REPORT

01-0504

SDMS 41555

Groundwater Management Area 5 Baseline Groundwater Quality Interim Report for Spring 2002

General Electric Company
Pittsfield, Massachusetts

July 2002

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01-0504

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

Transmitted Via Overnight Courier

July 30, 2002

Mr. Bryan Olson
EPA Project Coordinator
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: **GE-Pittsfield/Housatonic River Site**
Groundwater Management Area 5 (GECD350)
Baseline Groundwater Quality Interim Report for Spring 2002

Dear Mr. Olson:

In accordance with GE's Addendum to the Baseline Monitoring Program Proposal for Groundwater Management Area 5, enclosed is the *Groundwater Management Area 5 Baseline Groundwater Quality Interim Report for Spring 2002.* This report summarizes baseline monitoring program activities and presents the results of the groundwater sampling and analysis performed to date at Groundwater Management Area 5.

Please call Andrew Silfer or me if you have any questions regarding this report.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Richard W. Gates/DAJ

Richard W. Gates
Remediation Project Manager

DAJ/nls
Enclosure

cc: Michael Nalipinski, EPA
Tim Conway, EPA (cover letter only)
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James Bieke, Shea & Gardner
John Ciampa, SPECTRA
Property Owner - Parcel I8-23-6/I9-5-1
Property Owner - Parcel I8-23-9
Property Owner - Parcel I8-23-10
Public Information Repositories
GE Internal Repositories

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Table of Contents

Tables

Figures

Appendices

1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), several RAAs at and near the GE Pittsfield facility have been combined into five separate Groundwater Management Areas (GMAs). These GMAs, and the Performance Standards established for the response actions at and related to them, are described in Section 2.7 of the *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Former Oxbows A and C Groundwater Management Area, also known as GMA 5.

In December 2000, GE submitted a *Baseline Monitoring Program Proposal for Former Oxbows A and C Groundwater Management Area* (GMA 5 Baseline Monitoring Proposal). That proposal summarized the then-available hydrogeologic information for GMA 5, identified several initial field activities, and proposed future groundwater monitoring activities for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 5 Baseline Monitoring Proposal by letter of September 25, 2001, and GE subsequently submitted an Addendum to that proposal by letter of October 5, 2001, addressing the conditions in EPA's approval letter. Thereafter, a few modifications were made to the well locations based on field reconnaissance and conditions. These modifications were approved by EPA's oversight contactor,- (Weston), were identified in a GMA 5 status letter to EPA dated November 21, 2001, and are described in Section 2.2 below.

As part of the baseline program, GE is required to submit reports on a semi-annual basis to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. This *Groundwater Management Area 5 Baseline Groundwater Quality Interim Report for Spring 2002* (Spring 2002 GMA 5 Groundwater Quality Report) summarizes the recent field activities (including several new monitoring well installations), presents the results of groundwater measurements

collected at GMA 5 in January and April 2002 and groundwater sampling activities performed in April and May 2002, and describes certain other groundwater characterization activities performed as part of this program.

1.2 Background Information

As discussed above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs. GMA 5 encompasses Former Oxbow Areas A and C, an area of approximately 7 acres adjacent to the Housatonic River and located approximately 250 feet downstream of the Lyman Street Bridge (Figures 1 and 2). Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Rechannelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and the United States Army Corps of Engineers (USACE) separated several of these oxbows and low-lying areas from the active course of the river. These oxbows and low-lying areas were subsequently filled with various materials from a variety of sources, resulting in the current surface elevations and topography.

Former Oxbow Area A encompasses an area of approximately 5 acres. This area consists of a large open field on the south side of the river, north of Elm Street and Newell Street. The majority of this generally flat area is undeveloped and covered with grass and low brush. Commercial businesses occupy a portion of an area along Elm Street to the south of the former oxbow. Specifically, a gas station, laundromat, and car wash are located at the southwestern portion of the former oxbow area. Portions of Former Oxbow Area A were previously investigated through the installations of well points near the edge of the Housatonic River in 1988, and through soil and groundwater investigations conducted by GE in the early 1990s.

Former Oxbow Area C encompasses an undeveloped area of approximately 2 acres on the south side of the Housatonic River, near the northwest end of Day Street. This generally flat area is undeveloped and covered with grass and low brush. The southeastern side of the area is bordered by residential properties along Day Street and Ashley Street. Like Former Oxbow Area A, Former Oxbow Area C was previously investigated through the installation of well points in 1988 and a soil and groundwater investigation performed in the early 1990s.

As set forth in the GMA 5 Baseline Monitoring Proposal Addendum, the baseline monitoring program for this GMA involves a total of 10 monitoring wells (including two existing wells and eight new wells). All of these wells are monitored for groundwater elevations on a quarterly basis, while the eight new wells are sampled on a semi-annual basis for certain groundwater quality parameters. As discussed further in Section 2, the eight new

monitoring wells were installed between October 2001 and January 2002 as part of initial GMA 5 baseline activities. The 10 monitoring wells in the program were monitored in January and April 2002 to determine groundwater elevation and general flow direction. In addition, groundwater elevations were also measured at a third existing well at GMA 5 to provide additional groundwater elevation data. The eight new wells were sampled in April and May 2002 and analyzed for PCBs and certain groups of non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). Finally, hydraulic conductivity testing was performed at the 10 wells included in the baseline monitoring program. Although the CD and SOW address NAPL, the occurrence of NAPL has not been found within GMA 5; however, monitoring for any presence of NAPL in groundwater is performed as part of the baseline monitoring program.

1.3 Format of Document

The remainder of this report is presented in five sections. Section 2 describes the groundwater-related activities performed at GMA 5 in spring 2002. Section 3 presents the analytical results obtained during the spring 2002 sampling event performed in April and May 2002. Section 4 provides a summary of the applicable groundwater quality Performance Standards identified in the CD and SOW and provides an assessment of the results of the spring 2002 activities, including a comparison to those Performance Standards. Section 5 addresses modifications to the current baseline groundwater quality monitoring program Finally, Section 6 presents the schedule for future field and reporting activities related to groundwater quality at GMA 5.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the baseline groundwater monitoring program, and summarized herein, primarily involved well installations, groundwater-level measurements, and groundwater sampling and analysis at several locations within GMA 5. Field procedures used to collect and analyze groundwater samples, and to measure site groundwater levels on two occasions, are discussed in this section. In addition, information regarding well installation, development, and hydraulic conductivity (slug) testing at certain of the wells at GMA 5 are provided in this section. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

2.2 Well Installation and Hydrogeologic Activities

The GMA 5 Baseline Monitoring Proposal Addendum called for the use of three existing wells (A-3, C-1, and C-2) and installation of seven monitoring new wells (GMA5-1 through GMA5-7) at this area. However, based on an initial inspection of the integrity of existing monitoring wells and a reconnaissance of planned drilling locations, several modifications were determined to be necessary. These modifications were described in a baseline monitoring activities status letter from GE to EPA dated November 21, 2001. As described therein, and approved by Weston (EPA's oversight contractor), the location for monitoring well GMA5-1 was moved approximately 50 feet north of an existing building at the southwest area at GMA 5 based on concerns expressed by the property owner regarding underground utilities. In addition, existing monitoring well A-3 (flush-mount) could not be located, so GE noted that it would install a replacement well (GMA5-8) in the general location of A-3, as depicted in the Addendum. Also, GE made several attempts to install monitoring wells GMA5-3 and GMA5-7 at the planned locations on the northwest area at GMA 5; however, at each location, the drilling equipment encountered refusal due to subsurface concrete and other debris. Therefore, these wells were installed during January 2002 using a larger drill rig.

The eight new monitoring wells were installed and developed between October 30, 2001 and January 29, 2002. Redevelopment of existing monitoring wells C-1 and C-2 was also performed. The locations of the eight new wells (GMA5-1 through GMA5-8) are shown on Figure 2, along with the locations of the three existing wells at this GMA (A-1, C-1, and C-2). Each of these wells, with the exception of well A-1, is included in the baseline monitoring program. Groundwater sampling is performed at the eight new monitoring wells (GMA5-1 through

GMA5-8) on a semi-annual basis, and groundwater-level monitoring is performed quarterly at these eight wells and two existing wells (C-1 and C-2). Groundwater levels also were measured at existing well A-1 in January and April 2002 to provide additional groundwater elevation data. Table 1 shows the survey data and well construction details for the eight new wells, together with the survey data and available well construction details for the three existing wells. Well logs for the new wells are presented in Appendix A.

Groundwater elevation monitoring activities were performed in January and April 2002. These activities included collecting groundwater level data at the eight new wells and three existing wells. These monitoring data are presented in Table 2. The January and April 2002 groundwater elevation data were used to prepare groundwater elevation contour maps (Figures 3 and 4, respectively). As shown on these figures, the interpreted groundwater flow direction is generally toward the Housatonic River and the hydraulic gradient is fairly consistent across Former Oxbow Areas A and C, with the horizontal component decreasing towards the Housatonic River.

The first semi-annual groundwater sampling event for GMA 5 was performed on April 15-17, 2002. Field sampling data associated with these activities are presented in Appendix B, while the results are described in several tables and within the remainder of this document.

Hydraulic conductivity testing was performed on July 15, 16, and 19, 2002, at the eight new wells and three existing wells at GMA 5. The observed hydraulic conductivities ranged from 7.017E-04 centimeters per second (cm/sec) at well GMA5-7 to 9.177E-02 cm/sec at well GMA5-6. The results of this testing are summarized in Table 3 and plots of the data for each well tested are provided in Appendix C.

2.3 Turbidity Assessment

Prior to the spring 2002 sampling event at GMA 5, GE conducted an assessment of various sampling equipment to identify possible techniques to reduce the turbidity of the collected groundwater samples. This assessment was performed for several wells located within the Plant Site 1 GMA (GMA 1) as part of the fall 2001 sampling event. These approaches included the following:

- Field testing of potential modifications to GE's standard low-flow sampling equipment;
- Alternate methods to collect low turbidity samples from small diameter wells and slow recharging wells;
- Procedures to verify that accurate turbidity data are obtained; and
- Additional development or purging of high turbidity wells.

Based on the results of this assessment, it was determined that collection of all samples using a bladder pump produced the lowest turbidity at small diameter (2-inch) wells, such as those at GMA 5. However, peristaltic and submersible pumps also produced acceptable results. In addition, the results indicated that use of a hand-held nephelometer following discharge through the flow-through cell provided the most reliable measurement or turbidity levels. Accordingly, the hand-held nephelometer will be incorporated into subsequent sampling rounds. Additionally, the bladder pumps will be increasingly phased into future sampling, but submersible and peristaltic pumps will also continue to be utilized, particularly if acceptable turbidity results are obtained.

