49	60.22	62.17	62.51	61.19	62.37	62.93
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Bottom of Screen Elevation: 52.04 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity (NTU)

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requirements

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-3D

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<0.34	<0.84	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<0.53	<0.96	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	<5	1 J	1 J	<5	<5	1 J	1 J	1 J	1J	<5	<5	<5	<0.33	<0.40	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.25	<0.40	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<0.40	<0.84	<5.0	<0.24	<0.50
Acetone	NP	<10	<10	2 JB	4 J	<10	<10	<10	<10	<10	<10UJ	<10UJ	<10UJ	<2.7U	<8.7	<67 U	<3.4 U	<1.7 U
Chloroform	7	<5	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.42	<0.53	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.51	<0.64	<5.0	<0.20	<0.50
Methylene Chloride	5	5 JB	<5	4 JB	<5	5 J	4 JB	7	<5J	<5	<3U	<3U	<5	<1.2U	<1.7	<5.0	<0.091 UJ	<2.0 UJ
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<0.24	<0.78	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	1.0	<0.41	<5.0	<0.18	1.8
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<0.28	<0.37	<5.0	<0.11	0.17 J
Turbidity	5	23.3	NR	2	21	0.0	NR	114	4.2	4	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	2.1 J	NR	<1.9	2.5U	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	<2.4	NR	<2.3	NR	<3.0	3.6U	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	0.15 J	NR	<0.20	NR	<0.10	<0.10	<0.49U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	86.1	NR	7.1 J	NR	2.3	NR	212	50.9	49.7	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	10.3	NR	3.9	NR	3.2	NR	17.9	14.9	8.5	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	600	NR	176	NR	105	NR	962	1080	793	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	7.9 J	NR	3.9	NR	<2.6	NR	11.0	10.6	6.7	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	144	NR	418	NR	269	NR	197	206	276	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	58.1	NR	12.6	NR	8.2	NR	32.8	23.0	30.9	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: -1.65 feet

Groundwater Elevation (feet):

59.07	57.97	56.92	59.32	57.77	56.07	54.15	52.57	56.07	57.70	57.70	59.82	-0.73	62.02	60.63	61.86	62.38
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Bottom of Screen Elevation: -11.65 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-3S

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	July - Aug 2002 Duplicate	Apr-03	Jun-04	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.28	<0.84	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.40	<0.96	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	4 J	10	5	7	4 J	3 J	3 J	5 J	4 J	4J	2J	2J	<0.43	<0.40	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.25	<0.40	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.44	<0.84	<5.0	<0.24	<0.50
Acetone	NP	11 B	3 JB	<10	<10	<10	<10	<10	<10	<10	<10	<10UJ	<10UJ	<2.5U	<8.7	< 69 U	<3.5 U	<1.6 U
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24	<0.53	<5.0	1.8	0.59
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.64	<0.64	<5.0	<0.20	<0.50
Methylene Chloride	5	5 B	<5	<5	<5	4 J	5 JB	3 J	<5J	<5J	<5	<3U	<5	<0.91	<1.7	<5.0	<0.25 U	<0.11 UJ
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.35	<0.78	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.31	<0.41	<5.0	<0.18	0.18 J
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5J	<5J	<5	<5	<5	<0.31	<0.37	<5.0	<0.11	<0.50
Turbidity	5	57.4	NR	47	4	0.0	NR	13.3	10.1	10.1	30	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	<1.9	NR	<1.9	3.1U	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	3.4	NR	<3.4	NR	<2.3	NR	<3.0	<2.5	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.15	NR	<0.10	NR	<0.20	NR	<0.10	0.14U	0.22U	<0.42U	NR	NR	NR	NR	NR	NR	NR
Chromium	50	10.5	NR	11.7 J	NR	1.6	NR	9.7	16.2	27.2	14.5	NR	NR	NR	NR	NR	NR	NR
Copper	200	68.6	NR	34.2	NR	10.6	NR	28.0	26.4	27.0	29.1J	NR	NR	NR	NR	NR	NR	NR
Iron	300	4460	NR	3160	NR	885	NR	1290	2140	2400	1810	NR	NR	NR	NR	NR	NR	NR
Lead	15	11.6 J	NR	<2.1	NR	<2.6	NR	<2.2	5.0	6.0	4.9	NR	NR	NR	NR	NR	NR	NR
Manganese	300	56.8	NR	100	NR	36.7	NR	33.7	31.4	79.9	24	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	0.27	<0.10	NR	NR	NR	NR	NR	NR	NR
Nickel	100	12.4	NR	19.4	NR	4.4	NR	10.6	24.4	23.0	11.6	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 60.53 feet

Groundwater Elevation (feet):

59.15	57.45	57.22	59.34	58.25	56.10	54.35	52.85	52.85	55.65	58.10	59.80	61.70	62.00	60.60	61.85	62.38
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Bottom of Screen Elevation: 50.53 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity units

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requirements

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1995)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-4D

Analyte	NY Water Quality Criteria	June 2000	June 2000 Duplicate	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	April 2003 Duplicate	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	7	8	5	4 J	2 J	4 J	3 J	4 J	4 J	3J	3J	3J	4J	2J	3.0J	2.5J	3.0J	0.87	0.91
1,1 Dichloroethene	5	14	15	8	6	6	8	6	8	9J	5J	5	8	9	3J	4.8J	4.3J	1.6J	1.0	0.66
1,1,1 Trichloroethane	5	26	28	20	13	23	11	12	12	13J	8	8	8	10	2J	<0.33UJ	<0.48	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	2 J	2 J	1 J	1 J	<5	2 J	1 J	<5	1 J	<5	<5	1J	2J	<5	<0.40UJ	<0.83	<5.0	0.49 J	<0.50
Acetone	NP	7 JB	8 JB	<10	3 JB	6 J	<10	<10	<10	<10	<10	<10	<10UJ	<10UJ	<10UJ	<2.7UJ	R	< 68 U	<3.1 U	<1.9 U
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.42UJ	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.51UJ	<0.46	<5.0	<0.20	<0.50
Methylene Chloride	5	3 JB	4 JB	<5	7 JB	<5	<5	4 JB	6	<5J	<5J	<5J	<4U	<3U	<5	<1.6UJ	<3.0U	<5.0	<0.13 UJ	<2.0 UJ
Tetrachloroethene	5	8	8	6	4 J	<5	5 J	3 J	3 J	2 J	2J	2J	2J	2J	<5	<0.24UJ	<0.44	<5.0	0.49 J	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<5	<0.18UJ	<0.58	<5.0	<0.20	1.9
Trichloroethene	5	24	25	17	11	3 J	11	9	10	8J	5J	5	6	7	3J	2.8J	2.4J	1.2J	0.83	0.62
Turbidity	5	11.8	11.8	NR	0	18	0.0	NR	3.6	0.8	6	6	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	<2.2	NR	<2.3	NR	<1.9	NR	<1.9	2.4U	<2.5	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	<3.2	NR	<2.4	NR	<2.3	NR	<3.0	<2.5	<3.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.1	<0.10	NR	0.24	NR	<0.20	NR	<0.10	0.25U	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	4.1	4.7	NR	6.6	NR	1.4	NR	7.9	19.9	24.5	18.4	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	3.9	5.3	NR	5.5	NR	3.1	NR	6.8	6.4	5.9	4.6	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	1190	1510	NR	827	NR	1080	NR	333	429	393	268	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	6.2	3.4	NR	2.4	NR	<2.6	NR	<2.2	2.7U	<2.6	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	118	120	NR	96.5	NR	137	NR	120	116	29.9	27.5	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	12	11	NR	7.3	NR	5.6	NR	10.9	11.8	16.2	14.8	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: -3.00 feet

Groundwater Elevation (feet):

58.99	58.99	58.29	57.24	59.45	57.19	56.19	54.39	52.99	56.09	56.09	58.08	58.08	59.79	61.69	62.04	60.70	61.98	62.48
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Bottom of Screen Elevation: -13.00 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity units
Elevations referenced to mean sea level
Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request.
Diffusion bags were placed with the center at 1 ft above the bottom of the well
NS: Not sampled
NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)
NP: No proposed quantification level available
NR: Not required
Bolded values exceed the NY Water Quality Criteria
*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient wells.
Data Qualifiers:
B: The analyte was detected in the blank sample
J: Associated value is an estimated quantity
U: Compound was not detected above the associated level
UJ: Compound is not detected and the associated quantitation limit is uncertain
R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-4S

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04	Jun-04 (duplicate)	Jun-04 (Low Flow)	Jun-05	Jun-05 (duplicate)	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	14 JD	14 JD	7 JD	7 JD	2 J	2 JD	4 JD	NS	2J	<5	<5	<5	<5	<5	<0.34	<0.39	<20	<0.26	0.40 J
1,1 Dichloroethene	5	40 JD	22 JD	<5	<5	<5	3 JD	5 JD	NS	<5	4J	4J	5	1J	<5	<0.53	<0.61	<20	<0.38	<0.50
1,1,1 Trichloroethane	5	1000 D	860 D	630D	260 D	80	280 D	320 D	NS	190	200	210	260	92	85	310	340	200	120	54
1,2 Dichloroethene (total)	5	<5	< 50	<5	<5	<5	<10	<10	NS	<5	<5	<5	<5	<5	<5	<0.40	<0.83	<20	<0.48	<0.50
Acetone	NP	37 JBD	<10	28 JBD	<20	<10	<10	<10	NS	<10	<4U	<4U	<10	<10	<10	<2.7U	R	< 74 U	<22 U	<1.5 U
Chloroform	7	<50	<5	<5	<5	<5	<5	<5	NS	1J	<5	<5	<5	<5	<5	<0.42	<0.35	<20	<0.24	<0.50
Chloromethane	NP	<10	<10	<10	<20	<10	<10	<10	NS	<10	<10	<10	<10	<10	<10	<0.51	<0.46	<20	<0.40	<0.50
Methylene Chloride	5	51 BD	<5	41 BD	<10	<5	28 BD	4 JBD	NS	<5J	<1U	<2U	<2U	<5	<5	<1.4U	<1.5	<5.0	<3.0 UJ	<0.12 UJ
Tetrachloroethene	5	13 JD	19 JD	14 JD	12 D	11	15 D	14 D	NS	26	11	11	12	<5	<5	4.4J	6.6	<20	2.7	0.98
Toluene	5	<50	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5	<5	<0.18	<0.58	<20	<0.36	0.84
Trichloroethene	5	<5	<50	<5	<10	<5	<10	<10	NS	<5	<5	<5	<5	<5	<5	<0.28	<0.58	<20	<0.77 U	0.24 J
Turbidity	5	311	NR	0	12	0.0	NR	15.1	NS	50	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	2.3 J	NR	2.1	NS	<2.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	3.0	NR	<2.3	NR	<3.0	NS	<3.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	0.15	NR	<0.20	NR	<0.10	NS	<0.10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	674	NR	114	NR	1110	NR	90.8	NS	380	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	35.1	NR	14.9	NR	35.2	NR	11.0	NS	16	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	3720	NR	632	NR	3740	NR	430	NS	1790	NR	NR	NR	NR	NR	<100	<100	NR	NR	NR
Lead	15	4.1 J	NR	<2.1	NR	<2.6	NR	<2.2	NS	<2.7U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	97	NR	15.3	NR	37.3	NR	5.3	NS	24.2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	NS	<0.10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	28.3	NR	9.4	NR	83.7	NR	15.4	NS	29.9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

10x Dilution 5x Dilution 2x Dilution 2x Dilution 2x Dilution

Top of Screen Elevation: 63.32 feet

Groundwater Elevation (feet):

59.01	58.31	57.31	59.37	57.31	56.19	54.41	53.41	56.01	58.08	58.08	58.36	59.80	59.80	61.71	62.01	60.76	62.04	62.54
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Bottom of Screen Elevation: 53.32 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's reqs

Diffusion bags were placed with the center at 1 ft above the bottom of the we

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1996)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantite

U: Compound was not detected above the associated lev

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-5D

Analyte	NY Water Quality Criteria	June 2000	June 2000 Duplicate	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	3J	3 J	3 J	2 J	2 J	1 J	<5	<5	<5	<5	<5	<5	<5	<0.34	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	2 J	1 JB	3 J	1 J	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<0.53	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	3 J	3 J	3 J	1 J	2 J	1 J	<5	<5	<5	<5	<5	<5	<5	<0.33	<0.48	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.25	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.40	<0.83	<5.0	<0.24	<0.50
Acetone	NP	<10	1 JB	<10	<10	<10	<10	<10	<5	<10	<10	<10UJ	<7UJ	<10UJ	<2.7U	R	< 64 U	<2.9 U	<1.6 U
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.23	<0.51	NR	NR	NR
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.21	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.42	<0.35	<5.0	<0.12	<0.50
Methylene Chloride	5	<5	<5	16 B	<5	<5	<5	8 B	<5	<5	<5	<3U	<3U	<5	<1.4U	<1.5	<5.0	<0.33 UJ	<2.0 U
Tetrachloroethene	5	1 J	<5	2 J	<5	1 J	1 J	<5	<5	<5	<5	<5	<5	<5	<0.24	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18	<0.58	<5.0	<0.18	1.6
Trichloroethene	5	2 J	2 J	3 J	<5	1 J	1 J	<5	<5	<5	<5	<5	<5	<5	<0.28	<0.58	<5.0	<0.11	0.16 J
Turbidity	5	0	0	NR	11	0	0.1	NR	2	0	0	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	<2.2	NR	<2.3	NR	2.3 UJ	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	<3.2	NR	<3.4	NR	3.9 UJ	NR	<3.0	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	<0.10	NR	<0.10	NR	<0.20	NR	<0.10	0.17U	<0.38U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	31.8	35.8	NR	16.2 J	NR	2.6 J	NR	16.1	34.2	23.9	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	59.5	65.8	NR	50.6	NR	47.9	NR	45.4	28.5J	35.5	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	2130 J	2750 J	NR	713	NR	236	NR	245 J	344	1660	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	9.4	10.5	NR	2.6	NR	<2.4	NR	3.8	2.0U	<6.5U	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	529	529	NR	465	NR	628	NR	575	690	1200	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	0.11	<0.13U	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	33	40.8	NR	13.2	NR	4.6	NR	11.5	5.4U	10.2	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: -3.00 feet

Groundwater Elevation (feet):

58.65	58.65	57.85	57.01	59.10	57.15	55.70	54.00	52.35	55.85	57.86	57.86	59.60	61.45	61.75	60.43	61.69	62.15
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Bottom of Screen Elevation: -13.00 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1995)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-6D

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	4 J	3 J	<5	2 J	2 J	2 J	2 J	4 J	3J	3J	4J	2J	3.0J	2.3J	<5.0	0.41 J	0.36 J
1,1 Dichloroethene	5	5 J	4 J	3 J	3 J	3 J	3 J	4 J	7	5	6	6	5	7.8	5.3	1.3J	0.67	0.32 J
1,1,1 Trichloroethane	5	10	8	5	5 J	4 J	5	5	9	6	6	7	6	5.8	<0.48	1.2J	<0.16	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	1 J	<5	1J	1J	<5	1.1J	1.0J	<5.0	0.27 J	<0.50
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.38	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	6 JB	<5	<10	<10	<10	<10	<10	<10UJ	<10	<10	<2.7U	R	< 67 U	<2.2 U	<1.6 U
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.21	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	5 J	2J	1J	1J	<5	<0.42	<0.35	<5.0	0.19 J	<0.50
Methylene Chloride	5	<5	<5	13 B	<5	3 J	15 B	<5	<5	<5	<4U	<6U	<5	<1.4U	<1.5	<5.0	<0.37 UJ	<2.0 U
Tetrachloroethene	5	3 J	3 J	3 J	<5	4 J	2 J	2 J	4 J	3J	2J	2J	1J	1.6J	1.3J	<5.0	0.42 J	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18	<0.58	<5.0	<0.18	0.72
Trichloroethene	5	8	6	5	4 J	4 J	4 J	4 J	7	6	7	7	6	6.0	4.9J	1.5J	0.99	1.1
Turbidity	5	0	NR	0	6	0.1	NR	27.0	73	0	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	<1.9	NR	2.0	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	<2.4	NR	<2.3	NR	4.2 J	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	0.24	NR	<0.20	NR	<0.10	0.16U	<0.21U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	458	NR	157	NR	23.1	NR	378	479	300	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	19.3	NR	9.7	NR	8.8	NR	28.8	15.1	<11.4U	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	3670 J	NR	534	NR	180 J	NR	1480 J	870	1500	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	2.6	NR	2.5	NR	<2.6	NR	5.7	5.2	<2.6U	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	243	NR	146	NR	79.4	NR	110	130	102	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	< 0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	449	NR	121	NR	67.3	NR	110	133	235	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: -3.04 feet

Groundwater Elevation (feet):

58.39	57.89	56.96	59.05	57.09	55.79	53.79	52.29	53.69	57.78	57.78	59.44	61.29	61.64	60.22	61.54	62.04
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Bottom of Screen Elevation: -13.04 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity (NTU)

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requirements

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1995)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient wells

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-6S

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	July - Aug 2001 Duplicate	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<25	2 J	1 J	1 J	<5	<5	<5	NS	<5	<5	<5	<0.34	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	14 JD	<5	<5	<5	<5	1 J	1 J	NS	<5	1J	<5	<0.53	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	15	360 D	110	85	110	110	92	54	NS	19	24	16	<0.33	<0.48	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	<5	<25	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.40	<0.83	<5.0	<0.24	<0.50
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	NS	<10	<10	<10	<0.38	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	3 JB	3 J	<10	<10	<10	<10	NS	<10	<2UJ	<10	<2.7U	R	< 62 U	<5.3 U	<2.0 U
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.21	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.42	<0.35	<5.0	<0.12	<0.50
Methylene Chloride	5	<5	<5	3 JB	<5	3 J	<5	14 B	9 B	NS	<5	<4U	<5	<0.47	<1.5	<5.0	<0.27 U	<2.0 U
Tetrachloroethene	5	<5	<25	1 J	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.24	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.18	<0.58	<5.0	<0.18	0.96
Trichloroethene	5	<5	<25	<5	<5	<5	<5	<5	<5	NS	<5	<5	<5	<0.28	<0.58	<5.0	<0.20	0.27 J
Turbidity	5	0	NR	0	0	0.0	NR	NR	25.5	NS	0	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	<1.9	<1.9	NR	3.4	NS	<2.5	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	<2.4	NR	<2.3	<2.3	NR	<3.0	NS	<3.5	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	0.27	NR	<0.20	<0.20	NR	<0.10	NS	<0.16U	NR	NR	NR	NR	NR	NR	NR
Chromium	50	159	NR	77.7	NR	3.9	4.2	NR	836	NS	38.8	NR	NR	NR	NR	NR	NR	NR
Copper	200	9.7	NR	6.5	NR	3.0	3.5	NR	9.8	NS	<3.4U	NR	NR	NR	NR	NR	NR	NR
Iron	300	899 J	NR	463	NR	37.3 J	27.5 J	NR	4760	NS	291	NR	NR	NR	NR	NR	NR	NR
Lead	15	<2.3	NR	<2.1	NR	<2.6	<2.6	NR	<2.2	NS	<2.6	NR	NR	NR	NR	NR	NR	NR
Manganese	300	16.7	NR	53.4	NR	28.7	28.7	NR	14.9	NS	<5.4U	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	<0.10	NR	<0.10	NS	<0.10	NR	NR	NR	NR	NR	NR	NR
Nickel	100	7.9	NR	17.4	NR	7.6	7.2	NR	20.6	NS	<1.8	NR	NR	NR	NR	NR	NR	NR

5x Dilution

Top of Screen Elevation: 62.37 feet

Groundwater Elevation (feet):	58.29	58.29	56.79	58.95	57.59	57.59	55.69	53.89	52.49	55.49	57.72	59.34	61.19	61.49	60.19	61.49	61.89
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Bottom of Screen Elevation: 52.37 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit
Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request
Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1995)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-7D

