Wilmington 3-0578
50 Fordham Rd.
Former G.E.

TRC
Customer-Focused Solutions

SCANNED

Phase V Operations, Maintenance, and Monitoring Report

Eastern Parking Lot Area – November 2002 thru October 2003
Tank K Area – April 2003 thru October 2003
Groundwater Source Control Area – September 2003 Baseline
Long-Term Groundwater Monitoring – September 2003

Former GE Facility (RTN# 3-0518)
Wilmington, Massachusetts

Submitted to:

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EXECUTIVE SUMMARY

The following report presents results for the on-going monitoring programs at the former General Electric (GE) facility site (Site), release tracking number (RTN) 3-0518, located at 50 Fordham Road in Wilmington, Massachusetts. These programs and the corresponding monitoring periods include:

- Phase V Maintenance and Monitoring of the Eastern Parking Lot (EPL) Area
  Monitoring period: November 2002 – October 2003

- Phase V Operations, Maintenance and Monitoring (OM&M) of the Tank K Area
  Monitoring period: April 2003-October 2003

- Phase V OM&M Program for the Groundwater Source Control System
  Monitoring period: Baseline Sampling event, September 2003

- Long Term Groundwater Monitoring Program (LTGMP)
  Monitoring period: September 2003

The Site is currently undergoing extensive groundwater monitoring via the Phase V monitoring programs for: 1) EPL Area, 2) Tank K Area, 3) Groundwater Source Control Area, and 4) Long Term Groundwater Monitoring Program (LTGMP).

The overburden aquifer is impacted by: 1) chlorinated volatile organic compounds (CVOCs), 2) extractable petroleum hydrocarbons (EPH) compounds, and, 3) volatile petroleum hydrocarbons (VPH) compounds including benzene, toluene, ethylbenzene and xylenes (BTEX), methyl-tert butyl ether (MTBE), and naphthalene. Specifically, the EPA Area is impacted by Stoddard fuel-related contaminants (EPH and VPH). The Tank K Area is impacted by gasoline-related contaminants (BTEX and VPH). The Source Control Area and regional groundwater plume that is monitored by the LTGMP is characterized by solvent-related CVOC compounds.

The bedrock aquifer is impacted by CVOCs, with the core of the plume extending from the former Tank Farm area through pumping well TRC-202R. The VOC concentrations in bedrock at the core of the plume range from 26,620 micro-grams per liter (µg/L) at IP-1R2 to 10,623 µg/L at EMW-11R2. Newly installed bedrock well TRC-301R, with a total VOC concentration of 146 µg/L, marks a downgradient monitoring point within the target zone (i.e., known target depth) that is outside of the core area of the plume.

Eastern Parking Lot

TRC will continue the light non-aqueous phase liquid (LNAPL) and groundwater monitoring program in the EPL Area and will summarize the findings next in a Fall 2004 report to Massachusetts Department of Environmental Protection (MA DEP). Based on four consecutive sampling events (2000-2003) with VPH and EPH levels below

Massachusetts Contingency Plan (MCP) GW-1 standards, TRC will remove EMW-11S and TRC-103 from the sampling program.

Tank K

TRC will continue groundwater monitoring and the OM&M program. TRC has again identified low flow conditions at several sparge points. As a result, five replacement sparge points were installed during December 2003, with the system still in a functioning mode and only a temporary shutdown of the necessary points. Well construction logs and an update on the performance of the replacement sparge points will be provided in the next OM&M report.

Source Control

On August 15, 2003, the groundwater remediation system for Source Control went to startup mode. Baseline groundwater sampling results are presented herein. The first quarterly groundwater monitoring period was completed in December 2003. TRC will submit the first OM&M Report for Source Control following the second quarterly sampling round scheduled for March 2004.

Long Term Groundwater Monitoring Program

TRC's analysis of the current groundwater sampling data did not identify any notable anomalous results or trends. The highest concentrations of CVOCs in both overburden and bedrock continue to be observed immediately east of the former Tank Farm. At the newly installed TRC-301R, a bedrock monitoring well located at a sentinel position relative to the plume, the total CVOC concentration observed in September 2003 was 146 µg/L.

Analysis of groundwater elevation data continues to indicate that shallow and deep overburden groundwater flows east from the Site, and that bedrock groundwater has the potential to follow an easterly track from the Site. This is consistent with the analysis of groundwater elevation data dating back to 1986. As a result, the continued routine preparation of potentiometric surface maps to support the LTGMP is unnecessary and will be discontinued.

Groundwater elevation data will continue to be collected from all groundwater monitoring wells sampled as part of the LTGMP, prior to each sampling event.

In overburden, at the multi-level monitoring well cluster PS-1 (a three well cluster), the deepest well, PS-1D, recorded the highest total CVOC results at that location. The two shallower monitoring wells, PS-1S and PS-1M recorded much lower CVOC concentrations, a trend that has been observed since the initial 1995 sampling event.

As a result, TRC is going to temporarily stop collecting groundwater samples from the shallower PS-1S and PS-1M monitoring wells, until groundwater quality at the deep monitoring well, PS-1D, is below MCP GW-1 standards. At that time, TRC will begin re-sampling PS-1S and PS-1M to confirm the shallower locations are also below MCP GW-1 standards. This is consistent with the original purpose of the multi-level monitoring well installation, to characterize the formation at various depths in the event contaminant stratification is present. This objective has been completed and TRC is targeting the highest contaminant zone for long-term monitoring.

At GZA-10, a monitoring well located perpendicular to the plume core, all CVOCs were below the quantitation limits. The last time a CVOC was observed above MCP GW-1 standards at this location was 1995. As a result, GZA-10 will be removed from the LTGMP, but retained as a confirmatory well for Tank K, per MA DEP requirements.

<u>Monitoring Well Decommissioning</u>

Numerous monitoring wells have been installed with regard to groundwater contamination issues related to the Former GE Site. Many of these monitoring wells have not been used for years to support ongoing Site activities. As a result, these monitoring wells that are no longer in-use are unnecessary conduits to the subsurface, and are considered abandoned wells, as defined by the Massachusetts well drilling regulations.

Of the 66 monitoring wells TRC is preparing to decommission, MA DEP previously approved 18 of them as per the *Conditional Approval of the LTGMP* letter, dated July 16, 1997.

TRC will decommission each monitoring well with a licensed Massachusetts well driller, in accordance with the MA DEP guidance for well decommissioning.

1.0 INTRODUCTION

The following report presents results for the on-going monitoring programs at the former General Electric (GE) facility site (Site), release tracking number (RTN) 3-0518, located at 50 Fordham Road in Wilmington, Massachusetts (Figure 1-1). These programs and the corresponding monitoring periods include:

- Phase V Monitoring of the Eastern Parking Lot (EPL) Area *Monitoring period: November 2002 – October 2003*
- Phase V Operations, Maintenance and Monitoring (OM&M) of the Tank K Area *Monitoring period: April 2003-October 2003*
- Phase V OM&M Program for the Groundwater Source Control System *Monitoring period: Baseline Sampling event, September 2003*
- Long Term Groundwater Monitoring Program (LTGMP) *Monitoring period: September 2003*

This document represents a new approach to Site reporting. It provides both OM&M results as well as site-wide groundwater conditions under one cover.

Future reports will also include results of the Phase V OM&M Program for the Groundwater Source Control System. This system was started in August 2003. The first OM&M Report will be provided under a separate cover following the March 2004 quarterly groundwater sampling event.

For ease of review, each monitoring program is presented in a stand-alone section. However, the maps and other supporting documentation present comprehensive site-wide conditions (i.e., all data are compiled). The approximate limits of the on-going groundwater monitoring programs are provided in Figure 1-2. A detailed map showing all monitoring well locations is provided in Figure 1-3.

1.1 Reporting Requirements

This report was completed in accordance with the following:

<u>General Regulations</u>

- 310 CMR 40.892 (Phase V Inspection and Monitoring Reports) of the Massachusetts Contingency Plan (MCP);

<u>Long Term Groundwater Monitoring</u>

- *Long-Term Groundwater Monitoring Plan*, dated February 4, 1997;

- Massachusetts Department of Environmental Protection (MA DEP) *Conditional Approval of the Long Term Groundwater Monitoring Plan* letter, dated July 16, 1997;
- MA DEP *Regional Groundwater Monitoring* letter, dated June 20, 2001; and,
- MA DEP *Interim Deadlines for Phase V Operations, Maintenance & Monitoring and Groundwater Monitoring Programs* letter, dated February 22, 2002.

Eastern Parking Lot

- *Phase IV As-Built Construction and Completion Report, Eastern Parking Lot Area*, dated January 2001; and,
- MA DEP *Conditional Approval of Eastern Parking Lot, Phase IV As-Built Construction and Final Inspection Report*, letter, dated March 29, 2001.

Tank K

- *Phase IV As-Built Construction and Completion Report, Tank K,* dated March 2001; and,
- MA DEP *Conditional Approval of Tank K Area Phase IV As-Built Construction and Completion Report* letter, dated June 11, 2001.

Groundwater Source Control

- *Phase IV As-Built Construction and Final Inspection Report, Groundwater*, dated September 2003.

Regulatory Changes

Effective June 27, 2003, pursuant to the amended provisions of 310 CMR 40.0550 (4), MA DEP approval of comprehensive response actions and any other future actions at the Site (listed as Tier IA) are no longer required prior to implementation unless the MA DEP provides a notice to the contrary. Nonetheless, TRC will continue to call out any modifications to the programs, with specific emphasis on any modification related to a MA DEP conditional approval.

1.2 Summary of Monitoring Activities

1.2.1 Groundwater Monitoring

The Site is currently undergoing extensive groundwater monitoring via the Phase V monitoring programs for: 1) EPL Area, 2) Tank K Area, 3) Groundwater Source Control Area, and 4) Long Term Groundwater Monitoring Program (LTGMP).

These programs, that together represent the site-wide monitoring efforts, are summarized in Table 1-1, and depicted on Figure 1-2.

Former Tank Farm Monitoring Program

On February 28, 2001, MA DEP approved the re-alignment of the former Tank Farm Area Monitoring Program. This program was designed to monitor the effectiveness of the original groundwater pump and treat system (referred to as the Tank Farm Interim Measure) that was installed in October 1991 and decommissioned in February 2002. The 2001 re-alignment reduced the number of wells requiring monitoring to nine (9). In addition, the monitoring would continue until the new Groundwater Source Control Remedy and associated monitoring program would be in place.

Today, this program is no longer maintained. Rather, the monitoring of these wells has been incorporated into other monitoring programs (i.e., Source Control or LTGMP), or eliminated because of overlap/duplication by other wells. Some of these changes have been documented in the MA DEP letter dated February 22, 2002, the *Phase V Remedy Implementation Plan for Groundwater* dated December 2002, and the *Phase IV As-Built Construction and Final Inspection Report for Groundwater* dated September 2003. Other changes are documented herein.

For clarification purposes, the program changes are summarized below:

Former Tank Farm Monitoring Program				
February 2001 Program		**Current Status (As of the April 2004 Modifications)**		
Well ID	**Sample Frequency**	**Program**	**Sample Frequency**	**Comments**
GZA-101R	Annual	LTGMP	Annual	Re-assigned to LTGMP.
GZA-102R2	Annual	*Eliminated*		Duplicated by monitoring of IP-2R1 per Source Control Program.
GZA-103R1	Annual	LTGMP	Bi-annual	Re-assigned to LTGMP; Reduced frequency because of significant decrease in contaminant levels over time.
GZA-103R2	Annual	LTGMP	Bi-annual	
GZA-105D	Annual	LTGMP	Annual	Re-assigned to LTGMP.
GZA-105R	Annual	Source Control	Quarterly	Re-assigned per Phase IV Groundwater Source Control Monitoring Plan.
EMW-11R1	Annual	Source Control	Quarterly	
EMW-11R2	Annual	Source Control	Quarterly	
EMW-11R3	Annual	LTGMP	Bi-annual	Re-assigned to LTGMP.

Note that the monitoring program summary presented in Table 1-1 includes the modifications described above. Furthermore, the Tank Farm Monitoring Program terminology will no longer be used.

1.2.2 System Monitoring and Maintenance

In addition to the groundwater monitoring efforts, each of the operating systems is undergoing a system-specific operation, maintenance and monitoring (OM&M) program. Please refer to the corresponding OM&M sections of this report for the schedule and monitoring/maintenance requirements for each system.

1.3 Modifications to Groundwater Sampling Methodology

Many of the groundwater monitoring wells at the Site are very small (with diameters that range from 0.5 inches to 1.5 inches). Unfortunately, given their small size, there are very few options for obtaining groundwater samples. To date, samples have been collected from these smaller wells using inertial pump systems or peristaltic pumping systems and a modified "low-flow" sampling procedure.

Recent developments in sampling technologies now offer an alternative VOC sampling method, called Passive Diffusion Bag (PDB) sampling. TRC completed a detailed analysis of the PDB technology to determine the efficacy of switching to this technology. The PDB technology and the results of TRC's analysis are presented below.

1.3.1 Passive Diffusion Bag (PDB) Sampling

A PDB sampler is a low-density polyethylene bag that is filled with de-ionized water. The bag is suspended in a well (via a custom-built tether) to passively collect groundwater samples. PDB samplers rely on the free movement of groundwater through the well screen or open borehole. Given that the bag is a semi-permeable membrane, most VOCs in the groundwater will diffuse across the bag material and enter the de-ionized water on the inside of the bag. Manufacturers and independent studies have shown that within several days, the VOC concentrations in the surrounding groundwater equilibrate with the VOC concentrations within the bag. Conservative industry standard PDB deployment times have been two weeks, which TRC has adopted for this Site. Following the deployment period, the PDB can be retrieved for analysis. One important design feature is that PDBs can be deployed in monitoring wells with diameters as small as 0.75 inches.

The PDB samplers are ideally suited for long-term groundwater monitoring of VOCs because the contaminants of concern are known, the method for bringing groundwater to the surface is consistent over time and they eliminate wastewater generated during purging. Furthermore, because low-flow wells are commonly encountered at the Site, the PDB method is an excellent alternative to the "low stress" pumping option, eliminating the possibility of purging the well dry and subsequent VOC loss due to volatilization when groundwater flows back into the well (i.e., loss of VOC due to cascading water).

Based on research conducted by the U.S Geological Survey (see *User's Guide For Polyethylene-Based Passive Diffusion Bag Samplers To Obtain Volatile Organic Compound Concentrations in Wells, Part 1: Deployment, Recovery, Data Interpretation, and Quality Control and Assurance*, USGS Water-Resources Investigations Report 01-4060, 2001)[1] and correlation to this Site, the PDB method should be effective and appropriate for monitoring VOCs related to the chlorinated solvent impacts for both the LTGMP and Source Control Monitoring, and the lighter constituents from the gasoline and Stoddard fuel impacts for the Tank K and EPL programs, respectively.

PDBs do have some limitations. For instance, laboratory testing has shown that PDBs are not suitable for some VOCs. Even though methyl-tert-butyl ether (MTBE) and acetone are transmitted through the polyethylene bag, the resultant bag water ends up containing much lower concentrations than that in the surrounding groundwater.

In addition, some literature indicates that the polyethylene PDBs may contribute phthalates to the water in the bag, which could result in potential false-positive results for polynuclear aromatic hydrocarbons (PAHs) by the EPH Method[1]. Therefore, current PDB sample technology should not be used to monitor PAH/EPH compounds in the EPL Area of the Site.

Some of the limitations are directly related to the octanol/water partition coefficient (Kow) of a compound. By definition, the Kow is the ratio of the concentration of a chemical in oil (i.e., octanol) to the concentration of the chemical in water at a given temperature when at equilibrium. Essentially, it is a measure of whether a chemical stays dissolved in water (i.e., hydrophyllic), or resists water and prefers to stay dissolved in oil (i.e., hydrophobic).

The ability of a chemical to cross the PDB membrane correlates with the Kow. For example, a chemical with a large Kow will tend to adhere to the outside of the bag, and not pass through the membrane and enter the bag water. Therefore, current PDB sampler technology is not effective with chemicals that have a large Kow, like semivolatile compounds (i.e., EPH compounds). The "Kow factor" provides a second reason to not use PDBs in the EPL Area of the Site.

Interestingly, the Kow generally correlates with the solubility (S_w) of a chemical (i.e., its ability to dissolve in water). Therefore, chemicals that are highly soluble in water, like VOCs, generally have a low Kow, and can easily pass through the PDB membrane and enter the bag water.

Based on these limitations, PDBs should not be used to monitor EPH in groundwater in the EPL Area of the Site, nor to monitor MTBE in groundwater at the Tank K Area of the Site.

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[1] USGS, 2001. *User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells, Part 1: Deployment, Recovery, Data Interpretation, and Quality Control and Assurance*, USGS Water-Resources Investigations Report 01-4060.

Based on both the phthalate and Kow factors, PDBs should (in theory) be effective for detecting VPH compounds (i.e., aliphatic and aromatic hydrocarbons) in groundwater. However, there is no published data confirming that PDB samplers are appropriate or effective for monitoring these compounds in groundwater. Given the technology's potential for simplifying the future monitoring activities at the site, TRC decided to evaluate the effectiveness of PDBs for VPH via a project-specific "side-by side test".

On-Site Use

TRC proceeded to outfit the LTGMP and Source Control monitoring wells with a diameter of 0.75 inches or larger with PDB samplers for the 2003 monitoring event summarized herein. In total, 17 of the 28 monitoring wells for the LTGMP and 10 of 11 wells for Source Control were outfitted with PDBs.

TRC maintains a Standard Operating Procedure (SOP) for the PDB sampling method. A copy of the SOP in provided in Appendix A.

The remaining 11 wells still require sample collection via peristaltic pump because they are either 0.5 or 0.62 inches in diameter. One well, EMW-11R3, should be able to accommodate a PDB sampler. However, there is an obstruction or restriction at depth, allowing only the deployment of a narrow tube for sampling. Therefore, this well is also sampled via peristaltic pump.

1.3.2 Peristaltic Pump Sampling

In general, peristaltic pump samples are collected in accordance with U.S. Environmental Protection Agency Region I *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (SOP # GW-0001; July 1996).

At five of the monitoring well locations, identified on Table 1-1 as a modified purge sampling method, the wells are sampled by purging one tubing volume of water and then immediately collecting a sample. This modification to the method was initiated at these well locations because they have repeatedly gone dry during purging procedures (prior to sampling) in previous sampling events. This is clearly an undesirable sampling condition because the cascading of groundwater back into the monitoring well may reduce the VOC concentrations in the well water that is sampled. TRC believes the modified approach induces less stress on the formation and results in the collection of better VOC data.

1.3.3 Side-by-Side Test for Volatile Petroleum Hydrocarbons (VPH)

Based on the Kow factor, some of the VPH compounds with larger Kows will pass through the PDB and enter the bag water, and some will adhere to the outside of the PDB sampler. The "side-by-side test" was designed to evaluate how much of the VPH ends up in the bag water and how much ends up on the PDB wall.

The test involved the collection of groundwater samples from wells WE-07, WE-08 and WE-09 (located in the Tank K Area) using three separate sampling methods. These included: 1) Peristaltic pump, 2) PDB, and 3) Hydrasleeve™.

The HydraSleeve™ groundwater sampler also is a relatively new method for groundwater sampling. Reportedly, the HydraSleeve™ groundwater sampler collects a sample that is physically and chemically representative of the groundwater conditions without purging the well. The sampler consists of a long hollow tube with open ends that are fitted with caps that are remotely activated from the surface to seal the ends of the tube prior to sample retrieval. Therefore, the sampler collects a water sample from a defined interval within the well screen, without mixing fluid from other intervals. Typically, one or more HydraSleeves are placed within the screen interval of the monitoring well, and a period of time is allocated for the well to re-equilibrate. Hours to months later, the HydraSleeve™ seal is activated for sample collection. When activated, HydraSleeve™ collects a sample with minimal agitation and displacement of the water column. Once sealed, there is no mixing of extraneous, non-representative fluid while the sampler is recovered.

TRC sampled the three wells with a peristaltic pump, PDB, and HydraSleeve™ under industry standard and manufacturer-recommended sampling methodologies. Specifically, samples were collected from each well first by deploying the PDB for two weeks, retrieving the PDB, collecting a sample, then deploying the HydraSleeve™. After 24 hours, the HydraSleeve™ was retrieved and a sample was collected. A final sample was immediately collected with the peristaltic pump and via low-flow sampling techniques.

The results of the side-by-side test, as shown on Table B1 located in Appendix B, reveal that in wells with elevated concentrations of VPH, the PDB and HydraSleeve™ samples have lower concentrations of VPH than the peristaltic pump sample. Between the PDB and HydraSleeve™ methods, the HydraSleeve™ appears to perform better for VPH parameters (i.e., captures higher concentrations of VPH compounds).

Based on these results, TRC concluded that 1) PDB sampling is not effective for site-specific VPH compounds, and 2) selecting an alternative sampling method to the peristaltic pump is not warranted at this time. Therefore, TRC will continue sampling with a peristaltic pump at all VPH locations.

1.3.4 Summary

In summary, TRC evaluated alternatives for sampling the monitoring wells at the Site. Specifically, the existing method of low-flow peristaltic pump sampling was compared to two newer technologies, the PDB and HydraSleeve™ methods.

Based on the results, TRC concluded the following:

- PDB method is effective for sampling CVOCs;
- The current peristaltic pump methodology is best for VPH sampling.

1.4 Overview of Site-Wide Conditions

Hydrology

As shown in Figure 1-4 and Figure 1-5, groundwater flow through the overburden deposits at the Site continues to flow to the east, extending from the facility buildings out across the wetland area. The hydraulic gradient between the EPA Area (GZA-103S) and the center of the wetland (PS-2S) is 0.0005 (ft/ft).

Similarly, as shown on Figure 1-6, analysis of groundwater elevations in the bedrock monitoring wells indicates that bedrock groundwater generally flows to the east.

Groundwater elevation data for all monitoring locations are summarized on Tables 1-2 and 1-3.

Contaminant Distribution

Site-wide contaminant distributions are presented on Figure 1-7 for the overburden aquifer, and Figure 1-8 for the bedrock aquifer.

In general, the distribution of contaminants is consistent with the direction of groundwater flow.

The overburden is impacted by: 1) CVOCs, 2) EPH compounds, and, 3) VPH compounds including benzene, toluene, ethylbenzene and xylenes (BTEX), methyl-tert butyl ether (MTBE), and naphthalene. Specifically, the EPA Area is impacted by Stoddard fuel-related contaminants (EPH and VPH). The Tank K Area is impacted by gasoline-related contaminants (BTEX and VPH). The Source Control Area and regional groundwater plume that is monitored by the LTGMP is characterized by solvent-related CVOC compounds.

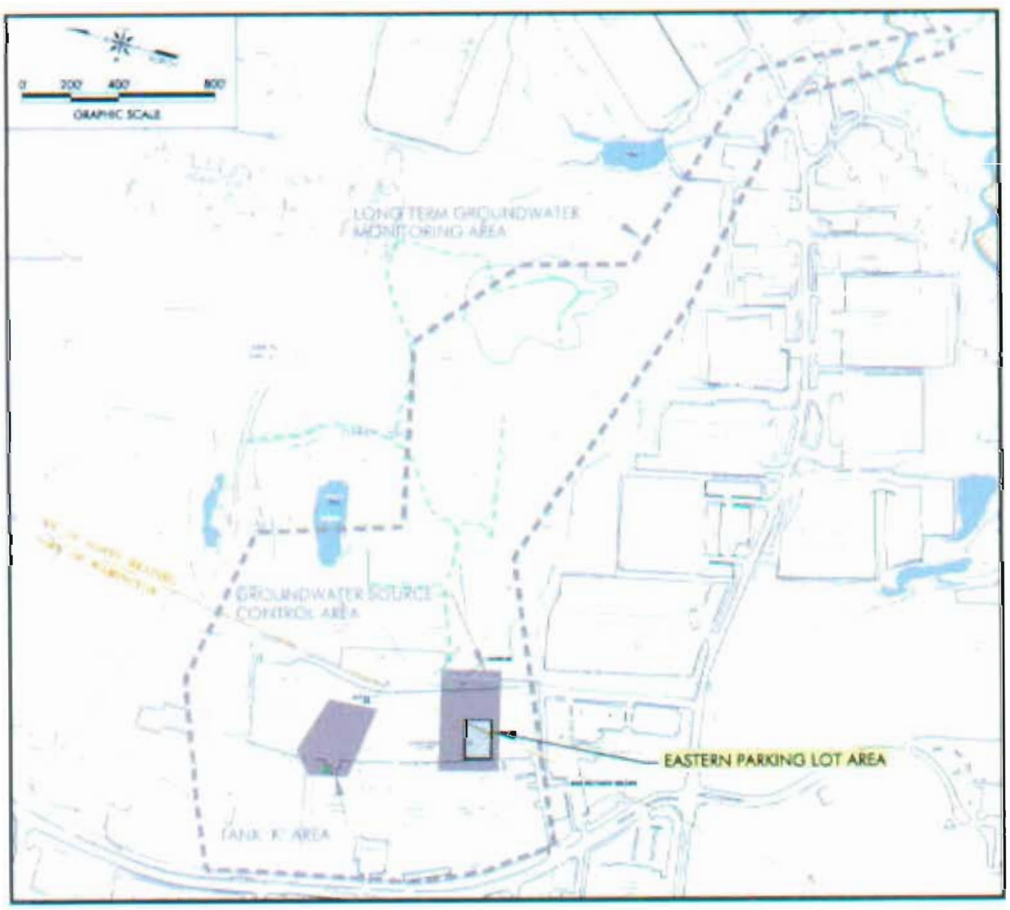
In general, the nature and extent of contaminants in the bedrock aquifer are limited to CVOCs, with the core of the plume extending from the former Tank Farm area through pumping well TRC-202R. The VOC concentrations in bedrock, for the September 2003 sampling event, at the core of the plume range from 26,620 µg/L at IP-1R2 to 10,650 µg/L at EMW-11R2. Newly installed bedrock well TRC-301R, with a total CVOC concentration of 146 µg/L, marks a downgradient monitoring point within the target zone (i.e., known target depth) that is outside of the core area of the plume.