2.4 Groundwater Sampling and Analysis

Groundwater samples were collected from seven groundwater monitoring wells in April 2002. A groundwater sample was collected from the eighth monitoring well (MW5-4) in early May 2002 after an obstruction (survey stake) was removed from the well screen. Low-flow sampling techniques using either a bladder, submersible, or peristaltic pump (with a bailer for VOC samples) were utilized for the purging of the wells and collection of groundwater samples during this sampling event. Each monitoring well was purged utilizing low-flow sampling techniques until field parameters stabilized (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) or the well was pumped dry prior to sample collection. Field parameters were measured in combination with the sampling activities at each monitoring well. A summary of the field parameter data is presented in Table 4 and the field sampling data are presented in Appendix A. A general summary of the field measurement results during the spring 2002 monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units	4.0 – 30.0
pH	pH units	6.59 – 8.22
Specific Conductivity	Millisiemens per centimeter	0.503 – 2.65
Oxidation-Reduction Potential	Millivolts	-180.0 – -17.0
Dissolved Oxygen	Milligrams per liter	0.0 – 3.0
Temperature	Degrees Celsius	8.90 – 12.7

Groundwater samples were submitted to CT&E Environmental Services, Inc. (CT&E) of Charleston, West Virginia for laboratory analysis. Since all eight wells are identified as GW-3 wells (as discussed in Section 4),

the samples from these wells were submitted for analysis of the following constituents using the associated EPA methods:

PARAMETER	USEPA METHOD
VOCs	8260B
Semi-Volatile Organic Compounds (SVOCs)	8270C
Filtered and Unfiltered PCBs	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Pesticides and Herbicides	8080 and 8151
Filtered and Unfiltered Metals	6010B, 7000A, and 7470A
Cyanide	9014
Sulfide	9034

The results of all of these analyses are discussed in Section 3.

3. Groundwater Analytical Results

3.1 General

A description of the spring 2002 groundwater analytical results is presented in this section. These data were validated in accordance with the FSP/QAPP. The full, validated set for spring 2002 is provided in Table 5 and the data validation report for these results is presented in Appendix D.

Prior to validation, the preliminary analytical data from the laboratory were presented in the monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site. In addition, the results were compared to the Method 1 GW-2 and GW-3 standards set forth in the Massachusetts Contingency Plan (MCP) and to the MCP Upper Concentration Limits (UCLs) for groundwater. Tables 6 and 7 provide a comparison of the concentrations of all detected constituents with the groundwater quality Performance Standards established in the CD and SOW, while Table 8 presents a comparison of the concentrations of detected constituents with the UCLs. A general discussion of the recent GMA 5 results relative to the groundwater quality Performance Standards and UCLs is provided in Section 4.

3.2 VOC Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for VOCs during the spring 2002 sampling event. The validated VOC analytical results are summarized in Table 5. VOCs were not detected in five of the groundwater samples. Low levels of tetrachloroethene were detected in the three remaining samples analyzed (GMA5-2, GMA5-3, and GMA5-7). Tetrachloroethene was the only VOC detected in these samples. Total VOC concentrations ranged from non-detect (in five samples) to 0.018 parts per million (ppm).

3.3 SVOC Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for SVOCs during the spring 2002 sampling event. The validated SVOC analytical results are summarized in Table 5. No SVOCs were detected in any of the samples.

3.4 PCB Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for unfiltered and filtered PCBs as part of the spring 2002 sampling event. The validated PCB analytical results are summarized in Table 5. For the unfiltered analysis, PCBs were detected in seven of the groundwater samples, with a maximum PCB concentration of 0.000165 ppm. For the filtered samples, PCBs were not detected in four of the eight samples, while the maximum PCB concentration among the remaining four samples was 0.000084 ppm.

3.5 Pesticide/Herbicide Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for pesticides and herbicides during the spring 2002 sampling event. The validated analytical results are summarized in Table 5. No pesticides or herbicides were detected in any of the eight groundwater samples.

3.6 PCDD/PCDF Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for PCDDs/PCDFs during the spring 2002 sampling event. The validated analytical results are summarized in Table 5. One or more PCDD/PCDF compounds were observed in each groundwater sample. In addition, total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half the analytical detection limit for those compounds. Total TEQs ranged from 1.5×10^{-9} to 2.4×10^{-8} ppm.

3.7 Inorganic Results

Groundwater samples from the eight groundwater quality monitoring wells were analyzed for filtered and unfiltered inorganics during the spring 2002 sampling event. The validated analytical results for these samples are summarized in Table 5. Zinc was the only inorganic constituent detected in the filtered samples (it was detected in six such samples), while up to six inorganic constituents were detected in one or more of the eight unfiltered samples. The most commonly observed inorganic constituents in the unfiltered samples were cyanide (filtered samples were not collected for this constituent) and zinc.

3.8 Adjacent MCP Disposal Site

A separate disposal site, as designated under the MCP, is located on adjacent property near the southwestern corner of GMA 5. This disposal site is the Elm Street Mobil Station site (MDEP Site No. 1-0539, Tier 1B Permit No. 78741), currently being addressed by ExxonMobil pursuant to the MCP under an Administrative Consent Order with MDEP. Available documentation indicates that light NAPL and soluble-phase contaminants related to releases from the Mobil Station could potentially migrate to the southwestern portion of GMA 5.

The Addendum to the GMA 5 Baseline Monitoring Proposal requires that GE include available monitoring results from response actions performed by ExxonMobil in the baseline monitoring reports for GMA 5. The monitoring results available to date were obtained during file reviews conducted at the MDEP Western Regional Office in Springfield, MA on September 12, 2001 and July 24, 2002. Summary tables of monitoring results for the Elm Street Mobil Site are included in Appendix E. These monitoring results were obtained from the following documents:

- *Phase II Comprehensive Site Investigation Addendum and Risk Characterization* (GES, May 2001); and
- *Phase IV – Remedy Implementation Plan* (GES, October 2001).

Subsequent baseline monitoring reports will provide only monitoring data that become available since the last baseline report.

4. Assessment of Results

4.1 General

Since the spring 2002 monitoring event constitutes the initial sampling event in the GMA 5 baseline monitoring program, the data available at this time do not support any meaningful spatial or temporal assessment of trends in constituent concentrations. Results from subsequent semi-annual baseline sampling events will be used to identify if trends exist or if program modifications are warranted.

4.2 Groundwater Quality Performance Standards

This section describes the Performance Standards that are applicable to response actions for groundwater at GMA 5. Those Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the MCP. The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 5 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, volatile constituents present within GW-2 groundwater represent a potential source of organic vapors to the indoor air of the overlying occupied structures.

- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to ultimately discharge to surface water. In accordance with the CD and SOW, all groundwater at GMA 5 is considered as GW-3.

The CD and SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and GW-3 groundwater. These "default" standards have been developed to be conservative and will serve as the

initial basis for evaluating groundwater at GMA 5. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the spring 2002 sampling event are listed in Tables 6 and 7, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2 standards, for developing such standards for both GW-2 and GW-3 groundwater. For such constituents detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 5 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following:

   (a) The Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards);

   (b) Alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied buildings; or

   (c) A condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.

2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards:

   (a) The Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or

   (b) Alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been selected as the potential compliance points for attainment of the Performance Standards identified above. These wells were initially identified in the GMA 5 Baseline Monitoring Proposal Addendum and are described further in Sections 4.3.1 (for the GW-2 wells) and 4.3.2 (for the GW-3 wells).

4.3 Groundwater Quality

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the spring 2002 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 5. These Performance Standards are described in Section 4.2 above and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the spring 2002 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP UCLs for groundwater.

4.3.1 Groundwater Results Relative to GW-2 Performance Standards

Three monitoring wells at this GMA have been initially designated as GW-2 wells and will be compliance points for the GW-2 standards. These are wells GMA5-1, GMA5-3, and GMA5-7. The results for these wells from the spring 2002 sampling event and a comparison of those results with the applicable MCP Method 1 GW-2 standards are presented in Table 6. As shown in that table, none of the spring 2002 sample concentrations from the GW-2 monitoring wells were above the GW-2 Performance Standards. In addition, none of the GW-2

wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells and as a trigger level for the proposal of interim response actions).

4.3.2 Groundwater Results Relative to GW-3 Performance Standards

All eight of the monitoring wells at this GMA subject to sampling have been designated as GW-3 wells. The spring 2002 groundwater analytical results for all detected constituents from these eight wells and a comparison of those results with MCP Method 1 GW-3 standards are presented in Table 7. Although that table provides a comparison of the spring 2002 analytical results from all eight of these monitoring wells with the GW-3 standards, only the five downgradient GW-3 perimeter wells have been designated as future compliance points for the GW-3 standards. These wells are GMA5-3, GMA5-4, GMA5-5, GMA5-6, and GMA5-7.

In comparing the baseline monitoring results to the Method 1 GW-3 standards for PCBs and all inorganics (except cyanide), GE has used the results from the filtered samples. EPA has previously agreed to this approach in a letter to GE dated January 2, 2002 (relating to groundwater monitoring for GE's On-Plant Consolidation Areas). Accordingly, the unfiltered sample results were only utilized for comparison to the MCP UCLs.

The comparisons set forth in Table 7 show that for the spring 2002 sampling round, the only constituent detected at levels above its MCP Method 1 GW-3 standard was cyanide. Cyanide was detected in an unfiltered groundwater sample from well GMA5-8 at a level (0.011 ppm) just above its GW-3 standard (0.01 ppm). Well GMA5-8 is a general/source area sentinel well.

The SOW requires that interim response actions (which may include further assessment activities) must be proposed for baseline sampling results which exceed the Method 1 GW-3 standards at downgradient perimeter monitoring wells when: (a) such an exceedence had not previously been detected, or (b) there was a previous exceedence of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedence was not previously addressed). In the spring 2002 sampling round for GMA 5, there were no exceedences of the Method 1 GW-3 standards at any of the downgradient perimeter wells. As mentioned above, one well (GMA5-8) did contain cyanide in an unfiltered sample at a level very slightly above the Method 1 GW-3 standard, but that well is not a downgradient perimeter well. In any event, as discussed further in Section 5.3, as baseline monitoring activities proceed at GMA 5, GE is planning to collect and analyze filtered (as well as unfiltered) samples for cyanide to assess the presence of soluble cyanide in groundwater at this GMA.