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	Jan - Feb 2002 Duplicate	July - Aug 2002	Apr-03	April 2003 Duplicate	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	8	8	8	2 J	8	8	7	7	5J	4J	4J	1J	2J	<5	<0.28	<0.39	<5.0	<0.13	0.29 J
1,1 Dichloroethene	5	4 J	5	3 J	11	3	3 J	3 J	3 J	4 J	1J	1J	<5	1J	<5	<0.40	<0.61	<5.0	0.57	0.45 J
1,1,1 Trichloroethane	5	7	5 J	3 J	15	2 J	2 J	2 J	2 J	3 J	<5J	<5J	<5	<5	<5	<0.43	<0.48	<5.0	<0.16	0.22 J
1,2 Dichloroethene (total)	5	2 J	3 J	2 J	1 J	3 J	2 J	2 J	2 J	2 J	<5	1J	<5	<5	<5	<0.44	<0.83	<5.0	0.59	0.54
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.92	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	2 JB	<5	<10	<10	<10	<10	<10	<10	<10	<10UJ	<10UJ	<10UJ	<2.5	R	< 62 U	<1.6 U	<1.7 U
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	2 J	<5	<5	<5	<5	< 5	<5	<5	<5	<5	<5	<0.24	<0.35	<5.0	0.21 J	0.30 J
Chloromethane	NP	<10	3 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.64	<0.46	<5.0	<0.20	<0.50
Methylene Chloride	5	<5	<5	4 JB	<5	1 J	11 B	8 B	8 B	<5J	<5	<5	<3U	<3U	<5	<0.91	<1.5	<5.0	<0.091 UJ	<2.0 UJ
Tetrachloroethene	5	4 J	5 J	3 J	<5	3 J	3 J	3 J	3 J	2 J	1J	1J	<5	<5	<5	<0.35	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5J	<5	<5	<5	<5	<5	<0.31	<0.58	<5.0	<0.18	1.7
Trichloroethene	5	5	6	4 JB	5 J	3 J	3 J	3 J	3 J	3 J	2J	2J	<5	1J	<5	<0.31	<0.58	<5.0	<0.51 U	0.44 J
Turbidity	5	0	NR	10	10	0.0	NR	19.3	19.3	0.0	6	6	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	<1.9	NR	<1.9	2.1	<2.2	<2.5	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	<2.4	NR	<2.3	NR	<3.0	<3.0	<2.5	<3.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	0.25 J	NR	<0.20	NR	<0.10	<0.10	0.23U	<0.60U	<0.62U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	19.9	NR	2.7 J	NR	7.1	NR	3.3	3.6	18.6	<6.7U	<8.3U	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	13.7	NR	3.1	NR	4.6	NR	5.8	7.3	13.2	3.2	4	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	544 J	NR	94.2	NR	209 J	NR	86.0	98.8	306	289	409	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	2.8	NR	<2.1	NR	<2.6	NR	<2.2	<2.2	<1.7	<2.9U	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	47.4	NR	61.4	NR	69.3	NR	62.1	60.9	60.9	62.2	64.7	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	13.8	NR	3.1	NR	3.7	NR	6.5	6.7	17.3	4.8	6.2	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 0.38 feet

Groundwater Elevation (feet):

57.86	57.46	56.46	58.74	56.96	56.01	54.46	54.46	52.26	55.06	55.06	57.21	57.21	59.15	-0.94	61.22	59.86	61.16	61.66
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Bottom of Screen Elevation: -9.62 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's reqs

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-7S

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Oct 2000 Duplicate	Jan - Feb 2001	Jan - Feb 2001 Duplicate	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.34UJ	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.53UJ	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.33UJ	<0.48	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.40UJ	<0.83	<5.0	<0.24	<0.50
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	NS	NS	<10	<10	<10	<0.38UJ	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	2 J	<10	2 JB	<5	<10	<10	NS	NS	<10	<10UJ	<10UJ	<2.7UJ	R	< 74 U	<4.8 U	<1.6 U
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.21UJ	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.42UJ	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	NS	NS	<10	<10	<10	<0.51UJ	<0.46	<5.0	<0.20	<0.50
Methylene Chloride	5	<5	<5	<5	2 JB	1 JB	<5	<5	11 B	NS	NS	<5	<3U	<5	<1.0UJ	<1.5	<5.0	<0.21 UJ	<2.0 U
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.24UJ	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	<5	<0.18UJ	<0.58	<5.0	<0.18	0.18 J
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	NS	NS	<5	<5	1J	<0.28UJ	<0.58	<5.0	<0.11	<0.50
Turbidity	5	0	NR	NR	190	190	0	0.0	NR	NS	NS	5	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	NR	<2.3	<2.3	NR	<1.9	NR	NS	NS	<2.5	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	NR	<3.4	<3.4	NR	<2.3	NR	NS	NS	<3.5	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	NR	<0.10	<0.10	NR	<0.20	NR	NS	NS	<0.62U	NR	NR	NR	NR	NR	NR	NR
Chromium	50	57.3	NR	NR	49.4 J	39.1 J	NR	<0.90	NR	NS	NS	126	NR	NR	NR	NR	NR	NR	NR
Copper	200	15	NR	NR	10.1	12.2	NR	3.0	NR	NS	NS	2.9	NR	NR	NR	NR	NR	NR	NR
Iron	300	912 J	NR	NR	498	427	NR	<15.7	NR	NS	NS	787	NR	NR	NR	NR	NR	NR	NR
Lead	15	<2.3	NR	NR	<2.1	<2.1	NR	<2.6	NR	NS	NS	<2.6	NR	NR	NR	NR	NR	NR	NR
Manganese	300	245	NR	NR	155	162	NR	1.4	NR	NS	NS	88.2	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	NR	<0.10	<0.10	NR	<0.10	NR	NS	NS	<0.10	NR	NR	NR	NR	NR	NR	NR
Nickel	100	22.5	NR	NR	9.7	7.3	NR	1.5	NR	NS	NS	9.1	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 63.06 feet

Groundwater Elevation (feet):	58.21	57.41	57.41	56.51	56.51	58.81	57.01	55.41	53.57	53.21	55.31	57.44	59.12	61.01	61.21	59.95	61.16	61.70
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Bottom of Screen Elevation: 53.06 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity u

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requ

Diffusion bags were placed with the center at 1 ft above the bottom of the we

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1991)

NP: No proposed quantification level availabl

NR: Not required

Bolded values exceed the NY Water Quality Criteri

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient w

Data Qualifiers

B: The analyte was detected in the blank sampl

J: Associated value is an estimated quant

U: Compound was not detected above the associated lev

UJ: Compound is not detected and the associated quantitation limit is uncerta

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-13

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	July - Aug 2002 Duplicate	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	14	40 D	9	8	7	2 J	<5	3 J	3 J	4J	<5	<5	<5	<0.34UJ	<0.39	<5.0	<0.13	8.7
1,1 Dichloroethene	5	8	7 JD	2 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.53UJ	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	120	350 D	110	34	34	15	34	12	11	30	14	6	<5	<0.33UJ	<0.48	4.6J	<0.16	2.0
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.25UJ	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	< 25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.40UJ	<0.83	<5.0	<0.24	<0.50
Acetone	NP	8 JB	<10	2 JB	4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.7UJ	R	< 67 U	<1.7 U	<1.9 U
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.42UJ	2.1J	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	1 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.51UJ	<0.46	<5.0	<0.20	<0.50
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.21UJ	9.4	NR	NR	NR
Methylene Chloride	5	4 JB	<5	1 JB	<5	<5	14 B	1 JB	<5	<5	<5J	<5U	<6U	<5	<1.0UJ	<1.5	<5.0	<0.21 UJ	<2.0 UJ
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24UJ	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18UJ	<0.58	<5.0	<0.18	1.2
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.28UJ	<0.58	<5.0	<0.11	0.31 J
Turbidity	5	200	NR	0	0	0.1	NR	22.5	110	110.0	45	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	2.3 J	NR	<1.9	<2.2	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	4.3	NR	<3.4	NR	4.7 J	NR	4.1 J	<2.5	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	<0.10	NR	<0.20	NR	0.12	0.10U	0.10U	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	6.3	NR	2.3 J	NR	1.5 J	NR	3.5	0.52U	16.3	<3.1U	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	12.7	NR	5.6	NR	3.1	NR	10.2	1.8	2.8	4.1	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	17200	NR	687	NR	634	NR	2050 J	<14.5	707	919	NR	NR	NR	290	290	NR	NR	NR
Lead	15	5.2	NR	<2.1	NR	<2.4	NR	<2.2	<1.7	<1.7	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	365	NR	54.9	NR	17.3	NR	26.6	32.1	31.8	28	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	12.2	NR	7.2	NR	4.7	NR	6.7	3.2	5.3	<5.1U	NR	NR	NR	NR	NR	NR	NR	NR

5x Dilution

Top of Screen Elevation: 53.65 feet

Groundwater Elevation (feet):

58.35	57.45	57.65	58.71	56.45	55.44	53.55	51.85	51.85	55.35	57.46	57.46	59.10	61.00	61.35	59.93	61.19	61.64
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Bottom of Screen Elevation: 43.65 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1996)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-14

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	4J	2 J	1 J	2 J	2 J	<5	2 J	<5	4J	<5	<5	<5	<0.34UJ	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	1J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.53UJ	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	21	8	15	5 J	12	6	15	1 J	2J	3J	<5	<5	<0.33UJ	<0.48	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.25UJ	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	1J	<5	<5	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<0.40UJ	<0.83	<5.0	<0.24	0.41 J
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.38UJ	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	1 JB	<5	<10	<10	<10	<10	<10	<10	<3U	<10	<2.7UJ	R	< 63 U	<0.58 U	<2.1 U
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.23UJ	<0.51	NR	NR	NR
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.3J	1.3J	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.42UJ	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<5	<10	<10	<10	<10	<10	<10	<10	<10	<0.51UJ	<0.43	<5.0	<0.20	<0.50
Methylene Chloride	5	<5	<5	<5	5 J	<5	9 B	4JB	<5	<5	<2U	<2U	<5	<0.47UJ	<1.5	<5.0	<0.091 UJ	<2.0 UJ
Tetrachloroethene	5	2J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24UJ	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18UJ	<0.58	<5.0	<0.18	0.36 J
Trichloroethene	5	1J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.28UJ	<0.58	<5.0	<0.11	<0.50
Turbidity	5	75	NR	0	0	0.0	NR	25.7	0	95	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	<1.9	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	<3.4	NR	<2.3	NR	<3.0	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	<0.10	NR	<0.20	NR	<0.10	0.22U	<0.69U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	3.1	NR	2.6 J	NR	<0.90	NR	3.3	3.6U	<6.4U	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	3.2	NR	2.3	NR	0.87	NR	3.0	1.5	2.9	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	14100	NR	7870	NR	6830 J	NR	12200	14600	18100	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	2.8	NR	<2.1	NR	<2.6	NR	<2.2	<1.7	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	1090	NR	217	NR	421	NR	374	221	284	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	0.11	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	6.5	NR	2.9	NR	3.6	NR	5.5	3.8U	6.5	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 52.58 feet

Groundwater Elevation (feet):	56.68	56.28	55.48	57.06	55.78	54.28	52.58	50.78	53.26	56.45	56.45	58.03	59.93	60.18	58.80	60.08	60.58
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Bottom of Screen Elevation: 42.58 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit
Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request
Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-15

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Oct 2000 Duplicate	Jan - Feb 2001	Jan - Feb 2001 Duplicate	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	Jan - Feb 2002 Duplicate	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.61	<5.0	<0.20	<0.50
1,1,1 Trichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.53	<0.48	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.44	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	42	1 J	1 J	18	20	24	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.47	<0.83	<5.0	<0.24	<0.50
Acetone	NP	<10	<10	<10	<10	3 JB	<5	<10	<10	<10	<10	<10	<10	<10	<3U	<10	<2.8U	R	< 68 U	<1.6 U	<1.9 U
Chlorobenzene	5	1 J	<5	<5	1J	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.089	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.93	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.74	<0.46	<5.0	<0.20	<0.50
Methylene Chloride	5	<5	<5	<5	<5	1 JB	5 J	<5	5 B	2 JB	2 JB	<5	<5J	<2U	<2U	<5	<2.3U	<1.5	<5.0	<0.091 UJ	<2.0 UJ
Tetrachloroethene	5	11	<5	<5	9	8	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.50	<0.44	<5.0	0.20 J	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.32	<0.58	<5.0	<0.18	0.21 J
Trichloroethene	5	14	<5	<5	4 J	5 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.58	<5.0	<0.11	<0.50
Turbidity	5	0	NR	NR	190	190	0	0.1	NR	19.4	NR	0	36	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<3.2	NR	NR	<2.3	<2.3	NR	2.3 UJ	NR	<1.9	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	10.6	NR	NR	6.4	6.8	NR	6.9 J	NR	4.9	7.2 J	2.5	<3.8U	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.21	NR	NR	<0.10	<0.10	NR	<0.20	NR	<0.10	0.12	0.13U	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	19.5	NR	NR	4.4 J	3.8 J	NR	1.4 UJ	NR	2.4	4.2	2.7U	8.9	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	9.7	NR	NR	8.9	7.3	NR	<0.50	NR	3.8	8.5	1.3	7.8	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	39100 J	NR	NR	36400	34900	NR	27800	NR	19800 J	19700 J	29300	22700	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	4.6	NR	NR	4.6	3.4	NR	<2.4	NR	2.9	4.4	<1.7	<3.2U	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	405	NR	NR	417	403	NR	344	NR	199	194	339	309	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	NR	<0.10	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	13	NR	NR	4.8	3.8	NR	2.7	NR	3.1	3.3	1.6U	9.3	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 54.60 feet

Groundwater Elevation (feet):	58.95	58.25	58.25	57.15	57.15	59.31	57.35	56.15	54.25	54.25	52.60	56.05	58.15	58.15	59.75	61.70	62.01	60.62	61.86	62.37
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Bottom of Screen Elevation: 44.60 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1996)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-16

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	Apr - May 2001 Duplicate	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	<5	<5	<5	<5	<5	<5	<5	3 J	<5	<5J	<5	<5	<5	<0.53	<0.48	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.47	<0.83	<5.0	<0.24	<0.50
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.84	<0.28UJ	NR	NR	NR
Acetone	NP	<10	<10	<10	<5	<5	<10	<10	<10	<10	<10	<2U	<10	<10UJ	<2.8U	R	< 70 U	<2.4 U	<1.9 U
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.089	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.93	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.74	<0.46	<5.0	<0.20	<0.50
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	1 JB	<5	<5	<5	<2U	<2U	<5	<2.1U	<2.1U	<5.0	<0.16 UJ	<0.19 UJ
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.50	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.32	<0.58	<5.0	<0.18	1.1
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.58	<5.0	<0.11	0.15 J
Turbidity	5	133	NR	47	0	0	0.0	NR	26.4	97	170	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	NR	<1.9	NR	<1.9	2.2U	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	17.2	NR	10.4	NR	NR	5.7	NR	10.3 J	39.8	6.6	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	<0.10	NR	<0.10	NR	NR	<0.20	NR	<0.10	1.30U	<0.68U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	6.9	NR	3.6 J	NR	NR	<0.90	NR	4.4	43.6	<6.5U	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	11.8	NR	7.2	NR	NR	0.89	NR	7.2	54.7	<0.60	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	33700 J	NR	25200	NR	NR	25400 J	NR	24600 J	58400	20900	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	3.9	NR	<2.1	NR	NR	<2.6	NR	2.7	28.6	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	524	NR	426	NR	NR	430	NR	363	438	293	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	NR	<0.10	NR	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	5.2	NR	2.7	NR	NR	1.9	NR	4.1	23.4U	5.7	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 54.75 feet

Groundwater Elevation (feet):	58.40	57.80	56.76	56.90	56.90	56.80	55.58	53.70	52.20	55.10	57.77	57.77	59.39	61.29	61.60	60.18	61.46	61.93
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Bottom of Screen Elevation: 44.75 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity u

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requ

Diffusion bags were placed with the center at 1 ft above the bottom of the we

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1991)

NP: No proposed quantification level availabl

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Bolded values exceed the NY Water Quality Criteri

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Data Qualifiers

B: The analyte was detected in the blank sampl

J: Associated value is an estimated quantiti

U: Compound was not detected above the associated lev

UJ: Compound is not detected and the associated quantitation limit is uncerta

R: Rejected during data validator

Groundwater Sampling Analytical Results for
MW-17

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	5	7	3 J	2 J	1 J	1 J	2 J	3 J	<5	<5	<5	<5	<0.38	<0.39	20	17	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	39	58	33	9	12	19	22	5 J	4J	<5	<5	<5	<0.53	<0.48	7.4	8.1	<0.50
1,1,2 Trichloroethane	1	<5	3 J	<5	<5	1 J	2 J	<5	<5	<5	<5	<5	<5	<0.44	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.47	<0.83	<5.0	<0.24	<0.50
Acetone	NP	<10	<10	<5	<5	<10	<10	<5	<10	<10	<7UJ	<10UJ	<10UJ	<2.8U	R	< 70 U	<0.96 U	<1.6 U
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18	<0.51	NR	NR	NR
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.089	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.93	<0.35	<5.0	<0.12	<0.50
Methylene Chloride	5	<5	<5	<5	<5	<5	9 B	1 JB	<5	<5	<3U	<4U	<5	<1.5U	<1.5	<5.0	<0.14 UJ	<2.0 UJ
Tetrachloroethene	5	<5	3 J	1 J	<5	< 1	1 J	1 J	<5	<5	<5	<5	<5	<0.50	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.32	<0.58	<5.0	<0.18	1.8
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.58	<5.0	<0.11	<0.50
Turbidity	5	15.9	NR	35	10	0.1	NR	18	0	200	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	2.5	NR	<2.3	NR	2.3 UJ	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	6.5	NR	<3.4	NR	3.9 UJ	NR	<3.0	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.26	NR	<0.10	NR	<0.20	NR	<0.10	0.26U	<0.64U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	25.9	NR	7.6 J	NR	2.6 J	NR	2.8	4.8	65	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	79.1	NR	42.6	NR	29.2	NR	18.5	20.1	108	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	16900 J	NR	1600	NR	409	NR	662 J	982	11100	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	20.1	NR	<2.1	NR	<2.4	NR	2.3	<1.7	14.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	386	NR	73.8	NR	176	NR	108	53.7	401	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	<0.10	<0.10	<0.12	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	61.9	NR	47.4	NR	49.5	NR	22.7	14.2U	59.6	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 58.08 feet

Groundwater Elevation (feet):	57.98	57.38	57.65	58.81	56.88	58.81	51.78	52.08	55.48	57.38	57.38	59.25	61.13	61.38	59.98	61.36	61.79
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Bottom of Screen Elevation: 48.08 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit
Elevations referenced to mean sea level
Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request
Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1996)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-18

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	July - Aug 2001 Duplicate	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.39	<5.0	<0.13	<0.50
1,1 Dichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.53	<0.48	<5.0	<0.16	<0.50
1,1,2 Trichloroethane	1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.44	<0.70	<5.0	<0.11	<0.50
1,2 Dichloroethene (total)	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.47	<0.83	<5.0	<0.24	<0.50
Acetone	NP	<10	<10	7 JB	6 J	<10	<10	<10	<10	<10	<10	<4U	<4U	<10	<2.8U	R	< 67 U	< 3.2 U	<1.9 U
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18	<0.51	NR	NR	NR
Chlorobenzene	5	<5	<5	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.089	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.93	<0.35	<5.0	<0.12	<0.50
Methylene Chloride	5	<5	<5	2 JB	7	<5	<5	10 B	<5	<5	<5	<1U	<2U	<5	<0.97U	<1.5	<5.0	<0.21 UJ	<2.0 UJ
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.50	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.32	<0.58	<5.0	<0.18	0.26 J
Trichloroethene	5	<5	<5	1 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.38	<0.58	<5.0	<0.11	<0.50
Turbidity	5	247	NR	0	0	0.0	NR	NR	16.4	0	0	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	2.3 UJ	2.3 UJ	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	6.1	NR	8.1	NR	3.9 UJ	3.9 UJ	NR	<3.0	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.1	NR	0.55	NR	<0.20	<0.20	NR	<0.10	0.26U	<0.19U	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	31.2	NR	80	NR	3.2 J	3.1 J	NR	5.3	6.7	25.7	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	9.7	NR	13.6	NR	0.52	<0.50	NR	3.4	0.55	<4.6U	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	9060	NR	13500	NR	905	381	NR	1170 J	1100	3850	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	4.2	NR	7.5	NR	<2.4	<2.4	NR	<2.2	1.9U	<3.2U	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	164	NR	269	NR	15.4	10.6	NR	16.6	23.4	70.4	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	<0.10	NR	<0.10	<0.10	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	16.4	NR	46.6	NR	2.9	1.9	NR	4.8	4.8U	15.6	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: 58.03 feet

Groundwater Elevation (feet):	47.30	56.30	55.50	57.73	55.60	55.60	54.20	52.52	51.00	54.60	56.67	56.67	58.20	60.05	60.25	58.84	60.22	60.62
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Bottom of Screen Elevation: 48.03 feet

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity unit

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's request

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1996)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient well