All of the current groundwater sampling results are provided along with historical data on Table 1-2 (VOCs) and Table 1-3 (BTEX, Napthalene, MTBE, VPH, and EPH).

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix C and Appendix D, respectively.

Eastern Parking Lot Area

Contaminant of Concern:	Stoddard Fuel (petroleum hydrocarbons)
Description of Area:	In 1992, an interim measure system was installed at the EPL to recover LNAPL (Stoddard Solvent) from the water table. This operated for approximately two years and recovered approximately 415 gallons of LNAPL. TRC completed the remediation of the EPL via excavation and off-site recycling of 4,050 tons of soil in October 2000. Since this time, groundwater monitoring, well gauging and sampling in the EPL Area is conducted to ensure that LNAPL does not re-contaminate the area soils. Since remediation, there has been a periodic occurrence of LNAPL (i.e. Stoddard fuel) in monitoring well PZ-2S and culvert wells CW-1 and CW-2. TRC performs periodic vacuum enhanced extraction from these wells to remove groundwater and any remaining LNAPL from the nearby formation. Per MA DEP requirements, TRC continues to monitor the area for LNAPL monthly until the area is free of LNAPL for one year.



2.0 PHASE V MONITORING PROGRAM – EASTERN PARKING LOT (EPL)

The Phase V Monitoring Program for the EPA Area consists of the following:

PHASE V MONITORING PROGRAM- EPL AREA
I. Monthly LNAPL Gauging • PZ-2S • CW-1 • CW-2
II. Annual Sampling of Groundwater Monitoring Wells (VPH/EPH per MA DEP Methods) • TRC-101 • TRC-102 • TRC-103 • GZA-105S • EMW-11S

The location of the EPL monitoring wells is provided on Figure 1-3.

It should be noted that the frequency of LNAPL gauging has changed over time. Per MA DEP requirements, TRC started monthly LNAPL monitoring at wells PZ-2S, CW-1 and CW-2 in December 2001. TRC voluntarily increased the frequency of monitoring from monthly to weekly in July 2002 to more closely monitor the sudden increase in thickness of LNAPL in three wells (PZ-2S, CW-1, and CW-2).

TRC started to monitor nine additional wells on August 6, 2002, in order to determine if the LNAPL plume is migrating. The additional monitoring wells include: RW-2, MW-7, GZA-103S, TF-1, TRC-101, TRC-102, TRC-103, GZA-105S and GZA-102S. Following two LNAPL removals via vacuum extraction, the LNAPL thickness decreased and returned to conditions observed prior to July 2002. This expanded weekly monitoring program was discontinued in February 2003 and returned to the original monthly monitoring schedule.

2.1 Significant Modifications

No significant modifications to the monitoring program were completed during this OM&M period.

2.2 Monitoring

2.2.1 LNAPL Monitoring and Removal

All wells are gauged using an oil/water interface probe and recorded to the nearest 0.01 foot. The presence of LNAPL is then confirmed using a disposable polyethylene bailer. Groundwater level elevations are also measured and recorded in the field logbook. The probe is decontaminated with a soap and water solution, followed by a de-ionized water rinse after use at each well.

During this reporting period, a thin layer of LNAPL periodically appeared in culvert wells CW-1 and CW-2. In general, LNAPL thickness ranged from not detected or trace levels in wells PZ-2S and TRC-101 to a maximum measurable thickness of 0.14 feet in culvert well CW-2. A summary of the LNAPL monitoring results is presented in Table 2-1.

Figure 2-1, Figure 2-2 and Figure 2-3 compare LNAPL thickness to groundwater elevations for well PZ-2S, and culvert wells CW-1 and CW-2, respectively.

This analysis of the monitoring data (collected to date) indicates a continued decrease in the periodic presence of LNAPL as well as the thickness of LNAPL in the EPL Area. In addition, there continues to be no correlation between LNAPL presence/thickness and groundwater elevation.

During this monitoring period, LNAPL and oily water were removed from the EPL Area on the following dates:

Date	LNAPL Thickness prior to Removal Action (feet)	Removal Action
April 25, 2003	0.14	• 0.5 gallons of LNAPL and oily water removed manually from CW-2.
April 30, 2003	0.13	• 864 gallons of LNAPL and oily water removed via vacuum extraction from CW-2.
July 30, 2003	0.07	• 1,030 gallons of LNAPL and oily water removed via vacuum extraction from CW-2.

All LNAPL and groundwater generated during the vacuum extraction activities were handled by Clean Harbors Environmental Services (CHES) under a Hazardous Waste Manifest (due to the commingling of solvent related groundwater contaminants), and disposed of at the CHES Braintree, Massachusetts facility.

Based on the removal actions conducted to date, LNAPL removal via vacuum extraction continues to be very effective in controlling the limited occurrence of LNAPL in the EPA Area.

The field monitoring logs for this monitoring period are presented in Appendix E.

The off-site disposal records for the LNAPL vacuum extraction during this monitoring period are presented in Appendix F.

2.2.2 Groundwater Sampling

During September 2003, TRC conducted water level measurements at each well prior to sampling. These findings are summarized on Table 1-3. TRC then collected groundwater samples from each of the five EPL Area monitoring wells.

As summarized in Table 1-1, groundwater samples are collected with a peristaltic pump via low-flow sampling techniques in accordance with U.S. Environmental Protection Agency Region I *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (SOP # GW-0001; July 1996).

In addition, a multi-meter outfitted with a flow-through cell was utilized to measure field stabilization parameters (pH, specific conductivity, temperature, and dissolved oxygen) in groundwater during the collection of the low flow samples. Turbidity was also measured using a turbidity meter.

All samples were packed on ice and sent to a Massachusetts-certified laboratory under a chain-of-custody via a laboratory courier for VPH and EPH analyses, including benzene, toluene, ethylbenzene and xylene per MA DEP methods and PAHs.

As shown in Table 1-3, only one of the five monitoring wells, TRC-101 (located adjacent to culvert wells CW-1 and CW-2), has compounds above MCP GW-1 standards. Analytical results for wells EMW-11S and TRC-103 indicate compounds have been below MCP GW-1 standards for four consecutive sampling events (2000-2003). Contaminant levels in wells GZA-105S and TRC-102 have decreased, with each compound below MCP GW-1 standards for this sampling event.

The predominant contaminant of concern continues to be the C9-C10 aromatic fraction of VPH at levels above MCP GW-1 standards in one monitoring well (TRC-101).

The distribution of the contaminants in the EPL is depicted on Figure 1-7.

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix C and Appendix D, respectively.

2.3 Change in Conditions/Corrective Measures

No changes in conditions or corrective measures were required during this monitoring period.

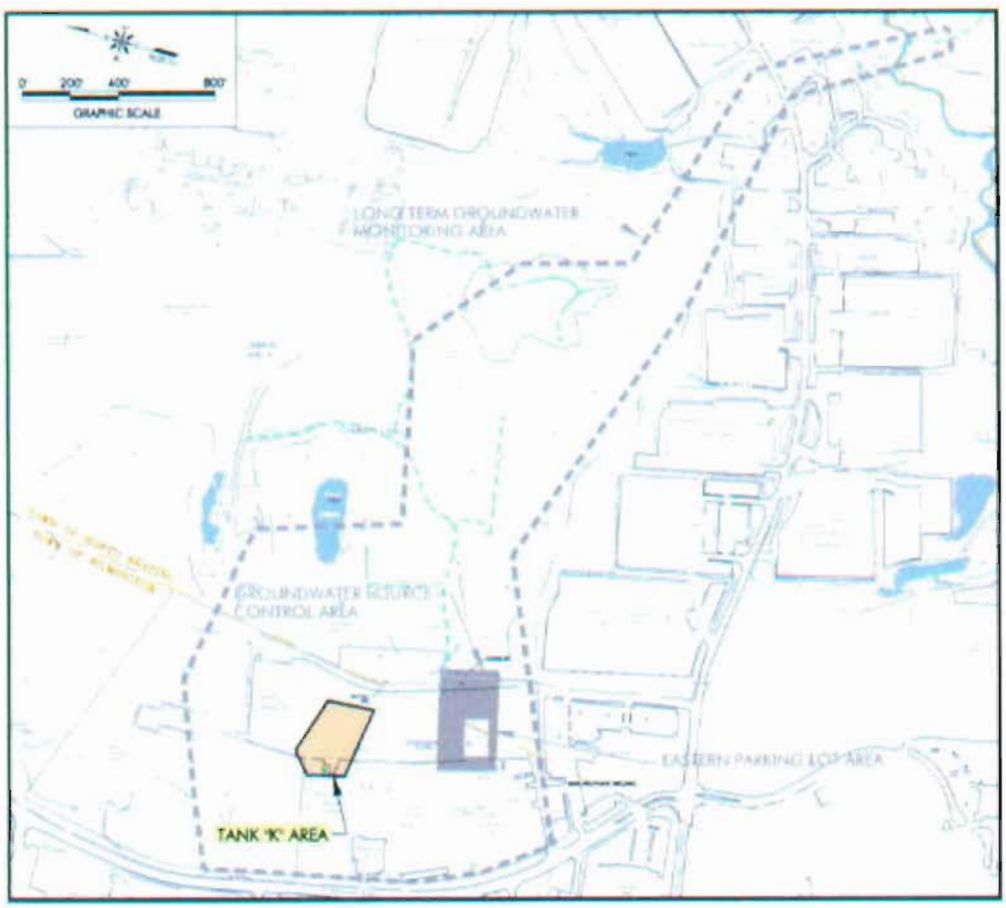
2.4 Continuing Actions

TRC will continue the LNAPL and groundwater monitoring programs in the EPL Area and will summarize the findings in a Fall 2004 report to MA DEP.

Because the VPH and EPH compounds in wells EMW-11S and TRC-103 have been below the MCP GW-1 standards (i.e., drinking water standard) for four consecutive sampling events (2000-2003), these wells have been removed from the EPL sampling program.

Tank K Area

Contaminant of Concern:	Gasoline-related petroleum hydrocarbons
Description of Area:	TRC installed a Soil Vapor Extraction (SVE)/Biosparging System to address the VOCs dissolved in groundwater and adsorbed to the subsurface soil. Since system startup in February 2001, the SVE/Biosparging system undergoes monthly system maintenance and monitoring, quarterly system performance monitoring, and semi-annual sampling of monitoring wells. Periodically, sparge points are replaced as part of the on-going OM&M to optimize air delivery to the subsurface. To date, the system is having a positive effect on reducing the levels and distribution of groundwater contaminants.



3.0 PHASE V OPERATIONS, MAINTENANCE AND MONITORING (OM&M) PROGRAM- TANK K AREA

The Phase V Operations, Maintenance and Monitoring (OM&M) Program for the Tank K Area consists of the following:

PHASE V OM&M PROGRAM- TANK K AREA	
I. System maintenance monitoring - Monthly	• Remote monitoring of the system to ensure that it is operational.
	• Site visits to inspect the treatment system equipment, performing and documenting repairs as needed.
	• Document the removal of VOCs from the SVE carbon canister air effluent.
II. System performance monitoring - Semi-annual	• Measure groundwater quality parameters (temperature, pH, ORP, DO and water level) in the core of the groundwater plume at wells WE-4S, WE-7, WE-8, WE-9 and TRC-106.
	• Measure groundwater elevation at one downgradient plume location (well WE-4S) to evaluate the efficiency of the air injection system and possible mounding effects.
III. Groundwater monitoring - Semi annual	• Measure water levels and sample for VPH per MA DEP methods at wells WE-4S, WE-7, WE-8, WE-9, TRC-104 and TRC-106.

The location of the Tank K Area monitoring wells is provided on Figure 1-3. The Tank K Biosparging/SVE system layout is depicted in Figure 3-1.

3.1 Significant Modifications

No significant modifications to the system were made during this OM&M period.

3.2 Operations, Maintenance and Monitoring

3.2.1 System Maintenance Monitoring

The system has been in continuous operation during this monitoring period.

TANK K SYSTEM - DEACTIVATION AND CORRECTIVE ACTION		
Dates Impacted	**System Malfunction**	**Corrective Action**
None the reporting period.		

Biosparging System

The primary operational parameters of the biosparging system are:

- Injection airflow (target operating range above 1.65 SCFM);
- Pressure at the individual sparge points (target operating range between 5 and 9 psi); and,
- The water level at well WE-4S (to document no groundwater mounding issues).

During the August 15, 2003 system maintenance monitoring visit, four sparge points (A-3, B-4, B-5, and C-3) were running at elevated pressure and low air flow, indicating a potential blockage in the system. Given these conditions, TRC directed their contractor, Innovative Engineering Solutions, Inc (IESI), to clean the sparge points by pressure washing and air injection. Immediate analysis of the system indicated flow and pressure appeared to return to normal.

Subsequent monitoring of the sparge points indicated the air flow started to again decrease, and the pressure at sparge points A-2, A-3, B-4, B-5, and C-3 started to increase. In order to resolve this problem, TRC has directed IESI to replace the sparge points. See section 3.3.1 for further details.

Note that sparge points A1, B2, B3, C1, C5, and C6 were replaced in December 2002 due to a similar problem.

No groundwater mounding has been observed at WE-4S as a result of sparge point operation.

SVE System

The primary operational parameters of the SVE system that are monitored include:

- Vapor concentration at each SVE lateral;
- Vapor concentration at the Granular Activated Carbon unit (GAC) inlet, GAC midstream and GAC outlet;
- Vacuum levels at each SVE lateral, the knockout tank inlet and outlet, and the blower outlet; and,
- Compressed air temperature at blower outlet/cooling loop inlet and after the cooling loop.

All SVE operational parameters were acceptable during this monitoring period.

The system maintenance monitoring data is summarized in Table 3-1. In addition, the Tank K Field Monitoring Forms are provided in Appendix G.

3.2.2 System Performance Monitoring

The system performance is evaluated via in-field measurements of groundwater parameters including depth to water, oxidation/reduction potential (ORP), dissolved oxygen (DO), temperature, and pH at each well point.

The system performance data (i.e. In-Field Groundwater Monitoring Data) is presented in Table 3-2.

In general, DO and ORP results continue to be variable in the system monitoring wells, with no consistent trend. In monitoring well WE-4S, DO and ORP have always varied without regard to water temperature. Well WE-4S is located adjacent to a sparge point, which most likely causes the observed fluctuations. In contrast, as shown on Figure 3-2, DO levels in wells WE-08 and WE-09 have remained low following an initial spike during system activation. Wells WE-08 and WE-09 are at the center of the plume where active biodegradation may be lowering DO levels (i.e. the micro-organisms use the free oxygen to support degradation of the contaminants).

3.2.3 Groundwater Monitoring

Prior to sampling the monitoring wells, groundwater level elevations are measured with an electronic water level meter and recorded to the nearest 0.01 foot in the field logbook. The probe is decontaminated with a soap and water solution, followed by a de-ionized water rinse after use at each well.

Groundwater samples are collected with a peristaltic pump via low-flow sampling techniques in accordance with U.S. Environmental Protection Agency Region I *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (SOP # GW-0001; July 1996).

A multi-meter outfitted with a flow cell was utilized to measure field stabilization parameters (pH, Eh, conductivity, temperature, turbidity, and DO) in groundwater during the collection of low flow samples.

All samples were packed on ice and sent to a Massachusetts-certified laboratory under a chain-of-custody via a laboratory courier for VPH analysis via MA DEP methods.

As presented in Table 1-3, sampling results indicate two of the locations, wells TRC-104 and WE-4S, are below the MCP GW-1 standards. The remaining four locations, wells TRC-106, WE-07, WE-08 and WE-09 continue to have total BTEX, naphthalene and VPH concentrations that are trending downward since the baseline-sampling event of November 2000. Methyl-tert butyl ether (MTBE) is now below MCP GW-1 standard in all six monitoring wells.

As presented in Figure 1-7, the core area of the plume in the Tank K Area originates in the original source area (former Tank K) and extends due east. This plume is reducing in overall concentration and extent (as summarized in Table 1-3) under the effects of the SVE/biosparging system.

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix C and Appendix D, respectively.

3.3 Change in Conditions/Corrective Measures

TRC elected to replace sparge points A-2, A-3, B-4, B-5, and C-3 with 2-foot long, 1-inch diameter PVC screens set approximately 13-15 feet below ground surface (bgs). In December 2003, these points were installed into the overburden via standard hollow stem auger or overburden drilling equipment (ODEX™) technology. Sand-pack, well seals, and roadboxes will be installed at each point to finish the construction.

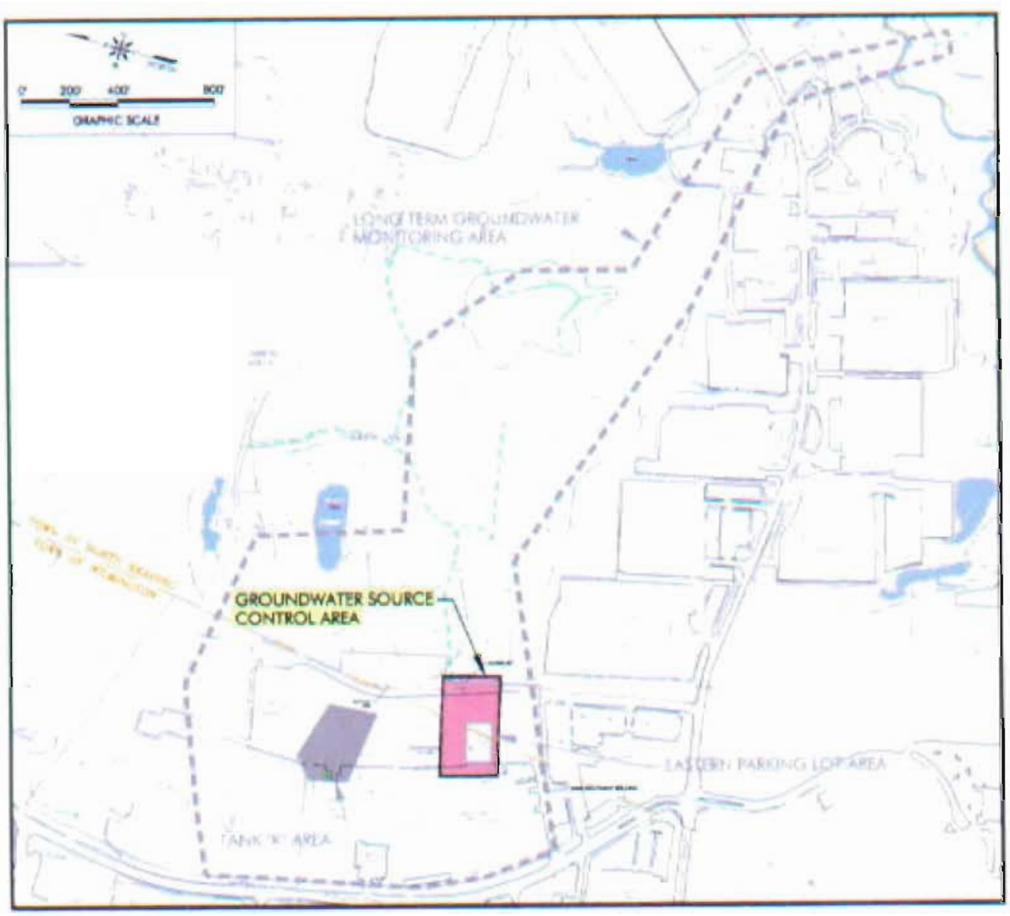
These replacement sparge points were installed during December 2003, with the system still in a functioning mode. A temporary shutdown occurred to allow retrofitting of the individual supply and vacuum lines. Well construction logs and an update on the performance of the replacement sparge points will be provided in the next OM&M report.

3.4 Continuing Actions

TRC will continue the Tank K OM&M program as outlined herein.

Groundwater Source Control Area

Contaminant of Concern:	Dissolved-phase Chlorinated Volatile Organic Compounds (CVOCs)
Description of Area:	TRC installed a groundwater "source control" system for the removal of CVOCs in bedrock. The pump and treat system extracts groundwater from well TRC-202R, and transfers the water to the 2003 treatment shed where an air stripper and carbon filtration system removes the CVOCs from the water to meet drinking water standards. The water is then discharged to a storm drain under a NPDES permit. The system was first started on August 15, 2003. As part of the Phase IV Remedy Implementation Plan, an enhanced bioremediation treatability study is underway. Based on the results and final recommendations, the existing system may be expanded to include a bioremediation technology.



4.0 PHASE V OPERATIONS, MAINTENANCE AND MONITORING (OM&M) – GROUNDWATER SOURCE CONTROL SYSTEM

In August 2003, the newly installed groundwater treatment system underwent shakedown and startup testing. In addition, baseline source control groundwater sampling was completed to obtain a baseline of groundwater conditions prior to system start-up, and to support the selection of a subset of wells for long-term source control monitoring. This data, along with a presentation on how and why certain monitoring wells were selected for source control monitoring was presented in the *Phase IV As-Built Construction and Final Inspection Report, Groundwater* (dated September 2003).

This baseline sampling data of the Groundwater Source Control Area is summarized herein in order to provide a comprehensive site-wide presentation of the Site conditions.

Future reports will include additional OM&M data related to the Groundwater Source Control Area. However, per MA DEP requirements, the first year of groundwater monitoring data, which is conducted on a quarterly basis, will be provided under separate cover. TRC will submit the first OM&M Report for Source Control following the March 2004 sampling event.

In general the Phase V OM&M Program for the Source Control Area includes:

PHASE V OM&M PROGRAM- SOURCE CONTROL AREA	
I. System Operations and Maintenance Monitoring	• Bi-weekly liquid and vapor process systems monitoring. • Bi-weekly vapor monitoring at GAC influent, GAC midstream, and GAC effluent. • Monthly groundwater sampling of system influent, untreated GAC influent, GAC midstream, and treated effluent locations. • Monthly groundwater elevation measurements at the pumping well and vicinity wells impacted by drawdown.
II. Groundwater Monitoring	• Quarterly groundwater sampling of shallow and deep bedrock wells
III. NPDES Reporting	• Monthly reporting of effluent water quality and removal efficiency of treatment system

The wells designated for the monitoring program are summarized on Table 1-1.

Per the requirements of the National Pollutant Discharge Elimination System (NPDES) Exclusion #MA 031-072, TRC submits monthly analytical results for the groundwater remediation discharge system directly to U.S. Environmental Protection Agency in Boston, under separate cover.

4.1 Significant Modifications

No significant modifications to the program were made during the reporting monitoring period.

4.2 Operations, Maintenance, and Monitoring

4.2.1 System Operations and Maintenance Monitoring

Two contaminants, acetone and 2-butanone, were detected in the air stripper effluent that were not detected in the groundwater influent. Given the high solubility of acetone and 2-butanone, TRC believed that these contaminants were present in ambient air (from Ametek facility emissions), and transferred from air (i.e. drawn through the air stripper) to the water. The groundwater pump and treat system was deactivated on August 22, 2003 until TRC could further evaluate the source of the air contaminants. TRC later confirmed the presence of these contaminants in the ambient air, and concluded that this has a periodic and limited effect on the system's operations.

Further discussion of operations and maintenance monitoring will be provided in the first OMM&M report for Source Control following the March 2004 sampling event. For reference, a copy of the Source Control Area Field Form is provided in Appendix F.

4.2.2 Groundwater Monitoring Results

Data obtained as part of the baseline sampling effort (previously reported in the *Phase IV As-Built Construction and Final Inspection Report, Groundwater*, dated September 2003) are included in Tables 1-2 and 1-3, as well as depicted on the contaminant distribution map that appears as Figure 1-8 and cross-sectional contaminant distributions on Figures 4-2 and 4-3.

As summarized on Table 1-1, the August 2003 baseline groundwater sampling event was completed using PDB samplers, set two-weeks prior to sampling, except for well GZA-105R that was sampled using a peristaltic pump and low-flow sampling techniques because the small well diameter precluded the use of a PDB. Each sample was analyzed by a Massachusetts certified laboratory for VOCs via MCP Method 8260B.

As depicted in Figures 4-2 and 4-3, the baseline sampling results reveal distinct shallow and deep bedrock zones of VOC contamination. The maximum contaminant levels were observed in the deep bedrock portion of the aquifer, within the target zone for remediation. Based on data collected to date, the bottom of the contaminant plume is constrained at depth by a non-water-bearing competent bedrock zone identified via drilling and geophysical survey results immediately below these deep bedrock monitoring points.

4.3 Changes in Conditions/Corrective Measures

Given that only baseline sampling results are presented herein, changes in conditional and corrective measures will be presented in the Source Control Area OM&M Report following the March 2004 sample event.

4.4 Continuing Actions

TRC will continue the Source Control Area OM&M Program as outlined herein.