4.3.3 Comparison to Upper Concentration Limits

The spring 2002 groundwater analytical results have also been compared with the groundwater UCLs specified in the MCP. These comparisons are presented in Table 8. As shown in that table, none of the detected constituents exceeded their respective UCL.

5. Program Modifications

5.1 General

Based on a review of data collected during the initial round of the baseline program, no significant modifications to the baseline monitoring program for GMA 5 have been identified at this time. A few minor modifications are addressed below.

5.2 Low-Flow Sampling Procedures

In accordance with the FSP/QAPP, groundwater samples were collected at this GMA using low-flow methods. Groundwater sample turbidities measured during the spring 2002 sampling event were well below the FSP/QAPP goal of 50 NTU in the eight monitoring wells sampled. GE will continue to use low-flow sampling procedures as its preferred method to collect water samples for laboratory analysis during future sampling events. Bailers may still be utilized at certain wells if the quantity of water available is insufficient to utilize a low-flow pumping system. However, bailers will no longer be used to collect VOC samples from wells purged with a peristaltic pump. Rather, all samples will be collected via the same pump used during purging.

5.3 Cyanide

To date, only unfiltered samples have been analyzed for cyanide. As discussed in Section 4.3.2, the analytical result for cyanide in the unfiltered sample from well GMA5-8 was slightly above the Method 1 GW-3 standard. As part of future baseline monitoring activities, in addition to performing analyses of unfiltered samples for cyanide, GE will collect and analyze filtered samples for cyanide in order to assess the presence of soluble cyanide in the groundwater. Collection of unfiltered and filtered samples for cyanide is consistent with the approach used for the other inorganic and PCB analyses.

6. Schedule of Future Activities

6.1 General

This section addresses the schedule for future baseline groundwater monitoring activities and reporting for GMA 5, focusing in particular on the fall 2002 monitoring event.

6.2 Field Activities Schedule

GE will continue its routine quarterly water level monitoring program to assess groundwater at GMA 5. The summer 2002 round of groundwater-level measurements will be conducted in July 2002. For that and future groundwater elevation monitoring, well A-1 will no longer be monitored because that well is not part of the baseline program. The results of the summer 2002 round of measurements will be reported in the upcoming Fall 2002 GMA 5 Groundwater Quality Interim Report.

In accordance with the approved semi-annual monitoring schedule, GE anticipates that the fall 2002 sampling event will take place in October 2002. Other than the collection and analysis of filtered samples for cyanide, no changes in the analytical program are proposed at this time. Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

6.3 Reporting Schedule

GE will submit the Fall 2002 Baseline Groundwater Quality Interim Report for GMA 5 by January 31, 2003, in accordance with the previously approved reporting schedule. GE will also continue to provide the results of the quarterly water level measurements and NAPL monitoring efforts in the appropriate monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

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TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A & C GROUNDWATER MANAGEMENT AREA
MONITORING WELL CONSTRUCTION SUMMARY

Well Number	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (feet AMSL)	Measuring Point Elevation (feet AMSL)	Depth to Top of Screen (feet BGS)	Screen Length (feet)	Top of Screen Elevation (feet AMSL)	Base of Screen Elevation (feet AMSL)
	Northing	Easting							
GMA5-1	531464.50	130012.30	2.00	985.01	984.59	5.72	10.00	979.29	969.29
GMA5-2	531952.60	130739.20	2.00	982.86	982.66	5.91	15.00	976.95	961.95
GMA5-3	531419.00	139738.70	2.00	989.57	989.14	10.00	15.00	979.57	964.57
GMA5-4	531811.30	129982.60	2.00	979.29	979.10	8.09	10.00	971.20	961.20
GMA5-5	532121.00	130300.10	2.00	982.85	982.64	6.77	15.00	976.08	961.08
GMA5-6	532163.50	130589.60	2.00	979.52	979.23	5.42	10.00	974.10	964.10
GMA5-7	531507.50	129845.00	2.00	987.21	986.75	8.00	20.00	979.21	959.21
GMA5-8	531711.70	130216.90	2.00	984.95	984.69	8.00	10.00	976.95	966.95
A-1	531682.00	129964.40	4.00	984.48	984.17	9.00	15.00	975.48	960.48
C-1	532041.40	130500.60	4.00	988.20	987.82	9.00	15.00	979.20	964.20
C-2	532120.30	130646.80	4.00	979.17	979.25	3.00	15.00	976.17	961.17

NOTES:

1. The listed wells were utilized during fall 2001 for baseline groundwater quality sampling or hydraulic conductivity testing.
2. feet AMSL: Feet above mean sea level
3. feet BGS: Feet below ground surface

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A & C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - JANUARY & APRIL 2002

Well Number	Measuring Point Elevation (feet AMSL)	Date Measured	Depth to Water (feet BMP)	Groundwater Elevation (feet AMSL)
GMA5-1	984.59	1/15/2002	10.05	974.54
		4/11/2002	9.10	975.49
GMA5-2	982.66	1/15/2002	10.92	971.74
		4/11/2002	9.73	972.93
GMA5-3	989.14	1/15/2002	17.78	971.36
		4/11/2002	16.72	972.42
GMA5-4	979.10	1/15/2002	8.30	970.80
		4/11/2002	NA*	NA*
GMA5-5	982.64	1/15/2002	11.69	970.95
		4/11/2002	10.57	972.07
GMA5-6	979.23	1/15/2002	8.35	970.88
		4/11/2002	7.20	972.03
GMA5-7	986.75	1/15/2002	15.92	970.83
		4/11/2002	13.99	972.76
GMA5-8	984.69	1/15/2002	13.24	971.45
		4/11/2002	12.14	972.55
A-1	984.17	1/15/2002	12.66	971.51
		4/11/2002	11.08	973.09
C-1	987.82	1/15/2002	16.66	971.16
		4/11/2002	15.57	972.25
C-2	979.17	1/29/2002	7.84	971.33
		4/11/2002	6.30	972.87

Notes:

1. feet AMSL - feet above mean sea level
2. feet BMP - feet below measuring point
3. NA* - Indicates well was damaged and unable to be measured.

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A & C GROUNDWATER MANAGEMENT AREA
HYDRAULIC CONDUCTIVITY RESULTS

Well Number	Date Measured	Hydraulic Conductivity		
		(cm/sec)	(ft/min)	(ft/day)
GMA5-1	7/16/2002	5.852E-03	1.152E-02	16.59
GMA5-2	7/16/2002	2.055E-02	4.045E-02	58.25
GMA5-3	7/15/2002	3.363E-03	6.620E-03	9.53
GMA5-4	7/19/2002	2.237E-02	4.404E-02	63.41
GMA5-5	7/16/2002	1.455E-02	2.864E-02	41.24
GMA5-6	7/15/2002	9.177E-02	1.806E-01	260.13
GMA5-7	7/15/2002	7.017E-04	1.381E-03	1.99
GMA5-8	7/19/2002	1.143E-03	2.250E-03	3.24
A-1	7/19/2002	1.613E-03	3.175E-03	4.57
C-1	7/19/2002	3.106E-02	6.114E-02	88.04
C-2	7/19/2002	1.202E-03	2.366E-03	3.41

Notes

1. Hydraulic conductivities were determined by applying the Bouwer-Rice solution for unconfined aquifers using AQTESOLV software.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS A & C GROUNDWATER MANAGEMENT AREA
FIELD PARAMETER MEASUREMENTS - APRIL 2002

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
GMA5-1	4.0	9.18	7.45	2.650	-158	0.00
GMA5-2	9.0	11.84	6.72	1.000	-17	2.44
GMA5-3	11.0	12.70	7.20	0.935	-97	0.80
GMA5-4	5.0	8.90	6.72	0.890	-25	1.55
GMA5-5	29.0	12.23	6.59	0.736	-86	3.00
GMA 5-6	4.0	11.28	6.65	1.320	-64	2.32
GMA5-7	30.0	12.00	8.22	0.503	-75	0.90
GMA5-8	10.0	10.30	7.28	0.590	-180	0.00

Notes:

1. Measurements collected during spring 2002 groundwater sampling event performed between April 12 and 16, 2002.
2. Well parameters were monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
3. NTU - Nephelometric Turbidity Units
4. mS/cm - Millisiemens per centimeter
5. mV - Millivolts
6. mg/L - Milligrams per liter (ppm)
7. NM - Not Measured