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

Groundwater Sampling Analytical Results for
MW-19D

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Oct 2001 Duplicate	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-04 (bottom bag)	Jun-04 (Low Flow)	Jun-05	Jun-05 (duplicate)	Jul-06	Jul-06 (duplicate)	Aug-07	Aug-07 (duplicate)
1,1 Dichloroethane	5	3J	4 J	4 J	4 J	4 J	4 J	4 J	3 J	4 J	2J	<5	2J	2J	3J	3J	2J	3.3J	2.6J	<0.39	<0.39
1,1 Dichloroethene	5	14	14	12	18	19	19	18	23	24	11	<5	22	22	19	25	24	130	70	<0.61	<0.61
1,1,1 Trichloroethane	5	23	19	17	27	27	28	28	30	28	16	2J	23	23	22	30	29	82	60	<0.48	<0.48
1,2 Dichloroethene (total)	5	3J	6	<5	7	8	8	7	8	10	8	<5	8	8	7	7	6	5.6	4.6J	<0.83	<0.83
2-Butanone	NP	<10	<10	<10	<10	<10	4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.84	<0.92	<0.28UJ	<0.28UJ
Acetone	NP	<10	<10	4 JB	<10	<10	<10	<10	8 JB	<10	<10	<4U	<4U	<3U	<1U	<10	<10	<2.8U	<2.5U	R	R
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.18	<0.62	<0.51	<0.51
Chlorobenzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.089	<0.29	<0.38	<0.38
Chloroform	7	2J	2 J	<5	5 J	7	7	7	10	14	19	2J	31	32	25	21	21	7.0	4.8J	<0.35	<0.35
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.74	<0.64	<0.46	<0.46
Methylene Chloride	5	<5	13 B	12 B	6	<5	9 B	9 B	<5	<5	<5	<5U	<4U	<3U	<4U	<5	<5	<2.2U	<0.91	<1.5	<3.3U
Tetrachloroethene	5	46	47	50	55	65	62	61	77	62	57	2J	24	24	39	20	18	20	15	<0.44	<0.44
Toluene	5	2J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.32	<0.31	<0.58	<0.58
Trichloroethene	5	40	34	37	36	46	43	43	55	57	33	2J	33	35	32	28	26	31	23	<0.58	<0.58

Turbidity	5	238	NR	0	230	0.1	NR	NR	659	250	990	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
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Antimony	3	<2.2	NR	<2.3	NR	2.3 UJ	NR	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	<3.2	NR	10.4	NR	5.4 J	NR	NR	12.5 J	7.8	<10.9U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.3	NR	1.1	NR	<0.20	NR	NR	0.47	2.60	<1.1U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	43.9	NR	47.4	NR	49.5 J	NR	NR	86.4	55.7	163	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	14.2	NR	26.1	NR	7.8	NR	NR	38.2	21.0	114	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	7240	NR	15000	NR	4730	NR	NR	27300 J	18900	33800	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	10.3	NR	18.0	NR	3.8	NR	NR	22.7	16.3	34.1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	557	NR	646	NR	295	NR	NR	568	429	724	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	<0.10	NR	<0.10	NR	<0.10	NR	NR	<0.10	<0.10	<0.16U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	32	NR	32.9	NR	36.0	NR	NR	59.1	35.7	115	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Groundwater Elevation (feet):	55.70	55.10	54.26	56.45	54.00	53.10	53.10	51.10	49.60	53.20	55.36	55.36	55.36	55.45	56.95	56.95	58.75	58.75	58.90	58.90
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Analyte	NY Water Quality Criteria	Jul-08	Jul-08 (duplicate)	Jul-09	Jul-09 (duplicate)	Jul-10	Jul-10 (duplicate)
1,1 Dichloroethane	5	4.0J	3.9J	3.8	3.6 J	<0.50	<0.50
1,1 Dichloroethene	5	40	42	29 J	29 J	<0.50	<0.50
1,1,1 Trichloroethane	5	32	34	18	18	<0.50	<0.50
1,2 Dichloroethene (total)	5	3.0J	2.7J	2.3 J	2.3 J	<0.50	<0.50
2-Butanone	NP	NR	NR	NR	NR	NR	NR
Acetone	NP	68J	< 69 U	<3.9 UJ	<4.8 UJ	<1.8 U	<1.9 U
Carbon Disulfide	NP	NR	NR	NR	NR	NR	NR
Chlorobenzene	5	NR	NR	NR	NR	NR	NR
Chloroform	7	2.4J	2.4J	1.5	1.5	<0.50	<0.50
Chloromethane	NP	<5.0	<5.0	<0.20	<0.20	<0.50	<0.50
Methylene Chloride	5	<5.0	<5.0	<0.23 UJ	<0.28 UJ	<2.0 UJ	<2.0 UJ
Tetrachloroethene	5	7.2	8.0	4.0	4.0	<0.50	<0.50
Toluene	5	<5.0	<5.0	<0.18	<0.18	0.25 J	0.25 J
Trichloroethene	5	40	40	33	34 J	<0.50	<0.50

Top of Screen Elevation: Unknown

Groundwater Elevation (feet):	57.46	57.46	58.90	58.90	59.30	59.30														
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Bottom of Screen Elevation: Unknown

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity (NTU)

Elevations referenced to mean sea level

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requirement

Diffusion bags were placed with the center at 1 ft above the bottom of the well

NS: Not sampled

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999)

NP: No proposed quantification level available

NR: Not required

Bolded values exceed the NY Water Quality Criteria

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient

Data Qualifiers:

B: The analyte was detected in the blank sample

J: Associated value is an estimated quantity

U: Compound was not detected above the associated level

UJ: Compound is not detected and the associated quantitation limit is uncertain

R: Rejected during data validation

UJ: Compound was not detected above the associated level

Appendix A-2 Air MW Analytical Results

Groundwater Sampling Analytical Results for
MW-19S

Analyte	NY Water Quality Criteria	June 2000	Oct 2000	Jan - Feb 2001	Apr - May 2001	July - Aug 2001	Oct 2001	Jan - Feb 2002	July - Aug 2002	Apr-03	Jun-04 (topmost bag)	Jun-04 (bottom bag)	Jun-05	Jul-06	Aug-07	Jul-08	Jul-09	Jul-10
1,1 Dichloroethane	5	6	4 J	3 J	4 J	5 J	3 J	3 J	3 J	4J	<5	<5	<5	<0.28	<0.39	<5.0	0.28 J	<0.50
1,1 Dichloroethene	5	1J	2 J	1 J	2 J	3 J	1 J	1 J	<5	<5	<5	<5	<5	<0.40	<0.61	<5.0	<0.19	<0.50
1,1,1 Trichloroethane	5	8	5 J	1 J	<5	1 J	2 J	1 J	<5	6	<5	<5	<5	<0.43	<0.48	<5.0	<0.16	<0.50
1,2 Dichloroethene (total)	5	<5	1 J	<5	2 J	2 J	1 J	<5	2 J	<5	<5	<5	<5	<0.44	<0.83	<5.0	0.93 J	0.46 J
2-Butanone	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.92	<0.28UJ	NR	NR	NR
Acetone	NP	<10	4 J	4 JB	<10	<10	<10	<10	<10	<10	<4U	<10	<10	<2.5UJ	R	< 74 U	<3.0 UJ	<1.9 U
Carbon Disulfide	NP	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.62	<0.51	NR	NR	NR
Chlorobenzene	5	2J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.29	<0.38	NR	NR	NR
Chloroform	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.24	<0.35	<5.0	<0.12	<0.50
Chloromethane	NP	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<0.64	<0.46	<5.0	<0.20 UJ	<0.50
Methylene Chloride	5	<5	14 B	12 B	6	<5	9 B	<5	<5	<5	<2U	<2U	<5	<2.0UJ	<1.5	<5.0	<0.091 UJ	<2.0 UJ
Tetrachloroethene	5	<5	2 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.35	<0.44	<5.0	<0.11	<0.50
Toluene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.31	<0.58	<5.0	<0.18	0.75
Trichloroethene	5	<5	2 J	<5	<5	2 J	<5	<5	<5	<5	<5	<5	<5	<0.31	<0.58	<5.0	<0.11	0.30 J
Turbidity	5	64.9	NR	0	0	0.1	NR	62	0	0	NR	NR	NR	NR	NR	NR	NR	NR
Antimony	3	<2.2	NR	<2.3	NR	2.3 UJ	NR	<1.9	<2.2	<2.5	NR	NR	NR	NR	NR	NR	NR	NR
Arsenic	25	4.1	NR	4.7	NR	3.9 UJ	NR	5.1 J	<2.5	<3.5	NR	NR	NR	NR	NR	NR	NR	NR
Beryllium	3	0.37	NR	0.60	NR	<0.20	NR	0.16	0.61U	<0.10	NR	NR	NR	NR	NR	NR	NR	NR
Chromium	50	96.6	NR	36.5	NR	1.4 UJ	NR	40.2	121	<6.6U	NR	NR	NR	NR	NR	NR	NR	NR
Copper	200	109	NR	13.7	NR	<0.50	NR	16.4	6.3	<3.4U	NR	NR	NR	NR	NR	NR	NR	NR
Iron	300	21600	NR	29400	NR	15400	NR	26000 J	18600	14700	NR	NR	NR	NR	NR	NR	NR	NR
Lead	15	34	NR	4.6	NR	<2.4	NR	6.3	<1.7	<2.6	NR	NR	NR	NR	NR	NR	NR	NR
Manganese	300	2100	NR	1050	NR	786	NR	966	683	1020	NR	NR	NR	NR	NR	NR	NR	NR
Mercury	0.7	0.34	NR	0.34	NR	<0.10	NR	0.76	0.14	<0.15U	NR	NR	NR	NR	NR	NR	NR	NR
Nickel	100	66.9	NR	26.7	NR	3.9	NR	29.1	86.8	4.0	NR	NR	NR	NR	NR	NR	NR	NR

Top of Screen Elevation: Unknown

Groundwater Elevation (feet):	56.20	55.00	54.20	56.40	54.30	53.00	51.10	49.60	53.40	55.30	55.30	56.85	58.60	58.80	57.43	58.84	59.21
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Bottom of Screen Elevation: Unknown

Notes: Volatile and metal concentrations presented in micrograms per liter; turbidity measurements presented in nephelometric turbidity (

Elevations referenced to mean sea lev

Since June 2004, monitoring wells have been sampled for VOC's only using the diffusion bag sampling method as per USEPA's requ

Diffusion bags were placed with the center at 1 ft above the bottom of the w

NS: Not samplec

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 199

NP: No proposed quantification level availab

NR: Not requirec

Bolded values exceed the NY Water Quality Criter

*Data presented from May 1993 and February 1994 is published in the Record of Decision (USEPA 1994). These data provide a benchmark of pre-remediation conditions for the upgradient

Data Qualifiers

B: The analyte was detected in the blank samp

J: Associated value is an estimated quant

U: Compound was not detected above the associated lev

UJ: Compound is not detected and the associated quantitation limit is uncerta

R: Rejected during data validatio

Appendix A-3
Laboratory Summary Report (Validated)

SUMMARY REPORT (Validated)
Lab: TestAmerica Laboratories, Inc.
Circuitron Corporation Superfund Site
Monitoring Wells Sampling: July 2010
Volatile Organics Results

Sample ID	CC-18-MW-1S-16	CC-18-MW-1D-16	CC-18-MW-3S-16	CC-18-MW-3D-16	CC-18-MW-4S-16	CC-18-MW-4D-16	NY Water Quality
Lab Sample ID	220-12879-1	220-12879-2	220-12879-3	220-12879-4	220-12879-5	220-12879-6	Criteria
Sampling Date	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	
Volatiles (µg/L)							
1,1 Dichloroethane	<0.50	<0.50	<0.50	<0.50	0.40 J	0.91	5
1,1 Dichloroethene	<0.50	0.73	<0.50	<0.50	<0.50	0.66	5
1,1,1 Trichloroethane	<0.50	0.42 J	<0.50	<0.50	54	<0.50	5
1,1,2 Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,2 Dichloroethene (total)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
Acetone	<1.9 U	<1.9 U	<1.6 U	<1.7 U	<1.5 U	<1.9 U	NP
Chloroform	<0.50	<0.50	0.59	<0.50	<0.50	<0.50	7
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NP
Methylene Chloride	<2.0 UJ	<0.21 UJ	<0.11 UJ	<2.0 UJ	<0.12 UJ	<2.0 UJ	5
Tetrachloroethene	<0.50	0.17 J	<0.50	<0.50	0.98	<0.50	5
Toluene	0.75	1.2	0.18 J	1.8	0.84	1.9	5
Trichloroethene	<0.50	0.82	<0.50	0.17 J	0.24 J	0.62	5
TOTAL VOCs	0.75	3.34	0.77	1.97	56.46	4.09	

NOTES:

Diffusion bags were deployed July 15, 2010 and were retrieved and sampled on July 29, 2010.

ND: Not Detected

NP: No Proposed SPDES Permit available

<...: Laboratory Detection Limit

BOLD: Value exceeds the SPDES Permit

D: Results are reported for the diluted samples.

U: Indicates the compound was analyzed but not detected.

J: Indicates an estimated value when a compound is detected at less than the specified detection limit.

UJ: Indicates compound is not detected and the associated quantitation limit is uncertain.

B: Indicates the analyte was found in the blank as well as in the sample.

E: Indicates the analyte concentration exceeds the calibration range of the instrument.

R: Indicates the data is unusable.

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999).

SUMMARY REPORT (Validated)
Lab: TestAmerica Laboratories, Inc.
Circuitron Corporation Superfund Site
Monitoring Wells Sampling: July 2010
Volatile Organics Results

Sample ID	CC-18-MW-5D-16	CC-18-MW-6S-16	CC-18-MW-6D-16	CC-18-MW-7S-16	CC-18-MW-7D-16	CC-18-MW-13-16	NY Water Quality
Lab Sample ID	220-12879-7	220-12879-8	220-12879-9	220-12879-10	220-12879-11	220-12879-12	Criteria
Sampling Date	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	
Volatiles (µg/L)							
1,1 Dichloroethane	<0.50	<0.50	0.36 J	<0.50	0.29 J	8.7	5
1,1 Dichloroethene	<0.50	<0.50	0.32 J	<0.50	0.45 J	<0.50	5
1,1,1 Trichloroethane	<0.50	<0.50	<0.50	<0.50	0.22 J	2.0	5
1,1,2 Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,2 Dichloroethene (total)	<0.50	<0.50	<0.50	<0.50	0.54	<0.50	5
Acetone	<1.6 U	<2.0 U	<1.6 U	<1.6 U	<1.7 U	<1.9 U	NP
Chloroform	<0.50	<0.50	<0.50	<0.50	0.30 J	<0.50	7
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NP
Methylene Chloride	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 UJ	<2.0 UJ	5
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
Toluene	1.6	0.96	0.72	0.18 J	1.7	1.2	5
Trichloroethene	0.16 J	0.27 J	1.1	<0.50	0.44 J	0.31 J	5
TOTAL VOCs	1.76	1.23	2.50	0.18	3.94	12.21	

NOTES:

Diffusion bags were deployed July 15, 2010 and were retrieved and sampled on July 29, 2010.

ND: Not Detected

NP: No Proposed SPDES Permit available

<...: Laboratory Detection Limit

BOLD: Value exceeds the SPDES Permit

D: Results are reported for the diluted samples.

U: Indicates the compound was analyzed but not detected.

J: Indicates an estimated value when a compound is detected at less than the specified detection limit.

UJ: Indicates compound is not detected and the associated quantitation limit is uncertain.

B: Indicates the analyte was found in the blank as well as in the sample.

E: Indicates the analyte concentration exceeds the calibration range of the instrument.

R: Indicates the data is unusable.

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999).

SUMMARY REPORT (Validated)
Lab: TestAmerica Laboratories, Inc.
Circuitron Corporation Superfund Site
Monitoring Wells Sampling: July 2010
Volatile Organics Results

Sample ID	CC-18-MW-14-16	CC-18-MW-15-16	CC-18-MW-16-16	CC-18-MW-17-16	CC-18-MW-18-16	CC-18-MW-19S-16	NY Water Quality
Lab Sample ID	220-12879-13	220-12879-14	220-12879-15	220-12879-16	220-12879-17	220-12879-18	Criteria
Sampling Date	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	07/29/2010	
Volatiles (µg/L)							
1,1 Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,1 Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,1,1 Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,1,2 Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,2 Dichloroethene (total)	0.41 J	<0.50	<0.50	<0.50	<0.50	0.46 J	5
Acetone	<2.1 U	<1.9 U	<1.9 U	<1.6 U	<1.9 U	<1.9 U	NP
Chloroform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NP
Methylene Chloride	<2.0 UJ	<2.0 UJ	<0.19 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	5
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
Toluene	0.36 J	0.21 J	1.1	1.8	0.26 J	0.75	5
Trichloroethene	<0.50	<0.50	0.15 J	<0.50	<0.50	0.30 J	5
TOTAL VOCs	0.77	0.21	1.25	1.8	0.26	1.51	

NOTES:

Diffusion bags were deployed July 15, 2010 and were retrieved and sampled on July 29, 2010.

ND: Not Detected

NP: No Proposed SPDES Permit available

<...: Laboratory Detection Limit

BOLD: Value exceeds the SPDES Permit

D: Results are reported for the diluted samples.

U: Indicates the compound was analyzed but not detected.

J: Indicates an estimated value when a compound is detected at less than the specified detection limit.

UJ: Indicates compound is not detected and the associated quantitation limit is uncertain.

B: Indicates the analyte was found in the blank as well as in the sample.

E: Indicates the analyte concentration exceeds the calibration range of the instrument.

R: Indicates the data is unusable.

NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999).

SUMMARY REPORT (Validated)
Lab: TestAmerica Laboratories, Inc.
Circuitron Corporation Superfund Site
Monitoring Wells Sampling: July 2010
Volatile Organics Results

Sample ID	CC-18-MW-19D-16	CC-18-MW-19D-16-3	FIELD BLANK	TRIP BLANK	NY Water Quality
Lab Sample ID	220-12879-19	220-12879-20	220-12879-21	220-12879-22	Criteria
Sampling Date	07/29/2010	07/29/2010	07/29/2010	07/29/2010	
Volatiles (µg/L)					
1,1 Dichloroethane	<0.50	<0.50	<0.50	<0.50	5
1,1 Dichloroethene	<0.50	<0.50	<0.50	<0.50	5
1,1,1 Trichloroethane	<0.50	<0.50	<0.50	<0.50	5
1,1,2 Trichloroethane	<0.50	<0.50	<0.50	<0.50	1
1,2 Dichloroethene (total)	<0.50	<0.50	<0.50	<0.50	5
Acetone	<1.8 U	<1.9 U	0.96 J	1.7 J	NP
Chloroform	<0.50	<0.50	<0.50	<0.50	7
Chloromethane	<0.50	<0.50	<0.50	<0.50	NP
Methylene Chloride	<2.0 UJ	<2.0 UJ	0.86 J	1.1 J	5
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	5
Toluene	0.25 J	0.25 J	<0.50	<0.50	5
Trichloroethene	<0.50	<0.50	<0.50	<0.50	5
TOTAL VOCs	0.25	0.25	1.82	2.8	

NOTES:

Diffusion bags were deployed July 15, 2010 and were retrieved and sampled on July 29, 2010.

ND: Not Detected

NP: No Proposed SPDES Permit available

<...: Laboratory Detection Limit

BOLD: Value exceeds the SPDES Permit

D: Results are reported for the diluted samples.

U: Indicates the compound was analyzed but not detected.

J: Indicates an estimated value when a compound is detected at less than the specified detection limit.

UJ: Indicates compound is not detected and the associated quantitation limit is uncertain.

B: Indicates the analyte was found in the blank as well as in the sample.