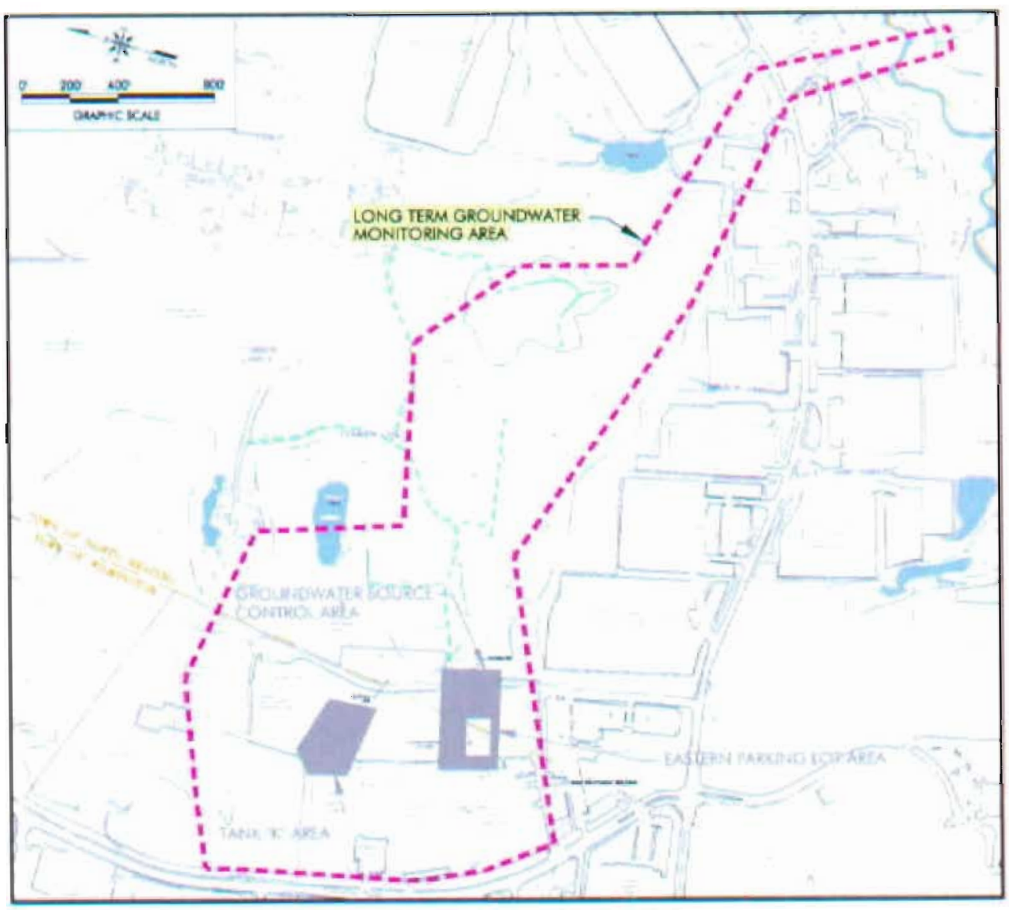
LONG-TERM GROUNDWATER MONITORING PROGRAM

Contaminants of Concern:	Dissolved-phase Chlorinated Volatile Organic Compounds (CVOCs)
Description of LTGMP:	The Long-Term Groundwater Monitoring Program (LTGMP) is intended to monitor overall site conditions and trends and monitor the effectiveness of the groundwater remedial systems currently operating on the property. In addition, the data indirectly provide a measure of the natural degradation of the regional groundwater contaminant plume.

The original LTGMP Plan was submitted to MA DEP on February 4, 1997, and subsequently approved by MA DEP on July 16, 1997. In general, the plan required bi-annual water level measurements (during odd-numbered years), and bi-annual groundwater sampling (during even-numbered years).

Subsequent modifications to the program occurred in June 2001 (per MA DEP approval) that included a new list of wells requiring gauging and analysis, and a new schedule that coordinated the groundwater monitoring programs for the LTGMP, the Eastern Parking Lot (EPL), the Tank K Area, and the former Tank Farm areas of concern (AOCs). Because operations of the Tank Farm Interim Measure were discontinued in 2001, the wells located in this area became part of the LTGMP. These wells were monitored on an annual basis until the Groundwater Source Control Remediation System was initiated in the Fall 2003. In addition, MADEP agreed to remove many wells from the program because the data showed that contaminant levels have reduced to levels that were equal to or below the MCP GW-1 standard (i.e., drinking water standard), and had remained at these acceptable conditions for at least four consecutive sampling events.

Today, the LTGMP consists of annual and bi-annual monitoring well gauging and sampling.



5.0 LONG-TERM GROUNDWATER MONITORING PROGRAM (LTGMP)

The Long-Term Groundwater Monitoring Program (LTGMP) consists of the following:

Monitoring Activity	Frequency	
	Even-numbered Years	Odd-numbered Years
I. Groundwater Gauging	54	58
II. Groundwater VOC Sampling	5	28

Monitoring well locations and sample schedules for the LTGMP are summarized in Table 1-1.

The LTGMP wells are located in both the overburden and bedrock aquifers, and are at onsite and offsite locations. This monitoring is conducted in addition to the site-specific groundwater sampling completed at groundwater monitoring wells in the Eastern Parking Lot (5 wells annually), the Tank K Area (6 wells semi-annually), and Source Control Area (11 wells quarterly).

The LTGMP and Source Control Area groundwater sampling programs are related to the same release, and target the same VOC compounds. Therefore, the results for the Source Control Area results are used as part of the LTGMP data presentation

TRC repeatedly attempted to locate wells MW-4 and MW-4A before, during, and after the September 2003 sampling event. (Wells MW-4 and MW-4A are located in the adjacent wetlands in standing water and surrounded by thick wetland vegetation.). Because they were not located, data for these wells are not presented herein. TRC located these wells during ice conditions in January 2004. These wells will be sampled in April 2004 and the results will be submitted under a separate cover.

5.1 Groundwater Elevation Data

On September 18, 2003, groundwater elevations were measured for all monitoring wells as part of the LTGMP with an electronic water level meter and recorded to the nearest 0.01 foot in the field logbook. The probe is decontaminated with a soap and water solution, followed by a de-ionized water rinse after use at each well.

As shown on Figures 1-4 and 1-5, analysis of groundwater elevations from overburden monitoring wells indicates groundwater in overburden flows from the Site, to the east into the wetlands, under a flat to slightly increasing hydraulic gradient in both the shallow and deep overburden. The hydraulic gradient between the EPL Area (GZA-103S) and the center of the wetland (PS-2S) is 0.0005 (ft/ft).

As shown on Figure 1-6, analysis of groundwater elevations from bedrock monitoring wells, indicates the highest groundwater head elevations are observed on-site, and slightly lower head elevations are observed to the east of the Site. This indicates groundwater in bedrock has the potential to flow to the east from the Site.

Groundwater elevation data for each well are provided on Tables 1-2 and 1-3, and copies of the Groundwater Sampling Field Forms are provided in Appendix C.

5.2 Groundwater Sampling

As shown on Table 1-1, groundwater samples were collected with a peristaltic pump via low-flow sampling techniques or with PDB samplers.

Peristaltic pump samples were collected in accordance with U.S. Environmental Protection Agency Region I *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (SOP # GW-0001; July 1996), except for five "limited purge" locations.

At these five limited purge locations, the monitoring wells were sampled by placing the tubing intake within the screened interval, purging one tubing volume of water at very low-flow, then immediately collecting a sample. This method was initiated at monitoring well locations that always went dry during purging and prior to sampling, in previous sampling events. As a result, water would cascade into the monitoring well and a sample would be collected when the well recovered. TRC believes this modified approach induces less stress on the formation, results in the collection of more representative VOC data, meets the objectives of the LTGMP, and is consistent with U.S. EPA recommendations for groundwater sampling at poor recharge monitoring wells (see U.S. EPA's 2002 groundwater forum issue paper, *Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers*, EPA 542-S-02-001).

A multi-meter outfitted with a flow-through cell was utilized to measure field stabilization parameters (pH, Eh, conductivity, temperature, and DO) in groundwater during the collection of low flow samples. Turbidity also was measured with a turbidity meter.

PDB samples were collected in accordance with TRC's SOP No. E9202-001, *Passive Diffusion Bag Sample Deployment and Recovery in Dedicated Tether Wells*, dated July 8, 2003. This SOP is provided in Appendix A.

For the VOC sample locations, any well 0.75 inches in diameter or larger was targeted for PDB sampler use during the LTGMP. All sample results tabulated in this report are noted where PDB sampling methods were utilized. PDB samplers are limited by well diameter; therefore, monitoring wells with a diameter of less than 0.75 inches (with the exception of EMW-11R3 due to an obstruction) were sampled with a peristaltic pump. All samples were packaged on ice and sent to a Massachusetts-certified laboratory under a chain-of-custody via a laboratory courier, for VOC analysis via MCP method 8260B.

5.2.1 Groundwater Analytical Results

In general, analysis of the groundwater sampling results from the 26 available LTGMP and 11 Source Control Area groundwater monitoring wells sampled during August and September 2003 indicates the following:

- Total CVOC concentrations in overburden monitoring wells range from below quantitation limit levels (in wells PS-2D, PS-2M, PS-5D, GZA-10) to a maximum of 5,921 µg/L (in well GZA-105D).
- The total CVOC concentrations in LTGMP bedrock monitoring wells located outside of the Source Control Area range from 13.8 µg/L (at well STM-8R) to 1,160 µg/L (at well GZA-101R).
- The total CVOC concentrations in Source Control bedrock monitoring wells range from 825.0 µg/L (at well BRW-1R2) to 26,620 µg/L (at well IP-1R2).
- The highest concentrations of CVOCs in both overburden and bedrock continue to be observed immediately east of the former Tank Farm area, within the Source Control Area.

Overburden Groundwater

As depicted in Figure 1-7, total CVOC concentrations in overburden groundwater that are greater than 100 µg/L extend east across the Site, in the direction of groundwater flow, toward well cluster PS-1, impacting deep overburden well PS-1D (49.25 – 54.25 feet bgs) with an observed total CVOC concentration of 116.2 µg/L. This multi-level well cluster is located in overburden, within an area referred to in previous reports as the buried bedrock valley. This buried bedrock valley most likely extends in the same direction as the preferred direction for groundwater flow in bedrock. The two monitoring wells installed at shallower depths, PS-1S (12 – 17 feet bgs) and PS-1M (34.25 – 39.25 feet bgs) revealed total CVOC concentrations of 10.6 µg/L and 25 µg/L, respectively. These data represent a continued trend where much lower concentrations of CVOCs appear in the shallower overburden deposits rather than the deeper overburden. This trend at the PS-1 multi-level monitoring well cluster has been observed since 1995.

Further east at the well cluster PS-2, total CVOCs are at below quantitation limit values in wells PS-2D and PS-2M. This multi-level monitoring well location has demonstrated decreasing total CVOC concentrations over-time, including previous below quantitation limit results in 1999. The shallow well in the cluster, PS-2S, was removed from the LTGMP in 1999 following repeated below quantitation limit results for CVOCs.

Further east, monitoring well PS-5D continues to demonstrate a decreasing CVOC trend, with all CVOCs at below quantitation limit levels for the first time during the LTGMP.

At monitoring well GZA-10, located perpendicular to the dominant flow path, all CVOCs were at below quantitation limit levels.

Additional monitoring wells included in the LTGMP that are furthest from the Site include the STM-8 well cluster (on Concord Street), and wells W-1 and W-2 located on the Ipswich River. At well STM-8D, a deep overburden well, a total CVOC concentration of 14 μg/L was observed, with two CVOC compounds above MCP GW-1 standards. At the shallower overburden well STM-8M, a total CVOC concentration of 5 μg/L was observed, with all compounds below the MCP GW-1 standards. At monitoring wells W-1 and W-2, the only contaminant above MCP GW-1 standards is vinyl chloride, at 3.2 μg/L (at well W-1).

Bedrock Groundwater

In bedrock groundwater, elevated total CVOC concentrations greater than 1,000 μg/L are estimated to extend slightly further east than that observed in the overburden (see Figure 1-8). As with the overburden groundwater plume, total CVOC concentrations in bedrock that are greater than 100 μg/L extend east to the area of well cluster PS-1, with the newly installed bedrock well TRC-301R revealing a total CVOC concentration of 146 μg/L.

At upgradient monitoring well locations within the former Tank Farm area, well GZA-103R1 and well GZA-103R2 reveal total CVOC concentrations of 22.1 μg/L and 67 μg/L, respectively. These represent a continued decreasing trend in concentrations, with only vinyl chloride present above MCP GW-1 standards during this sampling event.

At distant LTGMP bedrock well STM-8R, only trichloroethene (TCE) was observed above MCP GW-1 standards, at 13.8 μg/L. This also represents a continued trend of decreasing CVOC concentrations over time at this location.

Upgradient and west of the Source Area, at monitoring well GZA-101R (located near the historic Tank F), a total CVOC concentration of 1,160 μg/L was observed, representing a decrease from a maximum concentration of 4,013 μg/L observed in 1995.

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix C and Appendix D, respectively.

5.3 Conclusions

TRC's analysis of the current groundwater sampling data did not identify any notably anomalous results or trends. The highest concentrations of CVOCs in both overburden and bedrock continue to be observed immediately east of the former Tank Farm. Decreasing CVOCs concentrations continue to be observed at distant locations from the Source Control Area.

5.4 Continuing Actions

5.4.1 Groundwater Elevation Data

Analysis of groundwater elevation data continues to indicate that shallow and deep overburden groundwater flows east from the Site, and that bedrock groundwater has the hydrogeologic potential to follow a similar easterly track from the Site. This is consistent with repeated analysis of groundwater elevation data dating back to1986. As a result, the continued routine preparation of potentiometric surface maps to support site characterization and the LTGMP is unnecessary at this time. However, groundwater elevation data will continue to be collected from all groundwater monitoring wells sampled as part of the LTGMP, prior to each sampling event.

5.4.2 Groundwater Monitoring

In overburden, at the multi-level monitoring well cluster PS-1 (a three well cluster), the deepest well, PS-1D, recorded the highest total CVOC results at that location. The two shallower monitoring wells, PS-1S and PS-1M recorded much lower CVOC concentrations, a trend that has been observed since the initial sampling at that location in 1995.

As a result, TRC has elected to temporarily stop collecting groundwater samples from PS-1S and PS-1M during the LTGMP, until groundwater quality at the deep well, PS-1D, is below MCP GW-1 standards. At that time, TRC will begin re-sampling PS-1S and PS-1M to confirm the shallower locations are also below MCP GW-1 standards. This is consistent with the original purpose of the multi-level monitoring well installation, to characterize the formation at various depths in the event contaminant stratification is present. This characterization objective has been completed.

At monitoring well GZA-10, all CVOCs were below quantitation limits. The last sampling event with a CVOC recorded above MCP GW-1 standards at this location was in 1995. As a result, GZA-10 will be removed from the LTGMP.

6.0 MONITORING WELL DECOMMISSIONING

Numerous monitoring wells have been installed in Wilmington and North Reading with regard to characterizing the nature and extent of groundwater contamination related to the Former GE Site. The oldest monitoring wells (Nos. 1, 2, 3, 4, 5, 6, 7A, 7B, and 7C) date back to the mid-1970s following the first detection of contaminants in the Town of North Reading's Stickney Well.

The objective of many of these monitoring wells was to document the nature and extent of groundwater contamination at the Site. This objective has been completed and many of these monitoring wells have not been used for many years and therefore do not support ongoing Site activities. TRC believes that these monitoring wells (that are no longer in-use) are potential conduits to the subsurface, and should therefore be abandoned per the well drilling regulations, 313 CMR 3.01.

TRC has identified 66 monitoring wells in the area that are no longer suitable or actively used for the on-going activities at the Former GE site. These wells are summarized on Table 6-1, and are identified on Figure 6-1.

Of the 66 monitoring wells TRC is preparing to decommission, MA DEP previously approved 18 of them in the *Conditional Approval of the LTGMP* letter, dated July 16, 1997. In this letter, MA DEP also approved decommissioning of three additional monitoring wells GZA-2, GZA-3, and GZA-4. However, TRC recently confirmed that the current property operator, AMETEK Aerospace, Inc., uses wells GZA-1, GZA-2, GZA-3, GZA-4, GZA-5, and GZA-6 for the Site's wastewater treatment facility NPDES permit monitoring. Therefore, wells GZA-2, GZA-3, and GZA-4 have been removed from the decommissioning schedule.

TRC will decommission each monitoring well with a licensed Massachusetts well driller, in accordance with the Massachusetts Department of Environmental Protection guidance document *Standard References for Monitoring Wells*, WSC-310-91, dated April 1991. In general, the bedrock monitoring wells will be pressure grouted from the bottom-up. The overburden monitoring wells will either be removed, pressure grouted or sealed from the bottom-up, depending on the original well construction and site limitations. In each instance, the monitoring well abandonment will be completed by removing the protective casing and cutting the well casing several feet below ground surface, then capping with concrete and finishing the surface grade with appropriate materials.

Table 1-1
Summary of Groundwater Monitoring Program
Former GE Site, Wilmington, MA

WELL ID	GROUNDWATER SAMPLING											GROUNDWATER GAUGING		
	SPECIFICATIONS							FREQUENCY				FREQUENCY		
	Overburden/ Bedrock	Analysis	Well Diameter (inches)	Screened Interval (ft bgs)	Total Depth (ft)	Port or PDB Centerline (ft)	Sampling Method	Quarterly	Semi-Annual	Annual	Bi-Annual	Monthly	Annual	Bi-Annnual
								Dec-Mar-June-Sept	Mar-Sept	Sept	Sept (Odd Years)		Sept	Sept
Source Control														
BRW-1R2	Shallow Bedrock	VOCs (EPA Method 8260B)	2	46-66	66.19	62	PDB	x					x	
EMW-11R1	Shallow Bedrock		0.75	79-89	89.17	86	PDB_{sd}	x					x	
GZA-105R	Shallow Bedrock		0.5	34.5 - 36.5	36.75	35	PP/Fz	x					x	
IP-2R1	Shallow Bedrock		1	17.5 - 38	37.73	33	PDB_{sd}	x					x	
IP-4R1	Shallow Bedrock		2	38-48	48.38	41	PDB	x					x	
BRW-1R4	Deep Bedrock		2	133-153	152.79	140	PDB	x					x	
EMW-11R2	Deep Bedrock		0.75	104-114	114.17	111	PDB_{sd}	x					x	
IP-1R2	Deep Bedrock		2	54-74	74.1	60	PDB	x					x	
IP-2R3	Deep Bedrock		2	72-92	92.19	87	PDB	x					x	
IP-3R2	Deep Bedrock		2	64-84	84.23	76	PDB	x					x	
IP-4R3	Deep Bedrock		2	80-115	115.08	111	PDB	x					x	
Tank K Area														
TRC-104	Overburden	VPH (MA DEP Method)	1.25	1.-10	10	9	PP/Fz		x				x	
TRC-106	Overburden		1.25	2.-12	12	9	PP/Fz		x				x	
WE-4S	Overburden		2	3.-13	13	10	PP/Fz		x				x	
WE-7	Overburden		1.5	2.-12	12	9	PP/Fz		x				x	
WE-8	Overburden		4	2.-17	17	13	PP/Fz		x				x	
WE-9	Overburden		2	2.-12	12	9	PP/Fz		x				x	
EPL Area														
EMW-11S	Overburden	VPH/ EPH/ PAH SIM (MA DEP Method and 8270C)	2	1.-11	11	8	PP/Fx			(1)			x	
GZA-105S	Overburden		1.5	4.-14	14	10	PP/Fx			x			x	
TRC-101	Overburden		1.25	1.5-10.5	10.5	7	PP/Fx			x			x	
TRC-102	Overburden		1.25	2.25-12.25	12.25	9	PP/Fx			x			x	
TRC-103	Overburden		1.25	1.25-11.25	11.25	8	PP/Fx			(1)			x	
LTGMP														
GZA-101R	Bedrock	VOCs (EPA Method 8260B)	0.5	36.5-38	38.44	37.5	PP/Fx			x			x	
GZA-102R2	Bedrock		0.5	25-26.5	29.08	25.5	PP/ $Purge_{mod}$/ Ft			(1)			x	
GZA-103R1	Bedrock		0.5	18-19	19	18.5	PP/Fx			(2)	(2)		x	
GZA-103R2	Bedrock		0.5	28-29	29	28.5	PP/ $Purge_{mod}$/ Ft			(2)	(2)		x	
GZA-105D	Overburden		1.5	16-26	26	24	PDB_{sd}			x			x	
EMW-10D	Overburden		2	19-29	29	25	PDB				x		x	
EMW-10R	Bedrock		2	42-52	52	49	PDB				x		x	
EMW-11D	Overburden		2	22-32	32	29	PDB				x		x	
EMW-11R3	Bedrock		0.75	158-168	168	165	PP/Fx/OB				x		x	
GZA-10	Overburden		1.5	13-38	40.09	18	PDB_{sd}				(1)		x	
GZA-14	Overburden		1.5	39-49	51.58	46	PDB_{sd}				x		x	
GZA-14A	Overburden		1.5	0-15	17.55	10	PDB_{sd}				x		x	
PS-1S	Overburden		0.62	12.-17	20	18	PP/Fx				(3)		x	
PS-1M	Overburden		0.62	34.25-39.25	41	38	PP/Fx				(3)		x	
PS-1D	Overburden		0.62	49.25-54.25	55	53.25	PP/Fx				x		x	
PS-2M	Overburden		0.62	34-39	41	38.5	PP/ $Purge_{mod}$/ Ft				x		x	
PS-2D	Overburden		0.62	49.1-54.1	55.2	53	PP/ $Purge_{mod}$/ Ft				x		x	
PS-5D	Overburden		0.62	24.1-29.1	30.2	28	PP/ $Purge_{mod}$/ Ft				x		x	
STM-8R	Bedrock		0.75	46.5-51.5	51.5	48	PDB_{sd}				x		x	
STM-8M	Overburden		0.75	19.5-24.5	24.5	22	PDB_{sd}				x		x	
STM-8D	Overburden		0.75	34.7-39.7	39.7	37	PDB_{sd}				x		x	
TRC-301R-C	Bedrock		4	66-172	172	87.5	PDB				x		x	
W-1	Overburden		2	33.5-38.5	38.5	35.5	PDB				x		x	
W-2	Overburden		2	15-25	25	22	PDB				x		x	
MW-4	Overburden		1.5	18-28	30	24	PDB_{sd}				x			x
MW-4A	Overburden		1.5	38-48	50	45	PDB_{sd}				x			x
MW-5	Overburden		1.5	28-38	40	33	PDB_{sd}				x			x
MW-7	Overburden		1.5	15-25	27	22	PDB_{sd}				x			x
Gauging Program Only														
PZ-2S	Overburden	N/A	N/A					N/A				x		
CW-1	Overburden											x		
CW-2	Overburden											x		
EMW-10S	Overburden												x	
GZA-101M	Overburden												x	
GZA-103S	Overburden												x	
GZA-2	Overburden												x	
GZA-4	Overburden												x	
GZA-5	Overburden												x	
GZA-6	Overburden												x	
GZA-12	Overburden												x	
MW-1	Bedrock												x	
PS-2S	Overburden												x	
PS-3	Overburden												x	
PS-4	Overburden												x	
PS-5S	Overburden												x	
PS-8S	Overburden												x	
PS-8M	Overburden												x	
PS-8D	Overburden												x	
PZ-8R	Bedrock												x	
PZ-9S	Overburden												x	
PZ-9D	Overburden												x	
PZ-9R	Bedrock												x	
STM-2M	Overburden												x	
STM-2S	Overburden												x	
STM-2R1	Bedrock												x	
STM-2R2	Bedrock												x	
STM-4R	Bedrock												x	
STM-7BS	Overburden												x	
STM-7BR1	Overburden												x	
STM-7BR2	Overburden												x	
STM-8S	Overburden												x	
WE-105R2	Bedrock												x	

Notes:

Fx = Field measurements of pH, temperature, specific conductivity, dissolved oxygen, turbidity.

Fz = Field measurements of pH, temperature, specific conductivity, dissolved oxygen, turbidity, and oxidation/reduction potential.

Ft = Post sampling measurement for turbidity

PDB = Passive Diffusion Bag

PDB_{sd} = Small Diameter PDB sampler.

PP = Peristaltic Pump

OB = Obstruction at depth prevents use of a PDB.

Purge mod = Modified purge method (one tubing volume of water)

bgs = Below ground surface

N/A = Not applicable

(1)- Removed from sampling program April 2004.

(2)- Annual sampling reduced to bi-annual sampling April 2004.