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J [ND(0.20) J]	ND(0.20) J	ND(0.20)
2-Butanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050)
2-Hexanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
Acetonitrile	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10)
Acrolein	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10)
Acrylonitrile	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050)
Benzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Hexachlorobutadiene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10)
Methacrylonitrile	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
Styrene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	0.0025 [0.0024]	0.012	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050) J	ND(0.0050) [ND(0.0050)]	ND(0.0050) J	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	0.0025 [0.0024]	0.012	ND(0.20)
PCBs-Unfiltered				
Aroclor-1016	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Aroclor-1254	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J
Aroclor-1260	ND(0.000065)	ND(0.000065 J) [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Total PCBs	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
PCBs-Filtered				
Aroclor-1016	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1254	0.000084	ND(0.000065) [ND(0.000065)]	0.000056 J	ND(0.000065)
Aroclor-1260	ND(0.000065)	ND(0.000065) [0.000050 J]	ND(0.000065)	ND(0.000065)
Total PCBs	0.000084	ND(0.000065) [0.000050 J]	0.000056 J	ND(0.000065)
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010) J	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010)
1,4-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,3,4,6-Tetrachlorophenol	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010) J	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010)
2-Acetylaminofluorene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
2-Nitrophenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3&4-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
3,3'-Dimethylbenzidine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3-Methylcholanthrene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050) J	ND(0.050) [ND(0.050)]	ND(0.050) J	ND(0.050)
4-Aminobiphenyl	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
4-Chlorobenzilate	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
4-Chlorophenyl-phenylether	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
4-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
4-Nitrophenol	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
4-Nitroquinoline-1-oxide	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
4-Phenylenediamine	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
5-Nitro-o-toluidine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Acenaphthylene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Acetophenone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Aniline	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Aramite	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
Benzidine	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
Benzo(a)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Semivolatile Organics (continued)				
Benzo(g,h,i)perylene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.0060) [ND(0.0060)]	ND(0.0060)	ND(0.0060)
Butylbenzylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dimethoate	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Dimethylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Disulfoton	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Ethyl Parathion	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Famphur	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Fluorene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Hexachloroethane	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.020)	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)
Hexachloropropene	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
Indeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Kepone	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Methapyrilene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Methyl Methanesulfonate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Methyl Parathion	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)
Phenacetin	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Phenanthrene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Phenol	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Phorate	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pronamide	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Safrole	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Sulfotep	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)
Thionazin	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Organochlorine Pesticides				
4,4'-DDD	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
4,4'-DDE	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
4,4'-DDT	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Aldrin	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Alpha-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Alpha-Chlordane	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Beta-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Delta-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Dieldrin	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endosulfan I	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endosulfan II	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endosulfan Sulfate	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endrin	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endrin Aldehyde	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Endrin Ketone	ND(0.00010)	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)
Gamma-BHC (Lindane)	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Gamma-Chlordane	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Heptachlor	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Heptachlor Epoxide	ND(0.000050)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)
Methoxychlor	ND(0.00050)	ND(0.00050) [ND(0.00050)]	ND(0.00050)	ND(0.00050)
Technical Chlordane	ND(0.00050)	ND(0.00050) [ND(0.00050)]	ND(0.00050)	ND(0.00050)
Toxaphene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Herbicides				
2,4,5-T	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)
2,4,5-TP	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)
2,4-D	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dinoseb	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Furans				
2,3,7,8-TCDF	ND(0.000000011)	0.0000000014 J [ND(0.0000000021)]	ND(0.00000000070)	ND(0.0000000011)
TCDFs (total)	ND(0.000000011)	0.0000000014 [ND(0.0000000021)]	ND(0.0000000020) X	ND(0.0000000011)
1,2,3,7,8-PeCDF	ND(0.000000013)	0.0000000038 JB [ND(0.0000000025)]	ND(0.00000000080)	ND(0.0000000025)
2,3,4,7,8-PeCDF	ND(0.000000012)	0.0000000035 J [ND(0.0000000023)]	ND(0.00000000070)	ND(0.0000000025)
PeCDFs (total)	ND(0.000000012)	0.0000000074 [ND(0.0000000024)]	ND(0.00000000070)	ND(0.0000000025)
1,2,3,4,7,8-HxCDF	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000096) X	ND(0.0000000025)
1,2,3,6,7,8-HxCDF	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000080)	ND(0.0000000025)
1,2,3,7,8,9-HxCDF	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000020)]	ND(0.00000000090)	ND(0.0000000025)
2,3,4,6,7,8-HxCDF	ND(0.000000010)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.00000000080)	ND(0.0000000025)
HxCDFs (total)	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.0000000018) X	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDF	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000021)]	ND(0.0000000011)	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000026)]	ND(0.0000000014)	ND(0.0000000025)
HpCDFs (total)	ND(0.000000015)	ND(0.00000000080) [ND(0.0000000023)]	ND(0.0000000012)	ND(0.0000000025)
OCDF	ND(0.000000032)	0.0000000069 J [ND(0.0000000086)]	ND(0.0000000025) X	ND(0.0000000050)
Dioxins				
2,3,7,8-TCDD	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000029)]	ND(0.00000000090)	ND(0.0000000018)
TCDDs (total)	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000032) X]	ND(0.00000000090)	ND(0.0000000018)
1,2,3,7,8-PeCDD	ND(0.000000014)	0.0000000031 J [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
PeCDDs (total)	ND(0.000000014)	0.0000000031 [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
1,2,3,4,7,8-HxCDD	ND(0.000000017)	0.0000000038 J [ND(0.0000000024)]	ND(0.0000000012)	ND(0.0000000025)
1,2,3,6,7,8-HxCDD	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000024)]	ND(0.0000000013)	ND(0.0000000025)
1,2,3,7,8,9-HxCDD	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000027)]	ND(0.0000000012)	ND(0.0000000025)
HxCDDs (total)	ND(0.000000017)	0.0000000038 [ND(0.0000000025)]	ND(0.0000000012)	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDD	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
HpCDDs (total)	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
OCDD	ND(0.000000039)	0.000000010 J [ND(0.000000011)]	ND(0.0000000084)	0.0000000097 J
Total TEQ (WHO TEFs)	0.000000024	0.0000000063 [0.0000000045]	0.0000000015	0.0000000038

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)
Arsenic	0.0110	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Barium	ND(0.200)	ND(0.200) [ND(0.200)]	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Chromium	0.00430 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Cobalt	0.00360 B	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Copper	ND(0.0250)	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
Cyanide	0.00520 B	0.00390 B [0.00290 B]	0.00990 B	0.00380 B
Lead	0.0130	ND(0.00300) J [ND (0.00300) J]	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Sulfide	ND(5.00)	ND(5.00) [ND(5.00)]	ND(5.00)	ND(5.00)
Thallium	ND(0.0100)	ND(0.0100) J [ND (0.0100) J]	ND(0.0100)	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	0.0170 B	0.0110 B [0.00780 B]	ND(0.0200)	0.0110 B
Inorganics-Filtered				
Antimony	ND(0.0600)	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.100)	ND(0.100) [ND(0.100)]	ND(0.100)	ND(0.100)
Barium	ND(0.200)	ND(0.200) [ND(0.200)]	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Chromium	ND(0.0250)	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
Cobalt	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Copper	ND(0.100)	ND(0.100) [ND(0.100)]	ND(0.100)	ND(0.100)
Lead	ND(0.00300)	ND(0.00300) J [ND (0.00300) J]	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Thallium	ND(0.0100)	ND(0.0100) J [ND (0.0100) J]	ND(0.0100)	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	0.00580 B	ND(0.0200) [0.0180 B]	0.0130 B	0.0120 B

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Hexachlorobutadiene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0020)	0.018	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	ND(0.20)	0.018	ND(0.20)
PCBs-Unfiltered				
Aroclor-1016	ND(0.000065) J	ND(0.000065) J	ND(0.00025) J	ND(0.000065) J
Aroclor-1221	ND(0.000065) J	ND(0.000065) J	ND(0.00025) J	ND(0.000065) J
Aroclor-1232	ND(0.000065) J	ND(0.000065) J	ND(0.00025) J	ND(0.000065) J
Aroclor-1242	ND(0.000065) J	ND(0.000065) J	ND(0.00025) J	ND(0.000065) J
Aroclor-1248	ND(0.000065) J	ND(0.000065) J	ND(0.00025) J	ND(0.000065) J
Aroclor-1254	ND(0.000065) J	0.000067 J	0.000062 J	0.000075 J
Aroclor-1260	ND(0.000065) J	ND(0.000065) J	0.000031 J	0.000090 J
Total PCBs	ND(0.000065) J	0.000067 J	0.000093 J	0.000165 J

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
PCBs-Filtered				
Aroclor-1016	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Aroclor-1260	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,3,4,6-Tetrachlorophenol	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
2,4,5-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Acetylaminofluorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Nitrophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3&4-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
3,3'-Dimethylbenzidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Methylcholanthrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Aminobiphenyl	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorobenzilate	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
4-Chlorophenyl-phenylether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitrophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroquinoline-1-oxide	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010)
4-Phenylenediamine	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
5-Nitro-o-toluidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetophenone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aniline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aramite	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Benzidine	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Benzo(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Semivolatile Organics (continued)				
Benzo(g,h,i)perylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)
Butylbenzylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethoate	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Disulfoton	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethyl Parathion	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Famphur	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) J
Hexachloropropene	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Indeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Kepone	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Methapyrilene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) J
Methyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Parathion	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Pentachlorophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenacetin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phorate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pronamide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Safrole	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sulfotep	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010)
Thionazin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Organochlorine Pesticides				
4,4'-DDD	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
4,4'-DDE	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
4,4'-DDT	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aldrin	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Alpha-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Alpha-Chlordane	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Beta-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Delta-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Dieldrin	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan I	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan II	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan Sulfate	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin Aldehyde	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin Ketone	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Gamma-BHC (Lindane)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Gamma-Chlordane	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Heptachlor	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Heptachlor Epoxide	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Methoxychlor	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)
Technical Chlordane	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)
Toxaphene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Herbicides				
2,4,5-T	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
2,4,5-TP	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
2,4-D	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dinoseb	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Furans				
2,3,7,8-TCDF	0.0000000044 J	ND(0.0000000033) J	ND(0.0000000031)	ND(0.00000000070)
TCDFs (total)	0.0000000044 J	ND(0.000000026) XJ	0.0000000079	ND(0.000000014) X
1,2,3,7,8-PeCDF	ND(0.0000000023) J	ND(0.0000000064) XJ	ND(0.0000000061)	ND(0.00000000090)
2,3,4,7,8-PeCDF	0.0000000078 J	ND(0.0000000035) J	0.0000000073 J	ND(0.0000000030) X
PeCDFs (total)	ND(0.0000000078)	ND(0.0000000064) XJ	ND(0.000000013)	ND(0.000000016) X
1,2,3,4,7,8-HxCDF	ND(0.0000000053) XJ	ND(0.0000000049) X	ND(0.0000000065)	0.0000000048 JB
1,2,3,6,7,8-HxCDF	ND(0.0000000048) XJ	0.0000000047 J	ND(0.0000000057) X	ND(0.0000000031) X
1,2,3,7,8,9-HxCDF	ND(0.0000000037) XJ	0.0000000073 JB	0.0000000072 JB	ND(0.0000000040) X
2,3,4,6,7,8-HxCDF	0.0000000043 J	0.0000000030 J	0.0000000058 J	0.0000000029 J
HxCDFs (total)	ND(0.0000000043)	ND(0.000000015)	ND(0.000000020)	ND(0.000000015) X
1,2,3,4,6,7,8-HpCDF	0.0000000067 J	0.0000000072 J	0.0000000069 J	ND(0.0000000051) X
1,2,3,4,7,8,9-HpCDF	0.0000000062 J	ND(0.0000000039)	0.0000000034 J	ND(0.0000000014)
HpCDFs (total)	0.000000013	0.0000000072	0.000000010	0.0000000047
OCDF	0.000000013 J	ND(0.000000014) X	0.000000026 J	ND(0.0000000068) X
Dioxins				
2,3,7,8-TCDD	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011)
TCDDs (total)	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011) X
1,2,3,7,8-PeCDD	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038 J
PeCDDs (total)	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038
1,2,3,4,7,8-HxCDD	0.0000000050 J	ND(0.0000000034)	0.0000000061 J	0.0000000035 J
1,2,3,6,7,8-HxCDD	ND(0.0000000045) XJ	ND(0.0000000034)	0.0000000054 J	ND(0.0000000013)
1,2,3,7,8,9-HxCDD	0.0000000047 J	ND(0.0000000039)	ND(0.0000000040)	ND(0.0000000013)
HxCDDs (total)	0.0000000097 J	ND(0.0000000035)	0.000000012	0.0000000035
1,2,3,4,6,7,8-HpCDD	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069 J	0.0000000047 J
HpCDDs (total)	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069	0.0000000047
OCDD	0.000000022 J	0.000000022 J	ND(0.000000022) X	ND(0.000000032) X
Total TEQ (WHO TEFs)	0.0000000093	0.0000000078	0.000000012	0.0000000068

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide	ND(0.0100)	0.00620 B	0.00490 B	0.0110
Lead	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Sulfide	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Thallium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.00760 B	0.0110 B	0.0420	ND(0.0200)
Inorganics-Filtered				
Antimony	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Chromium	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cobalt	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Lead	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Thallium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	ND(0.0200)	0.0110 B	ND(0.0200)	0.00790 B

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

J - Indicates that the associated numerical value is an estimated concentration.