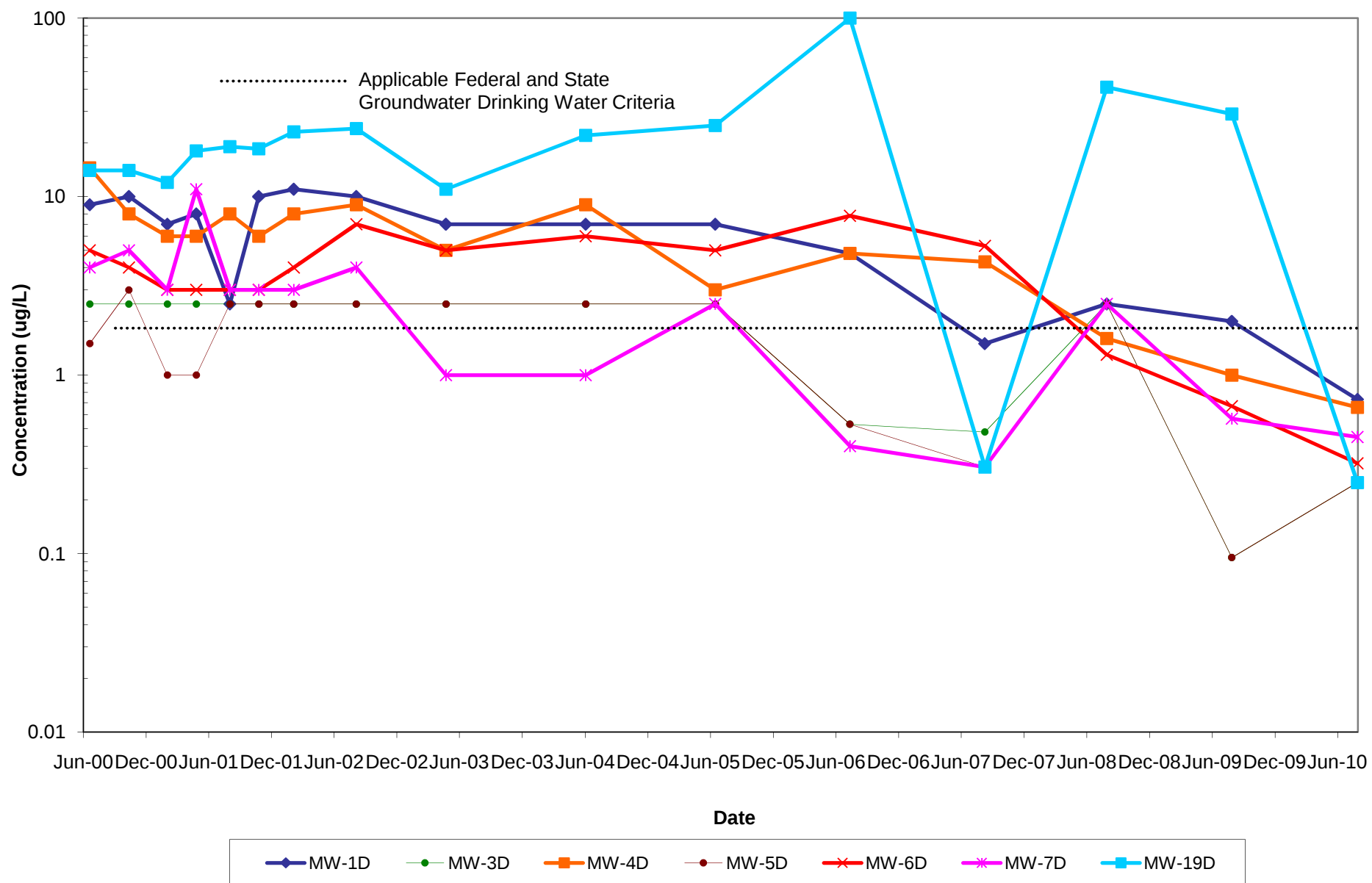
E: Indicates the analyte concentration exceeds the calibration range of the instrument.

R: Indicates the data is unusable.

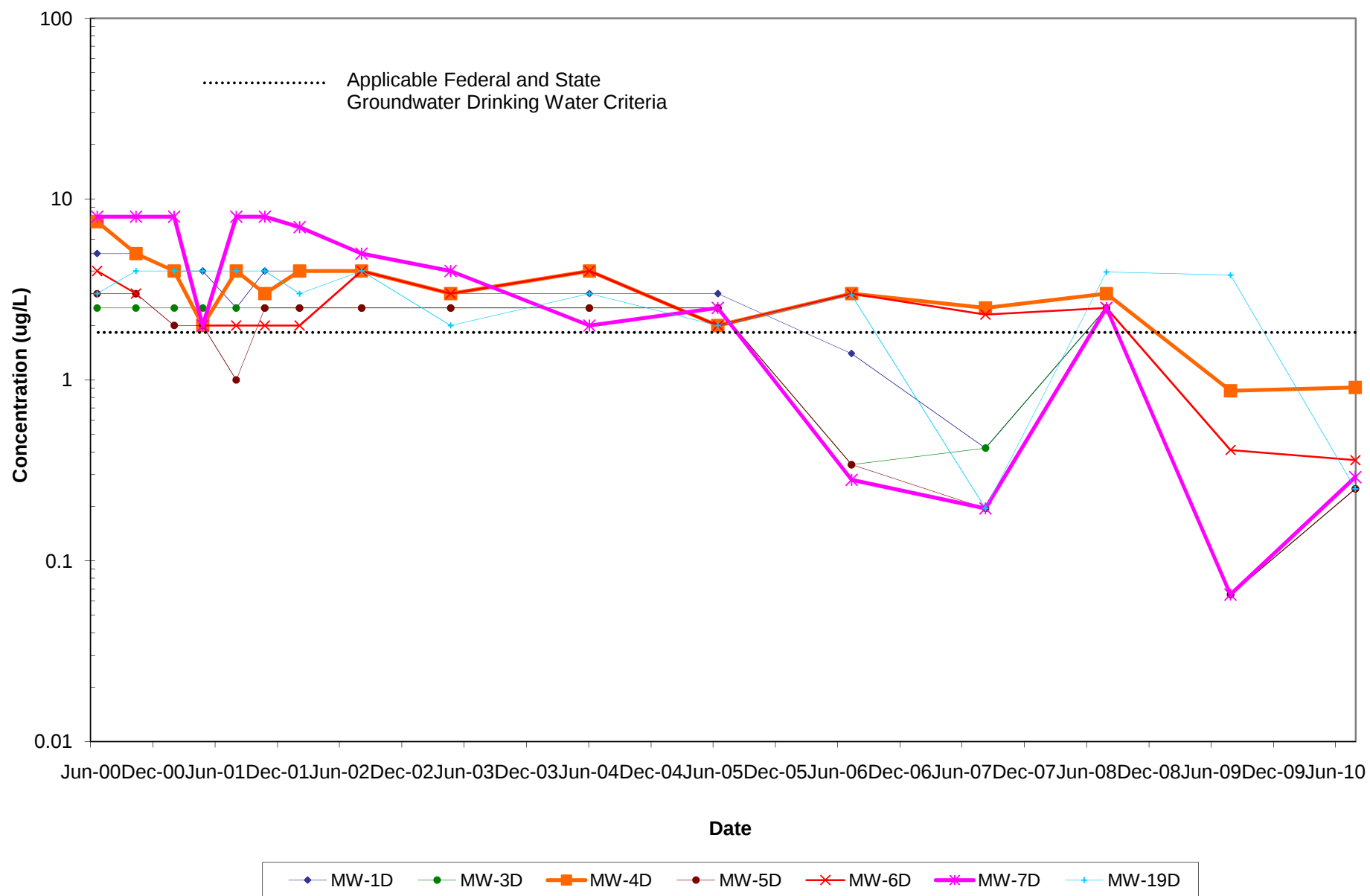
NY Water Quality Criteria: NYSDEC Regulation for Surface Waters and Groundwater, Section 703.5 (August 1999).

Appendix B
Time-Series Geochemical Graphs for Shallow and Deep Wells

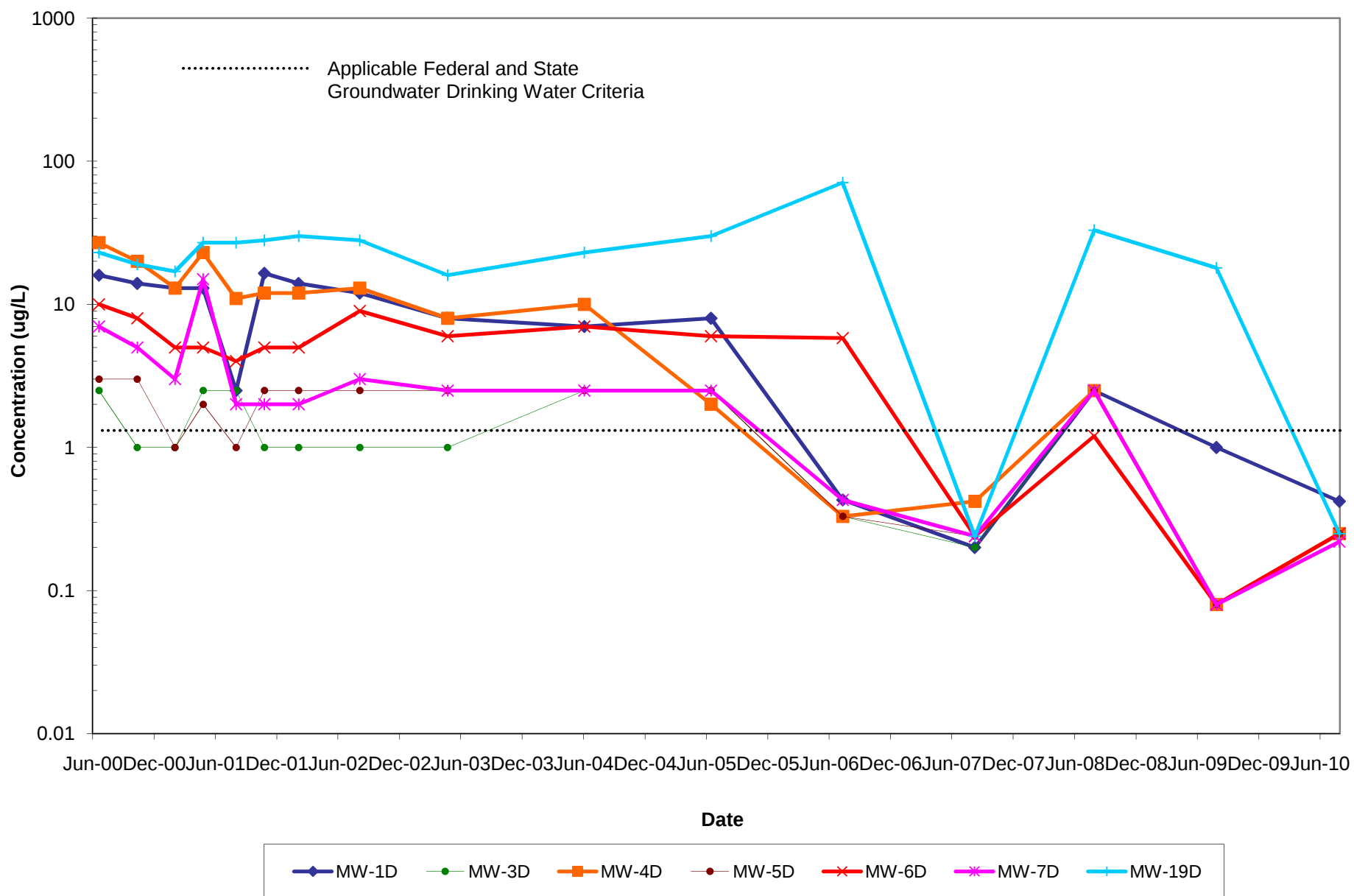
1,1-Dichloroethene Time-Series Graph **Deep Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



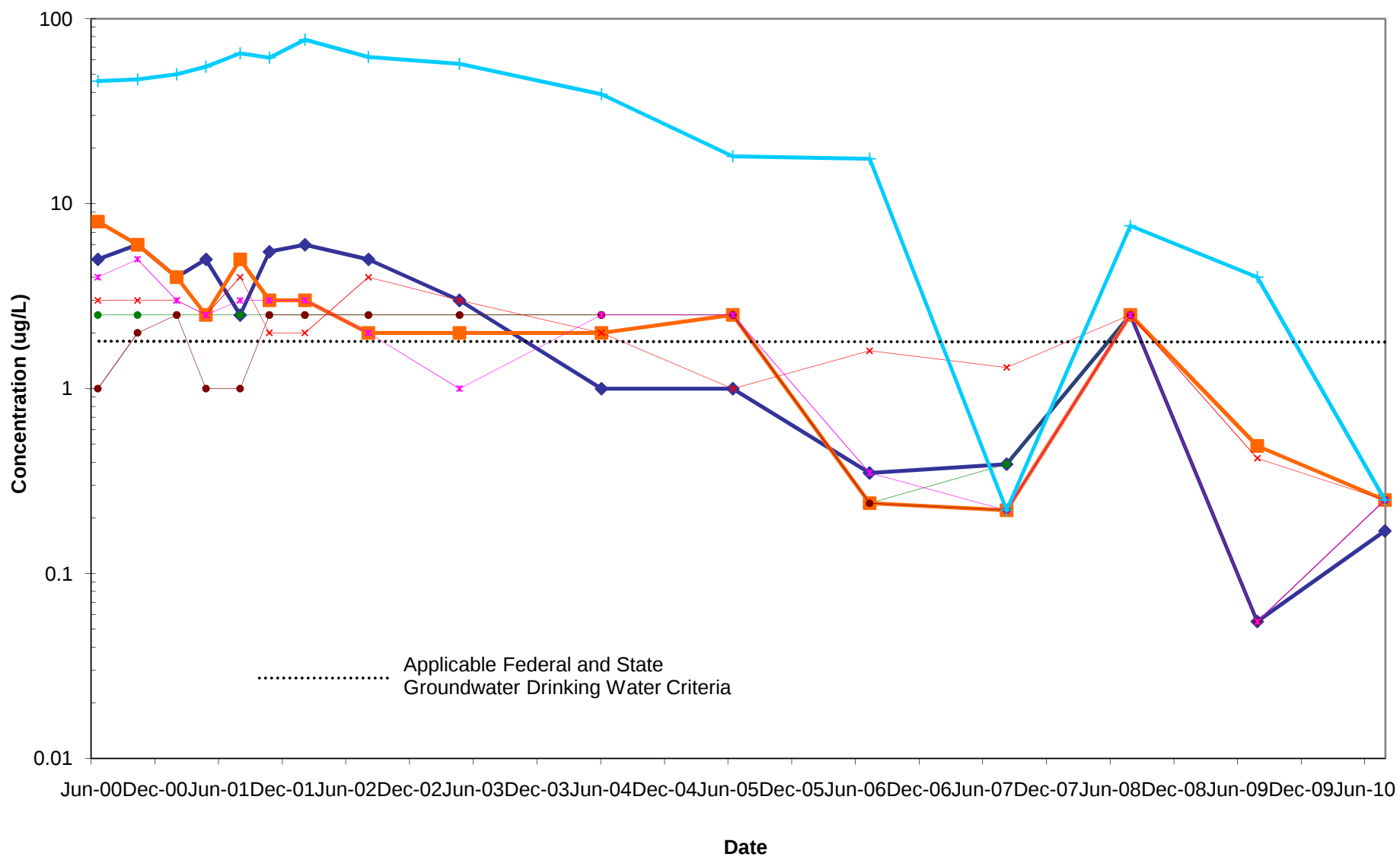
1,1-Dichloroethane Time-Series Graph **Deep Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



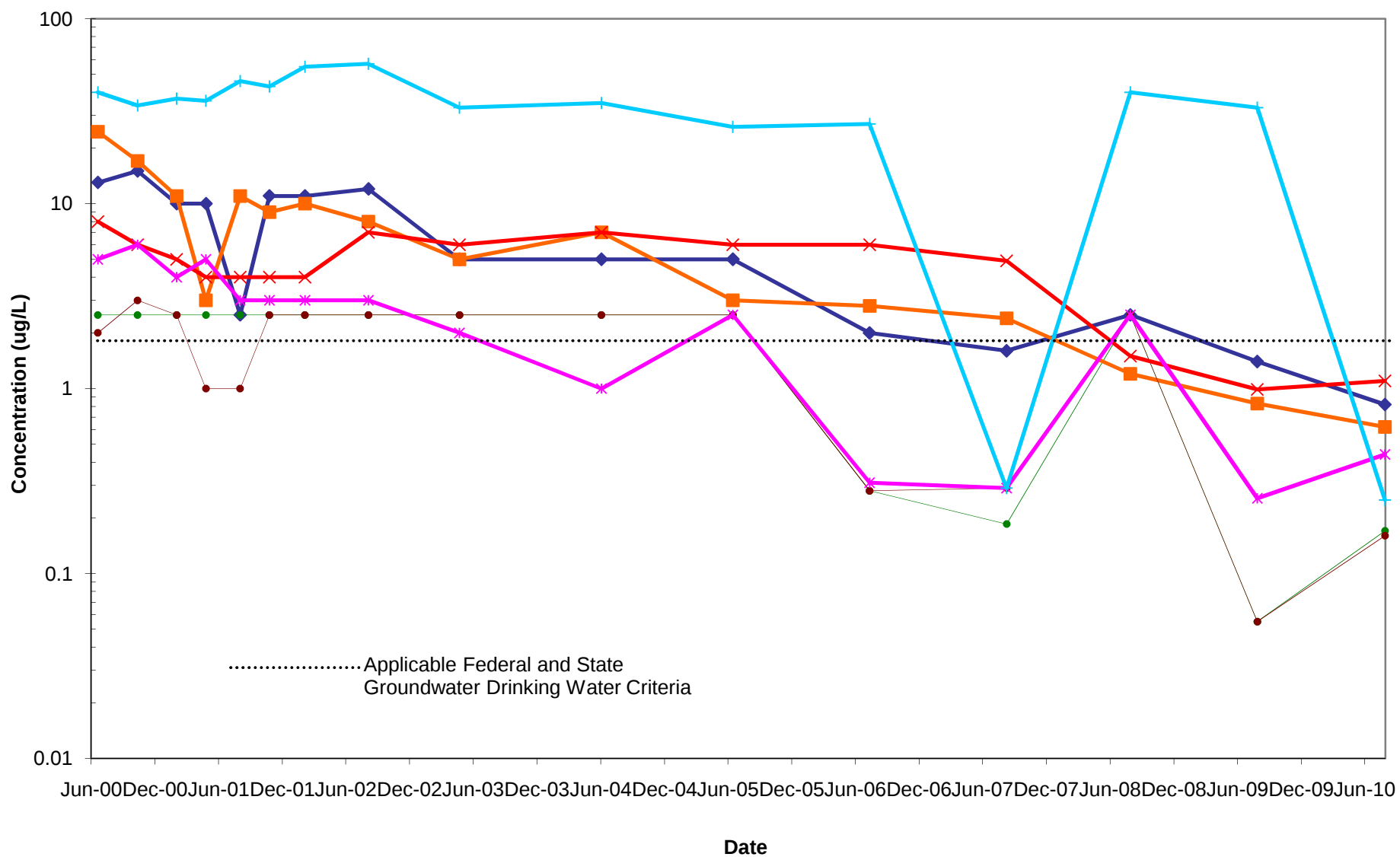
1,1,1-Trichloroethane Time-Series Graph **Deep Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



Tetrachloroethene Time-Series Graph **Deep Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



Trichloroethene Time-Series Graph Deep Wells CIRCUITRON CORPORATION SUPERFUND SITE



**** Note: Used half of the detection limit concentration when result was ND.

Analyte	LocID	6/20/2000	10/12/2000	2/1/2001	4/26/2001	8/2/2001	10/25/2001	2/4/2002
1,1 Dichloroethane	MW-1D	5	5	4	4	2.5	4	4
1,1 Dichloroethane	MW-3D	2.5	2.5	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-4D	7.5	5	4	2	4	3	4
1,1 Dichloroethane	MW-5D	3	3	2	2	1	2.5	2.5
1,1 Dichloroethane	MW-6D	4	3		2	2	2	2
1,1 Dichloroethane	MW-7D	8	8	8	2	8	8	7
1,1 Dichloroethane	MW-19D	3	4	4	4	4	4	3
1,1 Dichloroethene	MW-1D	9	10	7	8	2.5	10	11
1,1 Dichloroethene	MW-3D	2.5	2.5	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-4D	14.5	8	6	6	8	6	8
1,1 Dichloroethene	MW-5D	1.5	3	1	1	2.5	2.5	2.5
1,1 Dichloroethene	MW-6D	5	4	3	3	3	3	4
1,1 Dichloroethene	MW-7D	4	5	3	11	3	3	3
1,1 Dichloroethene	MW-19D	14	14	12	18	19	18.5	23
1,1,1 Trichloroethane	MW-1D	16	14	13	13	2.5	16.5	14
1,1,1 Trichloroethane	MW-3D	2.5	1	1	2.5	2.5	1	1
1,1,1 Trichloroethane	MW-4D	27	20	13	23	11	12	12
1,1,1 Trichloroethane	MW-5D	3	3	1	2	1	2.5	2.5
1,1,1 Trichloroethane	MW-6D	10	8	5	5	4	5	5
1,1,1 Trichloroethane	MW-7D	7	5	3	15	2	2	2
1,1,1 Trichloroethane	MW-19D	23	19	17	27	27	28	30
Tetrachloroethene	MW-1D	5	6	4	5	2.5	5.5	6
Tetrachloroethene	MW-3D	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-4D	8	6	4	2.5	5	3	3
Tetrachloroethene	MW-5D	1	2	2.5	1	1	2.5	2.5
Tetrachloroethene	MW-6D	3	3	3	2.5	4	2	2
Tetrachloroethene	MW-7D	4	5	3	2.5	3	3	3
Tetrachloroethene	MW-19D	46	47	50	55	65	61.5	77
Trichloroethene	MW-1D	13	15	10	10	2.5	11	11
Trichloroethene	MW-3D	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-4D	24.5	17	11	3	11	9	10
Trichloroethene	MW-5D	2	3	2.5	1	1	2.5	2.5
Trichloroethene	MW-6D	8	6	5	4	4	4	4
Trichloroethene	MW-7D	5	6	4	5	3	3	3
Trichloroethene	MW-19D	40	34	37	36	46	43	55