(3)- Removed from sampling program April 2004; Will be re-sampled once well PS-1D meets MCP GW-1 standards.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Chlorinated VOCs
MCP GW-1 Standard						
LTGMP Overburden	EMW-10D	19-29	Overburden	1995	NM	-
				1998	76.08	293
				2000	76.27	BDL
				2001	75.83	106.2
				2002	NM	-
				2003(*)	75.8	68
	EMW-11D	22-32	Overburden	1995	NM	-
				1998	76.03	97
				2000	76.19	97.2
				2001	75.82	98.1
				2002	NM	-
				2003(*)	75.91	123.7
	GZA-10	15-38	Overburden	1995	NM	9.0
				1998	NM	-
				1999	75.53	-
				2001	75.74	1.2
				2002	NM	-
				2003(*)	75.68	BDL
	GZA-14	39-49	Overburden	1995	76.22	10
				1997	75.21	25
				1999	75.89	12
				2001	75.54	16.4
				2002	NM	-
				2003(*)	75.43	10.3
	GZA-14A	0-15	Overburden	1995	76.23	6.0
				1997	76.69	20
				1999	76.99	14
				2001	75.56	10.5
				2002	NM	-
				2003(*)	75.47	9.6
	MW-4	18-28	Overburden	1995	NM	-
				1997	NM	-
				1999	NM	BDL
				2001	NM	159
				2002	NM	-
				2003(*)	NM	-
	MW-4A	38-48	Overburden	1995	73.7	355
				1997	NM	-
				1999	74.29	BDL
				2001	75.04	48.6
				2002	NM	-
				2003(*)	NM	-
	MW-5	28-38	Overburden	1995	76.42	34
				1997	76.12	105
				1999	76.06	39
				2001	75.7	29.5
				2002	NM	-
				2003(*)	75.6	25.8
	MW-7	15-25	Overburden	1995	76.27	87
				1997	76.13	160
				1999	76.03	184
				2001	75.59	99.4
				2002	NM	-
				2003(*)	75.05	46
	PS-1D	49.25-54.25	Overburden	1995	76.07	268
				1998	75.98	106
				1999	75.91	129
				2001	75.73	85
				2002	NM	-
				2003	75.72	116.2
	Dup of PS-1D			2003	NM	115.1
	PS-1M	34.25-39.25	Overburden	1995	76.48	60
				1998	75.76	28
				1999	75.9	81
				2001	76.01	28.1
				2002	NM	-
				2003	76.28	25
	PS-1S	12-17	Overburden	1995	77.97	12
				1998	77.12	21
				1999	76.42	49
				2001	76.12	15.1
				2002	NM	-
				2003	75.59	10.6
	PS-2D	49.1-54.1	Overburden	1995	75.92	103
				1997	75.58	93
				1999	75.62	BDL
				2001	75.53	9.7
				2002	NM	-
				2003	75.36	BDL

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
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3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
8. "J" Detected below lab detection limit, estimated value.
(1). Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Chlorinated VOCs	1,1,1,2-Tetrachloroethane
MCP GW-1 Standard							5
LTGMP Overburden Continued	PS-2M	34-39	Overburden	1995	75.43	234	NA
				1997	75.65	192	NA
				1999	75.64	BDL	<2
				2001	75.73	10.6	<1
				2002	NM	~	~
				2003	75.65	BDL	<2
	PS-3[1]	2.7-5.7	Overburden	1995	75.25	~	~
				1997	75.11	BDL	NA
				1999	75.17	BDL	<2
				2001	75.28	BDL	<1
				2002	NM	~	~
				2003	NM	~	~
	PS-5D	24.1-29.1	Overburden	1995	75.55	119	NA
				1997	74.61	19	NA
				1999	74.91	15	<2
				2001	75.74	52.0	<1
				2002	NM	~	~
				2003	75.03	BDL	<2
	STM-8D	34.7-39.7	Overburden	1995	73.36	113	NA
				1997	71.26	119	NA
				1999	73.6	26	<2
				2001	72.86	27.7	<1
				2002	NM	~	~
				2003(*)	72.95	14	<2
	STM-8M	19.5-24.5	Overburden	1995	73.45	55	NA
				1997	71.41	36	NA
				1999	73.65	3	<2
				2001	72.96	15.9	<1
				2002	NM	~	~
				2003(*)	73.03	5	<2
	W-01	33.5-38.5	Overburden	1995	NM	~	~
				1998	NM	23	NA
				1999	NM	8	<2
				2001	NM	32.9	<1
				2002	NM	~	~
				2003(*)	NM	12.1	<2
	W-02	15-25	Overburden	1995	NM	~	~
				1998	NM	14	NA
				1999	NM	3.0	<2
				2001	NM	26.8	<1
				2002	NM	~	~
				2003(*)	NM	BDL	<2
	GZA-105D	16-26	Overburden	1995	76.43	1,470	NA
				1997	76.61	1,176	<1
				1999	73.31	158	<2
				2001	75.9	5,315	<20
				2002	NM	1,457	<10
				2003(*)	75.91	5,921	<10
LTGMP Bedrock	EMW-10R	42-52	Bedrock	1995	NM	~	~
				1998	75.81	8.0	NA
				2000	76.56	268.9	<2
				2001	75.75	79.5	<1
				2002	NM	~	~
				2003(*)	75.92	26.2	<2
	Dup of EMW-10R			2003(*)	NM	23.7	<2
	EMW-11R3	158-168	Bedrock	1995	NM	~	~
				1998	76.32	8,613	NA
				2000	76.6	8,800	<20
				2001	75.83	12,486	<50
				2002	NM	6,010	<50
				2003	75.87	1,114	<10
	STM-8R	46.5-51.5	Bedrock	1995	73.33	48	NA
				1997	71.15	7.0	NA
				1999	73.65	54	<2
				2001	72.73	42.8	<1
				2002	NM	~	~
				2003(*)	72.91	13.8	<2
	GZA-101R	36.5-38	Bedrock	1995	76.91	4,013	NA
				1997	76.69	1,327	<1
				1998	77.16	465	<1
				2001	76.87	1,041	<2
				2002	NM	1,570	<5
				2003	76.48	1,160	<20
	GZA-102R2	25-26.5	Bedrock	1995	77.5	4,730	NA
				1997	78.36	2,986	<1
				1999	79.08	1,760	<50
				2001	76.14	2,463	<5
				2002	NM	2,734	<10
				2003	75.98	1,693	<20
	GZA-103R1	18-19	Bedrock	1995	72.28	5,100	NA
				1997	71.58	2,870	<1
				1999	74.4	982	<10
				2001	75.04	545	<10
				2002	NM	84	<5
				2003	76.44	22.1	<2

Notes:
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4. "~" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
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7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
8. "J" Detected below lab detection limit, estimated value.
[1] Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Groundwater Elevation	Chlorinated VOC	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene (total)	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane
MCP GW-1 Standard							5	200	2	5	70	7				70			600	5	5		600		0.5	5		350				350	3,000			5
LTGMP Bedrock Continued	GZA-103R2	28-29	Bedrock	1995	75.46	5,134	NA	<50	<50	<50	54	<50	NA	NA	NA	NA	NA	NA	<50	<50	<50	NA	<50	NA	NA	<50	NA	<250	NA	<250	NA	<250	<250	NA	NA	<50
				1997	74.25	2,369	<1	<1	<1	<1	34	3.0	NA	NA	<1	NA	NA	<10	<1	<1	NA	NA	<1	NA	NA	<1	NA	<10	NA	<10	NA	<10	<50	NA	NA	<1
				1999	74.56	1,863	<20	<20	<20	<20	23	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<200	<20	<200	<20	<200	<200	<20	<20	<20
				2001	75.16	939	<5	<5	<5	<5	17	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5
				2002	NM	1,846	<5	<5	<5	<5	35	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5
				2003	75.32	67	<2	<2	<2	<2	13	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<5	<2	<2	<2
	TRC-301R	66-172	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1997	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1999	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	NM	107.2	<2	<2	<2	<2	1.9J	1.2J	<2	<5	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<4	<2	<2	3.1	<2	<2	<2	<2	17	<2	<2	<2
				2003(*)	3.2	146	<2	<2	<2	<2	2.3	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<5	<2	<2	<2
Source Control Shallow Bedrock	GZA-105R	34.5-36.5	Bedrock	1995	74.62	11,800	NA	<250	<250	<250	<250	<250	NA	NA	NA	NA	NA	NA	<250	<250	<250	NA	<250	NA	NA	<250	NA	<1200	NA	<1200	NA	<1200	<1200	NA	NA	<250
				1997	75.47	8,299	<1	<1	<1	<1	220	49	NA	NA	<1	NA	NA	<10	<1	<1	NA	NA	<1	NA	NA	<1	NA	<10	NA	<10	NA	<10	<50	NA	NA	<1
				1999	76.19	42	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	1.0	<1	<1	<1	<1	<1	<1	<1	NA	<1	<1	<10	<1	<10	<1	<10	<10	<1	<1	<1
				2001	75.95	9,880	<50	<50	<50	<50	140	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50	<50	<50	<50	NA	<50	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50
				2002	NM	19,490	<100	<100	<100	<100	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	NA	<100	<100	<100	<100	<100	<100	<100	<500	<100	<100	<100
				8/2003	76.8	5,047	<40	<40	<40	<40	160	22	<40	<100	<40	<100	<40	<100	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	<40	<40	<40
	EMW-11R1	79-89	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	402	NA	<1	<0.2	<1	7.0	<1	NA	NA	NA	NA	NA	NA	<1	<1	<1	NA	<1	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
				2000	77.9	1,471.3	<2	<2	<2	<2	24	5.3	NA	<2	<5	<2	<2	<2	<2	<2	<5	<2	<2	<2	NA	<2	NA	NA	<2	NA	<2	NA	NA	<2	<2	<2
				2001	75.87	1,582.7	<5	<5	<5	<5	28	6.7	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5
				2002	NM	4,531	<20	<20	<20	<20	88	29	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	<20	<20	<20	<20	<20	<20	<20	<100	<20	<20	<20
				8/2003(*)	75.98	8,620	<100	<100	<100	<100	130	58J	<100	<250	<100	<250	<100	<250	<100	<100	<100	<100	<100	<100	<40	<100	<100	<100	<100	<100	<100	<100	<250	<100	<100	<100
	BRW-1R2	46-66	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	75.93	815.0	<10	<10	<10	<10	20	<10	<10	<25	<10	<25	<10	<25	<10	<10	<10	<10	<10	<10	<20	<10	<10	<40	<10	<10	<10	<10	43	<10	<10	<10
	IP-2R1	17.5-38	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	76.32	4,159	<40	<40	<40	<40	96	<40	<40	<100	<40	<100	<40	<100	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	120	<40	<40	<40
	IP-4R1	38-48	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	75.81	8,750	<100	<100	<100	<100	150	<100	<100	<250	<100	<250	<100	<250	<100	<100	<100	<100	<100	<100	<200	<100	<100	<100	<100	<100	<100	<100	<250	<100	<100	<100
Source Control Deep Bedrock	EMW-11R2	104-114	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	157	NA	<1	<0.2	<1	3.0	<1	NA	NA	NA	NA	NA	NA	<1	<1	<1	NA	<1	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
				2000	76.32	4,709	3,100	<2	20	<2	63	17	NA	<2	<5	<2	<2	<2	<2	<2	<5	<2	<2	<2	NA	<2	NA	NA	<2	NA	<2	NA	NA	<2	<2	<2
				2001	75.86	27,120	<100	<100	<100	<100	370	<100	<100	<100	<100	<100	<100	<500	<100	<100	<100	<100	<100	<100	NA	<100	<100	<100	<100	<100	<100	<100	<500	<100	<100	<100
				2002	NM	23,590	<200	<200	<200	<200	330	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	NA	<200	<200	<200	<200	<200	<200	<200	690	<200	<200	<200
				8/2003(*)	76.02	10,623	<40	<40	<40	<40	180	43	<40	<100	<40	<100	<40	<100	<40	<40	<40	<40	<40	<40	<100	<40	<40	<40	<40	<40	<40	<40	<100	<40	<40	<40
	BRW-1R4	133-153	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	75.83	1,315	<20	<20	<20	<20	23	<20	<20	<50	<20	<50	<20	<50	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	48J	<20	<20	<20
	Dup of BRW-1R4			8/2003(*)	75.83	1,182	<20	<20	<20	<20	23	<20	<20	<50	<20	<50	<20	<50	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<20	<20	<20	<20	40	<20	<20	<20
	IP-1R2	54-74	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	76.02	26,620	<200	<200	<200	<200	320	<200	<200	<500	<200	<500	<200	<500	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	<200	<200	<200	<500	<200	<200	<200
	IP-2R3	72-92	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	76	9,980	<100	<100	<100	<100	180	<100	<100	<250	<100	<250	<100	<250	<100	<100	<100	<100	<100	<100	<40	<100	<100	<100	<100	<100	<100	<100	150J	<100	<100	<100
	IP-3R2	64-84	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	76.36	6,620	<100	<100	<100	<100	120	<100	<100	<250	<100	<250	<100	<250	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	160J	<100	<100	<100
	IP-4R3	80-115	Bedrock	1995	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				1998	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2000	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2001	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				2002	NM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
				8/2003(*)	75.85	6,320	<100	<100	<100	<100	120	<100	<100	<250	<100	<250	<100	<250	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	160J	<100	<100	<100

Location Name	Sample Event Date	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Diisopropyl ether	Ethylene dibromide	Fluorotrichloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene (VOC)	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
MCP GW-1 Standard		5	10	5	100	5		5		70	0.4				0.02		0.6		5			20			100		5	100	0.5	5	2
GZA-103R2	1995	<50	<50	<50	<50	<50	<50	<50	<50	1,900	<50	NA	NA	NA	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA	<50	NA	580	NA	<50	4,100	1,500
	1997	<1	<1	<1	<1	<1	<1	<1	<1	1,480	NA	<1	NA	NA	<1	<1	NA	NA	<10	NA	NA	NA	NA	NA	<1	NA	200	32	NA	330	370
	1999	<20	<40	<20	<20	<20	<40	<20	<40	920	<10	<20	NA	NA	<20	<20	<12	<20	<20	<20	<20	<100	<20	<20	<20	<20	100	20	<10	190	610
	2001	<5	<5	<25	<5	<5	<5	<5	<5	590	<1.2	<5	NA	NA	<5	<5	<25	<5	13	<5	<5	<5	<5	<5	<5	<5	80	16	<1	83	140
	2002	<5	<5	<5	<5	<5	<5	<5	<5	830	<2.5	<5	NA	NA	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	190	41	<2.5	130	620
	2003	<2	<5	<2	<2	<2	<2	<2	<2	11	NA	<2	<2	<2	<2	<2	<2	<2	<5	<5	<2	<2	<5	<2	<2	<2	<2	18	NA	<2	25
TRC-301R	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1997	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1999	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<2	<2	<2	<2	<2	<2	<2	<2	65	NA	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<5	<2	<2	<2	<2	4.2	<2	NA	38	<2
	2003(*)	<2	<5	<2	<2	<2	<2	<2	<2	81	NA	<2			<2	<2	<2	<2	<5	<5	<2	<2	<5	<2	<2	<2	7.7	<2	NA	55	<2
GZA-105R	1995	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	NA	NA	NA	NA	<250	NA	NA	NA	NA	NA	NA	NA	NA	<250	NA	4,400	NA	<250	7,400	<250
	1997	<1	<1	<1	<1	<1	<1	<1	<1	220	NA	<1	NA	NA	<1	<1	NA	NA	<10	NA	NA	NA	NA	NA	<1	NA	2,800	3.0	NA	5,000	7.0
	1999	<1	<2	<1	<1	<1	<2	<1	<2	13	<1	<1	NA	NA	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	2.0	4.0	<1	<1	18	6.0
	2001	<50	<50	<250	<50	<50	<50	<50	<50	140	<12	<50	NA	NA	<50	<50	<250	<50	100	<50	<50	<50	<50	<50	<50	<50	3,700	<50	<10	5,800	<50
	2002	<100	<100	<100	<100	<100	<100	<100	<100	310	<50	<100	NA	NA	<100	<100	<100	<100	<500	<100	<100	<100	<100	<100	<100	<100	6,900	<100	<50	12,000	<100
	8/2003	<40	<40	<40	<40	<40	<40	<40	<40	280	NA	<40	<40	<40	<40	<40	<100	<40	<100	<40	<40	<100	<40	<40	<40	<40	680	<40	NA	3,900	<40
EMW-11R1	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	<1	<1	<1	<1	<1	<1	<1	<1	15	<1	NA	NA	NA	NA	<1	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	160	<1	<1	220	<1
	2000	<2	<2	<2	<2	<2	<2	<2	<2	82	<2	<2	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	NA	380	<2	NA	980	<2
	2001	<5	<5	<25	<5	<5	<5	<5	<5	220	<1.2	<5	NA	NA	<5	<5	<25	<5	22	<5	<5	<5	<5	<5	<5	<5	330	<5	<1	950	26
	2002	<20	<20	<20	<20	<20	<20	<20	<20	360	<10	<20	NA	NA	<20	<20	<20	<20	<100	<20	<20	<20	<20	<20	<20	<20	740	24	<10	3,100	190
	8/2003(*)	<100	<100	<100	<100	<100	<100	<100	<100	1,200	NA	<100	<100	<100	<100	<100	<250	<100	<250	<100	<100	<250	<100	<100	<100	<100	280	90J	NA	6,500	590
BRW-1R2	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<10	<10	<10	<10	<10	<10	<10	<10	83	NA	<10	<10	<10	<10	<10	<25	<10	<25	<10	<10	<25	<10	<10	<10	<10	92	<10	NA	630	6.7J
IP-2R1	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<40	<40	<40	<40	<40	<40	<40	<40	53	NA	<40	<40	<40	<40	<40	<100	<40	<100	<40	<40	<100	<40	<40	<40	<40	910	<40	NA	3,200	<40
IP-4R1	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<100	<100	<100	<100	<100	<100	<100	<100	77J	NA	<100	<100	<100	<100	<100	<250	<100	<250	<100	<100	<250	<100	<100	<100	<100	1,900	<100	NA	6,700	<100
EMW-11R2	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	<1	<1	<1	<1	<1	<1	<1	<1	7.0	<1	NA	NA	NA	NA	<1	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	47	<1	<1	100	<1
	2000	<2	<2	<2	<2	<2	<2	<2	<2	100	<2	<2	NA	NA	<2	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	NA	8.9	<2	NA	1,400	<2
	2001	<100	<100	<500	<100	<100	<100	<100	<100	750	<23	<100	NA	NA	<100	<100	<500	<100	550	<100	<100	<100	<100	<100	<100	<100	8,200	<100	<21	17,000	250
	2002	<200	<200	<200	<200	<200	<200	<200	<200	630	<100	<200	NA	NA	<200	<200	<200	<200	<1000	<200	<200	<200	<200	<200	<200	<200	8,200	<200	<100	14,000	430
	8/2003(*)	<40	<40	<40	<40	<40	<40	<40	<40	6,400	NA	<40	<40	<40	<40	<40	<100	<40	<100	<40	<40	<100	<40	<40	<40	<40	27J	100	NA	2,400	1,500
BRW-1R4	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<20	<20	<20	<20	<20	<20	<20	<20	42	NA	<20	<20	<20	<20	<20	<50	<20	<50	<20	<20	<50	<20	<20	<20	<20	250	<20	NA	1,000	<20
Dup of BRW-1R4	8/2003(*)	<20	<20	<20	<20	<20	<20	<20	<20	39	NA	<20	<20	<20	<20	<20	<50	<20	<50	<20	<20	<50	<20	<20	<20	<20	240	<20	NA	980	<20
IP-1R2	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<200	<200	<200	<200	<200	<200	<200	<200	180J	NA	<200	<200	<200	<200	<200	<500	<200	<500	<200	<200	<500	<200	<200	<200	<200	4,300	<200	NA	22,000	<200
IP-2R3	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<100	<100	<100	<100	<100	<100	<100	<100	90J	NA	<100	<100	<100	<100	<100	<250	<100	<250	<100	<100	<250	<100	<100	<100	<100	1,400	<100	NA	8,400	<100
IP-3R2	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<100	<100	<100	<100	<100	<100	<100	<100	56J	NA	<100	<100	<100	<100	<100	<250	<100	<250	<100	<100	<250	<100	<100	<100	<100	1,300	<100	NA	5,200	<100
IP-4R3	1995	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	1998	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	8/2003(*)	<100	<100	<100	<100	<100	<100	<100	<100	58J	NA	<100	<100	<100	<100	<100	<250	<100	<250	<100	<100	<250	<100	<100	<100	<100	1,100	<100	NA	5,000	<100

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "–" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
8. "J" Detected below lab detection limit, estimated value.
(1) Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Chlorinated VOCs (Total)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene (total)	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone	Acetone	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Diisopropyl ether	Ethylene dibromide	Fluorotrichloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride	n-Butylbenzene	n-Propylbenzene	Naphthalene (VOC)	p-Isopropyltoluene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl chloride
MCP GW-1 Standard							5	200	2	5	70	7				70			600	5	5		600		0.5	5		350				350	3,000			5	5	10	5	100	5		5		70	0.5				0.02		0.6		5			20			100		5	100	0.5	5	2
Tank K	TRC-104	1-10	Overburden	1995	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1997	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2000	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-106	2-12	Overburden	1995	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1997	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1999	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2001	75.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-4S	3-13	Overburden	1995	NM	BDL	NA	<0.4	<0.2	<0.5	<0.5	<0.4	NA	NA	NA	NA	NA	NA	<0.5	<0.5	<0.3	NA	<0.2	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	<0.2	<0.4	<0.5	<0.3	<0.4	<0.5	<0.3	<0.4	<0.4	<0.3	<0.3	NA	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.4	<0.4	<0.2	<0.4	<0.3
				1998	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<400	NA	NA	NA	<400	NA	NA	<400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-07	2-12	Overburden	1998	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-08	2-17	Overburden	1998	NM	BDL	NA	<100	<200	<200	<100	<100	NA	NA	NA	NA	NA	NA	<200	<100	<100	NA	<200	NA	NA	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	<100	<200	<500	<100	<200	<200	<200	<100	<500	<100	<100	NA	NA	NA	NA	<100	NA	NA	<100	NA	NA	NA	NA	NA	NA	NA	<100	<100	<200	<100	<200
				1999	76.37	920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200	NA	NA	NA	<40	NA	NA	**720**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-09	2-12	Overburden	1998	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	76.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	76.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Eastern Parking Lot	EMW-115	1-11	Overburden	1995	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA-105S	4-14	Overburden	1995	76.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-101	1.5-10.5	Overburden	1995	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup of TRC-101			2003	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-102	2.25-12.25	Overburden	1995	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	5.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-103	1.25-11.25	Overburden	1995	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	6.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "~" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
8. "J" Detected below lab detection limit, estimated value.
(1) Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Total BTEX, MTBE and Naphthalene	Benzene	Ethylbenzene	Toluene	Total Xylenes	Methyl tert-butyl ether	Naphthalene (VPH)	Total VPH	C5-C8 Aliphatic	C9-C10 Aromatic	C9-C12 Aliphatic	Total EPH	C9-C18 Aliphatics	C19-C36 Aliphatic	C11-C22 Aromatic	Naphthalene (EPH)	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
MCP GW-1 Standards							5	700	1,000	10,000	70	20		400	200	4,000		1,000	5,000	200	20	10	300	20	300	300	2,000	300	200	1	2	1	1	0.2	0.5	0.5	300
LTGMP Overburden	EMW-10D	19-29	Overburden	1995	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1998	76.08	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	76.27	BDL	<2	<2	<5	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.83	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.8	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EMW-11D	22-32	Overburden	1995	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1998	76.03	4	<1	<1	<1	<3	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	76.19	BDL	<2	<2	<5	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.82	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.91	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA- 10	13-38	Overburden	1995	NM	231	1.0	<0.2	<0.2	<0.3	**250**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1998	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1999	75.53	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2001	75.74	61	<1	<1	<1	<2	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.68	10	<2	<2	<2	<6	9.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA- 14	39-49	Overburden	1995	76.22	20	<0.2	<0.2	<0.2	<0.3	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	75.21	10	<1	<1	<1	<3	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.89	19	<2	<2	<2	<2	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.54	16	<1	<1	<1	<2	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.43	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA- 14A	0-15	Overburden	1995	76.23	21	<0.2	<0.2	<0.2	<0.3	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.69	5	<1	<1	<1	<3	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.99	14	<2	<2	<2	<2	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.56	9.8	<1	<1	<1	<2	9.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.47	2	<2	<2	<2	<6	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW- 4	18-28	Overburden	1995	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1997	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1999	NM	10	<2	<2	<2	<2	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	NM	17	<1	<1	<1	<2	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
	MW- 4A	38-48	Overburden	1995	73.7	6	<0.2	<0.2	<0.2	<0.3	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				1999	74.29	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.04	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
	MW- 5	28-38	Overburden	1995	76.42	BDL	<0.2	<0.2	<0.2	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.12	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.06	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.7	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.6	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW- 7	15-25	Overburden	1995	76.27	BDL	<0.2	<0.2	<0.2	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.13	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.03	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.59	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.05	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PS-1D	49.25-54.25	Overburden	1995	76.07	27	<0.2	<0.2	<0.2	<0.3	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1998	75.98	11	<1	<1	<1	<3	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.91	19	<2	<2	<2	<2	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.73	20	<1	<1	<1	<2	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.72	13	<2	<2	<2	<6	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup of PS-1D			2003	NM	13	<2	<2	<2	<6	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PS-1M	34.25-39.25	Overburden	1995	76.48	75	<0.2	<0.2	<0.2	<0.3	**75**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1998	75.76	25	<1	<1	<1	<3	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.9	BDL	<2	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	76.01	36	<1	<1	<1	<2	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	76.28	35	<2	<2	<2	<6	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PS-1S	12-17	Overburden	1995	77.97	8	<0.2	<0.2	<0.2	<0.3	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1998	77.12	12	<1	<1	<1	<3	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.42	BDL	<2	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	76.12	35	<1	<1	<1	<2	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.59	36	<2	<2	<2	<6	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PS-2D	49.1-54.1	Overburden	1995	75.92	13	<0.2	<0.2	<0.2	<0.3	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	75.58	2	<1	<1	<1	<3	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.62	4	<2	<2	<2	<2	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.53	3.7	<1	<1	<1	<2	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
				2003	75.36	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "~" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
(1). Well TRC-106 installed to replace missing well WE-2S; No data available for 9/24/2001, 11/28/2001 & 4/8/2002 events because well WE-2R was erroneously sampled in place of well TRC-106.

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Total BTEX, MTBE and Naphthalene	Benzene	Ethylbenzene	Toluene	Total Xylenes	Methyl tert-butyl ether	Naphthalene (VPH)	Total VPH	C5-C8 Aliphatic	C9-C10 Aromatic	C9-C12 Aliphatic	Total EPH	C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic	Naphthalene (EPH)	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
MCP GW-1 Standards							5	700	1,000	10,000	70	20		400	200	4,000		4,000	5,000	200	20	10	300	20	300	300	3,000	300	200	1	2	1	1	0.2	0.5	0.5	300
LTGMP Overburden Continued	PS-2M	34-39	Overburden	1995	75.43	3	<0.2	<0.2	<0.2	<0.3	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	75.65	4	<1	<1	<1	<3	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.64	11	<2	<2	<2	<2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.73	11	<1	<1	<1	<2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	75.65	7	<2	<2	<2	<6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PS-3	2.7-5.7	Overburden	1995	75.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	75.11	BDL	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	75.17	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.28	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	PS-5D	24.1-29.1	Overburden	1995	75.55	7	<0.2	<0.2	<0.2	<0.3	7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	74.61	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	74.93	12	<2	<2	<2	<2	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.74	11	<1	<1	<1	<2	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	75.03	5.5	<2	<2	<2	<6	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	STM- 8D	34.7-39.7	Overburden	1995	73.36	BDL	<0.2	<0.2	<0.2	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	71.26	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	73.6	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	72.86	2.8	<1	<1	<1	<2	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	72.95	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	STM- 8M	19.5-24.5	Overburden	1995	73.45	BDL	<0.2	<0.2	<0.2	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	71.41	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	73.65	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	72.96	3.6	<1	<1	<1	<2	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	73.03	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	W-01	33.5-38.5	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	NM	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	NM	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	W-02	15-25	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	NM	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	NM	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	NM	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA-105D	16-26	Overburden	1995	76.43	BDL	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.61	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	73.31	BDL	<2	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.9	BDL	<20	<20	<20	<40	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<10	<10	<10	<20	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.91	BDL	<10	<10	<10	<30	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LTGMP Bedrock	EMW-10R	42-52	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	75.81	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	76.56	BDL	<2	<2	<5	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.75	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	75.92	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup of EMW-10R			2003	NM	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EMW-11R3	158-168	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	76.32	12	<1	<1	10	<3	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	76.6	BDL	<20	<20	<20	<20	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.83	BDL	<50	<50	<50	<100	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<50	<50	<50	<100	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.87	BDL	<10	<10	<10	<30	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	STM- 8R	46.5-51.5	Bedrock	1995	73.33	BDL	<0.2	<0.2	<0.2	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	71.15	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	73.65	BDL	<2	<2	<2	<2	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	72.73	BDL	<1	<1	<1	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2003	72.91	BDL	<2	<2	<2	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA-101R	36.5-38	Bedrock	1995	76.91	34	<0.2	<0.2	34	<0.3	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	76.69	37	<1	<1	37	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1998	77.36	57	<1	<1	57	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	76.87	14	<2	<2	14	<4	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	8.2	<5	<5	8.2	<40	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	76.48	BDL	<20	<20	<20	<60	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA-102R2	25-26.5	Bedrock	1995	77.5	BDL	<100	<100	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	78.36	BDL	<1	<1	<1	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	79.08	BDL	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	76.14	BDL	<5	<5	<5	<20	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<10	<10	<10	<20	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.98	BDL	<20	<20	<20	<60	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
(1). Well TRC-106 installed to replace missing well WE-2S; No data available for 9/24/2001, 11/28/2001 & 4/8/2002 events because well WE-2R was erroneously sampled in place of well TRC-106.