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	GMA5-1 04/12/02	GMA5-3 04/12/02	GMA5-7 04/16/02
Volatile Organics				
Tetrachloroethene	3	ND(0.0020)	0.012	0.018
Total VOCs	5	ND(0.20)	0.012	0.018
PCBs-Unfiltered				
Aroclor-1254	Not Listed	0.000045 J	0.000042 J	0.000062 J
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	0.000031 J
Total PCBs	Not Listed	0.000045 J	0.000042 J	0.000093 J
PCBs-Filtered				
Aroclor-1254	Not Listed	0.000084	0.000056 J	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	Not Listed	0.000084	0.000056 J	ND(0.000065)
Semivolatile Organics				
None Detected	--	--	--	--
Organochlorine Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.000000011)	ND(0.00000000070)	ND(0.0000000031)
TCDFs (total)	Not Listed	ND(0.000000011)	ND(0.0000000020) X	0.0000000079
1,2,3,7,8-PeCDF	Not Listed	ND(0.000000013)	ND(0.00000000080)	ND(0.0000000061)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000012)	ND(0.00000000070)	0.0000000073 J
PeCDFs (total)	Not Listed	ND(0.000000012)	ND(0.00000000070)	ND(0.000000013)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.000000000096) X	ND(0.0000000065)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.00000000080)	ND(0.0000000057) X
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.000000014)	ND(0.00000000090)	0.0000000072 JB
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.000000010)	ND(0.00000000080)	0.0000000058 J
HxCDFs (total)	Not Listed	ND(0.000000012)	ND(0.0000000018) X	ND(0.000000020)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.000000014)	ND(0.0000000011)	0.0000000069 J
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.000000017)	ND(0.0000000014)	0.0000000034 J
HpCDFs (total)	Not Listed	ND(0.000000015)	ND(0.0000000012)	0.000000010
OCDF	Not Listed	ND(0.000000032)	ND(0.0000000025) X	0.000000026 J
Dioxins				
2,3,7,8-TCDD	0.0000001	ND(0.000000015)	ND(0.00000000090)	ND(0.0000000040)
TCDDs (total)	Not Listed	ND(0.000000015)	ND(0.00000000090)	ND(0.0000000040)
1,2,3,7,8-PeCDD	Not Listed	ND(0.000000014)	ND(0.00000000090)	ND(0.0000000044)
PeCDDs (total)	Not Listed	ND(0.000000014)	ND(0.00000000090)	ND(0.0000000044)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.000000017)	ND(0.0000000012)	0.0000000061 J
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.000000017)	ND(0.0000000013)	0.0000000054 J
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.000000017)	ND(0.0000000012)	ND(0.0000000040)
HxCDDs (total)	Not Listed	ND(0.000000017)	ND(0.0000000012)	0.000000012
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.000000026)	ND(0.0000000019)	0.0000000069 J
HpCDDs (total)	Not Listed	ND(0.000000026)	ND(0.0000000019)	0.0000000069
OCDD	Not Listed	ND(0.000000039)	ND(0.0000000084)	ND(0.000000022) X
Total TEQ (WHO TEFs)	Not Listed	0.000000024	0.0000000015	0.000000012
Inorganics-Unfiltered				
Cyanide	Not Listed	0.00520 B	0.00990 B	0.00490 B
Lead	Not Listed	0.0130	ND(0.00300)	ND(0.00300) J
Zinc	Not Listed	0.0170 B	ND(0.0200)	0.0420
Inorganics-Filtered				
Lead	Not Listed	ND(0.00300)	ND(0.00300)	ND(0.00300) J
Zinc	Not Listed	0.00580 B	0.0130 B	ND(0.0200)

(See Notes on Page 2)

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Duplicate sample results are presented in brackets.
7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

J - Indicates that the associated numerical value is an estimated concentration.

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Volatile Organics					
Tetrachloroethene	5	ND(0.0020)	0.0025 [0.0024]	0.012	ND(0.0020)
Total VOCs	Not Listed	ND(0.20)	0.0025 [0.0024]	0.012	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Applicable	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J
Aroclor-1260	Not Applicable	ND(0.000065)	ND(0.000065) J [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
Total PCBs	Not Applicable	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J
PCBs-Filtered					
Aroclor-1254	Not Listed	0.000084	ND(0.000065) [ND(0.000065)]	0.000056 J	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	0.000084	ND(0.000065) [ND(0.000065)]	0.000056 J	ND(0.000065)
Semivolatile Organics					
None Detected	--	--	--	--	--
Organochlorine Pesticides					
None Detected	--	--	--	--	--
Herbicides					
None Detected	--	--	--	--	--
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.000000011)	0.0000000014 J [ND(0.0000000021)]	ND(0.00000000070)	ND(0.0000000011)
TCDFs (total)	Not Listed	ND(0.000000011)	0.0000000014 [ND(0.0000000021)]	ND(0.00000000020) X	ND(0.0000000011)
1,2,3,7,8-PeCDF	Not Listed	ND(0.000000013)	ND(0.0000000038) [ND(0.0000000025)]	ND(0.00000000080)	ND(0.0000000025)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000012)	0.0000000035 J [ND(0.0000000023)]	ND(0.00000000070)	ND(0.0000000025)
PeCDFs (total)	Not Listed	ND(0.000000012)	ND(0.0000000074) [ND(0.0000000024)]	ND(0.00000000070)	ND(0.0000000025)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000096) X	ND(0.0000000025)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000080)	ND(0.0000000025)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000020)]	ND(0.00000000090)	ND(0.0000000025)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.000000010)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.00000000080)	ND(0.0000000025)
HxCDFs (total)	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.0000000018) X	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000021)]	ND(0.0000000011)	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000026)]	ND(0.0000000014)	ND(0.0000000025)
HpCDFs (total)	Not Listed	ND(0.000000015)	ND(0.00000000080) [ND(0.0000000023)]	ND(0.0000000012)	ND(0.0000000025)
OCDF	Not Listed	ND(0.000000032)	0.0000000069 J [ND(0.0000000086)]	ND(0.0000000025) X	ND(0.0000000050)
Dioxins					
2,3,7,8-TCDD	0.00000003	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000029)]	ND(0.00000000090)	ND(0.0000000018)
TCDDs (total)	Not Listed	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000032) X]	ND(0.00000000090)	ND(0.0000000018)
1,2,3,7,8-PeCDD	Not Listed	ND(0.000000014)	0.0000000031 J [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
PeCDDs (total)	Not Listed	ND(0.000000014)	0.0000000031 [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.000000017)	0.0000000038 J [ND(0.0000000024)]	ND(0.0000000012)	ND(0.0000000025)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000024)]	ND(0.0000000013)	ND(0.0000000025)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000027)]	ND(0.0000000012)	ND(0.0000000025)
HxCDDs (total)	Not Listed	ND(0.000000017)	0.0000000038 [ND(0.0000000025)]	ND(0.0000000012)	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
HpCDDs (total)	Not Listed	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
OCDD	Not Listed	ND(0.000000039)	0.000000010 J [ND(0.000000011)]	ND(0.0000000084)	0.0000000097 J
Total TEQ (WHO TEFs)	0.0000001	0.000000024	0.0000000062 [0.0000000045]	0.0000000015	0.0000000038
Inorganics-Unfiltered					
Arsenic	Not Applicable	0.0110	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Chromium	Not Applicable	0.00430 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Cobalt	Not Applicable	0.00360 B	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Cyanide	0.01	0.00520 B	0.00390 B [0.00290 B]	0.00990 B	0.00380 B
Lead	Not Applicable	0.0130	ND(0.00300) J [ND(0.00300) J]	ND(0.00300)	ND(0.00300)
Zinc	Not Applicable	0.0170 B	0.0110 B [0.00780 B]	ND(0.0200)	0.0110 B
Inorganics-Filtered					
Arsenic	0.4	ND(0.100)	ND(0.100) [ND(0.100)]	ND(0.100)	ND(0.100)
Chromium	2	ND(0.0250)	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
Cobalt	Not Listed	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Lead	0.03	ND(0.00300)	ND(0.00300) J [ND(0.00300) J]	ND(0.00300)	ND(0.00300)
Zinc	0.9	0.00580 B	ND(0.0200) [0.0180 B]	0.0130 B	0.0120 B