**** Note: Used half of the detection limit concentration when result was ND.

8/5/2002	4/23/2003	6/3/2004	6/15/2005	7/12/2006	8/9/2007	7/29/2008	7/28/2009	7/29/2010
4	3	3	3	1.4	0.42	2.5	0.065	0.25
2.5	2.5	2.5	2.5	0.34	0.42	2.5	0.065	0.25
4	3	4	2	3	2.5	3	0.87	0.91
2.5	2.5	2.5	2.5	0.34	0.195	2.5	0.065	0.25
4	3	4	2	3	2.3	2.5	0.41	0.36
5	4	2	2.5	0.28	0.195	2.5	0.065	0.29
4	2	3	2	2.95	0.195	3.95	3.8	0.25
10	7	7	7	4.8	1.5	2.5	2	0.73
2.5	2.5	2.5	2.5	0.53	0.48	2.5	0.095	0.25
9	5	9	3	4.8	4.3	1.6	1	0.66
2.5	2.5	2.5	2.5	0.53	0.305	2.5	0.095	0.25
7	5	6	5	7.8	5.3	1.3	0.67	0.32
4	1	1	2.5	0.4	0.305	2.5	0.57	0.45
24	11	22	25	100	0.305	41	29	0.25
12	8	7	8	0.43	0.2	2.5	1	0.42
1	1	2.5	2.5	0.33	0.2	2.5	0.08	0.25
13	8	10	2	0.33	0.42	2.5	0.08	0.25
2.5	2.5	2.5	2.5	0.33	0.24	2.5	0.08	0.25
9	6	7	6	5.8	0.24	1.2	0.08	0.25
3	2.5	2.5	2.5	0.43	0.24	2.5	0.08	0.22
28	16	23	30	71	0.24	33	18	0.25
5	3	1	1	0.35	0.39	2.5	0.055	0.17
2.5	2.5	2.5	2.5	0.24	0.39	2.5	0.055	0.25
2	2	2	2.5	0.24	0.22	2.5	0.49	0.25
2.5	2.5	2.5	2.5	0.24	0.22	2.5	0.055	0.25
4	3	2	1	1.6	1.3	2.5	0.42	0.25
2	1	2.5	2.5	0.35	0.22	2.5	0.055	0.25
62	57	39	18	17.5	0.22	7.6	4	0.25
12	5	5	5	2	1.6	2.5	1.4	0.82
2.5	2.5	2.5	2.5	0.28	0.185	2.5	0.055	0.17
8	5	7	3	2.8	2.4	1.2	0.83	0.62
2.5	2.5	2.5	2.5	0.28	0.29	2.5	0.055	0.16
7	6	7	6	6	4.9	1.5	0.99	1.1
3	2	1	2.5	0.31	0.29	2.5	0.3	0.4
57	33	35	26	27	0.29	40	33	0.25

	1d	3d	4d	5d	6d	7d
1,1 Dichloroethane	0.25	0.25	0.91	0.25	0.36	0.29
1,1 Dichloroethene	0.73	0.25	0.66	0.25	0.32	0.45
1,1,1 Trichloroethane	0.42	0.25	0.25	0.25	0.25	0.22
Tetrachloroethene	0.17	0.25	0.25	0.25	0.25	0.25
Trichloroethene	0.82	0.17	0.62	0.16	1.1	0.44
1,1,2 Trichloroethane	0.25	0.25	0.25	0.25	0.25	0.25
1,2 Dichloroethene (total)	0.25	0.25	0.25	0.25	0.25	0.54

19d

0.25

0.25

0.25

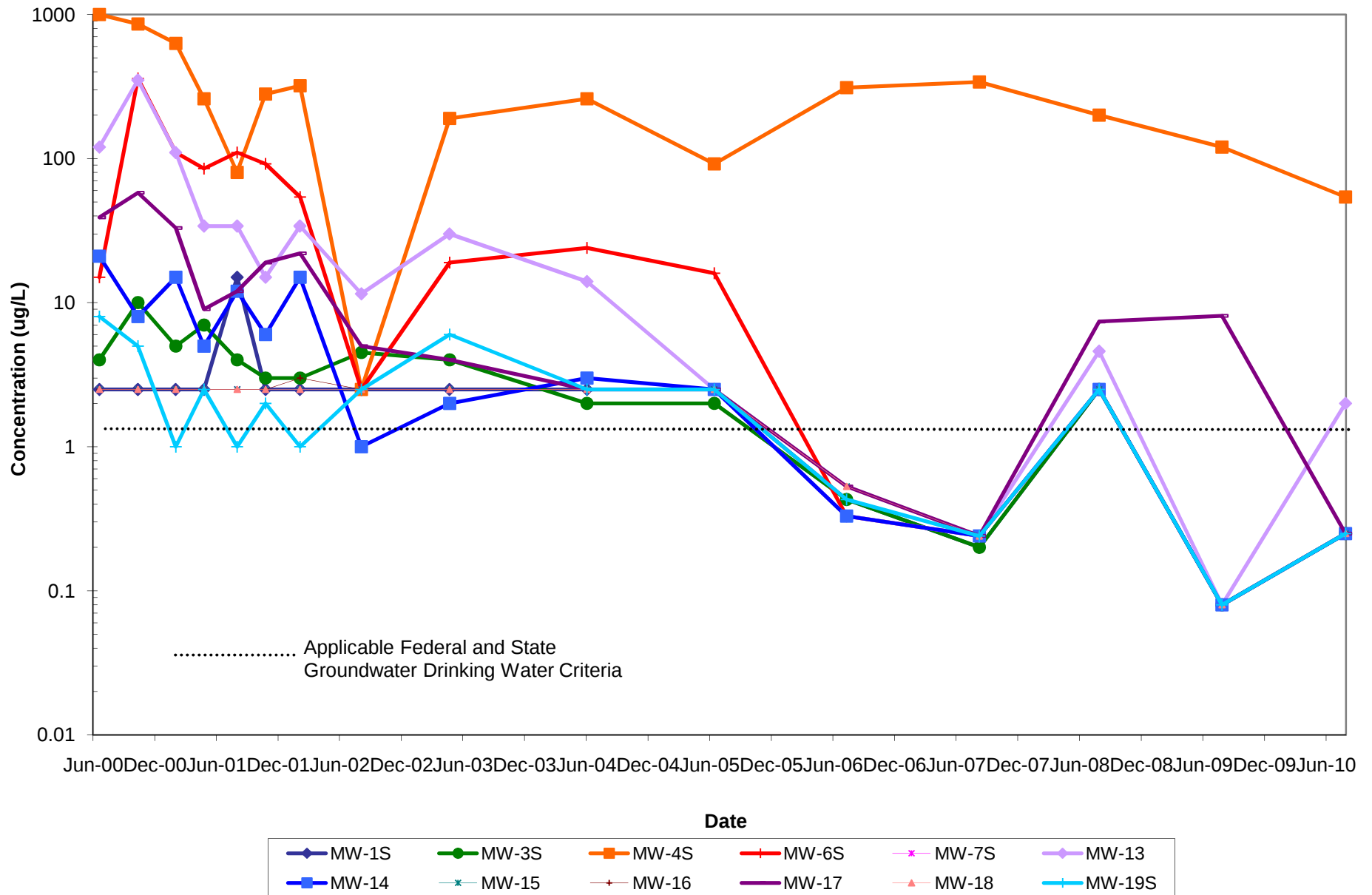
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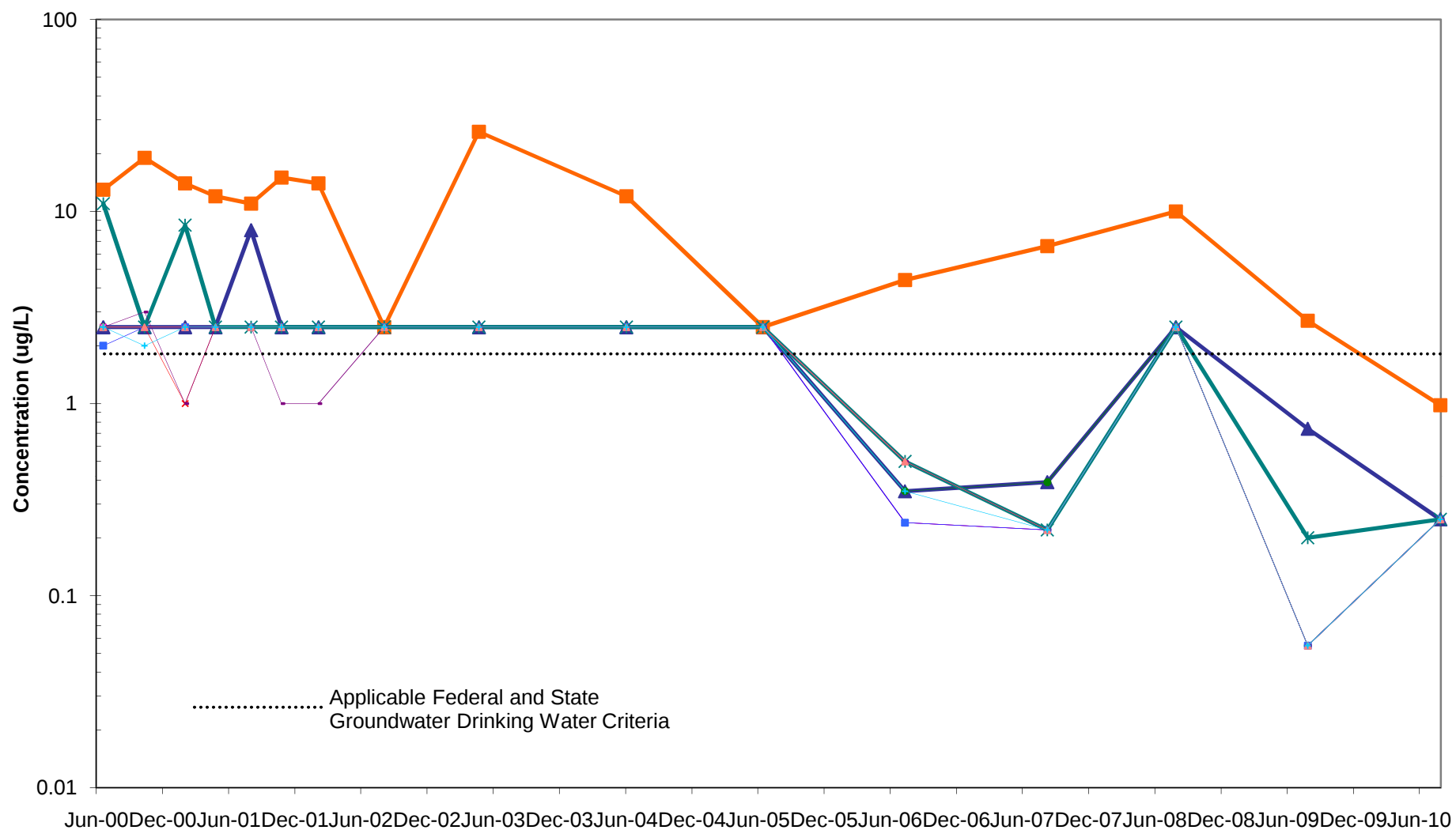
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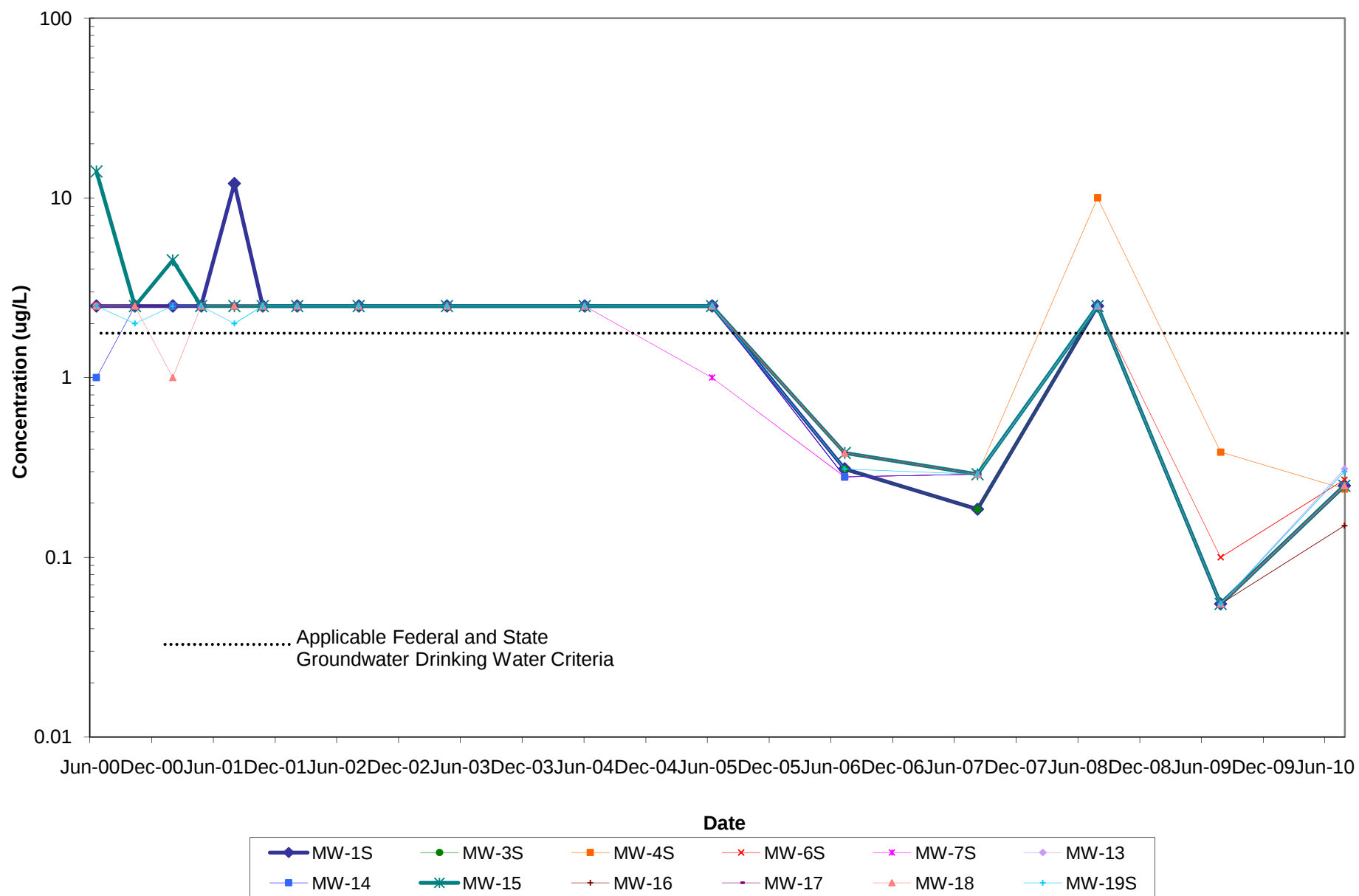
**1,1,1-Trichloroethane Time-Series Graph
Shallow Wells
CIRCUITRON CORPORATION SUPERFUND SITE**



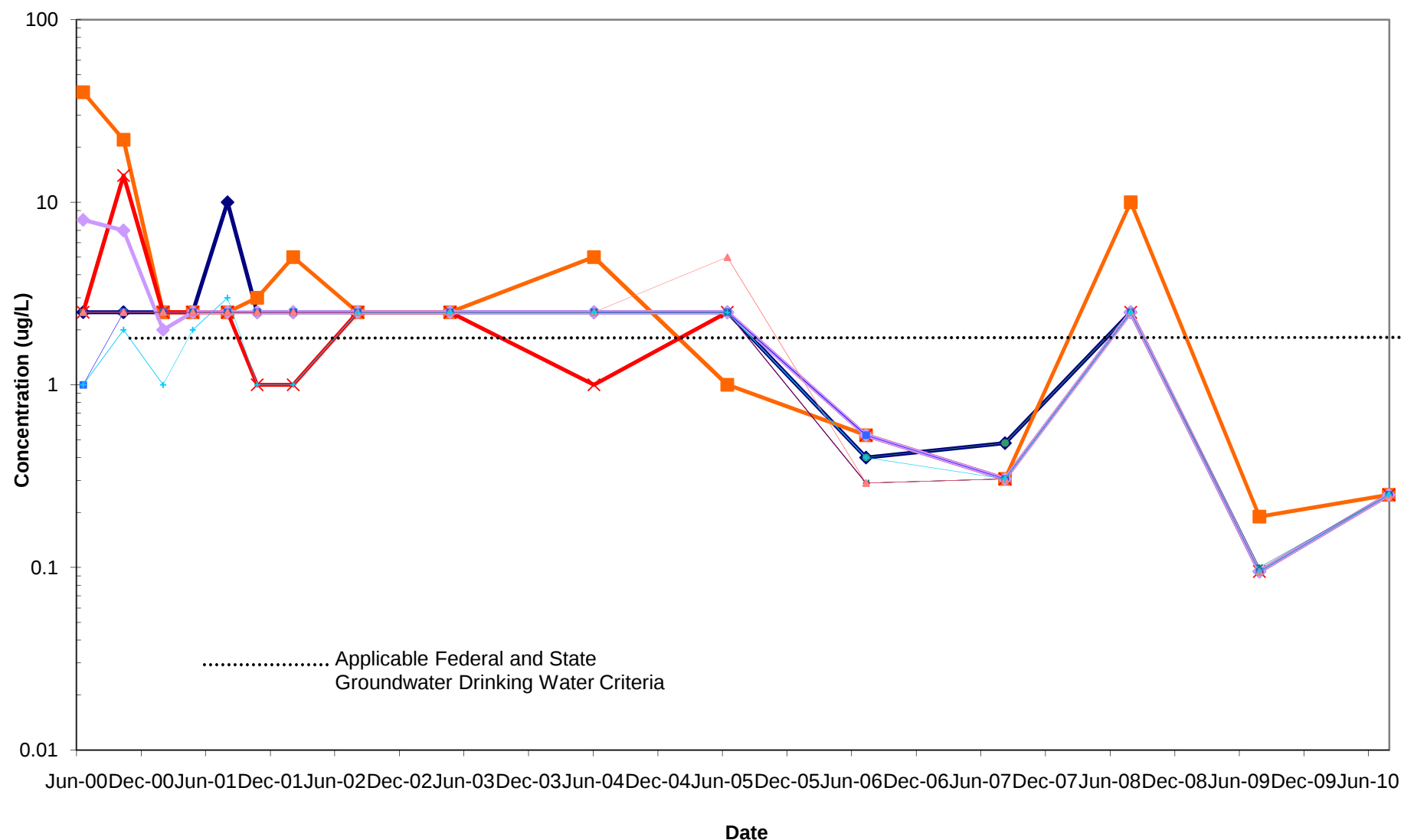
Tetrachloroethene Time-Series Graph **Shallow Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



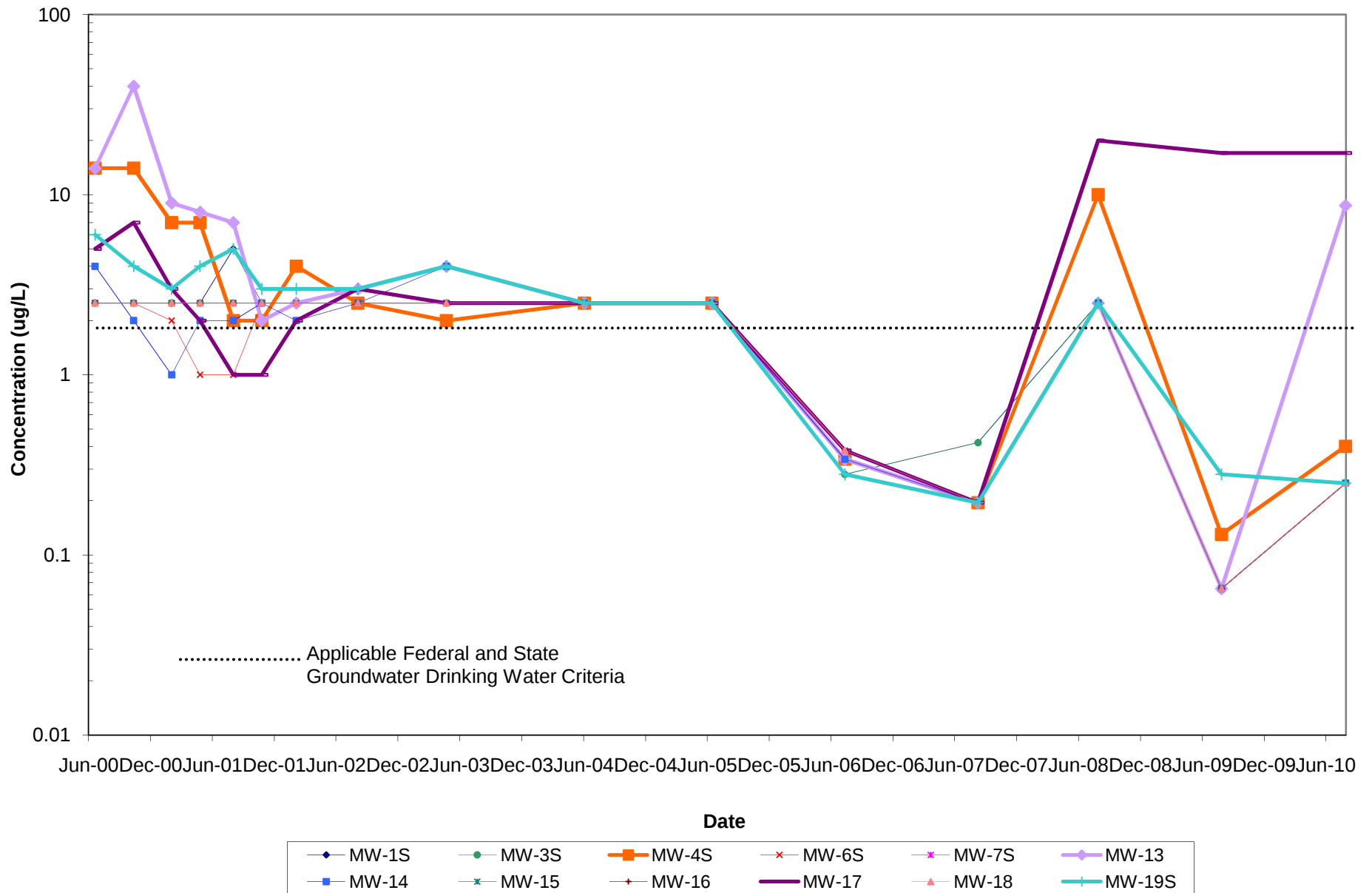
Trichloroethene Time-Series Graph Shallow Wells CIRCUITRON CORPORATION SUPERFUND SITE