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Total BTEX, MTBE and Naphthalene	Benzene	Ethylbenzene	Toluene	Total Xylenes	Methyl tert-butyl ether	Naphthalene (VPH)	Total VPH	C5-C8 Aliphatic	C9-C10 Aromatic	C9-C12 Aliphatic	Total EPH	C9-C18 Aliphatics	C19-C36 Aliphatic	C11-C22 Aromatic	Naphthalene (EPH)	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
MCP GW-1 Standards							5	700	1,000	10,000	70	20		400	200	4,000		4,000	5,000	200	20	10	300	20	300	300	3,000	300	200	1	2	1	1	0.2	0.5	0.5	300
LTGMP Bedrock Continued	GZA-103R1	18-19	Bedrock	1995	72.28	BDL	<100	<100	<100	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	73.58	35	8.0	<1	27	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	74.4	511	<10	7.0	480	24	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.04	1,574	<10	18	1,500	56	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	427	<5	23	340	64	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	76.44	164	<2	19	98	47	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	GZA-103R2	28-29	Bedrock	1995	73.46	BDL	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	74.25	9.0	<1	<1	9.0	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	74.56	BDL	<20	<20	<20	<20	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.16	BDL	<5	<5	<5	<4	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	48.8	5.8	<5	43	<10	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	75.32	25	<2	<2	25	<6	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-301R	66-172	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	3.2	BDL	<2	<2	<2	<6	<2	NA	BDL				BDL																				
Source Control Shallow Bedrock	GZA-105R	34.5-36.5	Bedrock	1995	74.62	BDL	<250	<250	<250	<250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1997	75.47	3.0	<1	<1	3.0	<2	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				1999	76.19	BDL	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.95	BDL	<50	<50	<50	<100	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<100	<100	<100	<200	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				8/2003	76.8	BDL	<40	<40	<40	<120	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EMW-11R1	79-89	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	77.9	BDL	<2	<2	<5	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.87	BDL	<5	<5	<5	<10	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<20	<20	<20	<40	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				8/2003(*)	75.98	BDL	<100	<100	<100	<300	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BRW-1R2	46-66	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	75.92	BDL	<10	<10	<10	<30	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-2R1	17.5-38	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	76.32	BDL	<40	<40	<40	<120	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-4R1	38-48	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	75.81	BDL	<100	<100	<100	<300	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Source Control Deep Bedrock	EMW-11R2	104-114	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	BDL	<1	<1	<1	<3	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2000	76.32	BDL	<2	<2	<5	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2001	75.86	BDL	<100	<100	<100	<200	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2002	NM	BDL	<200	<200	<200	<400	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				2003	76.02	BDL	<40	<40	<40	<120	<40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BRW-1R4	133-153	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	75.83	BDL	<20	<20	<20	<60	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup of BRW-1R4			8/2003(*)	75.83	BDL	<20	<20	<20	<60	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-1R2	54-74	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	76.02	BDL	<200	<200	<200	<600	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-2R3	72-92	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	76	BDL	<100	<100	<100	<300	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-3R2	64-84	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	76.36	BDL	<100	<100	<100	<300	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	IP-4R3	80-115	Bedrock	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1998	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				8/2003(*)	75.85	BDL	<100	<100	<100	<300	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.
(1). Well TRC-106 installed to replace missing well WE-2S; No data available for 9/24/2001, 11/28/2001 & 4/8/2002 events because well WE-2R was erroneously sampled in place of well TRC-106.

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Ground-water Elevation	Total BTEX & Naphthalene	Benzene	Ethylbenzene	Toluene	Total Xylenes	Methyl tert-butyl ether	Naphthalene (VPH)	Total VPH	C5-C8 Aliphatic	C9-C10 Aromatic	C9-C12 Aliphatic	Total EPH	C9-C18 Aliphatic	C19-C36 Aliphatic	C11-C22 Aromatic	Naphthalene (EPH)	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene
	MCP GW-1 Standards						5	700	1,000	10,000	70	20		400	200	4,000		4,000	5,000	200	20	10	300	20	300	300	2,000	300	200	1	2	1	1	0.2	0.5	0.5	300
Tank K	TRC-104	1-10	Overburden	11/2000	NM	269	9	<5	<15	<10	260	<10	560	320	<70	240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	75.64	172	<5	<5	<15	22	150	<10	120	<240	<70	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2002	NM	78	<5	<5	<15	<20	78	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	75.59	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TRC-106[1]	2-12	Overburden	2/2001	NM	9,591	300	730	3,400	5,000	51	110	20,000	10,000	6,100	3,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	75.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				9/2002	NM	5,161	200	350	2,100	2,350	79	82	15,400	4,200	2,300	8,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	280	11	24	95	150	<5	<10	1,100	340	220	540	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	75.65	1,938	76	160	740	880	16	66	5,500	1,600	1,200	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-4S	3-13	Overburden	11/2000	NM	3,245	440	590	41	1,890	94	190	9,300	1,900	4,500	2,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	NM	490	27	42	<15	370	28	23	1,960	290	370	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	154	10	15	<15	98	31	<10	500	<240	120	380	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				4/2002	NM	332	27	40	<15	230	35	<10	1,190	<240	260	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2002	NM	13	<5	<5	<15	<20	13	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	727	49	110	<15	505	37	26	3,180	340	840	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	NM	502	12	80	<15	377	<5	33	2,340	<240	840	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-07	2-12	Overburden	11/2000	NM	6,930	290	470	630	5,200	100	240	11,000	3,000	6,600	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	75.83	974	81	96	23	680	32	62	7,600	1,000	1,900	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	2,592	22	<5	180	2,300	66	24	15,730	730	4,000	11,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2002	NM	215	32	49	<15	83	28	23	1,610	300	420	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				8/2003	NM	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	75.71	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-08	2-17	Overburden	11/2000	NM	5,673	120	110	30	5,280	13	120	13,800	2,000	6,900	4,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	75.43	347	<5	22	<15	311	<5	14	2,080	<240	580	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	661	20	39	<15	584	7	11	3,890	280	910	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2002	NM	324.5	8.5	17	<15	238	61	<10	1,520	<240	420	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	7,188	110	290	<150	6,520	68	200	25,600	<2,400	6,600	19,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				8/2003	NM	1,868	44	180	<45	1,550	<12	94	10,200	<920	3,000	7,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	75.72	222.1	7.1	32	<15	170	<5	13	1,390	<240	560	810	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	WE-09	2-12	Overburden	11/2000	NM	5,890	430	520	1,800	2,700	150	290	17,000	4,700	8,000	4,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2001	76.61	9,920	160	670	<300	8,700	<100	390	56,000	<4,800	13,000	43,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				11/2001	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				4/2002	NM	5,680	55	450	140	4,800	85	150	32,000	1,600	6,400	24,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2002	NM	3,692	96	630	86	2,560	70	250	28,400	1,600	7,800	19,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				3/2003	NM	981	11	130	<30	770	15	55	6,220	520	1,900	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				8/2003	NM	1,085	24	210	42	719	12	78	8,570	770	2,900	4,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
				9/2003	76.06	1,760	25	250	62	1,270	13	140	9,940	640	3,400	5,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup of WE-09			3/2003	NM	936	10	110	<30	750	14	52	8,180	480	1,800	5,900*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Eastern Parking Lot	EMW-11S	1-11	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	BDL	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
				2001	NM	BDL	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	59	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2002	NM	BDL	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	50	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	ND
				2003	NM	BDL	<5	<5	<15	<20	<5	<10	BDL	<240	<70	<100	BDL	<31	<42	<88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	GZA-105S	4-14	Overburden	1995	76.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	76.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	75.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	BDL	ND	ND	ND	ND	ND	ND	390	ND	120	270	210	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
				2001	75.9	BDL	ND	ND	ND	ND	ND	ND	480	ND	310	170	147	98	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	ND
				2002	NM	BDL	ND	ND	ND	ND	ND	ND	700	ND	550	150	97	97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	ND
				2003	75.86	BDL	<5	<5	<15	<20	<5	<10	450	<240	140	310	81	81	<41	<87	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TRC-101	1.5-10.5	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	179	ND	33	ND	71	ND	75	1,900	ND	1,900	ND	BDL	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2001	6.3	144	ND	25	ND	54	ND	65	1,800	ND	1,800	ND	507	77	430	ND	27	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2002	NM	113	ND	24	ND	24	ND	65	5,200	<240	3,200	2,000	90	90	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2003	6.5	73	<5	15	<15	<20	<5	58	3,400	<240	1,500	1,900	85	85	<41	<87	23	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Dup of TRC-101			2003	NM	78	<5	15	<15	<20	<5	63	3,500	<240	1,500	2,000	88	88	<40	<86	21	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TRC-102	2.25-12.25	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	BDL	ND	ND	ND	ND	ND	ND	420	ND	150	270	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2001	5.48	BDL	ND	ND	ND	ND	ND	ND	490	ND	230	260	66	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
				2002	NM	BDL	ND	ND	ND	ND	ND	ND	480	ND	330	150	89	89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2003	5.6	BDL	<5	<5	<15	<20	<5	<10	140	<240	<70	140	32	32	<40	<86	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	TRC-103	1.25-11.25	Overburden	1995	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1997	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				1999	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				2000	NM	BDL	ND	ND	ND	ND	ND	ND	338	ND	98	240	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2001	6.46	BDL	ND	ND	ND	ND	ND	ND	320	ND	100	220	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND
				2002	NM	BDL	ND	ND	ND	ND	ND	ND	202	ND	130	72	94	94	<41	<88	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	ND
				2003	6.4	BDL	<5	<5	<15	<20	<5	<10	214	<240	74	140	44	44	<40	<86	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Notes:
1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given year.
5. "BDL" denotes all analytes are below given detection limits.
6. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
7. "*" denotes sample was obtained using a Passive Diffusion Bag sampler.

[1] - Well TRC-106 installed to replace missing well WE-2S. No data available for 9/24/2001, 11/28/2001 & 4/8/2002 events because well WE-2R was erroneously sampled in place of well TRC-106.

Table 2-1
Eastern Parking Lot - Summary of Depth to Water and LNAPL Thickness
Wells PZ-2S, CW-1, CW-2, and TRC-101
Former GE Site, Wilmington, MA

	PZ-2S				CW-1				CW-2				TRC-101			
Date	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Volume Removed (gal.)	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Volume Removed (gal.)	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Volume Removed (gal.)	DTW (ft.)	DTP (ft.)	Thickness (ft.)	Volume Removed (gal.)
4/15/1994	(1)	(1)	0.85	(2)	(3)				(3)				(3)			
6/20/1994	(1)	(1)	0.22	(2)	(3)				(3)				(3)			
12/14/1994	(1)	(1)	0.39	(2)	(3)				(3)				(3)			
6/14/1995	(1)	(1)	0	(2)	(3)				(3)				(3)			
12/19/1995	(1)	(1)	0.25	(2)	(3)				(3)				(3)			
6/10/1996	(1)	(1)	0.21	(2)	(3)				(3)				(3)			
12/9/1996	(1)	(1)	0.83	(2)	(3)				(3)				(3)			
6/30/1997	(1)	(1)	0.17	(2)	(3)				(3)				(3)			
12/29/1997	(1)	(1)	0	(2)	(3)				(3)				(3)			
9/11/1998	(1)	(1)	0.15	(2)	(3)				(3)				(3)			
12/23/1998	6.8	5.81	0.99	(2)	(3)				(3)				(3)			
6/23/1999	6.95	6.84	0.11	(2)	(3)				(3)				(3)			
12/6/1999	7.5	6.2	1.3	0.2	(3)				(3)				(3)			
12/20/1999	7.65	6.15	1.5	0.26	(3)				(3)				(3)			
12/29/1999	6.72	6.12	0.6	0.13	(3)				(3)				(3)			
1/4/2000	6.75	6.22	0.53	0.13	(3)				(3)				(3)			
1/10/2000	6.61	5.98	0.63	0.13	(3)				(3)				(3)			
1/18/00(4)	6.01	5.95	0.06	0.13	(3)				(3)				(3)			
1/25/2000	6.74	6.14	0.6	0.13	(3)				(3)				(3)			
5/8/00*	5.5	5.31	0.19	0.01	(3)				(3)				(3)			
6/9/2000	5.65	5.45	0.2	0.01	(3)				(3)				(3)			
7/7/2000	6.95	6.45	0.5	0.02	(3)				(3)				(3)			
8/2/2000	6.72	5.82	0.9	0.04	(3)				(3)				(3)			
9/12/2000	6.05	5.95	0.1	0.01	(3)				(3)				(3)			
10/9/2000	7.1	6.6	0.5	0.03	(3)				(3)				(3)			
11/8/2000	6.7	6.5	0.2	0.01	NM				NM				(3)			
12/5/00(5)	5.29	NA	0	0	NM				NM				NM			
12/7/2000	6.08(6)	NA	0	0	4.50(6)	NA	0	0	4.29(6)	NA	0	0	NM			
1/16/2001	6.53(6)	NA	0	0	NM				NM				NM			
1/19/2001	6.33(6)	NA	0	0	4.62	NA	0	0	4.4	NA	0	0	NM			
2/15/2001	5.5	NA	0	0	3.99(6)	NA	0	0	3.79(6)	NA	0	0	NM			
3/9/2001	5.65(6)	NA	0	0	4.15(6)	NA	0	0	3.93(6)	NA	0	0	NM			
4/01	5.45	NA	0	0	3.98(6)	NA	0	0	3.79(6)	NA	0	0	NM			
5/24/2001	6.25	NA	0	0	4.53(6)	NA	0	0	4.2(6)	NA	0	0	NM			
8/6/2001	6.1	NA	0	0	3.36	3.35	0.01	0	4.56	4.55	0.01	0	NM			
10/4/2001	6.85	NA	0	0	5.15(6)	NA	0	0	4.94	4.93	0.01	0	NM			
11/1/2001	7.05	7.04	0.01	0	5.2	NA	0	0	5.2	NA	0	0	NM			
11/29/2001	7.22	NA	0	0	6.4	NA	0	0	6.32	NA	0	0	NM			
12/19/2001	5.59	5.14	0.45	0	4.69	NA	0	0	4.48	NA	0	0	NM			
1/9/2002	NA	NA	NA	0.26	NA	NA	0	0	NA	NA	0	0	NM			
1/29/2002	6.25	6.1	0.15	0	4.6	NA	0	0	4.46	NA	0	0	NM			
2/18/2002	LNAPL removed via vacuum extraction at PZ-2S, CW-1, and CW-2.												NM			
2/21/2002	Tank Farm System is turned off. Booms are removed from CW-1 and CW-2.												NM			
2/21/2002	6.1	NA	0	0	4.44	NA	0	0	4.2	NA	0	0	NM			
3/21/2002	5.93	NA	0	0	4.26	NA	0	0	4.08	NA	0	0	NM			
4/30/2002	5.67	NA	0	0	4.15	NA	0	0	3.91	NA	0	0	NM			
5/24/2002	5.4	NA	0	0	4.07	NA	0	0	3.82	NA	0	0	NM			
6/27/2002	6.22	NA	0	0	4.61	NA	0	0	4.38	NA	0	0	NM			
Monitoring Frequency Increased to Weekly																
7/30/2002	6.60	NA	0	0	4.97(6)	4.91	0.06	0	4.74(6)	4.68	0.06	0	NM	NM	NA	0
8/6/2002	6.76	NA	0	0	5.13(6)	5.06	0.07	0	4.93(6)	4.84	0.09	0	6.58	6.42	0.16	0
8/9/2002	LNAPL removed via vacuum extraction at PZ-2S, CW-1, CW-2, and TRC-101.															
8/23/2002	NA	NA	0	0	NA	NA	0.003	0.05	NA	NA	0.003	0.025	NA	NA	0.001	0
8/29/2002	7.57	7.18	0.39	0.13	5.65(6)	5.56	0.09	0.13	5.44(6)	5.34	0.10	0.13	6.97	6.96	0.01	0
9/4/2002	LNAPL removed via vacuum extraction at PZ-2S, CW-1, CW-2, and TRC-101.															
9/4/2002	6.95	6.71	0.24	0	5.15(6)	5.10	0.05	0	4.92(6)	4.88	0.04	0	6.49	NA	0	0
9/12/2002	7.20	NA	0	0	5.52(6)	NA	0	0	5.31(6)	NA	0	0	6.92	NA	0	0
9/18/2002	7.31	7.18	0.13	0.11	6.54(6)	6.45	0.09	0.04	6.37(6)	6.25	0.12	0.05	6.87	NA	0	0
9/25/2002	6.85(6)	6.85	0	0	5.28(6)	5.19	0.09	1.50	5.03(6)	4.98	0.05	0.13	6.60	NA	0	0
10/4/2002	6.88	6.85	0.03	0	5.28(6)	5.20	0.08	0	5.04(6)	4.98	0.06	0	6.60	NA	0	0
10/11/2002	7.07	7.04	0.03	0	5.44(6)	5.34	0.10	0	5.21(6)	5.12	0.09	0	6.75	NA	0	0
10/18/2002	6.28	6.23	0.05	0	4.82(6)	4.77	0.05	0	4.57(6)	4.56	0.01	0	6.17	NA	0	0
10/24/2002	6.48	NA	0	0	4.88(6)	NA	0	0	4.65(6)	NA	0	0	6.27	NA	0	0
11/8/2002	6.13	6.10	0.03	0	4.59(6)	4.56	0.03	0	4.33(6)	4.32	0.01	0	5.95	NA	0	0
11/15/2002	5.88	NA	0	0	4.39(6)	NA	0	0	4.17(6)	NA	0	0	5.80	NA	0	0
11/20/2002	5.09	5.07	0.02	0.01	4.00(6)	NA	0	0	3.78(6)	NA	0	0	5.41	NA	0	0
11/27/2002	5.45	NA	0	0	4.11(6)	NA	0	0	3.95(6)	NA	0	0	5.68	NA	0	0
12/6/2002	5.91	NA	0	0	4.42(6)	4.42(7)	0	0	4.22(6)	NA	0	0	5.87	NA	0	0
12/13/2002	5.66	NA	0	0	4.25(6)	NA	0	0	4.02(6)	4.02(7)	0	0	5.65	NA	0	0
12/20/2002	5.19	NA	0	0	4.00(6)	NA	0	0	3.79(6)	NA	0	0	5.41	NA	0	0
12/27/2002	5.12	NA	0	0	NM	NM	NM	0	NM	NM	NM	0	NM	NM	NM	0
12/30/2002	5.30	NA	0	0	4.09(6)	NA	0	0	3.98(6)	NA	0	0	5.51	NA	0	0
1/10/2003	5.35	NA	0	0	4.13(6)	NA	0	0	3.90(6)	NA	0	0	5.57	NA	0	0
1/17/2003	5.67	NA	0	0	4.31(6)	NA	0	0	4.09(6)	4.09(7)	0	0	5.74	NA	0	0
1/21/2003	5.86	NA	0	0	4.42(6)	NA	0	0	4.20(6)	4.20(7)	0	0	NA	NA	NA	NA
1/30/2003	6.25	NA	0	0	4.65(6)	NA	0	0	4.43(6)	4.44	0.01	0	6.05	NA	0	0
~~2/7/2003~~	~~4.94~~	~~NA~~	~~0~~	~~0~~	~~4.42~~	~~NA~~	~~0~~	~~0~~	NM	NM	NM	0	5.81	NA	0	0
Monitoring Frequency Decreased to Monthly																
3/18/2003	5.04	NA	0	0	3.73(6)	NA	0	0	3.51(6)	NA	0	0	5.20	NA	0	0
4/21/2003	5.28	NA	0	0	3.92	NA	0	0	3.80	3.66	0.14	0	5.35	NA	0	0
4/25/2003	NM	NM	0	0	4.01	NA	0	0	3.90	3.76	0.14	0.5	NM	NM	NM	0
4/30/2003	NM	NM	0	0	3.95	NA	0	0	3.85	3.72	0.13	0	NM	NM	NM	0
4/30/2003	LNAPL removed via vacuum extraction at CW-2.															
5/7/2003	NM	NM	0	0	4.25	NA	0	0	4.07	4.01	0.06	0	NM	NM	NM	0
5/16/2003	NM	NM	0	0	4.36	NA	0	0	4.20	4.14	0.06	0	NM	NM	NM	0
5/22/2003	6.14	NA	0	0	4.52	NA	0	0	4.37	4.30	0.07	0	5.95	NA	0	0
6/30/2003	5.95	NA	0	0	4.45	4.43	0.02	0	4.25	4.18	0.07	0	5.85	NA	0	0
7/30/2003	LNAPL removed via vacuum extraction at CW-2.															
7/31/2003	6.01	NA	0	0	4.53	4.52	0.01	0	4.25	NA	Sheen	0	5.9	NA	0	0
8/29/2003	6.76	6.75	0.01	0	4.89	4.88	0.01	0	5.41	5.40	0.01	0	6.5	NA	0	0
9/29/2003	6.03	NA	sheen	0	4.61	4.6	0.01	0	5.21	5.40	0.01	0	6.35	NA	0	0

Notes:

Bgs - Below ground surface.

NA - Not Applicable.

NM - Not Measured.

(4) Water level meter may have been unreliable due to low temperature.

(5) Four-inch diameter well installed on November 30, 2000 to replace existing PZ-2S 0.5-inch diameter well.

(6) Noted a sheen on water surface.

(7) Product was detected with interface probe but not a measurable amount (product thickness < 0.01 ft)

* LNAPL gauging at monitoring well PZ-2S was conducted on a semi-annual basis from April 1994 through May 2000. TRC then increased gauging frequency to monthly. MA DEP then requested that monthly LNAPL gauging continue at PZ-2S, CW-1, and CW-2 as part of the requirements of the Phase V O&M program, beginning December 2000.

(1) Not documented by Emcon.

(2) No recoverable LNAPL present.

(3) Well not installed.

Table 3-1
Tank K SVE System Maintenance Monitoring
Former GE Site, Wilmington, MA

Date	PID Readings across GAC (ppm_v)		
	Influent	**Midpoint**	**Effluent**
	Biweekly		
2/8/2001	< 1	< 1	< 1
2/9/2001	< 1	< 1	< 1
2/21/2001	< 1	< 1	< 1
2/23/2001	< 1	< 1	< 1
2/27/2001	< 1	< 1	< 1
3/2/2001	< 1	< 1	< 1
3/7/2001	< 1	< 1	< 1
3/23/2001	< 1	< 1	< 1
	Monthly		
4/20/2001	< 1	< 1	< 1
5/25/2001	< 1	< 1	< 1
6/29/2001	< 1	< 1	< 1
7/12/2001	1.2	< 1	< 1
8/6/2001	1.4	< 1	< 1
9/24/2001	1.2	< 1	< 1
10/8/2001	<1	<1	<1
11/28/2001	<1	< 1	< 1
12/14/2001	<1	< 1	< 1
1/7/2002	<1	< 1	< 1
2/22/2002	<1	< 1	< 1
3/25/2002	<1	< 1	< 1
4/2002	NM	NM	NM
5/29/2002	NM	NM	NM
6/18/2002	<1	< 1	< 1
7/31/2002	<1	< 1	< 1
8/14/2002[1]	58	43.5	5.1
8/28/2002[1,2]	32	28	26
9/27/2002	<1	< 1	< 1
10/28/2002	<1	<1	<1
11/12/2002	NM	NM	NM
12/17/2002	<1	<1	<1
	Monthly		
12/23/2002	<1	<1	<1
1/24/2003	<1	<1	<1
2/18/2003	<1	<1	<1
3/25/2003	<1	<1	<1
4/18/2003	NM	NM	NM
4/22/2003	<1	<1	<1
5/6/2003	NM	NM	NM
5/23/2003	<1	<1	<1
6/17/2003	<1	<1	<1
7/22/2003	<1	<1	<1
8/4/2003	NM	NM	NM
8/25/2003	<1	<1	<1
9/10/2003	<1	<1	<1
9/26/2003	<1	<1	<1

Note:
GAC = Granular Activated Carbon
NM = Not Measured due to intermittent operations
[1] = VOC data biased high due to faulty PID (sensitive to excessive moisture in the air stream).
[2] = Second monthly measurement taken to evaluate air stream.