(See Notes on Page 3)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Volatile Organics					
Tetrachloroethene	5	ND(0.0020)	ND(0.0020)	0.018	ND(0.0020)
Total VOCs	Not Listed	ND(0.20)	ND(0.20)	0.018	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Applicable	ND(0.000065) J	0.000067 J	0.000062 J	0.000075 J
Aroclor-1260	Not Applicable	ND(0.000065) J	ND(0.000065) J	0.000031 J	0.000090 J
Total PCBs	Not Applicable	ND(0.000065) J	0.000067 J	0.000093 J	0.000165 J
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Semivolatile Organics					
None Detected	--	--	--	--	--
Organochlorine Pesticides					
None Detected	--	--	--	--	--
Herbicides					
None Detected	--	--	--	--	--
Furans					
2,3,7,8-TCDF	Not Listed	0.0000000044 J	ND(0.0000000033) J	ND(0.0000000031)	ND(0.000000000070)
TCDFs (total)	Not Listed	0.0000000044 J	ND(0.000000026) XJ	0.0000000079	ND(0.000000014) X
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000023) J	ND(0.0000000064) XJ	ND(0.0000000061)	ND(0.000000000090)
2,3,4,7,8-PeCDF	Not Listed	0.0000000078 J	ND(0.0000000035) J	0.0000000073 J	ND(0.0000000030) X
PeCDFs (total)	Not Listed	ND(0.0000000078)	ND(0.0000000064) XJ	ND(0.000000013)	ND(0.000000016) X
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000053) XJ	ND(0.0000000049) X	ND(0.0000000065)	0.0000000048 JB
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000048) XJ	0.0000000047 J	ND(0.0000000057) X	ND(0.0000000031) X
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000037) XJ	0.0000000073 JB	0.0000000072 JB	ND(0.0000000040) X
2,3,4,6,7,8-HxCDF	Not Listed	0.0000000043 J	0.0000000030 J	0.0000000058 J	0.0000000029 J
HxCDFs (total)	Not Listed	ND(0.0000000043)	ND(0.000000015)	ND(0.000000020)	ND(0.000000015) X
1,2,3,4,6,7,8-HpCDF	Not Listed	0.0000000067 J	0.0000000072 J	0.0000000069 J	ND(0.0000000051) X
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000062 J	ND(0.0000000039)	0.0000000034 J	ND(0.0000000014)
HpCDFs (total)	Not Listed	0.000000013	0.0000000072	0.000000010	0.0000000047
OCDF	Not Listed	0.000000013 J	ND(0.000000014) X	0.000000026 J	ND(0.0000000068) X
Dioxins					
2,3,7,8-TCDD	0.00000003	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011)
TCDDs (total)	Not Listed	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011) X
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038 J
PeCDDs (total)	Not Listed	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038
1,2,3,4,7,8-HxCDD	Not Listed	0.0000000050 J	ND(0.0000000034)	0.0000000061 J	0.0000000035 J
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000045) XJ	ND(0.0000000034)	0.0000000054 J	ND(0.0000000013)
1,2,3,7,8,9-HxCDD	Not Listed	0.0000000047 J	ND(0.0000000039)	ND(0.0000000040)	ND(0.0000000013)
HxCDDs (total)	Not Listed	0.0000000097 J	ND(0.0000000035)	0.000000012	0.0000000035
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069 J	0.0000000047 J
HpCDDs (total)	Not Listed	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069	0.0000000047
OCDD	Not Listed	0.000000022 J	0.000000022 J	ND(0.000000022) X	ND(0.000000032) X
Total TEQ (WHO TEFs)	0.0000001	0.0000000093	0.0000000078	0.000000012	0.0000000068
Inorganics-Unfiltered					
Arsenic	Not Applicable	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Chromium	Not Applicable	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cobalt	Not Applicable	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Cyanide	0.01	ND(0.0100)	0.00620 B	0.00490 B	0.0110
Lead	Not Applicable	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Zinc	Not Applicable	0.00760 B	0.0110 B	0.0420	ND(0.0200)
Inorganics-Filtered					
Arsenic	0.4	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Chromium	2	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Lead	0.03	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Zinc	0.9	ND(0.0200)	0.0110 B	ND(0.0200)	0.00790 B

(See Notes on Page 3)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Duplicate sample results are presented in brackets.
7. -- Indicates that all constituents for the parameter group were not detected.
8. Shading indicates that value exceeds Method 1 GW-3 standard.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

J - Indicates that the associated numerical value is an estimated concentration.

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA5-1 04/12/02	GMA5-2 04/16/02	GMA5-3 04/12/02	GMA5-4 05/02/02
Volatile Organics					
etrachloroethene	50	ND(0.0020)	0.0025 [0.0024]	0.012	ND(0.0020)
otal VOCs	Not Listed	ND(0.20)	0.0025 [0.0024]	0.012	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Listed	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J
roclor-1260	Not Listed	ND(0.000065)	ND(0.000065) J [ND(0.000065) J]	ND(0.000065)	ND(0.000065)
otal PCBs	0.005	0.000045 J	0.000060 J [0.000056 J]	0.000042 J	0.000034 J
PCBs-Filtered					
Aroclor-1254	Not Listed	0.000084	ND(0.000065) [ND(0.000065)]	0.000056 J	ND(0.000065)
roclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
otal PCBs	0.005	0.000084	ND(0.000065) [ND(0.000065)]	0.000056 J	ND(0.000065)
emivolatile Organics					
None Detected	--	--	--	--	--
Organochlorine Pesticides					
one Detected	--	--	--	--	--
erbicides					
None Detected	--	--	--	--	--
Furans					
3,7,8-TCDF	Not Listed	ND(0.000000011)	0.0000000014 J [ND(0.0000000021)]	ND(0.00000000070)	ND(0.0000000011)
CDFs (total)	Not Listed	ND(0.000000011)	0.0000000014 [ND(0.0000000021)]	ND(0.0000000020) X	ND(0.0000000011)
,2,3,7,8-PeCDF	Not Listed	ND(0.000000013)	ND(0.0000000038) [ND(0.0000000025)]	ND(0.00000000080)	ND(0.0000000025)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000012)	0.0000000035 J [ND(0.0000000023)]	ND(0.00000000070)	ND(0.0000000025)
eCDFs (total)	Not Listed	ND(0.000000012)	ND(0.0000000074) [ND(0.0000000024)]	ND(0.00000000070)	ND(0.0000000025)
2,3,4,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000096) X	ND(0.0000000025)
2,3,6,7,8-HxCDF	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000017)]	ND(0.00000000080)	ND(0.0000000025)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000020)]	ND(0.00000000090)	ND(0.0000000025)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.000000010)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.00000000080)	ND(0.0000000025)
xCDFs (total)	Not Listed	ND(0.000000012)	ND(0.00000000060) [ND(0.0000000018)]	ND(0.0000000018) X	ND(0.0000000025)
2,3,4,6,7,8-HpCDF	Not Listed	ND(0.000000014)	ND(0.00000000070) [ND(0.0000000021)]	ND(0.0000000011)	ND(0.0000000025)
,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000026)]	ND(0.0000000014)	ND(0.0000000025)
HpCDFs (total)	Not Listed	ND(0.000000015)	ND(0.00000000080) [ND(0.0000000023)]	ND(0.0000000012)	ND(0.0000000025)
OCDF	Not Listed	ND(0.000000032)	0.0000000069 J [ND(0.0000000086)]	ND(0.0000000025) X	ND(0.0000000050)
ioxins					
3,7,8-TCDD	0.0000001	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000029)]	ND(0.00000000090)	ND(0.0000000018)
TCDDs (total)	Not Listed	ND(0.000000015)	ND(0.0000000010) X [ND(0.0000000032) X]	ND(0.00000000090)	ND(0.0000000018)
1,2,3,7,8-PeCDD	Not Listed	ND(0.000000014)	0.0000000031 J [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
:CDDs (total)	Not Listed	ND(0.000000014)	0.0000000031 [ND(0.0000000030)]	ND(0.00000000090)	ND(0.0000000025)
2,3,4,7,8-HxCDD	Not Listed	ND(0.000000017)	0.0000000038 J [ND(0.0000000024)]	ND(0.0000000012)	ND(0.0000000025)
2,3,6,7,8-HxCDD	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000024)]	ND(0.0000000013)	ND(0.0000000025)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.000000017)	ND(0.00000000090) [ND(0.0000000027)]	ND(0.0000000012)	ND(0.0000000025)
HxCDDs (total)	Not Listed	ND(0.000000017)	0.0000000038 [ND(0.0000000025)]	ND(0.0000000012)	ND(0.0000000025)
2,3,4,6,7,8-HpCDD	Not Listed	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
pCDDs (total)	Not Listed	ND(0.000000026)	ND(0.0000000013) [ND(0.0000000038)]	ND(0.0000000019)	0.0000000017 J
OCDD	Not Listed	ND(0.000000039)	0.000000010 J [ND(0.000000011)]	ND(0.0000000084)	0.0000000097 J
Total TEQ (WHO TEFs)	0.000001	0.000000024	0.0000000062 [0.0000000045]	0.0000000015	0.0000000038
organics-Unfiltered					
rsenic	4	0.0110	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
romium	20	0.00430 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Cobalt	Not Listed	0.00360 B	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
yanide	2	0.00520 B	0.00390 B [0.00290 B]	0.00990 B	0.00380 B
ad	0.3	0.0130	ND(0.00300) J [ND(0.00300) J]	ND(0.00300)	ND(0.00300)
c	20	0.0170 B	0.0110 B [0.00780 B]	ND(0.0200)	0.0110 B
inorganics-Filtered					
rsenic	4	ND(0.100)	ND(0.100) [ND(0.100)]	ND(0.100)	ND(0.100)
romium	20	ND(0.0250)	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
balt	Not Listed	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
ad	0.3	ND(0.00300)	ND(0.00300) J [ND(0.00300) J]	ND(0.00300)	ND(0.00300)
Zinc	20	0.00580 B	ND(0.0200) [0.0180 B]	0.0130 B	0.0120 B