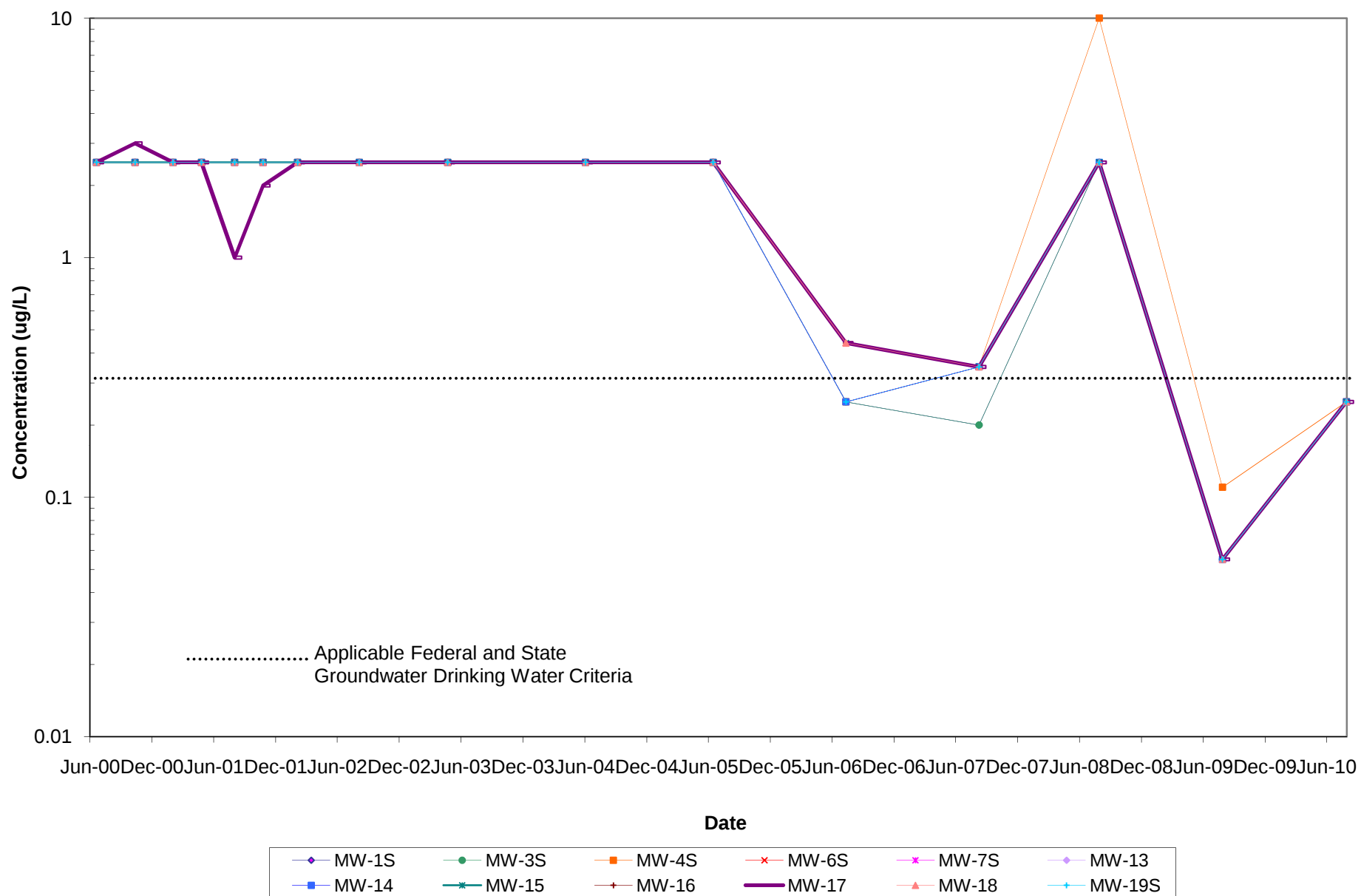
1,1-Dichloroethene Time-Series Graph **Shallow Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



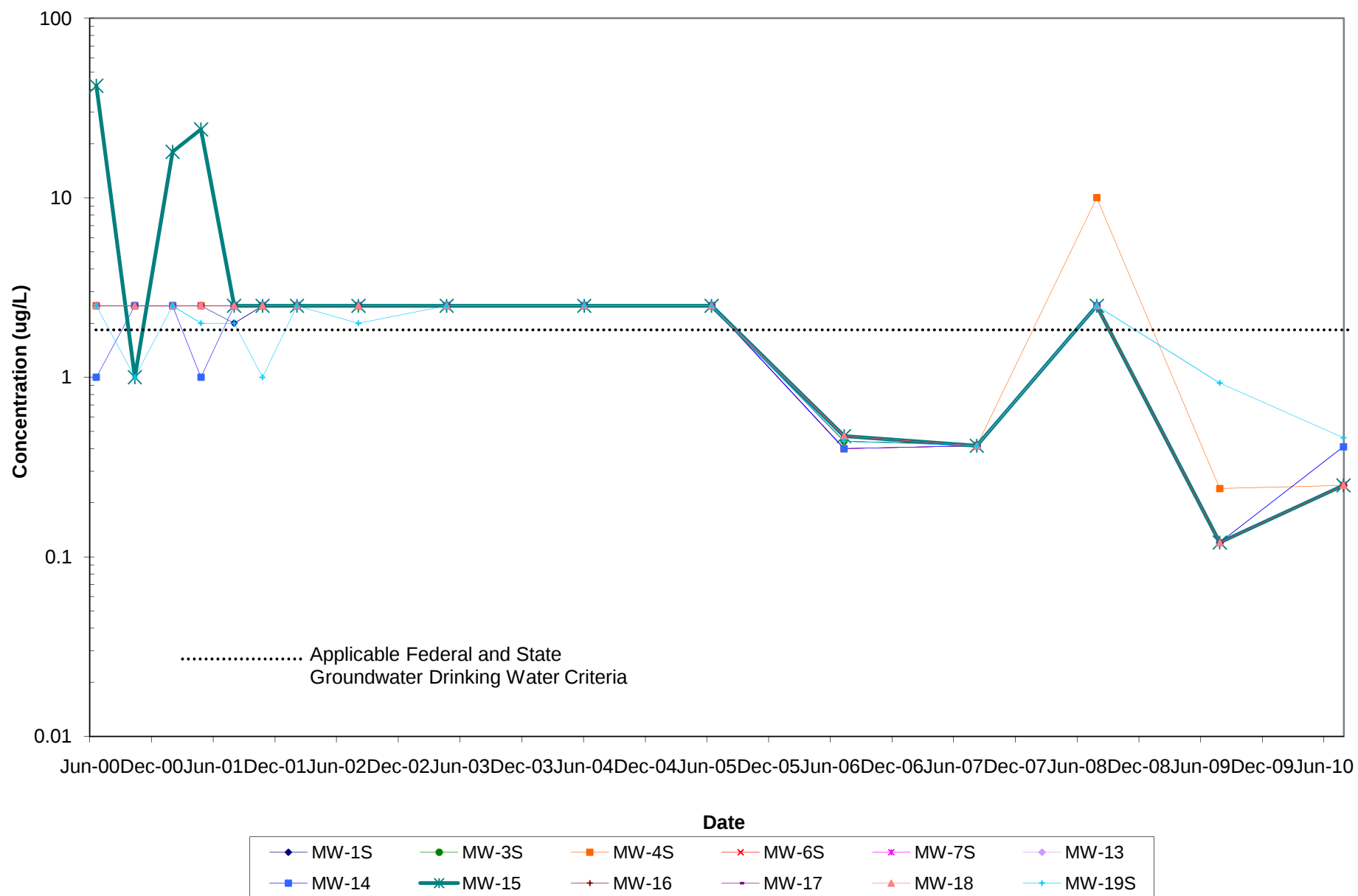
1,1-Dichloroethane Time-Series Graph
Shallow Wells
CIRCUITRON CORPORATION SUPERFUND SITE



1,1,2 Trichloroethane Time-Series Graph **Shallow Wells** **CIRCUITRON CORPORATION SUPERFUND SITE**



**1,2 Dichloroethene (total) Time-Series Graph
Shallow Wells
CIRCUITRON CORPORATION SUPERFUND SITE**



**** Note: Used half of the detection limit concentration when result was ND.

Analyte	LocID	6/20/2000	10/12/2000	2/1/2001	4/26/2001	8/2/2001
1,1 Dichloroethane	MW-1S	2.5	2.5	2.5	2.5	5
1,1 Dichloroethane	MW-3S	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-4S	14	14	7	7	2
1,1 Dichloroethane	MW-6S	2.5	2.5	2	1	1
1,1 Dichloroethane	MW-7S	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-13	14	40	9	8	7
1,1 Dichloroethane	MW-14	4	2	1	2	2
1,1 Dichloroethane	MW-15	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-16	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-17	5	7	3	2	1
1,1 Dichloroethane	MW-18	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethane	MW-19S	6	4	3	4	5
1,1 Dichloroethene	MW-1S	2.5	2.5	2.5	2.5	10
1,1 Dichloroethene	MW-3S	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-4S	40	22	2.5	2.5	2.5
1,1 Dichloroethene	MW-6S	2.5	14	2.5	2.5	2.5
1,1 Dichloroethene	MW-7S	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-13	8	7	2	2.5	2.5
1,1 Dichloroethene	MW-14	1	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-15	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-16	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-17	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-18	2.5	2.5	2.5	2.5	2.5
1,1 Dichloroethene	MW-19S	1	2	1	2	3
1,1,1 Trichloroethane	MW-1S	2.5	2.5	2.5	2.5	15
1,1,1 Trichloroethane	MW-3S	4	10	5	7	4
1,1,1 Trichloroethane	MW-4S	1000	860	630	260	80
1,1,1 Trichloroethane	MW-6S	15	360	110	85	110
1,1,1 Trichloroethane	MW-7S	2.5	2.5	2.5	2.5	2.5
1,1,1 Trichloroethane	MW-13	120	350	110	34	34
1,1,1 Trichloroethane	MW-14	21	8	15	5	12
1,1,1 Trichloroethane	MW-15	2.5	2.5	2.5	2.5	2.5
1,1,1 Trichloroethane	MW-16	2.5	2.5	2.5	2.5	2.5
1,1,1 Trichloroethane	MW-17	39	58	33	9	12
1,1,1 Trichloroethane	MW-18	2.5	2.5	2.5	2.5	2.5
1,1,1 Trichloroethane	MW-19S	8	5	1	2.5	1
Tetrachloroethene	MW-1S	2.5	2.5	2.5	2.5	8
Tetrachloroethene	MW-3S	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-4S	13	19	14	12	11
Tetrachloroethene	MW-6S	2.5	2.5	1	2.5	2.5
Tetrachloroethene	MW-7S	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-13	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-14	2	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-15	11	2.5	8.5	2.5	2.5
Tetrachloroethene	MW-16	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-17	2.5	3	1	2.5	2.5
Tetrachloroethene	MW-18	2.5	2.5	2.5	2.5	2.5
Tetrachloroethene	MW-19S	2.5	2	2.5	2.5	2.5
Trichloroethene	MW-1S	2.5	2.5	2.5	2.5	12

Trichloroethene	MW-3S	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-4S	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-6S	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-7S	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-13	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-14	1	2.5	2.5	2.5	2.5
Trichloroethene	MW-15	14	2.5	4.5	2.5	2.5
Trichloroethene	MW-16	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-17	2.5	2.5	2.5	2.5	2.5
Trichloroethene	MW-18	2.5	2.5	1	2.5	2.5
Trichloroethene	MW-19S	2.5	2	2.5	2.5	2
1,1,2 Trichloroethane	MW-1S	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-3S	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-4S	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-6S	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-7S	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-13	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-14	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-15	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-16	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-17	2.5	3	2.5	2.5	1
1,1,2 Trichloroethane	MW-18	2.5	2.5	2.5	2.5	2.5
1,1,2 Trichloroethane	MW-19S	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-1S	2.5	2.5	2.5	2.5	2
1,2 Dichloroethene (total)	MW-3S	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-4S	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-6S	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-7S	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-13	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-14	1	2.5	2.5	1	2.5
1,2 Dichloroethene (total)	MW-15	42	1	18	24	2.5
1,2 Dichloroethene (total)	MW-16	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-17	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-18	2.5	2.5	2.5	2.5	2.5
1,2 Dichloroethene (total)	MW-19S	2.5	1	2.5	2	2

**** Note: Used half of the detection limit concentration when result was ND.

10/25/2001	2/4/2002	8/5/2002	4/23/2003	6/3/2004	6/15/2005	7/12/2006	8/9/2007	7/29/2008
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.42	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.42	2.5
2	4	2.5	2	2.5	2.5	0.34	0.195	10
2.5	2.5	2.5	2.5	2.5	2.5	0.34	0.195	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.34	0.195	2.5
2	2.5	3	4	2.5	2.5	0.34	0.195	2.5
2.5	2	2.5	4	2.5	2.5	0.34	0.195	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.195	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.195	2.5
1	2	3	2.5	2.5	2.5	0.38	0.195	20
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.195	2.5
3	3	3	4	2.5	2.5	0.28	0.195	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.48	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.48	2.5
3	5	2.5	2.5	5	1	0.53	0.305	10
1	1	2.5	2.5	1	2.5	0.53	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.53	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.53	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.53	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.29	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.29	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.29	0.305	2.5
2.5	2.5	2.5	2.5	2.5	5	0.29	0.305	2.5
1	1	2.5	2.5	2.5	2.5	0.4	0.305	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.43	0.2	2.5
3	3	4.5	4	2	2	0.43	0.2	2.5
280	320	2.5	190	260	92	310	340	200
92	54	2.5	19	24	16	0.33	0.24	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.33	0.24	2.5
15	34	11.5	30	14	2.5	0.33	0.24	4.6
6	15	1	2	3	2.5	0.33	0.24	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.53	0.24	2.5
2.5	3	2.5	2.5	2.5	2.5	0.53	0.24	2.5
19	22	5	4	2.5	2.5	0.53	0.24	7.4
2.5	2.5	2.5	2.5	2.5	2.5	0.53	0.24	2.5
2	1	2.5	6	2.5	2.5	0.43	0.24	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.35	0.39	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.35	0.39	2.5
15	14	2.5	26	12	2.5	4.4	6.6	10
2.5	2.5	2.5	2.5	2.5	2.5	0.24	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.24	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.24	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.24	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.5	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.5	0.22	2.5
1	1	2.5	2.5	2.5	2.5	0.5	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.5	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.35	0.22	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.31	0.185	2.5

2.5	2.5	2.5	2.5	2.5	2.5	0.31	0.185	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.29	10
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.29	2.5
2.5	2.5	2.5	2.5	2.5	1	0.28	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.28	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.38	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.31	0.29	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.2	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.2	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	10
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.44	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.44	0.35	2.5
2	2.5	2.5	2.5	2.5	2.5	0.44	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.44	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.25	0.35	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.44	0.42	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.44	0.42	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.415	10
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.4	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.47	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.47	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.47	0.415	2.5
2.5	2.5	2.5	2.5	2.5	2.5	0.47	0.415	2.5
1	2.5	2	2.5	2.5	2.5	0.44	0.415	2.5

				1S	3S
7/28/2009	7/29/2010	1,1 Dichloroethane	1,1 Dichloroethane	0.25	0.25
0.065	0.25	1,1 Dichloroethene	1,1 Dichloroethene	0.25	0.25
0.065	0.25	1,1,1 Trichloroethane	1,1,1 Trichloroethane	0.25	0.25
0.13	0.4	Tetrachloroethene	Tetrachloroethene	0.25	0.25
0.065	0.25	Trichloroethene	Trichloroethene	0.25	0.25
0.065	0.25	1,1,2 Trichloroethane	1,1,2 Trichloroethane	0.25	0.25
0.065	8.7	1,2 Dichloroethene (total)	1,2 Dichloroethene (to	0.25	0.25
0.065	0.25				
0.065	0.25				
0.065	0.25				
17	17				
0.065	0.25				
0.28	0.25				
0.095	0.25				
0.095	0.25				
0.19	0.25				
0.095	0.25				
0.095	0.25				
0.095	0.25				
0.095	0.25				
0.1	0.25				
0.095	0.25				
0.095	0.25				
0.095	0.25				
0.095	0.25				
0.08	0.25				
0.08	0.25				
120	54				
0.08	0.25				
0.08	0.25				
0.08	2				
0.08	0.25				
0.08	0.25				
0.08	0.25				
8.1	0.25				
0.08	0.25				
0.08	0.25				
0.74	0.25				
0.055	0.25				
2.7	0.98				
0.055	0.25				
0.055	0.25				
0.055	0.25				
0.055	0.25				
0.2	0.25				
0.055	0.25				
0.055	0.25				
0.055	0.25				
0.055	0.25				
0.055	0.25				

0.055	0.25
0.385	0.24
0.1	0.27
0.055	0.25
0.055	0.31
0.055	0.25
0.055	0.25
0.055	0.15
0.055	0.25
0.055	0.25
0.055	0.3
0.055	0.25
0.055	0.25
0.11	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.055	0.25
0.12	0.25
0.12	0.25
0.24	0.25
0.12	0.25
0.12	0.25
0.12	0.25
0.12	0.41
0.12	0.25
0.12	0.25
0.12	0.25
0.12	0.25
0.93	0.46

4s	6s	7s	13	14	15	16	17	18
0.4	0.25	0.25	8.7	0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
54	0.25	0.25	2	0.25	0.25	0.25	0.25	0.25
0.98	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
0.24	0.27	0.25	0.31	0.25	0.25	0.15	0.25	0.25
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.41	0.25	0.25	0.25	0.25