Table 3-2
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (°C)	pH	Pressure (in. w.c.)
PZ-8S	2/27/2001	NM	67.8	0.61	12.9	5.98	0
	3/23/2001	NM	NM	NM	NM	NM	NM
	6/29/2001	NM	41.2	0.43	18.12	6.03	0
	9/19/2001	NM	NM	NM	NM	NM	NM
	12/14/2001	NM	NM	NM	NM	NM	NM
	4/8/2002	NM	NM	NM	NM	NM	NM
	9/25/2002	NM	NM	NM	NM	NM	NM
	3/18/2003	NM	NM	NM	NM	NM	NM
	9/22/03	NM	NM	NM	NM	NM	NM
TRC-104	2/27/2001	2.82	146.9	1.74	6.74	5.81	0
	3/23/2001	0.95	238	8.64	5.89	5.34	0
	6/29/2001	4.31	47.5	0.35	22.18	5.5	0
	9/19/2001	3.89	-13.7	0.34	25.45	6.11	0
	12/14/2001	3.75	84.8	3.81	10.12	5.91	0
	4/8/2002	3.21	92.6	5.93	10.85	5.79	NM
	9/25/2002	4.00	-4.2	0.25	24.52	6.09	NM
	3/18/2003	2.65	61.6	13.25	6.82	4.85	NM
	9/22/2003	4.27	-273	0.36	23.89	6.30	NM
TRC-105D	2/27/2001	2.88	112.2	0.75	11.27	5.84	0
	3/23/2001	1.00	136	0.52	8.34	5.93	0
	6/29/2001	4.35	61.3	0.48	20.11	6.03	0
	9/19/2001	NM	NM	NM	NM	NM	NM
	12/14/2001	NM	NM	NM	NM	NM	NM
	4/8/2002	NM	NM	NM	NM	NM	NM
	9/25/2002	NM	NM	NM	NM	NM	NM
	3/18/2003	NM	NM	NM	NM	NM	NM
	9/22/03	NM	NM	NM	NM	NM	NM
TRC-105S	2/27/2001	NM	223.4	4.63	5.32	5.9	0
	3/23/2001	0.63	171	10.32	5.52	6.48	0
	6/29/2001	NM	151.2	3.18	23.21	5.83	0
	9/19/2001	NM	NM	NM	NM	NM	NM
	12/14/2001	NM	NM	NM	NM	NM	NM
	4/8/2002	NM	NM	NM	NM	NM	NM
	9/25/2002	NM	NM	NM	NM	NM	NM
	3/18/2003	NM	NM	NM	NM	NM	NM
	9/22/03	NM	NM	NM	NM	NM	NM

Notes:
ORP = Oxidation/Reduction Potential
DO = Dissolved Oxygen
NM = Not Measured

Table 3-2 (Cont.)
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (°C)	pH	Pressure (in. w.c.)
TRC-106	2/27/2001	3.45	45.9	4.55	8.17	6.51	2.3
	3/23/2001	Not Located					
	6/29/2001	NM	NM	NM	NM	NM	NM
	9/19/2001	NM	NM	NM	NM	NM	NM
	12/14/2001	NM	NM	NM	NM	NM	NM
	4/8/2002	NM	NM	NM	NM	NM	NM
	9/25/2002	4.38	14.6	2.12	21.04	7.13	NM
	3/21/2003	3.40	186.3	5.00	7.99	8.92	NM
	9/22/2003	5.74	-141.3	0.82	20.60	8.02	NM
WE-2R	2/27/2001	NM	NM	NM	NM	NM	NM
	3/23/2001	NM	NM	NM	NM	NM	NM
	6/29/2001	4.97	36	3.01	17.2	6.05	0
	9/19/2001	4.21	179.9	3.22	16.38	5.45	0
	12/14/2001	4.05	184.3	5.13	12.18	5.87	0.85
	4/8/2002	3.38	192.2	4.74	13.75	5.64	NM
	9/25/2002	NM	NM	NM	NM	NM	NM
	3/18/2003	NM	NM	NM	NM	NM	NM
	9/22/03	NM	NM	NM	NM	NM	NM
WE-4D	2/27/2001	3.35	249.1	1.82	10.15	5.09	0
	3/23/2001	1.45	190	8.88	7.83	5.74	0
	6/29/2001	4.83	197.8	1.22	16.01	4.44	0
	9/19/2001	4.31	207.7	0.83	19.63	4.8	0
	12/14/2001	4.16	211.2	4.81	11.06	6.21	5.8
	4/8/2002	NM	NM	NM	NM	NM	NM
	9/25/2002	NM	NM	NM	NM	NM	NM
	3/18/2003	NM	NM	NM	NM	NM	NM
	9/22/03	NM	NM	NM	NM	NM	NM
WE-4S	2/27/2001	3.37	306.4	11.83	6.29	5.29	12.5
	3/23/2001	0.98	192	9.75	6.78	5.62	0
	6/29/2001	3.21	240.3	6.05	22.1	6.2	0
	9/19/2001	3.31	-28.3	0.33	25.15	5.97	0
	12/14/2001	3.12	121.4	9.12	9.55	6.05	12.1
	4/8/2002	3.71	136.2	9.27	11.16	6.04	NM
	9/25/2002	4.75	84.3	0.80	23.82	5.97	NM
	3/18/2003	3.23	48.9	3.19	6.71	5.67	NM
	9/22/2003	4.27	-85.1	0.27	23.70	5.79	NM

Notes:
ORP = Oxidation/Reduction Potential
DO = Dissolved Oxygen
NM = Not Measured

Table 3-2 (Cont.)
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (°C)	pH	Pressure (in. w.c.)
WE-7	2/27/2001	3.09	16.8	1.41	4.8	6.07	0
	3/23/2001	0.45	161	4.35	5.44	6.38	0
	6/29/2001	4.11	-113.7	0.43	23.39	6.1	0
	9/19/2001	3.61	-23.5	0.46	23.95	6.13	0
	12/14/2001	3.48	-15.6	1.2	8.65	6.21	0
	4/8/2002	3.17	-81.0	0.74	10.82	6.19	NM
	9/25/2002	4.57	-79.9	0.22	23.77	6.14	NM
	3/18/2003	2.81	50.7	0.54	3.76	6.40	NM
	9/22/2003	4.20	21.4	1.44	24.13	6.64	NM
WE-8	2/27/2001	3.11	-24.2	0.9	8.99	6.26	0
	3/23/2001	0.74	182	7.75	6.86	6.05	0
	6/29/2001	4.13	56	5.90	20.2	6.1	0
	9/19/2001	3.67	46.9	0.30	25.58	5.87	0
	12/14/2001	3.54	61.7	0.72	9.31	6.03	0
	4/8/2002	3.50	15.2	0.46	11.33	6.06	NM
	9/25/2002	4.80	-58.7	0.33	22.58	6.43	NM
	3/18/2003	2.70	-31.9	0.42	7.51	6.51	NM
	9/22/2003	4.28	-62.1	0.95	23.48	6.43	NM
WE-9	2/27/2001	3.24	9.1	1.91	6.14	6.07	0
	3/23/2001	0.95	135	1.44	7.21	5.97	0
	6/29/2001	4.35	-78	0.33	23.55	6.04	0
	9/19/2001	3.89	-77.2	0.29	25.77	6.15	0
	12/14/2001	3.75	60.1	0.36	9.42	6.14	0
	4/8/2002	3.51	-148.3	0.21	11.11	6.26	NM
	9/25/02	4.85	-123.0	0.58	24.38	6.20	NM
	3/18/2003	2.90	-47.0	1.25	5.06	6.41	NM
	9/22/2003	4.28	-173.2	0.20	24.43	6.33	NM

Notes:
ORP = Oxidation/Reduction Potential
DO = Dissolved Oxygen
NM = Not Measured

Table 6-1
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
GZA-1 (WWT)	2	3-38	Overburden
GZA-2 (A)(WWT)	2	3-18	Overburden
GZA-3 (A)(WWT)	2	0-13	Overburden
GZA-4 (A)(WWT)	2	5-15	Overburden
GZA-5 (WWT)	2	3-13	Overburden
GZA-6 (WWT)	2	8-18	Overburden
GZA-7	1.5	4-14	Bedrock
GZA-8	1.5	6-31	Overburden
GZA-9	1.5	14-19	Overburden
GZA-10	1.5	13-38	Overburden
GZA-11	1.5	6-41	Overburden
GZA-12	1.5	9.5-24.5	Overburden
GZA-13	1.5	8-23	Overburden
GZA-14	1.5	39-49	Overburden
GZA-14A	1.5	0-15	Overburden
GZA-15	1.5	3.8-13.8	Bedrock
WE-5R1	2	13-28	Bedrock
WE-6D	2	13.5-23.5	Overburden
WE-6R	2	30-40	Bedrock
WE-105R2	2	50-65	Bedrock
DP-1	.75	1-11	Overburden
DP-2	.75	1-11	Overburden
DP-3	.75	3-8	Overburden
DP-4B	.75	3-8	Overburden

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
DP-5	.75	0-10	Overburden
DP-6	.75	0-10	Overburden
DP-7	.75	3-7	Overburden
DP-8	.75	3-7	Overburden
DP-9	.75	1-11	Overburden
DP-10	.75	1-11	Overburden
DP-11	.75	3-10	Overburden
DP-12	.75	3-8	Overburden
PZ-1S	.75	5-10	Overburden
PZ-1M	.75	15-18	Overburden
PZ-1D	.75	24-29	Overburden
PZ-1R	.75	37.3-42.3	Bedrock
PZ-2S	4	3.5 – 8.5	Overburden
PZ-2R	Removed		
PZ-3	.75	1-11	Bedrock
PZ-4S	.75	4-9	Overburden
PZ-4D	.75	18-28	Overburden
PZ-4R	.75	46-51	Bedrock
PZ-5S	.75	5-10	Overburden
PZ-5D	.75	24.5-29.5	Overburden
PZ-6S	.75	1-8	Overburden
PZ-6M	.75	12-17	Overburden
PZ-6D	.75	31.5-36.5	Overburden
PZ-6R	.75	50-55	Bedrock
PZ-7S	.75	0-10	Overburden

Notes:
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B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
PZ-7D	.75	21.9-26.9	Overburden
PZ-7R	.75	35.5-40.5	Bedrock
PZ-8S	.75	7-12	Overburden
PZ-8M	.75	17-22	Overburden
PZ-8D	.75	40-45	Overburden
PZ-8R	.75	55-60	Bedrock
PZ-9S	.75	3-13	Overburden
PZ-9D	.75	25-30	Overburden
PZ-9R	.75	38-43	Bedrock
GZA-101M	1.5	10-15	Overburden
GZA-101D	1.5	22-26	Overburden
GZA-101R	4	36.5-38	Bedrock
GZA-101S	1.5	3-13	Overburden
GZA-102R1	.5	15-16.5	Bedrock
GZA-102R2	.5	25-26.5	Bedrock
GZA-102S	1.5	2.5-11.5	Overburden
GZA-103R1	.5	18-19	Bedrock
GZA-103R2	.5	28-29	Bedrock
GZA-103S	1.5	1.7-9.7	Overburden
GZA-104D	1.5	17.8-27.8	Overburden
GZA-104R	.5	34.5-36.5	Bedrock
GZA-104R	.5	49-51	Bedrock
GZA-104S	1.5	2.9-12.9	Overburden
GZA-105D	1.5	16-26	Overburden
GZA-105R	.5	34.5-36.5	Bedrock

Notes:
A = Abandonment approved by DEP July 16, 1997.
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WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
GZA-105S	1.5	4-14	Overburden
GZA-106S	1.5	5-7	Overburden
GZA-106M	1.5	22-32	Overburden
GZA-106D	1.5	30-40	Overburden
GZA-106R	5	45.8-47.3	Bedrock
GZA-107S	1.5	2-12	Overburden
GZA-107D	1.5	39.2-44.2	Overburden
GZA-107M	1.5	14.5-24.5	Overburden
GZA-107R	5	62.2-64.2	Bedrock
GZA-108D (A)	1.5	17-27	Overburden
GZA-108R (A)	5	35-36	Bedrock
GZA-108R (A)	5	43.3-44.5	Bedrock
GZA-108S (A)	1.5	3-13	Overburden
STM-1R (A)		ABANDONED	
STM-2S	.75	2-12	Overburden
STM-2M	.75	30-35	Overburden
STM-2D1	.75	40-50	Overburden
STM-2D2	.75	63-68	Overburden
STM-2R1	.75	84-89	Bedrock
STM-2R2	.75	105-110	Bedrock
STM-3S	.75	5-15	Overburden
STM-3D	.75	49.8-54.8	Overburden
STM-3R	.75	66.9-71.9	Bedrock
STM-4S	.75	5-15	Overburden
STM-4R	.75	21.5-26.5	Bedrock

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
STM-5S (A)		ABANDONED	
STM-5R (A)		ABANDONED	
STM-6S (A)		ABANDONED	
STM-6M (A)		ABANDONED	
STM-6R1 (A)		ABANDONED	
STM-6R2 (A)		ABANDONED	
STM-7BS	.75	2.5-7.5	Overburden
STM-7R1	.75	13-18	Bedrock
STM-7R2	.75	25.8-30.8	Bedrock
STM-8S	.75	1-11	Overburden
STM-8M	.75	19.5-24.5	Overburden
STM-8D	.75	34.7-39.7	Overburden
STM-8R	.75	46.5-51.5	Bedrock
STM-9R (A)		ABANDONED	
STM-9S (A)		ABANDONED	
STM-10S	.75	17-22	Overburden
STM-10R1	.75	26.5-31.5	Bedrock
STM-10R2	.75	36-41	Bedrock
PS-1D	.62	49.25-54.25	Overburden
PS-1M	.62	34.25-39.25	Overburden
PS-1S	.62	12-17	Overburden
PS-2S	.62	12.5-17.5	Overburden
PS-2M	.62	34-39	Overburden
PS-2D	.62	49.1-54.1	Overburden
PS-3	.62	2.7-5.7	Overburden

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
PS-4	.62	12.9-17.9	Overburden
PS-5D	.62	24.1-29.1	Overburden
PS-5S	.62	13-18	Overburden
PS-6	.62	11-16	Overburden
PS-7D (A)	.62	46.8-51.8	Overburden
PS-7S (A)	.62	8.1-13.1	Overburden
PS-7M (A)	.62	20.4-25.4	Overburden
PS-8D	.62	51.8-56.8	Overburden
PS-8M	.62	34.3-39.3	Overburden
PS-8S	.62	13-18	Overburden
(EMW) WE-10S	2	0-9.5	Overburden
(EMW) WE-10D	2	19-29	Overburden
(EMW) WE-10R	2	42-52	Bedrock
(EMW) WE-11S	2	1-11	Overburden
(EMW) WE-11D	2	22-32	Overburden
(EMW) WE-11R	.75	79-89	Bedrock
(EMW) WE-11R	.75	104-114	Bedrock
(EMW) WE-11R	.75	158-168	Bedrock
ORW-1	5.75	14-29	Overburden
BRW-1	3.75	30-169	Bedrock
W-1	2	33.5-38.5	Overburden
W-2	2	15-25	Overburden
IW-1	1.5	5.5-22.5	Overburden
IW-2	1.5	5.5-25.5	Overburden
WE-07	2	2-12	Overburden

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-X-XX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
WE-08	4	2-17	Overburden
WE-09	2	2-12	Overburden
TF-1	10	13.5-32	Bedrock
MW-1	1.5	55-60	Bedrock
MW-2 (A)	1.5	29-39	Overburden
MW-3 (A)	1.5	15-25	Overburden
MW-4	1.5	18-28	Overburden
MW-4A	1.5	38-48	Overburden
MW-5	1.5	28-38	Overburden
MW-6	1.5	19-29	Overburden
MW-6A	1.5	11-16	Overburden
MW-7	1.5	15-25	Overburden
MW-8 (A)	1.5	13-18	Overburden
MW-9 (A)	1.5	25-35	Overburden
MW-10 (A)	1.5	15-20	Overburden
MW-11A (A)			
MW-11 (A)	1.5	28-38	Overburden
MW-12 (A)	1.5	8-23	Overburden
MW-13 (A)	1.5	8-18	Overburden
MW-14 (A)			
MW-15 (A)	1.5	6.5-11.5	Overburden
GZA-1 (1985) (B)	1.5	0-18	Overburden
GZA-2 (1985) (B)	1.5	4-24	Overburden
GZA-3 (1985) (B)	1.5	7.5-17.5	Overburden
GZA-4 (1985) (B)	1.5	2.5-12.5	Overburden

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and
Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

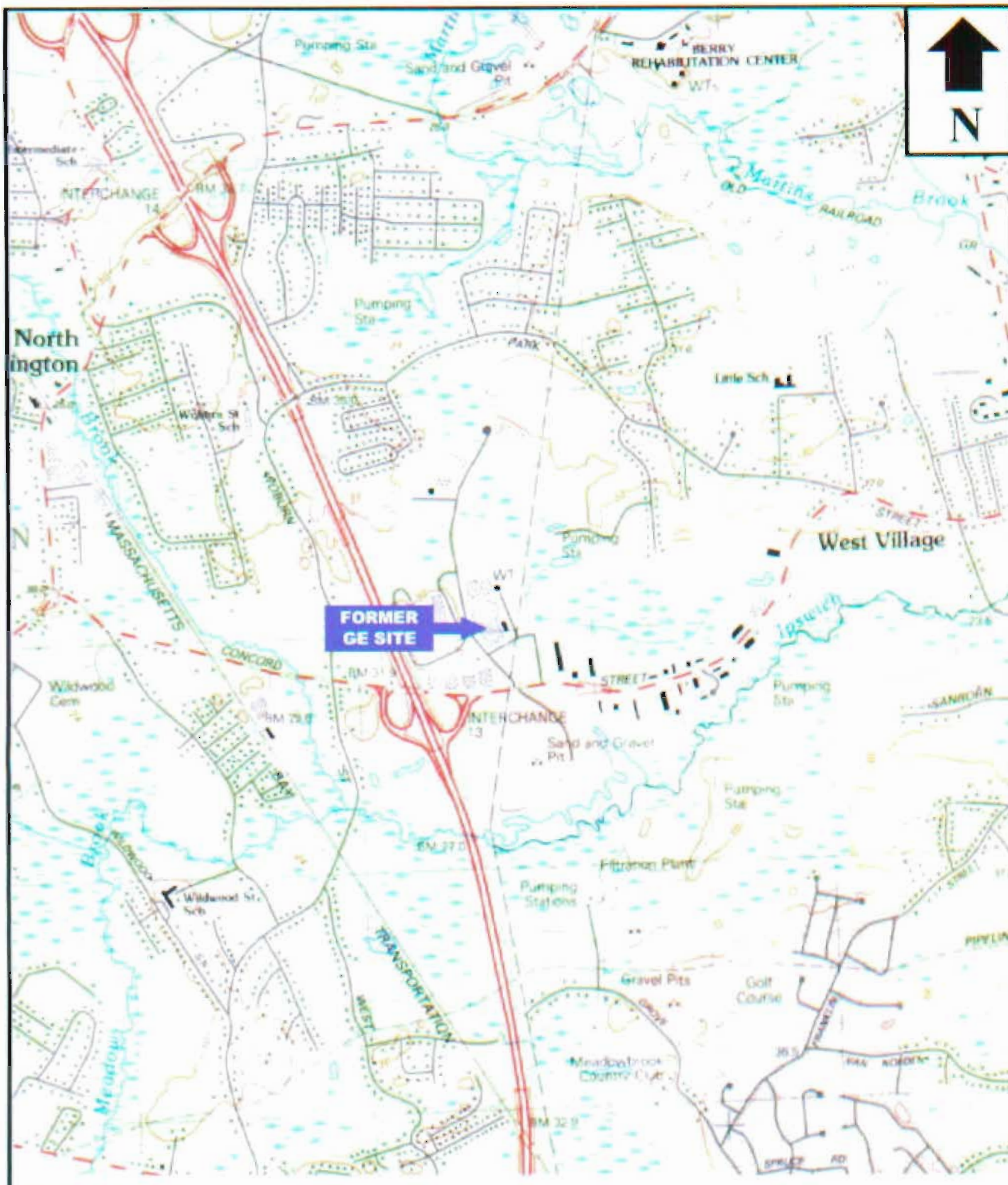
Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
WE-1		3-13	Overburden
WE-2D		18-28	Overburden
WE-2R	3	37-42	Bedrock
WE-3		3-13	Overburden
WE-4S	2	3-13	Overburden
WE-4D	2	20-30	Overburden
WE-2		2-12	Overburden
TRC-101	1.25	1.5 – 10.5	Overburden
TRC-102	1.25	2.25 – 12.25	Overburden
TRC-103	1.25	1.25 – 11.25	Overburden
TRC-104	1.25	1 – 10	Overburden
TRC-105S	1.25	1 – 10	Overburden
TRC-105D	1.25	15 – 20	Overburden
TRC-106	1.25	2 – 12	Overburden
BRW-1R1	Open Borehole 1"	32-44	Bedrock
BRW-1R2	2	46-66	Bedrock
BRW-1R3	2	85-105	Bedrock
BRW-1R4	2	133-153	Bedrock
IP-1R1	2	28-48	Bedrock
IP-1R2	2	54-74	Bedrock
IP-1R3	2	95-115	Bedrock
IP-2RI	1	17.5 - 38	Bedrock
IP-2R2	2	46-66	Bedrock
IP-2R3	2	72-92	Bedrock
IP-2R4	2	98-122	Bedrock

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.

Table 6-1 (Cont.)
Monitoring Well Inventory, Specifications, and Wells Scheduled for Decommissioning
Former GE Site, Wilmington, MA

Well	Well Diameter (inches)	Screen Interval (feet)	Located in Bedrock/Overburden
IP-3R1	2	48-61	Bedrock
IP-3R2	2	64-84	Bedrock
IP-4R1	2	38-48	Bedrock
IP-4R2	2	54-74	Bedrock
IP-4R3	2	80-115	Bedrock
TRC-301R	4	66-172	Bedrock
No. 1	<2	Unknown	Unknown
No. 2	<2	Unknown	Unknown
No. 3	<2	Unknown	Unknown
No. 4	<2	Unknown	Unknown
No. 5	<2	Unknown	Unknown
No. 6	<2	Unknown	Unknown
No. 7A	<2	Unknown	Unknown
No. 7B	<2	Unknown	Unknown
No. 7C	<2	Unknown	Unknown

Notes:
A = Abandonment approved by DEP July 16, 1997.
B = Off-property wells owned by Honeywell to support a septic system design (see CDM's 1986 Stickney Well Report, Figure 2)
WWT = Active Facility Wastewater Treatment Monitoring Location.
MW-XXX = Monitoring Well Scheduled for Abandonment.



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' x 15' USGS TOPOGRAPHIC QUADRANGLE: READING, MA 1987

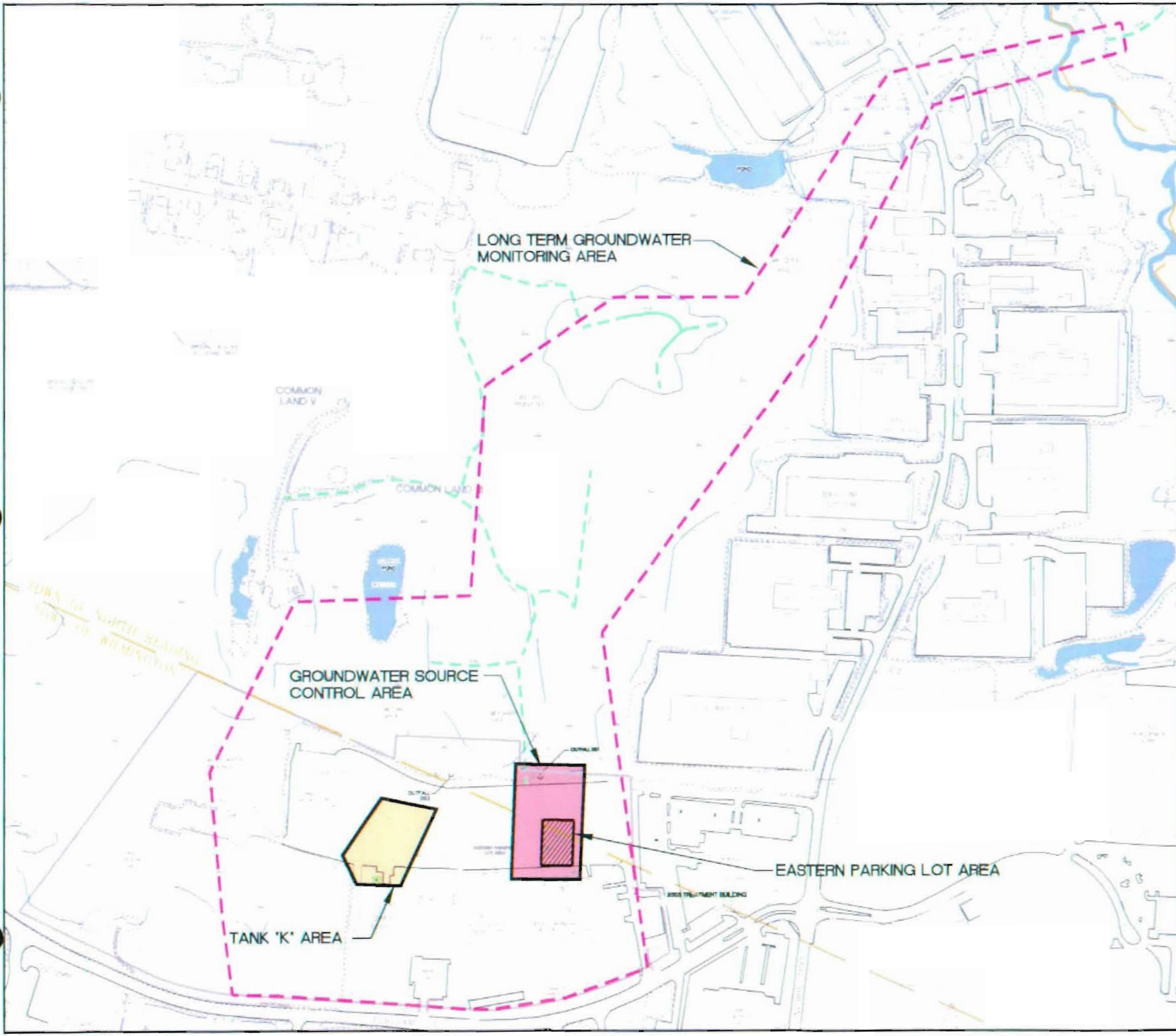
0 1000 2000

Scale in Feet

QUADRANGLE LOCATION

TRC	Boott Mills South Foot of John Street Lowell, MA 01852 (978) 970-5600
FORMER GE SITE **WILMINGTON/NORTH READING, MASSACHUSETTS**	
FIGURE 1-1 **SITE LOCATION MAP**	
Date: 3/04	**Project No. E9202**

E9202 L TOMP 2003 TOPO



LEGEND

BUILDING
APPROXIMATE PROPERTY LINE
APPROXIMATE TOWN LINE
INTERMITTENT STREAM
APPROXIMATE EDGE OF WATER/STREAM
APPROXIMATE EDGE OF WETLANDS
FENCE LINE
TRAIL
FORMER LOCATION OF TANK "K"
WATER BODY
TREE LINE

NOTES

1. TOPOGRAPHIC AND PLANIMETRIC FEATURES SHOWN WERE COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED APRIL 18, 1992 BY EAST COAST MAPPING INC., CONCORD NEW HAMPSHIRE. MAPPING GROUND CONTROL ESTABLISHED BY FIELD SURVEYS CONDUCTED IN APRIL 1992.
2. THE GRID SYSTEM DEPICTED ON THIS PLAN IS BASED ON THE MASSACHUSETTS STATE PLAN COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1929.
3. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. PROPERTY AND TOWN LINE BOUNDARIES WERE ADAPTED FROM:
A) "REGIONAL EXPLORATION PLAN", GENERAL ELECTRIC COMPANY 50 FORDHAM ROAD PROPERTY, WILMINGTON/NORTH READING, MASSACHUSETTS BY GOLDBERG – ZOINO & ASSOCIATES, INC., DATED APRIL 1990;
B) MODIFIED PER NORTH READING GIS DATA, JUNE 2002; AND
C) DIGITIZED BY MASSGIS FROM A SET OF STABLE BASED FILM PRINTS OF THE 1:25,000 7.5' QUADRANGLES PURCHASED FROM THE USGS BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS.