(See Notes on Page 3)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA5-5 04/16/02	GMA5-6 04/16/02	GMA5-7 04/16/02	GMA5-8 04/16/02
Volatile Organics					
Tetrachloroethene	50	ND(0.0020)	ND(0.0020)	0.018	ND(0.0020)
Total VOCs	Not Listed	ND(0.20)	ND(0.20)	0.018	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Listed	ND(0.000065) J	0.000067 J	0.000062 J	0.000075 J
Aroclor-1260	Not Listed	ND(0.000065) J	ND(0.000065) J	0.000031 J	0.000090 J
Total PCBs	0.005	ND(0.000065) J	0.000067 J	0.000093 J	0.000165 J
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000034 J
Semivolatile Organics					
None Detected	--	--	--	--	--
Organochlorine Pesticides					
None Detected	--	--	--	--	--
Herbicides					
None Detected	--	--	--	--	--
Furans					
2,3,7,8-TCDF	Not Listed	0.0000000044 J	ND(0.0000000033) J	ND(0.0000000031)	ND(0.00000000070)
TCDFs (total)	Not Listed	0.0000000044 J	ND(0.000000026) XJ	0.0000000079	ND(0.000000014) X
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000023) J	ND(0.0000000064) XJ	ND(0.0000000061)	ND(0.000000000090)
2,3,4,7,8-PeCDF	Not Listed	0.0000000078 J	ND(0.0000000035) J	0.0000000073 J	ND(0.0000000030) X
PeCDFs (total)	Not Listed	ND(0.0000000078)	ND(0.0000000064) XJ	ND(0.000000013)	ND(0.000000016) X
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000053) XJ	ND(0.0000000049) X	ND(0.0000000065)	0.0000000048 JB
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000048) XJ	0.0000000047 J	ND(0.0000000057) X	ND(0.0000000031) X
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000037) XJ	0.0000000073 JB	0.0000000072 JB	ND(0.0000000040) X
2,3,4,6,7,8-HxCDF	Not Listed	0.0000000043 J	0.0000000030 J	0.0000000058 J	0.0000000029 J
HxCDFs (total)	Not Listed	ND(0.0000000043)	ND(0.000000015)	ND(0.000000020)	ND(0.000000015) X
1,2,3,4,6,7,8-HpCDF	Not Listed	0.0000000067 J	0.0000000072 J	0.0000000069 J	ND(0.0000000051) X
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000062 J	ND(0.0000000039)	0.0000000034 J	ND(0.0000000014)
HpCDFs (total)	Not Listed	0.000000013	0.0000000072	0.000000010	0.0000000047
OCDF	Not Listed	0.000000013 J	ND(0.000000014) X	0.000000026 J	ND(0.0000000068) X
Dioxins					
2,3,7,8-TCDD	0.0000001	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011)
TCDDs (total)	Not Listed	ND(0.0000000025) J	ND(0.0000000042) J	ND(0.0000000040)	ND(0.0000000011) X
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038 J
PeCDDs (total)	Not Listed	ND(0.0000000023) J	ND(0.0000000042) J	ND(0.0000000044)	0.0000000038
1,2,3,4,7,8-HxCDD	Not Listed	0.0000000050 J	ND(0.0000000034)	0.0000000061 J	0.0000000035 J
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000045) XJ	ND(0.0000000034)	0.0000000054 J	ND(0.0000000013)
1,2,3,7,8,9-HxCDD	Not Listed	0.0000000047 J	ND(0.0000000039)	ND(0.0000000040)	ND(0.0000000013)
HxCDDs (total)	Not Listed	0.0000000097 J	ND(0.0000000035)	0.000000012	0.0000000035
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069 J	0.0000000047 J
HpCDDs (total)	Not Listed	ND(0.0000000064) X	ND(0.0000000055) X	0.0000000069	0.0000000047
OCDD	Not Listed	0.000000022 J	0.000000022 J	ND(0.000000022) X	ND(0.000000032) X
Total TEQ (WHO TEFs)	0.000001	0.0000000093	0.0000000078	0.000000012	0.0000000068
Inorganics-Unfiltered					
Arsenic	4	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Chromium	20	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Cyanide	2	ND(0.0100)	0.00620 B	0.00490 B	0.0110
Lead	0.3	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Zinc	20	0.00760 B	0.0110 B	0.0420	ND(0.0200)
Inorganics-Filtered					
Arsenic	4	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Chromium	20	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Lead	0.3	ND(0.00300) J	ND(0.00300) J	ND(0.00300) J	ND(0.00300)
Zinc	20	ND(0.0200)	0.0110 B	ND(0.0200)	0.00790 B

(See Notes on Page 3)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS A&C GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Duplicate sample results are presented in brackets.
7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

J - Indicates that the associated numerical value is an estimated concentration.

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

Figures

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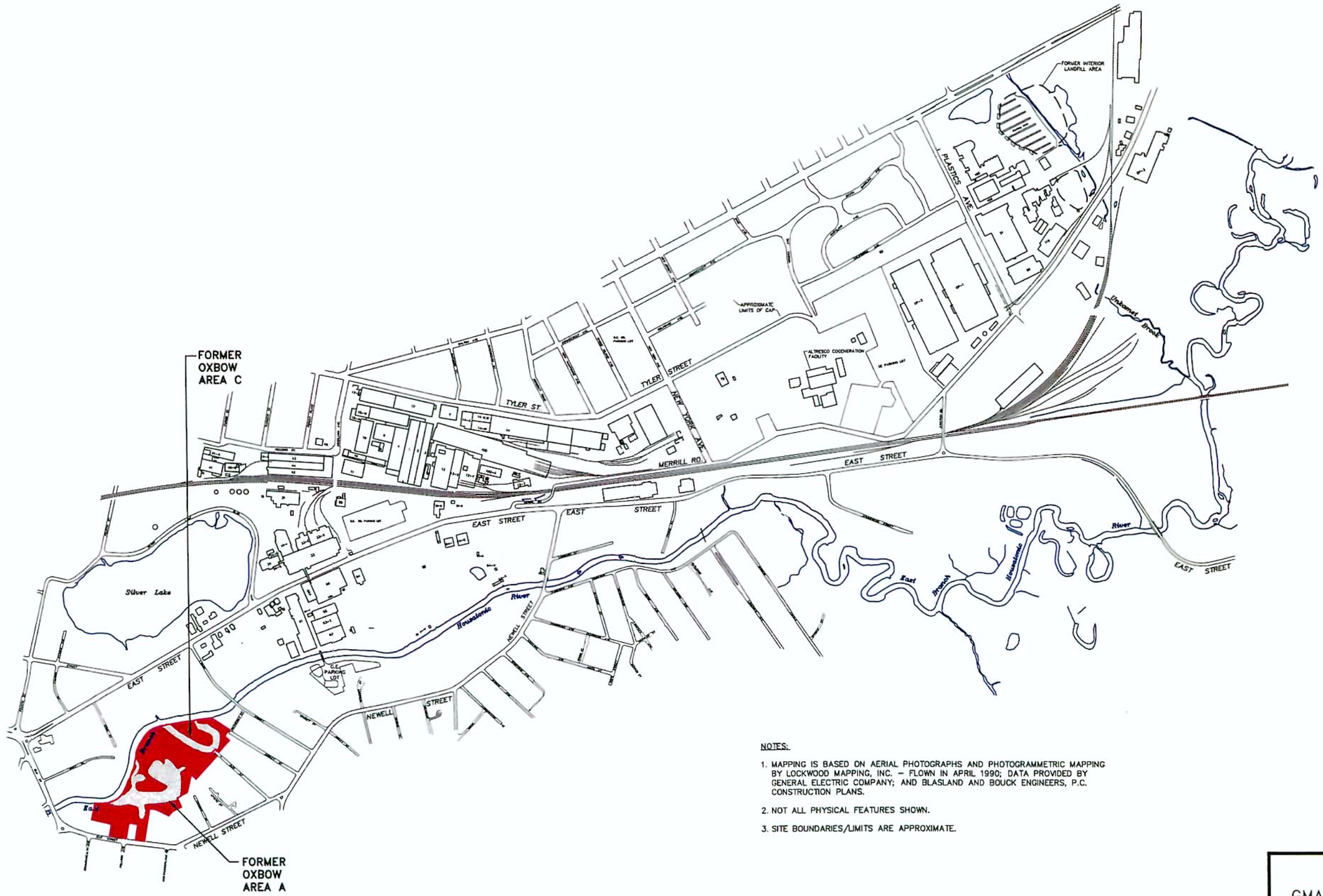

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 5 BASELINE MONITORING PROGRAM

SITE LOCATION

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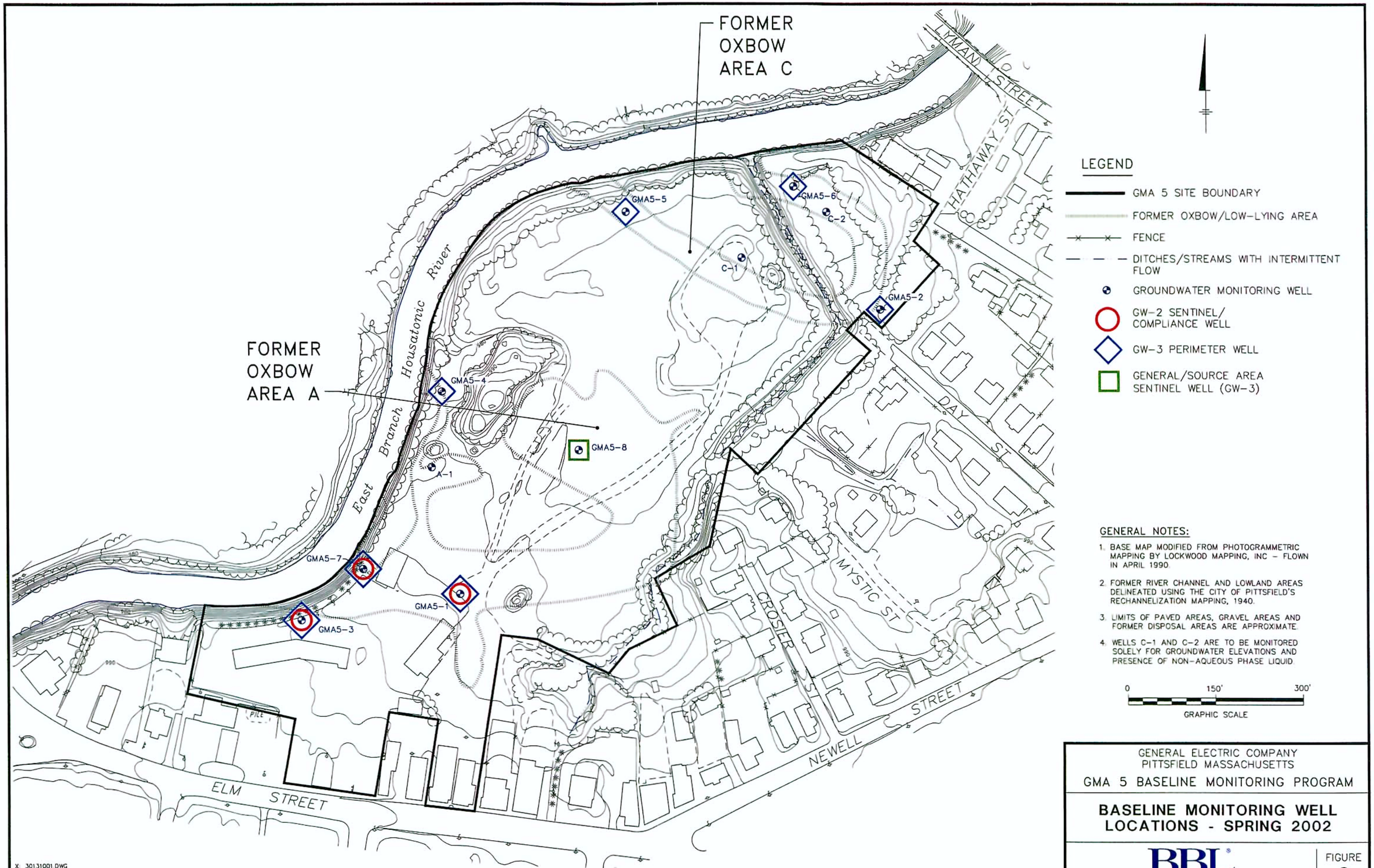
FIGURE 1

X: NONE
L: ON=*; OFF=REF*
P: PAGESET/PLT-BL (PLTHALF)
7/29/02 SYR-54-DMW
N/30131001/30131G03.DWG



GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. LIMITS OF PAVED AREAS, GRAVEL AREAS AND FORMER DISPOSAL AREAS ARE APPROXIMATE.
4. WELLS C-1 AND C-2 ARE TO BE MONITORED SOLELY FOR GROUNDWATER ELEVATIONS AND PRESENCE OF NON-AQUEOUS PHASE LIQUID.