19s

0.25

0.25

0.25

0.25

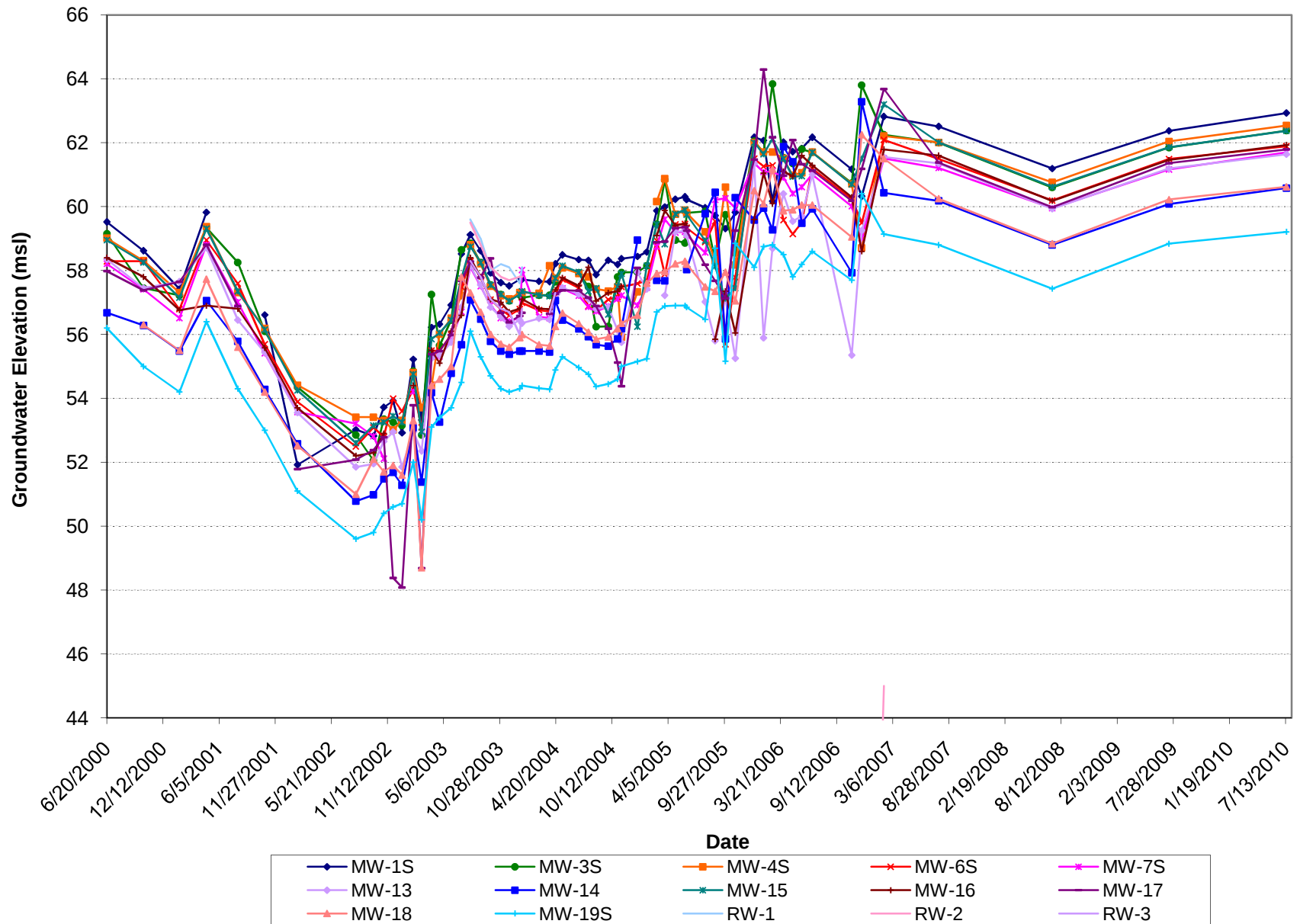
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0.25

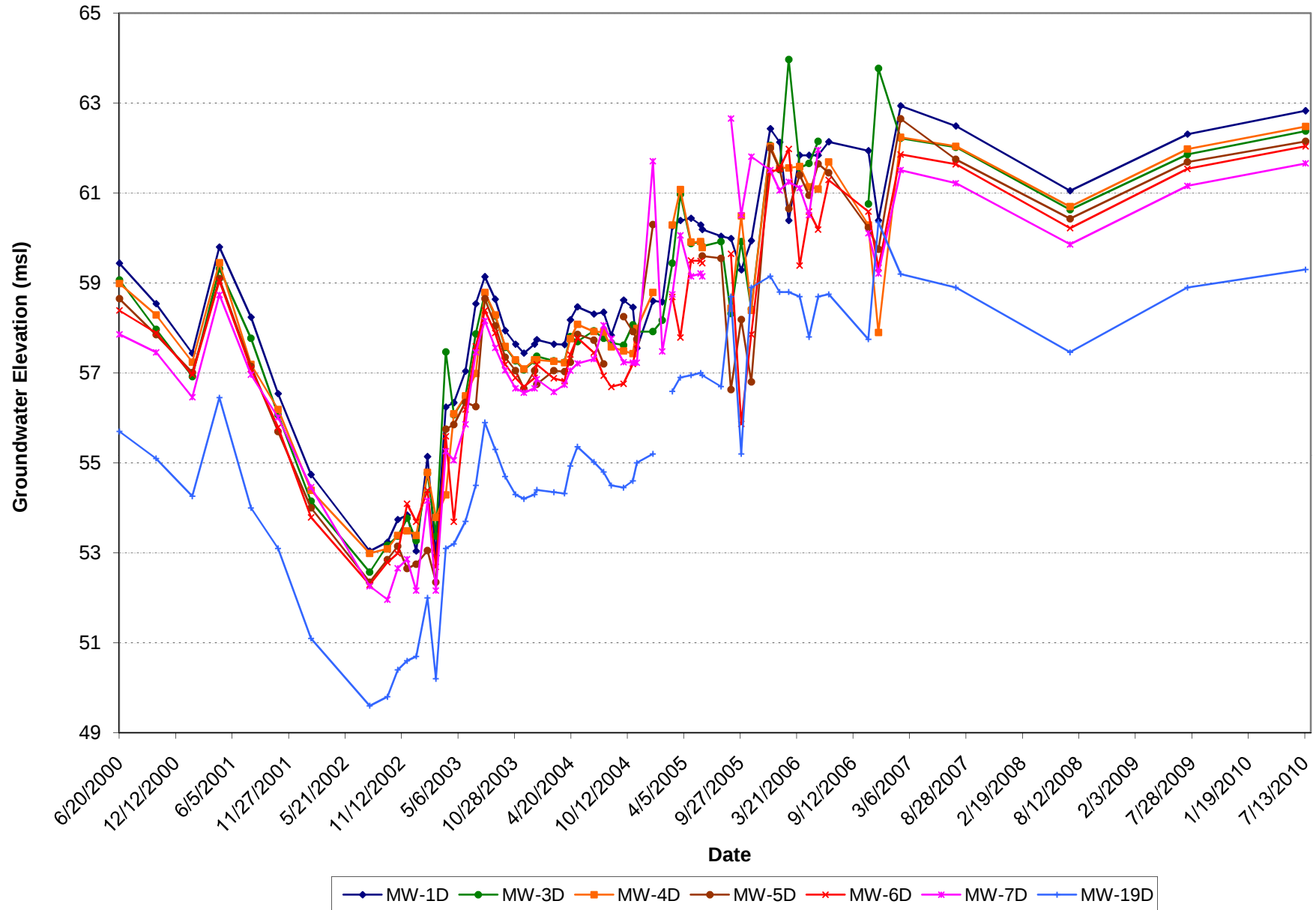
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Appendix C
Hydrographs for Shallow and Deep Wells

Hydrograph of Shallow Wells **CIRCUITRON CORPORATION SUPERFUND SITE**



Hydrograph of Deep Wells **CIRCUITRON CORPORATION SUPERFUND SITE**



LocID	6/20/2000	10/12/2000	2/1/2001	4/26/2001	8/2/2001	10/25/2001	2/4/2002
MW-1S	59.52	58.62	57.42	59.82		56.61	51.92
MW-3S	59.15	57.45	57.22	59.34	58.25	56.1	54.35
MW-4S	59.01	58.31	57.31	59.37	57.31	56.19	54.41
MW-6S	58.29	58.29	56.79	58.95	57.59	55.69	53.89
MW-7S	58.21	57.41	56.51	58.81	57.01	55.41	53.57
MW-13	58.35	57.45	57.65	58.71	56.45	55.44	53.55
MW-14	56.68	56.28	55.48	57.06	55.78	54.28	52.58
MW-15	58.95	58.25	57.15	59.31	57.35	56.15	54.25
MW-16	58.4	57.8	56.76	56.9	56.8	55.58	53.7
MW-17	57.98	57.38	57.65	58.81	56.88		51.78
MW-18		56.3	55.5	57.73	55.6	54.2	52.52
MW-19S	56.2	55	54.2	56.4	54.3	53.00	51.1
RW-1							
RW-2							
RW-3							
MW-1D	59.44	58.54	57.44	59.8	58.24	56.54	54.74
MW-3D	59.07	57.97	56.92	59.32	57.77	56.07	54.15
MW-4D	58.99	58.29	57.24	59.45	57.19	56.19	54.39
MW-5D	58.65	57.85	57.01	59.1	57.15	55.7	54
MW-6D	58.39	57.89	56.96	59.05	57.09	55.79	53.79
MW-7D	57.86	57.46	56.46	58.74	56.96	56.01	54.46
MW-19D	55.7	55.1	54.26	56.45	54	53.1	51.1

Note:

MW-7S was dry on 11/29/02, 12/27/02, and 2/26/03.

6/28/2006 data removed for MW-3D and MW-7D

LocID	8/5/2002	9/29/2002	10/31/2002	11/29/2002	12/27/2002	1/31/2003	2/26/2003	3/29/2003
MW-1S	53.02	52.82	53.72	53.92	52.92	55.22	53.32	56.22
MW-3S	52.85	52.05	53.35	53.25	53.15	54.85	52.85	57.25
MW-4S	53.41	53.41	53.31	53.01	53.31	54.81	53.71	54.41
MW-6S	52.49	53.09	52.79	53.99	53.59	54.29	53.09	55.49
MW-7S	53.21	52.81	52.11			54.21		55.31
MW-13	51.85	51.95	52.65	52.95	51.85	52.95	52.35	55.25
MW-14	50.78	50.98	51.48	51.68	51.28	53.08	51.38	54.18
MW-15	52.6	53.15	53.25	53.45	53.25	54.75	52.95	55.85
MW-16	52.2	52.3	52.9			54.4		55.5
MW-17	52.08	52.38	52.78	48.38	48.08	53.78	48.68	55.38
MW-18	51	52.1	51.7	51.9	51.6	53.3	48.7	54.4
MW-19S	49.6	49.8	50.4	50.6	50.7	52	50.2	53.1
RW-1								
RW-2								
RW-3								
MW-1D	53.04	53.24	53.74	53.84	53.04	55.14	52.94	56.24
MW-3D	52.57	53.17	53.37	53.77	53.27	54.77	53.37	57.47
MW-4D	52.99	53.09	53.39	53.49	53.39	54.79	53.79	54.29
MW-5D	52.35	52.85	53.15	52.65	52.75	53.05	52.35	55.75
MW-6D	52.29	52.79	52.99	54.09	53.69	54.39	52.69	55.59
MW-7D	52.26	51.96	52.66	52.86	52.16	54.16	52.16	55.26
MW-19D	49.6	49.8	50.4	50.6	50.7	52	50.2	53.1

Note:

MW-7S wa

6/28/2006 c

LocID	4/23/2003	5/29/2003	6/30/2003	7/28/2003	8/29/2003	9/29/2003	10/31/2003	11/26/2003
MW-1S	56.32	56.92	58.52	59.12	58.62	57.92	57.62	57.52
MW-3S	55.65	56.45	58.65	58.85	58.25	57.55	57.25	57.05
MW-4S	56.01	56.51	57.21	58.81	58.21	57.51	57.21	57.11
MW-6S	55.49	55.99	57.49	58.29	57.79	57.09	56.79	56.59
MW-7S	55.31	55.81	56.71	58.11	57.51	56.91	56.51	56.41
MW-13	55.35	55.75	56.85	58.15	57.55	56.85	56.55	56.25
MW-14	53.26	54.78	55.68	57.08	56.48	55.78	55.48	55.38
MW-15	56.05	56.45	57.75	58.75	58.25	57.55	57.25	57.05
MW-16	55.1	56.1	56.6	58.4	57.8	57.1	57	56.7
MW-17	55.48	55.98	57.68	58.28	57.78	58.38	56.68	56.38
MW-18	54.6	55	57.8	57.3	56.7	56	55.7	55.6
MW-19S	53.4	53.7	54.5	56.1	55.3	54.7	54.3	54.2
RW-1				59.6	59	58	58.2	58.1
RW-2				59.5	58.8	58.1	57.8	57.7
RW-3				58.3	57.8	57.1	56.8	56.7
MW-1D	56.34	57.04	58.54	59.14	58.64	57.94	57.64	57.44
MW-3D	56.07	56.47	57.87	58.77	58.27	57.57	57.27	57.07
MW-4D	56.09	56.49	56.99	58.79	58.29	57.59	57.29	57.09
MW-5D	55.85	56.35	56.25	58.65	58.05	57.35	57.05	56.65
MW-6D	53.69	56.19	57.59	58.39	57.89	57.19	56.89	56.69
MW-7D	55.06	55.86	57.46	58.16	57.56	57.06	56.66	56.56
MW-19D	53.2	53.7	54.5	55.9	55.3	54.7	54.3	54.2

Note:

MW-7S wa

6/28/2006 c

LocID	12/29/2003	1/5/2004	2/27/2004	3/31/2004	4/18/2004	5/10/2004	6/30/2004	7/30/2004
MW-1S	57.72	57.72	57.66	57.65	58.21	58.49	58.34	58.32
MW-3S	57.25	57.15	57.23	57.23	57.65	58.1	57.93	57.5
MW-4S	57.31	57.31	57.29	58.15	57.76	58.08	57.91	57.8
MW-6S	56.79	56.99	56.76	56.72	57.26	57.72	57.46	56.88
MW-7S	56.51	58.01	56.55	56.51	57.08	57.44	57.21	56.86
MW-13	56.45	56.35	56.5	56.46	57.04	57.46	57.26	57.1
MW-14	55.48	55.48	55.48	55.45	57.06	56.45	56.17	55.93
MW-15	57.25	57.35	57.23	57.20	57.75	58.15	57.95	57.35
MW-16	56.8	57.1	56.81	56.79	57.39	57.77	57.52	58.1
MW-17	56.58	56.68		56.65	57.27	57.38	57.37	57.15
MW-18	55.9	56	55.68	55.64	56.25	56.67	56.34	56.07
MW-19S	54.3	54.4	54.31	54.28	54.89	55.3	54.96	54.75
RW-1	57.6	58.1		48.99			26.14	25.75
RW-2	57.8	57.8		44.15			25.18	25.50
RW-3	56	56.8		56.69	57.3		28.16	28.30
MW-1D	57.64	57.74	57.64	57.63	58.18	58.47	58.31	58.35
MW-3D	57.27	57.37	57.27	57.24	57.81	57.7	57.94	57.77
MW-4D	57.29	57.29	57.26	57.23	57.76	58.08	57.92	57.91
MW-5D	57.05	56.75	57.05	57.03	57.24	57.86	57.73	57.2
MW-6D	56.89	57.19	56.88	56.82	57.41	57.78	57.45	56.94
MW-7D	56.66	56.86	56.58	56.74	57.05	57.21	57.31	58.06
MW-19D	54.3	54.4	54.35	54.32	54.93	55.36	55.02	54.8

Note:

MW-7S wa

6/28/2006 c

LocID	8/23/2004	9/30/2004	10/29/2004	11/10/2004	12/30/2004	1/28/2005	2/28/2005	3/25/2005
MW-1S	57.87	58.32	58.19	58.37	58.44	58.58	59.87	59.99
MW-3S	56.24	56.25	57.80	57.94	57.95	58.15	59.45	60.84
MW-4S	57.42	57.36	57.49	55.91	57.33		60.16	60.88
MW-6S	56.74	57.09	57.17	57.49	57.59	57.69	58.94	57.88
MW-7S	56.72	56.88	57.11	57.22	56.91	57.46	58.75	59.6
MW-13	56.80	56.85	56.13	55.75	57.95	57.42		57.22
MW-14	55.68	55.63	55.86	56.18	58.95		57.69	57.68
MW-15	57.45	56.62	57.50	57.90	56.24	58.15	59.45	58.82
MW-16	57.05	57.3	57.35	57.50			59.09	59.88
MW-17	56.89	56.18	55.12	54.38	58.08		58.88	58.91
MW-18	55.85	55.92	56.18	56.35	56.6	57.60	57.90	57.97
MW-19S	54.37	54.45	54.60	55.00	55.15	55.24	56.70	56.89
RW-1	25.25	25.25	25.80	25.30	25.30	25.60	22.70	23.10
RW-2	25.65	25.59	25.60	25.59	25.45	25.50		24.50
RW-3	28.75	28.20	28.65	28.30	28.28	27.90		
MW-1D	57.84	58.62	58.46	57.55	58.60	58.58	60.26	60.39
MW-3D	57.67	57.62	58.07	57.92	57.92	58.17	59.44	60.97
MW-4D	57.58	57.49	57.43	57.99	58.79		60.29	61.08
MW-5D		58.25	57.92	57.75	60.30			
MW-6D	56.69	56.76	57.20	57.64			58.69	57.79
MW-7D	57.76	57.24	57.23	57.23	61.71	57.48	58.75	60.06
MW-19D	54.50	54.45	54.60	55.00	55.20		56.59	56.90

Note:

MW-7S wa

6/28/2006 c

LocID	4/27/2005	5/27/2005	6/1/2005	7/29/2005	8/29/2005	9/30/2005	10/31/2005	11/29/2006
MW-1S	60.23	60.31	60.22	59.97	59.72	59.31	59.82	60.32
MW-3S	58.95	58.86	59.80	59.85	58.30	59.75	58.55	63.80
MW-4S	59.76	59.89	59.80	59.21	58.30	60.61	58.17	58.71
MW-6S	59.44	59.46	59.34	58.89	59.54	55.69	57.79	59.49
MW-7S	59.19	59.21	59.12	58.56	60.21	60.26	59.96	59.01
MW-13	59.20	59.25	59.10	57.02	55.80	57.13	55.25	59.25
MW-14			58.03	59.78	60.45	55.86	60.28	63.28
MW-15	59.77	59.90	59.75	58.94	58.13	57.12	57.45	61.50
MW-16	59.41	59.47	59.39		55.85	57.35	56.05	58.60
MW-17	59.33	59.36	59.25	58.18	57.68	57.13	59.25	61.18
MW-18	58.21	58.29	58.20	57.49	57.35	57.95	57.05	62.25
MW-19S	56.90	56.90	56.85	56.47	58.70	55.16	58.85	60.41
RW-1	25.50	27.50	26.55	28.00	25.60	27.30	31.60	32.50
RW-2	24.42	24.60	25.50	25.55	25.50	22.40	21.60	21.60
RW-3	27.65	27.50	30.00					
MW-1D	60.44	60.29	60.19	60.04	59.99	59.29	59.94	60.39
MW-3D	59.88	59.91	59.82	59.92	58.32	59.92	58.42	63.77
MW-4D	59.91	59.92	59.79		58.44	60.49	58.39	57.90
MW-5D			59.60	59.55	56.63	58.19	56.80	59.75
MW-6D	59.50	59.49	59.44		59.65	55.87	57.86	59.34
MW-7D	59.15	59.21	59.15		62.66	60.51	61.81	59.21
MW-19D	56.95	57.00	56.95	56.70	58.70	55.20	58.90	60.35

Note:

MW-7S wa

6/28/2006 c

LocID	12/29/2005	1/27/2006	2/24/2006	3/30/2006	4/28/2006	5/26/2006	6/28/2006	10/29/2006
MW-1S	62.17	62.07	60.17	62.02	61.72	61.82	62.17	61.17
MW-3S	62.05	61.69	63.84	61.53	61.35	61.8	61.7	60.74
MW-4S	62.01	61.71	61.71	61.51	60.98	61.06	61.71	60.71
MW-6S	61.5	61.26	61.29	59.58	59.14	59.49	61.19	60.24
MW-7S	61.36	61.08	61.11	60.91	60.41	60.61	61.01	60.01
MW-13	61.35	55.89	58.69	60.4	59.54	59.7	61	55.35
MW-14	59.58	59.95	59.27	61.88	61.4	59.48	59.93	57.93
MW-15	62	61.64	62.12	61.5	60.94	60.95	61.7	60.7
MW-16	59.6	61.05	60.1	61.1	60.95	61.6	61.29	60.3
MW-17	61.47	64.29	62.17	60.97	62.08	61.33	61.13	60.18
MW-18	60.5	60.09	61.17	59.87	59.9	60.05	60.05	59.05
MW-19S	58.1	58.75	58.8	58.5	57.8	58.19	58.6	57.7
RW-1	33.6	32.9	32.6	33	33.8	33.4	33.5	31.9
RW-2	22	29.6	28.4	28.5	26.4	27.9	18	41.2
RW-3								
MW-1D	62.43	62.13	60.39	61.84	61.84	61.84	62.14	61.94
MW-3D	62.06	61.52	63.97	61.56	61.66	62.15		60.76
MW-4D	62.04	61.56	61.56	61.59	61.14	61.09	61.69	60.29
MW-5D	62	61.54	60.65	61.4	60.95	61.65	61.45	60.23
MW-6D	61.46	61.54	61.98	59.39	60.59	60.19	61.29	60.59
MW-7D	61.51	61.06	61.25	61.11	60.51	61.96		60.11
MW-19D	59.15	58.8	58.8	58.7	57.8	58.7	58.75	57.75

Note:

MW-7S wa

6/28/2006 c

LocID	2/6/2007	7/27/2007	7/15/2008	7/14/2009	7/15/2010
MW-1S	62.82	62.51	61.19	62.37	62.93
MW-3S	62.25	62	60.60	61.85	62.38
MW-4S	62.21	62.01	60.76	62.04	62.54
MW-6S	62.09	61.49	60.19	61.49	61.89
MW-7S	61.51	61.21	59.95	61.16	61.70
MW-13	61.55	61.35	59.93	61.19	61.64
MW-14	60.43	60.18	58.80	60.08	60.58
MW-15	63.2	62.01	60.62	61.86	62.37
MW-16	61.79	61.6	60.18	61.46	61.93
MW-17	63.68	61.38	59.98	61.36	61.79
MW-18	61.5	60.25	58.84	60.22	60.62
MW-19S	59.14	58.8	57.43	58.84	59.21
RW-1	33.9				
RW-2	45			21.12	21.12
RW-3					
MW-1D	62.94	62.49	61.05	62.31	62.83
MW-3D	62.22	62.02	60.63	61.86	62.38
MW-4D	62.24	62.04	60.70	61.98	62.48
MW-5D	62.65	61.75	60.43	61.69	62.15
MW-6D	61.86	61.64	60.22	61.54	62.04
MW-7D	61.51	61.22	59.86	61.16	61.66
MW-19D	59.2	58.9	57.46	58.90	59.30

Note:

MW-7S wa

6/28/2006 c

MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE

July 15, 2010

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	1040	86.82	23.89	34.78	62.93	Well level data were collected during the annual sampling event on 7/15/2010
MW-1D	1108	86.94	24.11	99.94	62.83	
MW-3S	1013	88.15	25.77	37.62	62.38	
MW-3D	1028	88.37	25.99	100.02	62.38	
MW-4S	1400	86.71	24.17	27.70	62.54	
MW-4D	1405	86.79	24.31	100.00	62.48	
MW-5D	1146	86.75	24.60	100.00	62.15	
MW-6S	1159	86.09	24.20	33.72	61.89	
MW-6D	1207	86.19	24.15	100.00	62.04	
MW-7S	1119	89.51	27.81	36.45	61.70	
MW-7D	1129	90.06	28.40	100.00	61.66	
MW-13	1217	85.35	23.71	39.90	61.64	
MW-14	1315	85.28	24.70	41.30	60.58	
MW-15	1227	84.45	22.08	39.00	62.37	
MW-16	1242	84.60	22.67	39.80	61.93	
MW-17	1138	87.68	25.89	40.00	61.79	
MW-18	1327	87.60	26.98	39.50	60.62	
MW-19S	1339	87.70	28.49	52.70	59.21	
MW-19D	1346	87.70	28.40	82.50	59.30	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - NA RW-2 - 21.12'						

Anping Zheng
 (Print Name, Title)

(Signature, Date)

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

July 14, 2009

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0742	86.82	24.45	34.78	62.37	Well level data were collected during the annual sampling event on 7/14/09.
MW-1D	0727	86.94	24.63	99.94	62.31	
MW-3S	0755	88.15	26.30	37.62	61.85	
MW-3D	0801	88.37	26.51	100.02	61.86	
MW-4S	1109	86.71	24.67	27.70	62.04	
MW-4D	1115	86.79	24.81	100.00	61.98	
MW-5D	0936	86.75	25.06	100.00	61.69	
MW-6S	0847	86.09	24.60	33.72	61.49	
MW-6D	0839	86.19	24.65	100.00	61.54	
MW-7S	1009	89.51	28.35	36.45	61.16	
MW-7D	1015	90.06	28.90	100.00	61.16	
MW-13	0816	85.35	24.16	39.90	61.19	
MW-14	0920	85.28	25.20	41.30	60.08	
MW-15	0824	84.45	22.59	39.00	61.86	
MW-16	0906	84.60	23.14	39.80	61.46	
MW-17	0952	87.68	26.32	40.00	61.36	
MW-18	1028	87.60	27.38	39.50	60.22	
MW-19S	1039	87.70	28.86	52.70	58.84	
MW-19D	1045	87.70	28.80	82.50	58.90	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - NA RW-2 - 21.12'						

Anping Zheng
(Print Name, Title)

(Signature, Date)

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

July 15, 2008

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	25.63	34.78	61.19	Well level data were collected during the annual sampling event on 7/15/08.
MW-1D	0740	86.94	25.89	99.94	61.05	
MW-3S	0800	88.15	27.55	37.62	60.60	
MW-3D	0815	88.37	27.74	100.02	60.63	
MW-4S	0830	86.71	25.95	27.70	60.76	
MW-4D	0840	86.79	26.09	100.00	60.70	
MW-5D	0930	86.75	26.32	100.00	60.43	
MW-6S	0910	86.09	25.90	33.72	60.19	
MW-6D	0920	86.19	25.97	100.00	60.22	
MW-7S	0900	89.51	29.56	36.45	59.95	
MW-7D	0850	90.06	30.20	100.00	59.86	
MW-13	0950	85.35	25.42	39.90	59.93	
MW-14	1020	85.28	26.48	41.30	58.80	
MW-15	1000	84.45	23.83	39.00	60.62	
MW-16	1010	84.60	24.42	39.80	60.18	
MW-17	0940	87.68	27.70	40.00	59.98	
MW-18	1030	87.60	28.76	39.50	58.84	
MW-19S	1040	87.70	30.27	52.70	57.43	
MW-19D	1050	87.70	30.24	82.50	57.46	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - NA RW-2 - NA						

Anping Zheng
(Print Name, Title)

(Signature, Date)

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

July 27, 2007

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	24.31	34.78	62.51	Well level data were collected
MW-3S	0800	88.15	26.15	37.62	62.00	during annual sampling event
MW-4S	0830	86.71	24.70	27.70	62.01	on 7/27/07.
MW-6S	0910	86.09	24.60	33.72	61.49	
MW-7S	0900	89.51	28.30	36.45	61.21	
MW-13	0950	85.35	24.00	39.90	61.35	
MW-14	1020	85.28	25.10	41.30	60.18	
MW-15	1000	84.45	22.44	39.00	62.01	
MW-16	1010	84.60	23.00	39.80	61.60	
MW-17	0940	87.68	26.30	40.00	61.38	
MW-18	1030	87.60	27.35	39.50	60.25	
MW-19S	1040	87.70	28.90	52.70	58.80	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 33.9' RW-2 - 45.0'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0740	86.94	24.45	99.94	62.49	
MW-3D	0815	88.37	26.35	100.02	62.02	
MW-4D	0840	86.79	24.75	100.00	62.04	
MW-5D	0930	86.75	25.00	100.00	61.75	
MW-6D	0920	86.19	24.55	100.00	61.64	
MW-7D	0850	90.06	28.84	100.00	61.22	
MW-19D	1050	87.70	28.80	82.50	58.90	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

February 6, 2007

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	24.00	35.00	62.82	
MW-3S	0745	88.15	25.90	38.00	62.25	
MW-4S	0802	86.71	24.50	33.70	62.21	
MW-6S	0900	86.09	24.00	34.00	62.09	
MW-7S	0817	89.51	28.00	36.70	61.51	
MW-13	0925	85.35	23.80	42.00	61.55	
MW-14	0948	85.28	24.85	43.00	60.43	
MW-15	0933	84.45	21.25	40.00	63.20	
MW-16	0941	84.60	22.81	40.00	61.79	
MW-17	0844	87.68	24.00	40.00	63.68	
MW-18	0959	87.60	26.10	40.00	61.50	
MW-19S	1006	87.70	28.56	55.00	59.14	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 33.9' RW-2 - 45.0'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0736	86.94	24.00	100.10	62.94	
MW-3D	0751	88.37	26.15	100.20	62.22	
MW-4D	0808	86.79	24.55	100.20	62.24	
MW-5D	0834	86.75	24.10	100.00	62.65	
MW-6D	0917	86.19	24.33	99.50	61.86	
MW-7D	0825	90.06	28.55	100.00	61.51	
MW-19D	1015	87.70	28.50	85.00	59.20	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

February 24, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	26.65	35.00	60.17	
MW-3S	0748	88.15	24.31	38.00	63.84	Tightened loose bolts
MW-4S	0808	86.71	25.00	33.70	61.71	
MW-6S	0908	86.09	24.80	34.00	61.29	
MW-7S	0826	89.51	28.40	36.70	61.11	Trimmed away grass
MW-13	0918	85.35	26.66	42.00	58.69	
MW-14	0944	85.28	26.01	43.00	59.27	
MW-15	0928	84.45	22.33	40.00	62.12	
MW-16	0936	84.60	24.50	40.00	60.10	Trimmed away grass
MW-17	0854	87.68	25.51	40.00	62.17	
MW-18	0953	87.60	26.43	40.00	61.17	
MW-19S	1002	87.70	28.90	55.00	58.80	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 32.6' RW-2 - 28.4'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0739	86.94	26.55	100.10	60.39	
MW-3D	0750	88.37	24.40	100.20	63.97	
MW-4D	0817	86.79	25.23	100.20	61.56	
MW-5D	0845	86.75	26.10	100.00	60.65	
MW-6D	0908	86.19	24.21	99.50	61.98	
MW-7D	0835	90.06	28.81	100.00	61.25	
MW-19D	1012	87.70	28.90	85.00	58.80	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

March 30, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0700	86.82	24.80	35.00	62.02	Car moved
MW-3S	0716	88.15	26.62	38.00	61.53	
MW-4S	0733	86.71	25.20	33.70	61.51	
MW-6S	0826	86.09	26.51	34.00	59.58	
MW-7S	0750	89.51	28.60	36.70	60.91	Trimmed grass
MW-13	0844	85.35	24.95	42.00	60.40	
MW-14	0909	85.28	23.40	43.00	61.88	
MW-15	0853	84.45	22.95	40.00	61.50	
MW-16	0859	84.60	23.50	40.00	61.10	Trimmed grass
MW-17	0808	87.68	26.71	40.00	60.97	
MW-18	0922	87.60	27.73	40.00	59.87	
MW-19S	0931	87.70	29.20	55.00	58.50	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 33.0' RW-2 - 28.5'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0707	86.94	25.10	100.10	61.84	
MW-3D	0723	88.37	26.81	100.20	61.56	
MW-4D	0739	86.79	25.20	100.20	61.59	
MW-5D	0817	86.75	25.35	100.00	61.40	Pushed dumpster off well cap
MW-6D	0835	86.19	26.80	99.50	59.39	
MW-7D	0759	90.06	28.95	100.00	61.11	Tightened loose bolts
MW-19D	0938	87.70	29.00	85.00	58.70	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

April 28, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0630	86.82	25.10	35.00	61.72	
MW-3S	0650	88.15	26.80	38.00	61.35	
MW-4S	0712	86.71	25.73	33.70	60.98	
MW-6S	0818	86.09	26.95	34.00	59.14	Car moved
MW-7S	0734	89.51	29.10	36.70	60.41	
MW-13	0839	85.35	25.81	42.00	59.54	
MW-14	0902	85.28	23.88	43.00	61.40	
MW-15	0843	84.45	23.51	40.00	60.94	
MW-16	0852	84.60	23.65	40.00	60.95	Clean grass around well cap
MW-17	0800	87.68	25.60	40.00	62.08	
MW-18	0915	87.60	27.70	40.00	59.90	
MW-19S	0924	87.70	29.90	55.00	57.80	
Recovery Wells Pumping Conditions:						
Depth to Water:						
RW-1 - 33.8' RW-2 - 26.4'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0639	86.94	25.10	100.10	61.84	
MW-3D	0700	88.37	26.71	100.20	61.66	
MW-4D	0721	86.79	25.65	100.20	61.14	
MW-5D	0752	86.75	25.80	100.00	60.95	
MW-6D	0825	86.19	25.60	99.50	60.59	Car moved
MW-7D	0743	90.06	29.55	100.00	60.51	Clean grass around well cap
MW-19D	0933	87.70	29.90	85.00	57.80	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

May 26, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0710	86.82	25.00	35.00	61.82	
MW-3S	0726	88.15	26.35	38.00	61.80	
MW-4S	0739	86.71	25.65	33.70	61.06	
MW-6S	0828	86.09	26.60	34.00	59.49	
MW-7S	0754	89.51	28.90	36.70	60.61	
MW-13	0842	85.35	25.65	42.00	59.70	
MW-14	0900	85.28	25.80	43.00	59.48	
MW-15	0849	84.45	23.50	40.00	60.95	
MW-16	0855	84.60	23.00	40.00	61.60	
MW-17	0819	87.68	26.35	40.00	61.33	
MW-18	0919	87.60	27.55	40.00	60.05	
MW-19S	0927	87.70	29.51	55.00	58.19	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 33.4' RW-2 - 27.9'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0718	86.94	25.10	100.10	61.84	
MW-3D	0732	88.37	26.22	100.20	62.15	
MW-4D	0746	86.79	25.70	100.20	61.09	
MW-5D	0811	86.75	25.10	100.00	61.65	
MW-6D	0834	86.19	26.00	99.50	60.19	
MW-7D	0802	90.06	28.10	100.00	61.96	
MW-19D	0933	87.70	29.00	85.00	58.70	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

June 28, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	24.65	35.00	62.17	Well level data were collected on 6/28/06.
MW-3S	0800	88.15	26.45	38.00	61.70	
MW-4S	0830	86.71	25.00	33.70	61.71	
MW-6S	0910	86.09	24.90	34.00	61.19	
MW-7S	0900	89.51	28.50	36.70	61.01	
MW-13	0950	85.35	24.35	42.00	61.00	
MW-14	1020	85.28	25.35	43.00	59.93	
MW-15	1000	84.45	22.75	40.00	61.70	
MW-16	1010	84.60	23.31	40.00	61.29	
MW-17	0940	87.68	26.55	40.00	61.13	
MW-18	1030	87.60	27.55	40.00	60.05	
MW-19S	1040	87.70	29.10	55.00	58.60	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 33.5' RW-2 - 18.0'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0740	86.94	24.80	100.10	62.14	during annual sampling event
MW-3D	0815	88.37	89.10	100.20		(-0.73 data removed)
MW-4D	0840	86.79	25.10	100.20	61.69	
MW-5D	0930	86.75	25.30	100.00	61.45	
MW-6D	0920	86.19	24.90	99.50	61.29	
MW-7D	0850	90.06	91.00	100.00		(-0.94 data removed)
MW-19D	1050	87.70	28.95	85.00	58.75	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

October 29, 2006

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0710	86.82	25.65	35.00	61.17	
MW-3S	0725	88.15	27.41	38.00	60.74	
MW-4S	0744	86.71	26.00	33.70	60.71	
MW-6S	0843	86.09	25.85	34.00	60.24	
MW-7S	0800	89.51	29.50	36.70	60.01	
MW-13	0858	85.35	30.00	42.00	55.35	
MW-14	0927	85.28	27.35	43.00	57.93	
MW-15	0905	84.45	23.75	40.00	60.70	
MW-16	0915	84.60	24.30	40.00	60.30	Trimmed grass around well cover
MW-17	0835	87.68	27.50	40.00	60.18	Car needed to be moved.
MW-18	0935	87.60	28.55	40.00	59.05	
MW-19S	0942	87.70	30.00	55.00	57.70	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 31.9' RW-2 - 41.2'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0716	86.94	25.00	100.10	61.94	
MW-3D	0732	88.37	27.61	100.20	60.76	
MW-4D	0751	86.79	26.50	100.20	60.29	
MW-5D	0826	86.75	26.52	100.00	60.23	Moved dumpster
MW-6D	0851	86.19	25.60	99.50	60.59	
MW-7D	0817	90.06	29.95	100.00	60.11	Trimmed grass around well cover
MW-19D	0955	87.70	29.95	85.00	57.75	

MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE

August 29, 2005

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0645	86.82	27.10	35.00	59.72	
MW-3S	0659	88.15	29.85	38.00	58.30	
MW-4S	0714	86.71	28.41	33.70	58.30	
MW-6S	0800	86.09	26.55	34.00	59.54	
MW-7S	0730	89.51	29.30	36.70	60.21	
MW-13	0817	85.35	29.55	42.00	55.80	
MW-14	0844	85.28	24.83	43.00	60.45	
MW-15	0825	84.45	26.32	40.00	58.13	
MW-16	0834	84.60	28.75	40.00	55.85	
MW-17	0752	87.68	30.00	40.00	57.68	
MW-18	0858	87.60	30.25	40.00	57.35	
MW-19S	0905	87.70	29.00	55.00	58.70	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 25.60 RW-2 - 25.50						

Greg Gangemi, Plant Manager
 (Print Name, Title)

(Signature, Date)

MW-1D	0651	86.94	26.95	100.10	59.99	
MW-3D	0705	88.37	30.05	100.20	58.32	
MW-4D	0720	86.79	28.35	100.20	58.44	
MW-5D	0744	86.75	30.12	100.00	56.63	
MW-6D	0809	86.19	26.54	99.50	59.65	
MW-7D	0736	90.06	27.40	100.00	62.66	
MW-19D	0912	87.70	29.00	85.00	58.70	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

September 30, 2005

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0600	86.82	27.51	35.00	59.31	
MW-3S	0618	88.15	28.40	38.00	59.75	
MW-4S	0639	86.71	26.10	33.70	60.61	
MW-6S	0745	86.09	30.40	34.00	55.69	
MW-7S	0655	89.51	29.25	36.70	60.26	
MW-13	0800	85.35	28.22	42.00	57.13	
MW-14	0833	85.28	29.42	43.00	55.86	
MW-15	0815	84.45	27.33	40.00	57.12	
MW-16	0824	84.60	27.25	40.00	57.35	
MW-17	0735	87.68	30.55	40.00	57.13	
MW-18	0842	87.60	29.65	40.00	57.95	
MW-19S	0852	87.70	32.54	55.00	55.16	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 27.3' RW-2 - 22.4'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0609	86.94	27.65	100.10	59.29	
MW-3D	0630	88.37	28.45	100.20	59.92	
MW-4D	0646	86.79	26.30	100.20	60.49	
MW-5D	0713	86.75	28.56	100.00	58.19	
MW-6D	0754	86.19	30.32	99.50	55.87	
MW-7D	0704	90.06	29.55	100.00	60.51	
MW-19D	0905	87.70	32.50	85.00	55.20	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

October 31, 2005

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0700	86.82	27.00	35.00	59.82	
MW-3S	0715	88.15	29.60	38.00	58.55	
MW-4S	0736	86.71	28.54	33.70	58.17	
MW-6S	0821	86.09	28.30	34.00	57.79	
MW-7S	0800	89.51	29.55	36.70	59.96	
MW-13	0833	85.35	30.10	42.00	55.25	
MW-14	0856	85.28	25.00	43.00	60.28	
MW-15	0841	84.45	27.00	40.00	57.45	
MW-16	0848	84.60	28.55	40.00	56.05	
MW-17	0814	87.68	28.43	40.00	59.25	
MW-18	0905	87.60	30.55	40.00	57.05	
MW-19S	0909	87.70	28.85	55.00	58.85	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 31.6' RW-2 - 21.6'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0707	86.94	27.00	100.10	59.94	
MW-3D	0725	88.37	29.95	100.20	58.42	
MW-4D	0743	86.79	28.40	100.20	58.39	
MW-5D	0753	86.75	29.95	100.00	56.80	
MW-6D	0826	86.19	28.33	99.50	57.86	
MW-7D	0806	90.06	28.25	100.00	61.81	
MW-19D	0915	87.70	28.80	85.00	58.90	

**MONITORING WELL LEVEL DATA
CIRCUITRON CORPORATION SUPERFUND SITE**

November 29, 2005

Monitoring Well No.	Time	Top of Casing / Elevation Reference (ft-msl)	Depth to Water (ft)	Bottom of Well Screen (ft-bgs)	Groundwater Elevation (ft-msl)	Comments
MW-1S	0730	86.82	26.50	35.00	60.32	Replace Bolt
MW-3S	0744	88.15	24.35	38.00	63.80	Replace Bolt
MW-4S	0807	86.71	28.00	33.70	58.71	
MW-6S	0900	86.09	26.60	34.00	59.49	
MW-7S	0823	89.51	30.50	36.70	59.01	
MW-13	0920	85.35	26.10	42.00	59.25	
MW-14	0945	85.28	22.00	43.00	63.28	
MW-15	0928	84.45	22.95	40.00	61.50	Replace Well Cap
MW-16	0937	84.60	26.00	40.00	58.60	
MW-17	0851	87.68	26.50	40.00	61.18	
MW-18	0954	87.60	25.35	40.00	62.25	
MW-19S	1003	87.70	27.29	55.00	60.41	
Recovery Wells Pumping Conditions: Depth to Water: RW-1 - 32.5' RW-2 - 21.6'						

Greg Gangemi, Plant Manager
(Print Name, Title)

(Signature, Date)

MW-1D	0736	86.94	26.55	100.10	60.39	
MW-3D	0755	88.37	24.60	100.20	63.77	Replace Bolt
MW-4D	0813	86.79	28.89	100.20	57.90	
MW-5D	0840	86.75	27.00	100.00	59.75	
MW-6D	0910	86.19	26.85	99.50	59.34	
MW-7D	0832	90.06	30.85	100.00	59.21	
MW-19D	1013	87.70	27.35	85.00	60.35	

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