0' 175' 350' 700'
GRAPHIC SCALE

TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

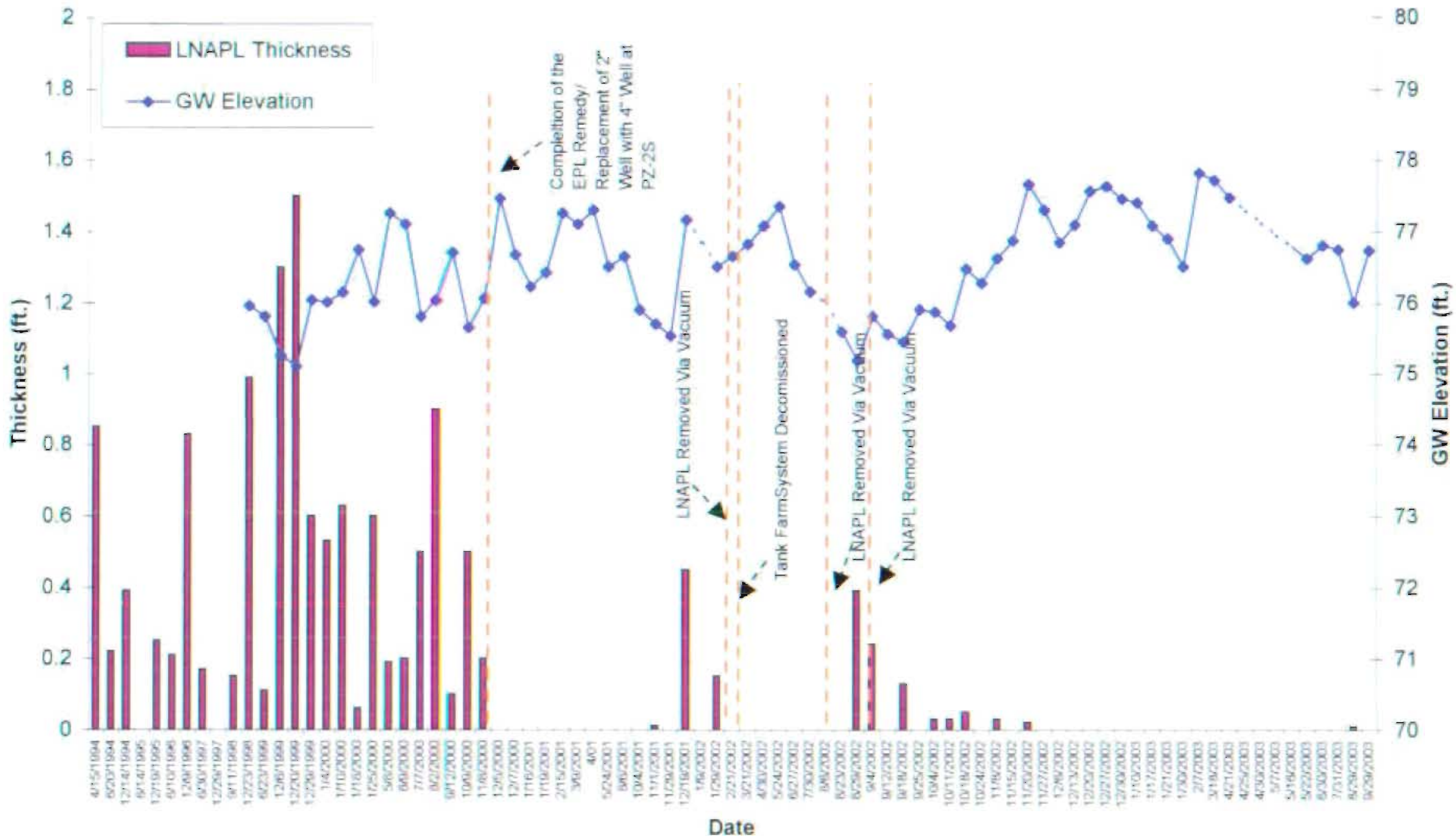
FIGURE 1-2
APPROXIMATE LIMITS OF MONITORING PROGRAM AREAS

Date 3/04 Project No. E9202

E9202\LTGMP ... PROGRAM AREAS

Figure 2-1

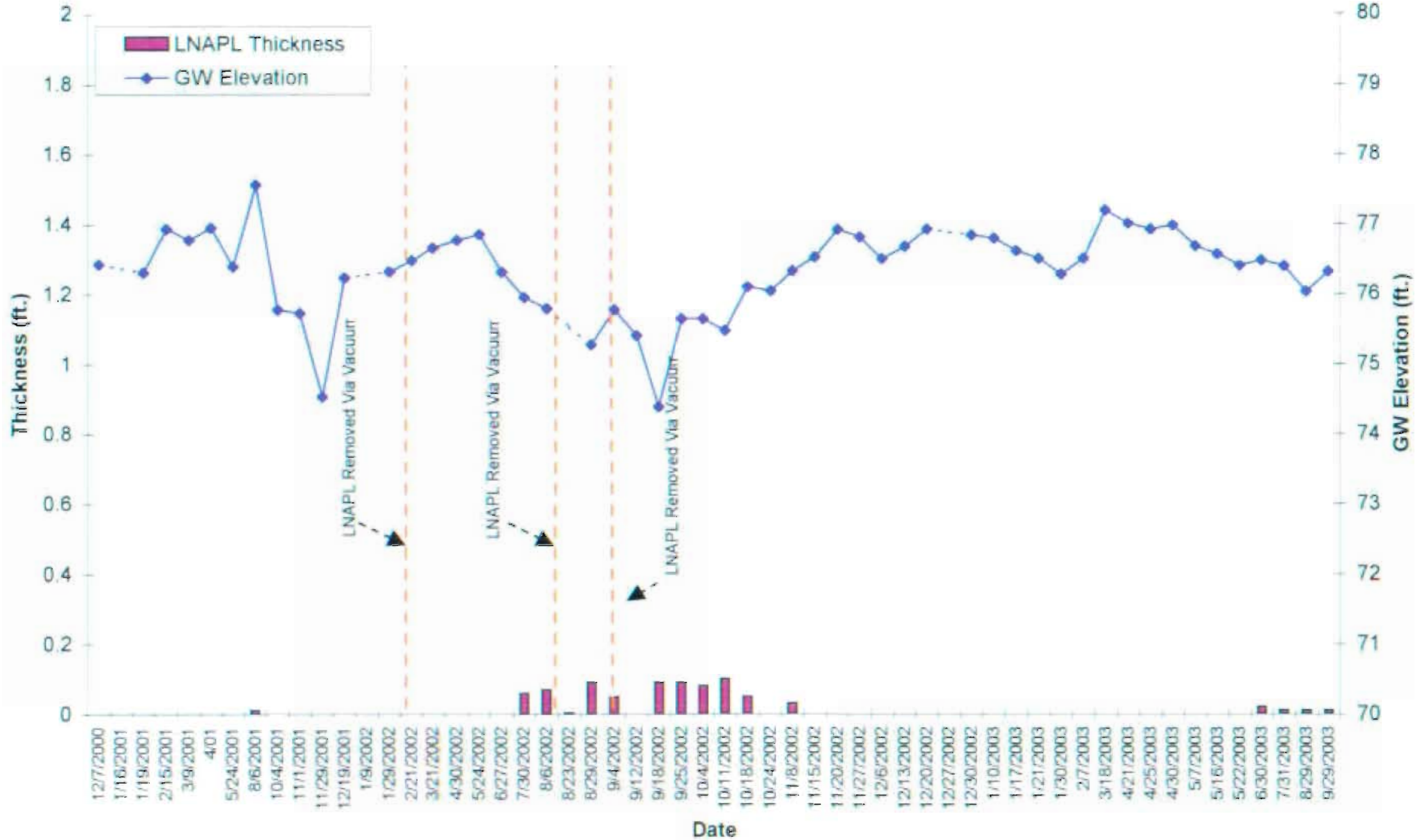
Eastern Parking Lot - Product Thickness and Groundwater Elevation at PZ-2S



Note:
- - - - line for GW elevation trend indicates no data point, linear interpolation between data points used as a surrogate

Figure 2-2

Eastern Parking Lot - Product Thickness and Groundwater Elevation at CW-1



Note:

- - - - line for GW elevation trend indicates no data point, linear interpolation between data points used as a surrogate


LEGEND
BUILDING
APPROXIMATE PROPERTY LINE
APPROXIMATE TOWN LINE
APPROXIMATE EDGE OF WATER/STREAM
APPROXIMATE EDGE OF WETLANDS
FENCE LINE
CULVERT WELL LOCATION
WATER SUPPLY WELL LOCATION
MULTI-LEVEL MONITORING WELL/PIEZOMETER LOCATION
OFFSITE EXTRACTION WELL
SINGLE-LEVEL MONITORING WELL/PIEZOMETER LOCATION
RECOVERY WELL/EXTRACTION WELL LOCATION
WATER BODY
TREE LINE
BEDROCK WELL LOCATION
INJECTION WELL LOCATION
CLOSED WELL LOCATION
TRAIL
TANK "K" SYSTEM PIPING
SPARGE POINT (* DENOTES POINTS REPLACED ON 12/2002)
FORMER LOCATION OF TANK "K"
NOTES
1. TOPOGRAPHIC AND PLANIMETRIC FEATURES SHOWN WERE COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED APRIL 16, 1992 BY EAST COAST MAPPING INC., CONCORD, NEW HAMPSHIRE. MAPPING GROUND CONTROL ESTABLISHED BY FIELD SURVEYS CONDUCTED IN APRIL 1992.
2. THE GRID SYSTEM DEPICTED ON THIS PLAN IS BASED ON THE MASSACHUSETTS STATE PLAN COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1929.
3. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. PROPERTY AND TOWN LINE BOUNDARIES WERE ADAPTED FROM: A) "REGIONAL EXPLORATION PLAN", GENERAL ELECTRIC COMPANY, 50 FORDHAM ROAD PROPERTY, WILMINGTON/NORTH READING, MASSACHUSETTS, BY GOLDBERG – ZOINO & ASSOCIATES, INC., DATED APRIL 1990; B) MODIFIED PER NORTH READING GIS DATA, JUNE 2002; AND C) DIGITIZED BY MASSGIS FROM A SET OF STABLE BASED FILM PRINTS OF THE 125:000 7.5' QUADRANGLES PURCHASED FROM THE USGS BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS.
6. WELL LOCATIONS OF MSM AND STERLING SUPPLY ARE APPROXIMATE AND ARE FOR ILLUSTRATIVE PURPOSES ONLY.
7. ROADWAY EXPRESS WELL LOCATIONS ARE FROM FINAL PHASE 2 COMPREHENSIVE SITE ASSESSMENT SUMMARY REPORT MAY 28, 2002.
0 200' 400'
GRAPHIC SCALE
AIRBORN EXPRESS
BOBCAT BOSTON
POND
N.J. SANFORD CO.
VACANT
WILSONART/ AMETEK/ AGFA/ COMPUGRAPHIC CORP.
COMPUGRAPHIC/MSRE AVCO/TEXTRON
MSM INDUSTRIES
C.M. WHITE IRON WORKS
AGFA COMPUGRAPHICS
PRESTIGE INTERNATIONAL
PACETTI CORP./ VAL-K MACHINE
DL MAHER CO.
DEPENDABLE MASONRY/ U-DO-IT DELI
DYAR SALES AND MACHINERY
MARRIOTT FOODS
SULLIVAN TIRE
CENTRE TRUCKING
DRAKE BAKERIES
SANBORN TRANSPORT
LILY TRUCKING
BARD-MED SYSTEMS
COLES EXPRESS
ST. JOHNSBURY TRUCKING
ROADWAY EXPRESS
CONVERSE INC.
BEDMOND AVENUE
COMMON LAND V
COMMON LAND II
VENTURA PROPERTIES
GROUND OBSCURED BY DENSE TREES
TOWN OF NORTH READING
TOWN OF WILMINGTON
ALEPPO TEMPLE
MASS. CARPENTERS ASSOCIATION
DATAMETRICS
FORDHAM ROAD
CORNELL PLACE
KEYTECH INSTRUMENT
BUILDING 2 GENERAL SCANNING
AMETEK AEROSPACE PRODUCTS BUILDING 1A
AMETEK AEROSPACE PRODUCTS
BUILDING 1
2003 TREATMENT BUILDING
WASTE WATER TREATMENT PLANT
SEWAGE TREATMENT PLANT
BASKET BALL CT.
CONCORD STREET
DYNAMICS RESEARCH CORP.
CONSTRUCTION AREA
LOTUS DEVELOPMENT CORP.
TOWN FOREST SUPPLY WELL
SUPPLY WELL #82-20
APPROX. DIRT ROAD
QUARRY
E9202\LTOMP 2003\SITE PLAN
TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS
FIGURE 1-3
SITE PLAN
Date: 4/04
Project No. E9202

TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 1-4
SHALLOW OVERBURDEN GROUNDWATER POTENTIOMETRIC SURFACE
SEPTEMBER 18, 2003

Date: 11/03 | Project No. E9202

TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 1-5

DEEP OVERBURDEN GROUNDWATER POTENTIOMETRIC SURFACE SEPTEMBER 18, 2003

Date: 11/03	Project No. E9202


LEGEND
BUILDING
APPROXIMATE PROPERTY LINE
APPROXIMATE TOWN LINE
APPROXIMATE EDGE OF WATER/STREAM
APPROXIMATE EDGE OF WETLANDS
FENCE LINE
CULVERT WELL LOCATION
WATER SUPPLY WELL LOCATION
STM-5
MULTI-LEVEL MONITORING WELL/PIEZOMETER LOCATION
OFFSITE EXTRACTION WELL
MW-4A
SINGLE-LEVEL MONITORING WELL/PIEZOMETER LOCATION
RECOVERY WELL/EXTRACTION WELL LOCATION
WATER BODY
TREE LINE
BEDROCK WELL LOCATION
INJECTION WELL LOCATION
CLOSED WELL LOCATION
TRAIL
TANK "K" SYSTEM PIPING
B-2*
SPARGE POINT (* DENOTES POINTS REPLACED ON 12/2002)
FORMER LOCATION OF TANK "K"
(74.98)
GROUNDWATER ELEVATION, FT. ABOVE MSL
ESTIMATE GROUNDWATER FLOW DIRECTION IN BEDROCK
NOTES
1. TOPOGRAPHIC AND PLANIMETRIC FEATURES SHOWN WERE COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED APRIL 16, 1992 BY EAST COAST MAPPING INC., CONCORD, NEW HAMPSHIRE. MAPPING GROUND CONTROL ESTABLISHED BY FIELD SURVEYS CONDUCTED IN APRIL 1992.
2. THE GRID SYSTEM DEPICTED ON THIS PLAN IS BASED ON THE MASSACHUSETTS STATE PLAN COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1929.
3. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. PROPERTY AND TOWN LINE BOUNDARIES WERE ADAPTED FROM:
A) "REGIONAL EXPLORATION PLAN", GENERAL ELECTRIC COMPANY, 50 FORDHAM ROAD PROPERTY, WILMINGTON/NORTH READING, MASSACHUSETTS, BY GOLDBERG - ZOINO & ASSOCIATES, INC., DATED APRIL 1990;
B) MODIFIED PER NORTH READING GIS DATA, JUNE 2002; AND
C) DIGITIZED BY MASSGIS FROM A SET OF STABLE BASED FILM PRINTS OF THE 125:000 7.5' QUADRANGLES PURCHASED FROM THE USGS BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS.
6. WELL LOCATIONS OF MSM AND STERLING SUPPLY ARE APPROXIMATE AND ARE FOR ILLUSTRATIVE PURPOSES ONLY.
7. ROADWAY EXPRESS WELL LOCATIONS ARE FROM FINAL PHASE 2 COMPREHENSIVE SITE ASSESSMENT SUMMARY REPORT MAY 28, 2002.
0
200'
400'
GRAPHIC SCALE
TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS
FIGURE 1-6
BEDROCK GROUNDWATER POTENTIOMETRIC ELEVATIONS
SEPTEMBER 18, 2003
Date: 11/03
Project No. E9202
TOWN OF NORTH READING
TOWN OF WILMINGTON
REDMOND AVENUE
COMMON LAND V
COMMON LAND II
CONCORD STREET
FORDHAM ROAD
COMPUGRAPHIC/MSM/AVCO/TEXTRON
WILSONART/AMETEK/AGFA/COMPUGRAPHIC CORP.
AGFA COMPUGRAPHICS
MSM INDUSTRIES
C.M. WHITE IRON WORKS
PRESTIGE INTERNATIONAL
VACANT
AIRBORN EXPRESS
BOBCAT-BOSTON
N.J. SANFORD CO.
DL MAHER CO.
DEPENDABLE MACHINERY/
ELECTRICAL DYNAMICS INC.
DRAKE BAKERIES
MARRIOTT FOODS
SULLIVAN TIRE
SANBORN TRANSPORT
CENTRE TRUCKING
LILY TRUCKING
BARD-MED SYSTEMS
COLES EXPRESS
ST. JOHNSBURY TRUCKING
ROADWAY EXPRESS
LOTUS DEVELOPMENT CORP
CONVERSE INC.
DYNAMICS RESEARCH CORP
KEYTECH INSTRUMENT
BUILDING 2 GENERAL SCANNING
AMETEK AEROSPACE PRODUCTS BUILDING 1A
AMETEK AEROSPACE PRODUCTS
BUILDING 1
2003 TREATMENT BUILDING
WASTE WATER TREATMENT PLANT
SEWAGE TREATMENT PLANT
BASKET BALL CT.
FORMER METAL CHIP DISPOSAL AREA
VENTURA PROPERTIES
STICKNEY WELL
SUPPLY WELL #82-20
TOWN FOREST SUPPLY WELL
B-LINE SUPPLY WELL
W.E 76.6
GROUND OBSCURED BY DENSE TREES
APPROX DIRT RD
APPROX DIRT ROAD
TRAIL
CULVERT


INSET
KEY
>5,000 µg/L
>1,000 µg/L
>100 µg/L
INDICATES APPROXIMATE LOCATION
WELL IDENTIFICATION
TOTAL CHLORINATED VOLATILE ORGANIC COMPOUNDS CONCENTRATION IN µg/L (2001) INDICATES HISTORICAL DATA
DEPTH, BELOW GROUND SURFACE (BGS)
TOTAL BENZENE, TOLUENE, XYLENE, ETHYL BENZENE, NAPHTHALENE, AND METHYL TERT-BUTYL ETHER CONCENTRATION IN µg/L
TOTAL VOLATILE PETROLEUM HYDROCARBONS IN µg/L
TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS IN µg/L
LEGEND
BUILDING
APPROXIMATE PROPERTY LINE
APPROXIMATE TOWN LINE
APPROXIMATE EDGE OF WATER/STREAM
APPROXIMATE EDGE OF WETLANDS
FENCE LINE
CULVERT WELL LOCATION
WATER SUPPLY WELL LOCATION
MULTI-LEVEL MONITORING WELL/PIEZOMETER LOCATION
OFFSITE EXTRACTION WELL
SINGLE-LEVEL MONITORING WELL/PIEZOMETER LOCATION
RECOVERY WELL/EXTRACTION WELL LOCATION
WATER BODY
TREE LINE
BEDROCK WELL LOCATION
INJECTION WELL LOCATION
CLOSED WELL LOCATION
TRAIL
TANK "K" SYSTEM PIPING
SPARGE POINT (* DENOTES POINTS REPLACED ON 12/2002)
FORMER LOCATION OF TANK "K"
BDL BELOW DETECTION LIMIT
157 INDICATES AT LEAST ONE MCP GW-1 EXCEEDANCE
NOTES
1. TOPOGRAPHIC AND PLANIMETRIC FEATURES SHOWN WERE COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED APRIL 16, 1992 BY EAST COAST MAPPING INC., CONCORD, NEW HAMPSHIRE. MAPPING GROUND CONTROL ESTABLISHED BY FIELD SURVEYS CONDUCTED IN APRIL 1992.
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3. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
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6. WELL LOCATIONS OF MSM AND STERLING SUPPLY ARE APPROXIMATE AND ARE FOR ILLUSTRATIVE PURPOSES ONLY.
7. ROADWAY EXPRESS WELL LOCATIONS ARE FROM FINAL PHASE 2 COMPREHENSIVE SITE ASSESSMENT SUMMARY REPORT MAY 28, 2002.
GRAPHIC SCALE
TOWN OF NORTH READING
TOWN OF WILMINGTON
SEE INSET ABOVE
BUILDING 2 GENERAL SCANNING
AMETEK AEROSPACE PRODUCTS
FORDHAM ROAD
CONCORD STREET
TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS
FIGURE 1-7
CONTAMINANTS IN OVERBURDEN GROUNDWATER
SEPTEMBER 2003
Date: 11/03
Project No. E9202

TRC Environmental Corporation
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

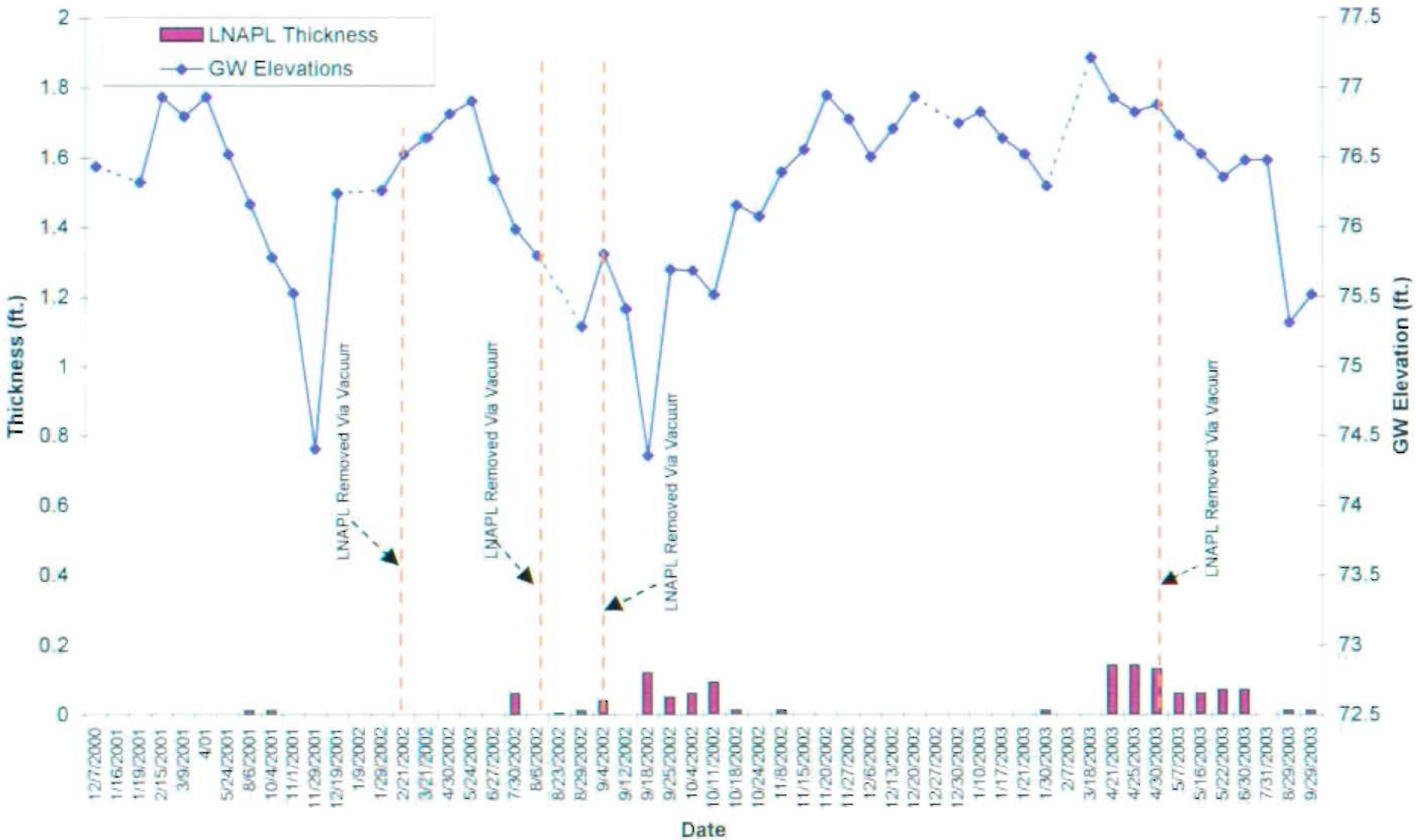
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 1-8
TOTAL CHLORINATED VOCs IN BEDROCK
AUGUST/SEPTEMBER 2003

Date: 4/04 | Project No. E9202

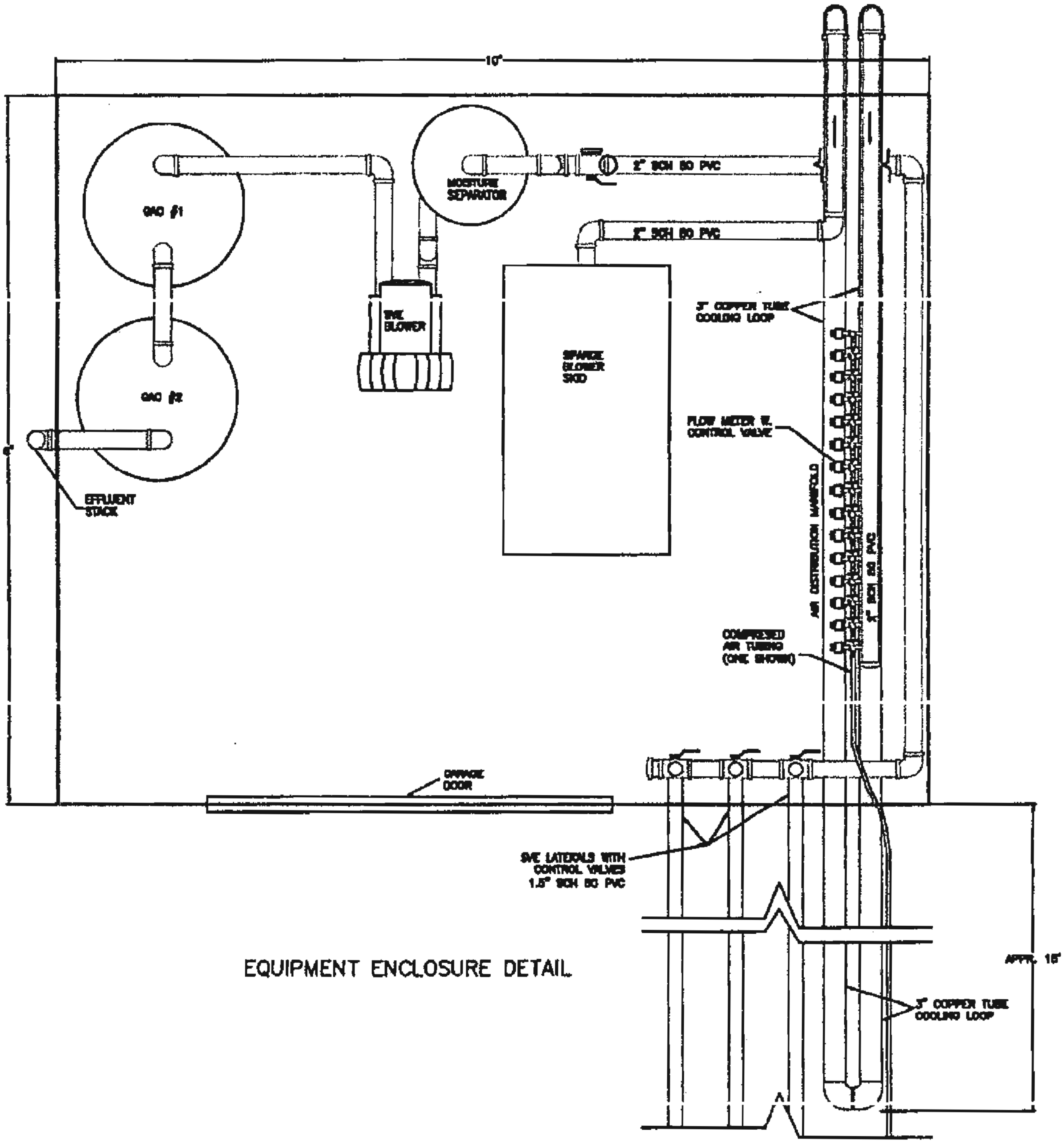
Figure 2-3

Eastern Parking Lot - Product Thickness and Groundwater Elevation at CW-2



Note:

- - - - line for GW elevation trend indicates no data point, linear interpolation between data points used as a surrogate



EQUIPMENT ENCLOSURE DETAIL

NOTE:
PLAN WAS PROVIDED BY I.E.S. ENGINEERING OF NORWOOD, MA. ENTITLED "EQUIPMENT SCHEMATIC AND SUBSURFACE DETAILS (AS BUILT) DATED MARCH 01. NOT TO SCALE

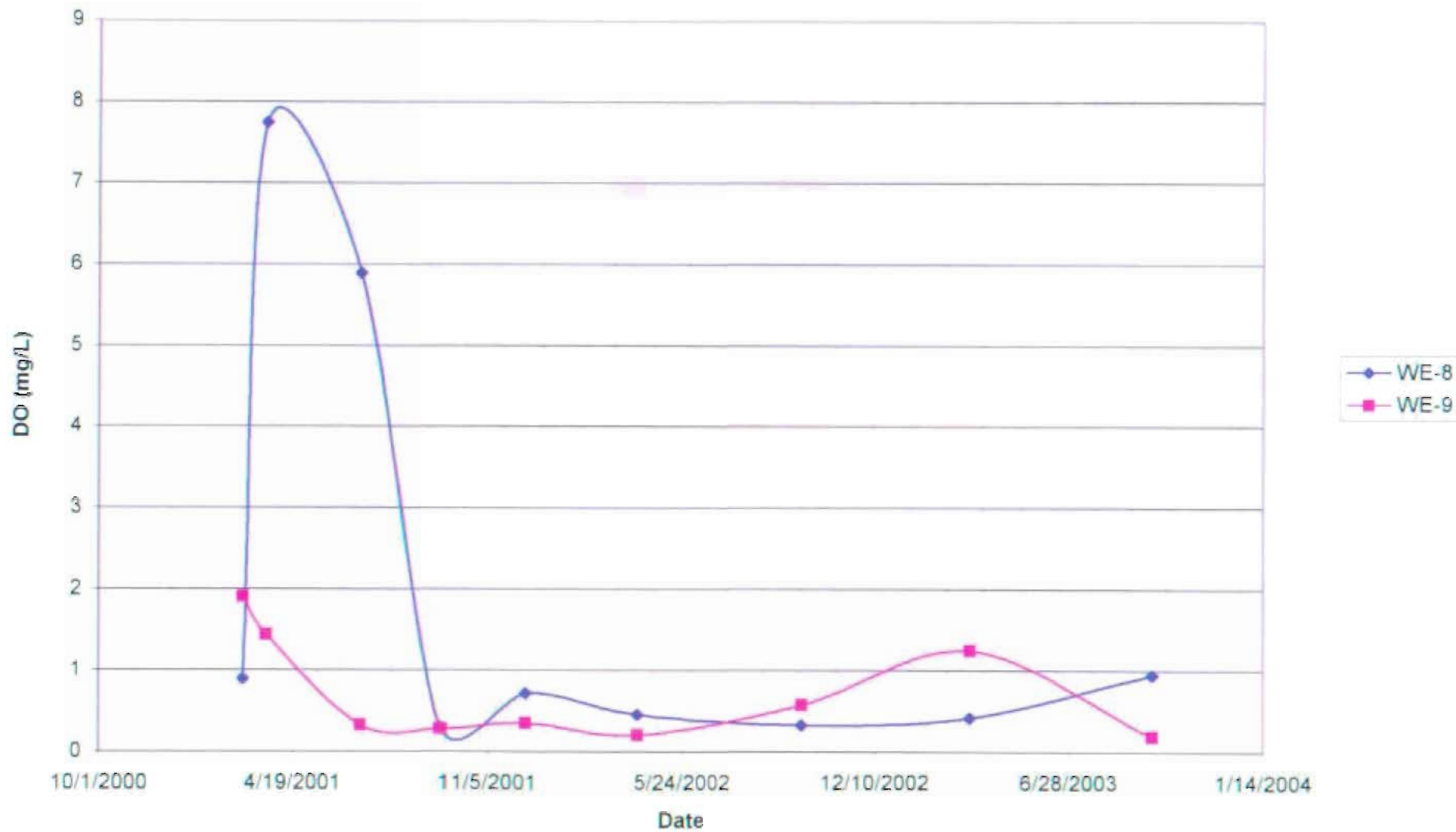
TRC
Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

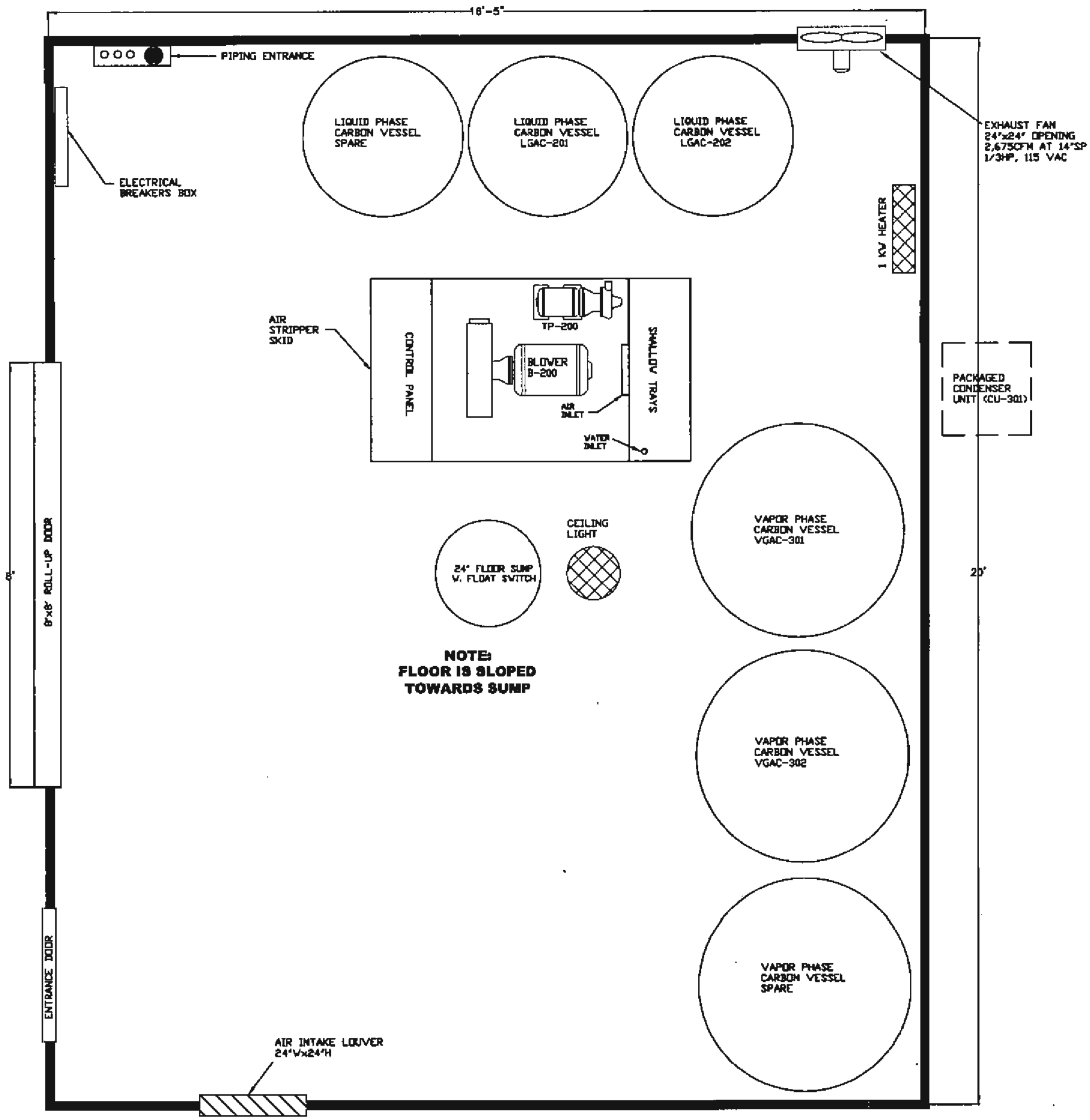
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 3-1
TANK K REMEDIATION SYSTEM LAYOUT

Date: 4/04 | Project No. E9202

Figure 3-2
Tank K Area - Dissolved Oxygen in Groundwater





E9202\LTGMP 2003\ASBUILT

TRC

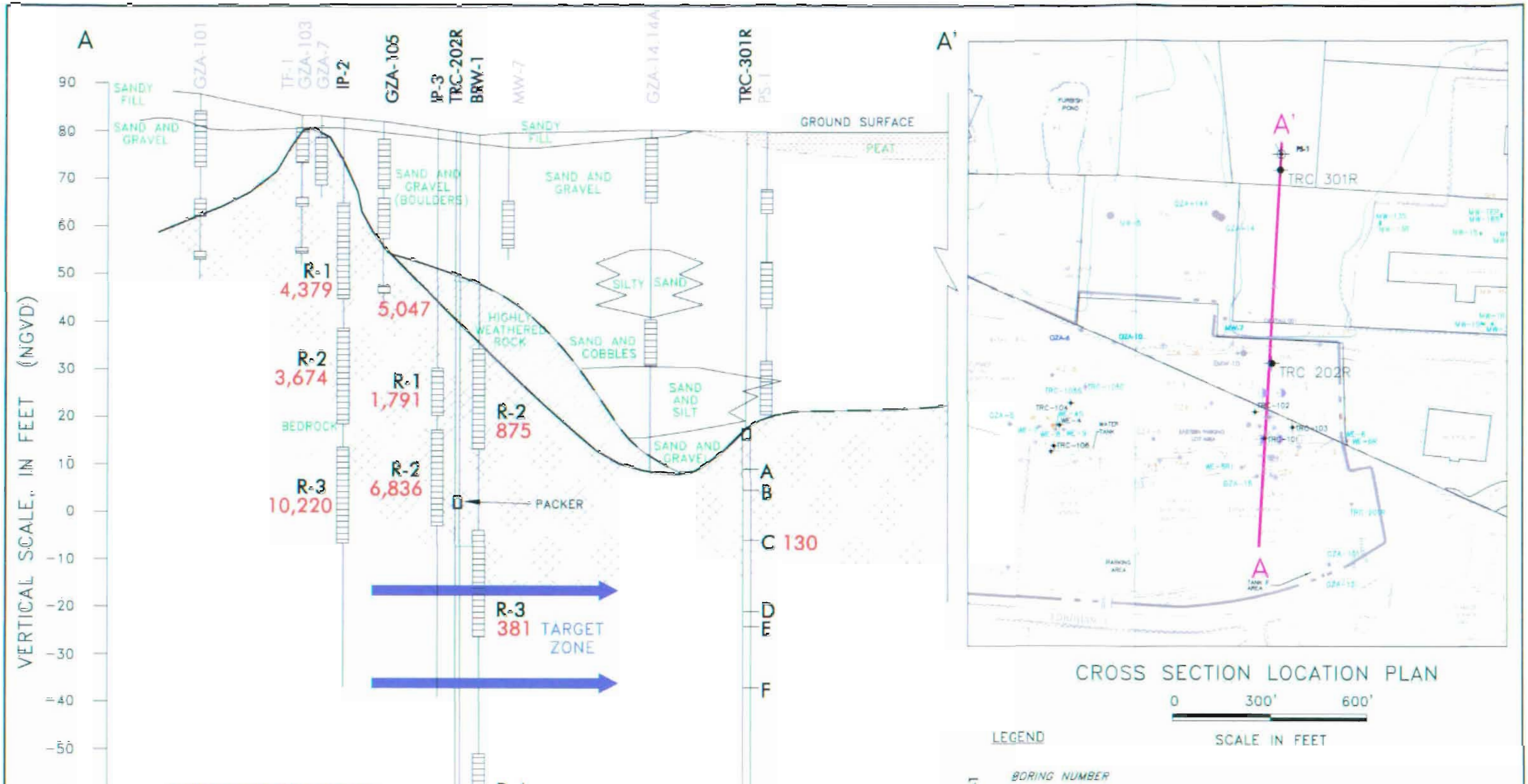
Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 4-1

GROUND WATER SOURCE CONTROL SYSTEM LAYOUT

Date: 4/04	Project No. E9202



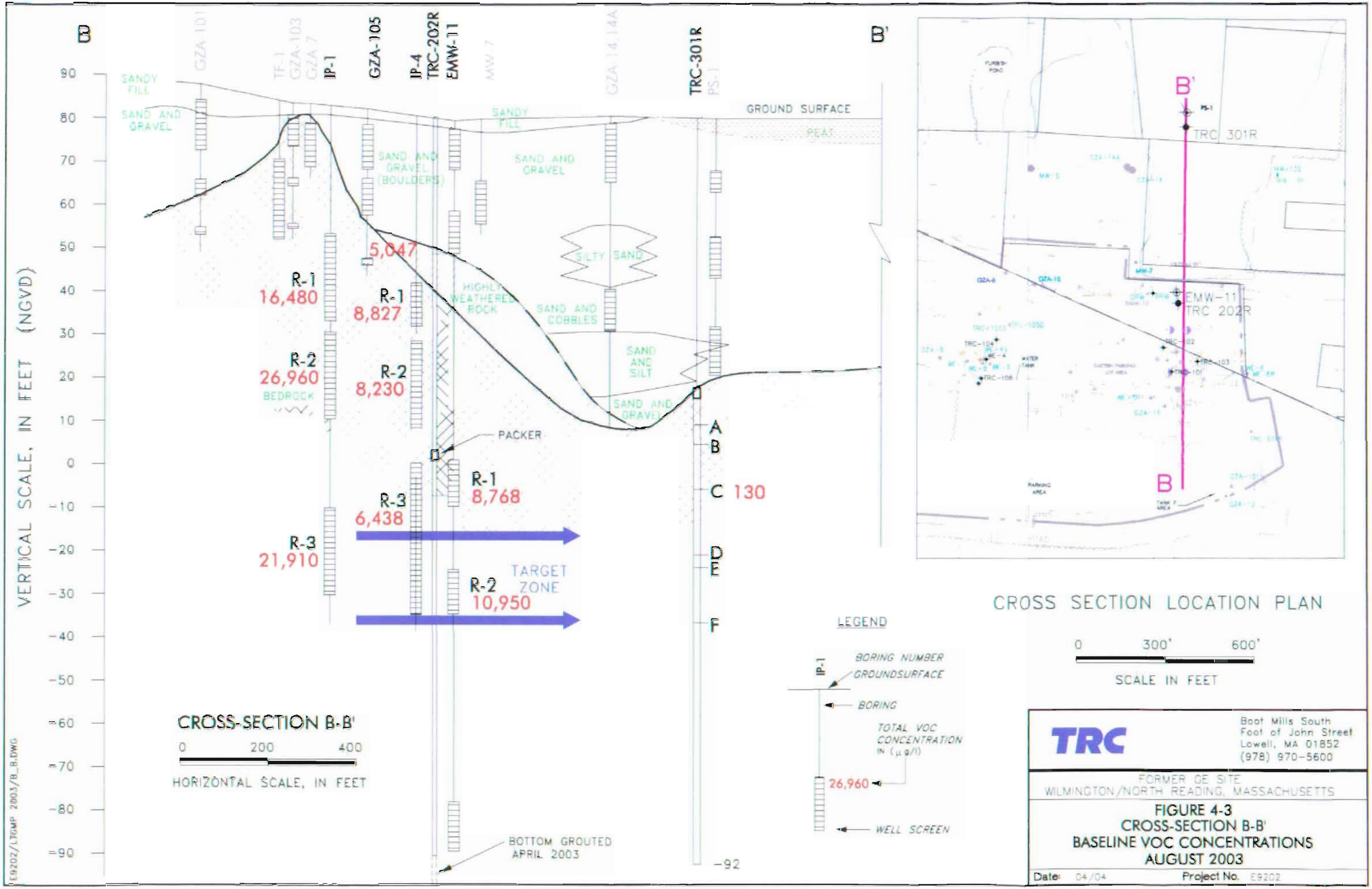
TRC

Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 4-2
CROSS-SECTION A-A'
BASELINE VOC CONCENTRATIONS
AUGUST 2003

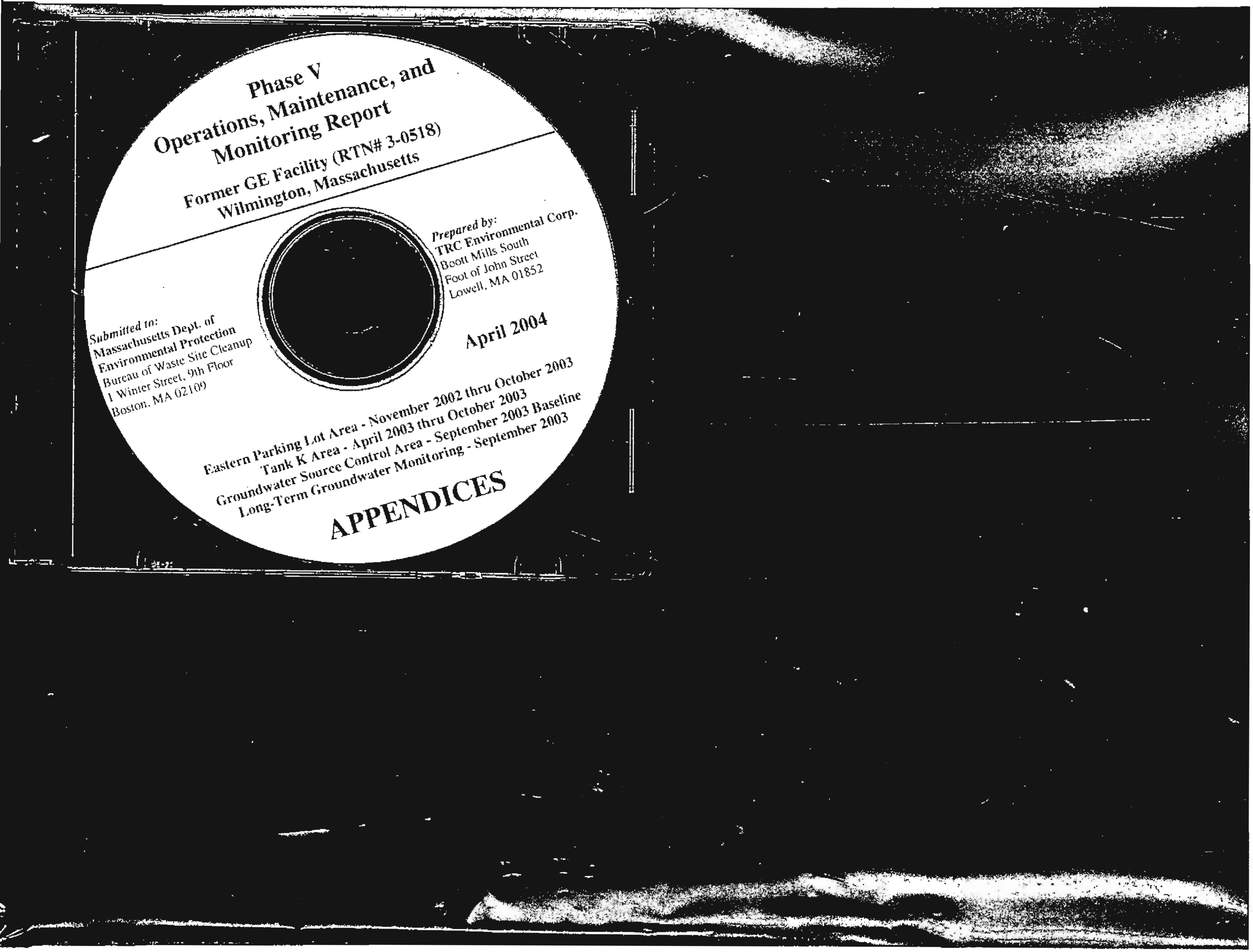
Date: 04/04 | Project No. E9202



B
B'
VERTICAL SCALE, IN FEET (NGVD)
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
GZA-101
TF-1
GZA-103
GZA-7
IP-1
GZA-105
IP-4
TRC-202R
EMW-11
MW-7
GZA-14,14A
TRC-301R
PS-1
GROUND SURFACE
PEAT
SANDY FILL
SAND AND GRAVEL
SAND AND GRAVEL (BOULDERS)
SANDY FILL
SAND AND GRAVEL
SILTY SAND
HIGHLY WEATHERED ROCK
SAND AND COBBLES
SAND AND SILT
SAND AND GRAVEL
BEDROCK
5,047
R-1
16,480
R-1
8,827
R-2
26,960
R-2
8,230
PACKER
R-1
8,768
R-3
6,438
R-3
21,910
TARGET ZONE
R-2
10,950
A
B
C 130
D
E
F
-92
BOTTOM GROUTED APRIL 2003
CROSS-SECTION B-B'
0
200
400
HORIZONTAL SCALE, IN FEET
LEGEND
IP-1
BORING NUMBER
GROUNDSURFACE
BORING
TOTAL VOC CONCENTRATION IN (µg/l)
26,960
WELL SCREEN
B'
TRC 301R
EMW-11
TRC 202R
B
CROSS SECTION LOCATION PLAN
0
300'
600'
SCALE IN FEET
TRC
Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600
FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS
FIGURE 4-3
CROSS-SECTION B-B'
BASELINE VOC CONCENTRATIONS
AUGUST 2003
Date: 04/04
Project No. E9202
E9202/LTGMP 2003/B_B.DWG

OVERSIZE
IMAGE

FIGURE 6-1
WELL DECOMMISSIONING PLAN


Phase V
Operations, Maintenance, and
Monitoring Report
Former GE Facility (RTN# 3-0518)
Wilmington, Massachusetts
Submitted to:
Massachusetts Dept. of
Environmental Protection
Bureau of Waste Site Cleanup
1 Winter Street, 9th Floor
Boston, MA 02109
Prepared by:
TRC Environmental Corp.
Boott Mills South
Foot of John Street
Lowell, MA 01852
April 2004
Eastern Parking Lot Area - November 2002 thru October 2003
Tank K Area - April 2003 thru October 2003
Groundwater Source Control Area - September 2003 Baseline
Long-Term Groundwater Monitoring - September 2003
APPENDICES