0 150' 300'

GRAPHIC SCALE

X: 30131001.DWG
P: PAGESET/PLT-BL (PLTHALF)
7/29/02 SYR-54-DMW RCA DMW
N:/30131001/30131G01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

GMA 5 BASELINE MONITORING PROGRAM

BASELINE MONITORING WELL LOCATIONS - SPRING 2002

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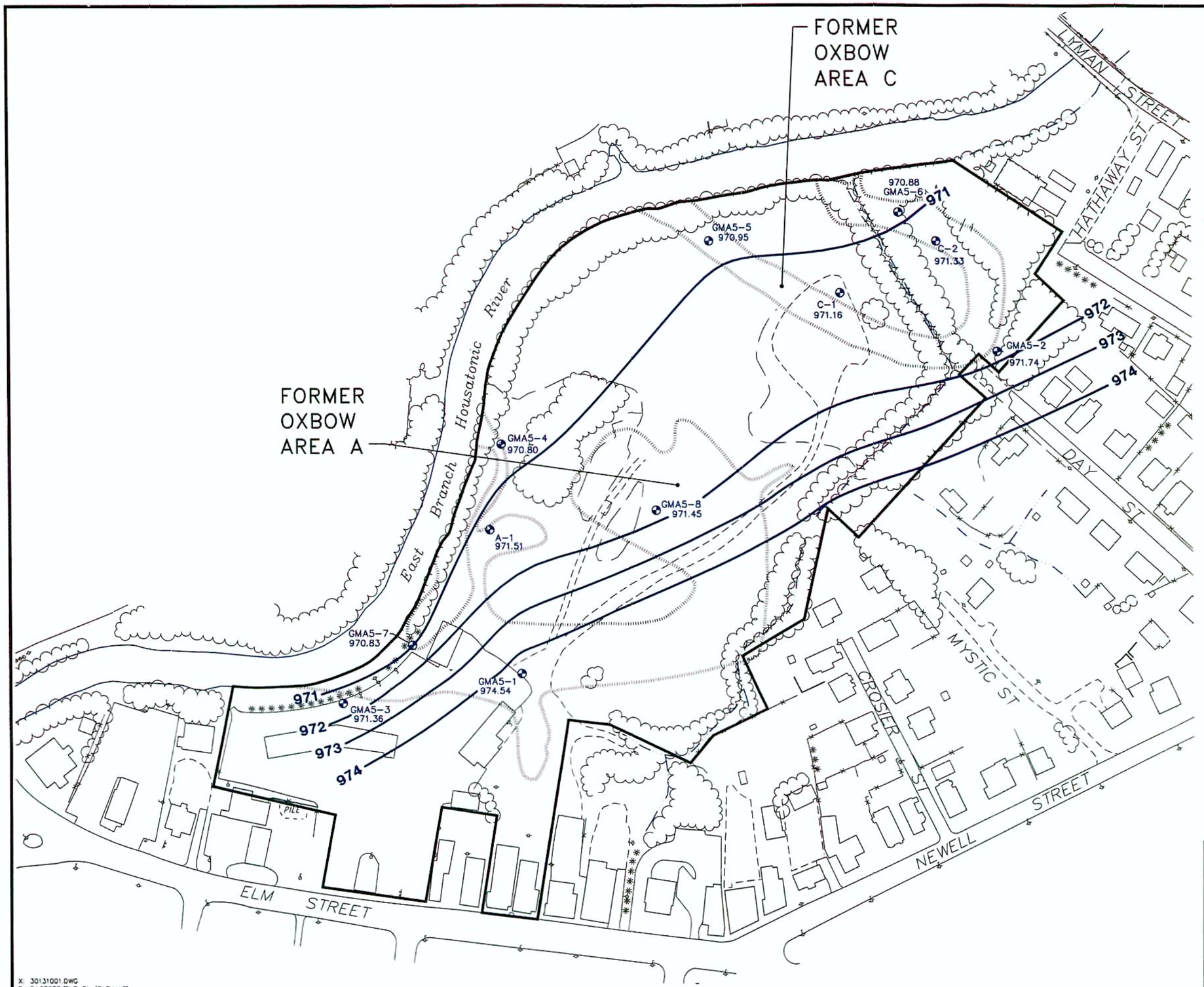
FIGURE 2



LEGEND

- GMA 5 SITE BOUNDARY
- FORMER OXBOW/LOW-LYING AREA
- FENCE
- STREAMS WITH INTERMITTENT FLOW
- GROUNDWATER MONITORING WELL LOCATION
- 971.36 GROUNDWATER ELEVATION (FT AMSL)
- 972 GROUNDWATER ELEVATION CONTOUR LINE (FT AMSL)

GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. LIMITS OF PAVED AREAS, GRAVEL AREAS AND FORMER DISPOSAL AREAS ARE APPROXIMATE.
4. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED JANUARY 15, 2002.

0 150' 300'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

GMA 5 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP JANUARY 2002

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FIGURE 3

X: 30131001.DWG
P: PAGESET/PLT-BL (PLTHALF)
7/29/02 SYR-54-DMW RCA DMW
N/30131001/30131G02.DWG

FORMER OXBOW AREA C

FORMER OXBOW AREA A

LYMAN STREET

HATHAWAY ST.

DAY ST.

MYSTIC ST

CROSIER

NEWELL STREET

ELM STREET

PILE

East Branch Housatonic River

GMA5-5
972.07

GMA5-6
972.03

C-2
972.87

C-1
972.25

GMA5-2
972.93

GMA5-4
NA

972.55
GMA5-8

A-1
973.09

GMA5-7
972.76

GMA5-1
975.49

GMA5-3
972.42

973

974

975

LEGEND

- GMA 5 SITE BOUNDARY
- FORMER OXBOW/LOW-LYING AREA
- FENCE
- STREAMS WITH INTERMITTENT FLOW
- GROUNDWATER MONITORING WELL LOCATION
- 973.09 GROUNDWATER ELEVATION (FT AMSL)
- 973 GROUNDWATER ELEVATION CONTOUR LINE (FT AMSL)

GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. LIMITS OF PAVED AREAS, GRAVEL AREAS AND FORMER DISPOSAL AREAS ARE APPROXIMATE.
4. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED APRIL 11, 2002.

0 150' 300'

GRAPHIC SCALE

X: 30131001.DWG
P: PAGESET/PLT-BL (PLTHALF)
7/29/02 SYR-54-DMW RCA
N/30131001/30131004.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

GMA 5 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP APRIL 2002

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FIGURE 4

Appendices

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Appendix A

Monitoring Well Logs

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Date Start/Finish: 11/2/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 531464.5000
Easting: 130012.3000
Casing Elevation: 984.59

Borehole Depth: 16' bgs
Surface Elevation: 985.01

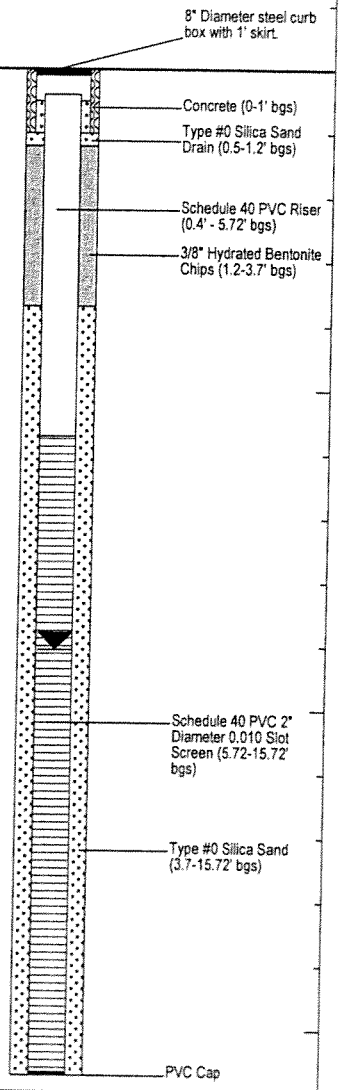
Descriptions By: Jeff Bishop

Well ID: GMA5-1

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 985	1	0-4'	3.7	NA		Light brown to brown fine to coarse SAND with fine to medium subangular Gravel.
						Brown fine SAND and SILT, trace medium Gravel.
5 980	2	4-8'	3.8	NA		Light brown to brown fine to medium SAND, some Silt with fine to medium Gravel.
	3	8-12'	4.0	NA		Light brown fine SAND and SILT with fine subrounded Gravel, saturated at 11' bgs.
10 975						Light brown fine SAND, trace Silt and fine Gravel, saturated.
	4	12-16'	4.0	NA		Dark brown PEAT.
15 970						



Well Construction

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Remarks: NA = Not Available/Not Applicable.

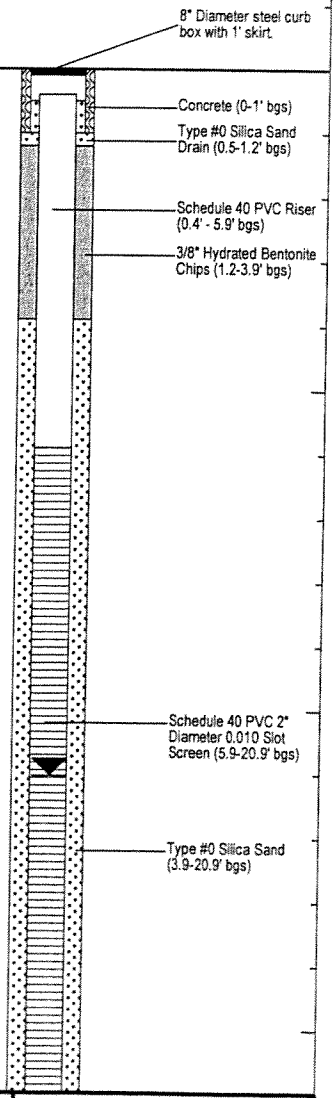
Water Level Data

Date	Depth	Elev.
7/16/02	9.06	975.53

Date Start/Finish: 11/2/01 **Drilling Company:** BBLES **Driller's Name:** Joe Bishop **Drilling Method:** Direct Push/HSA **Sampler Size:** 4' x 2" ID Disposable Liner **Auger Size:** 4 1/4" ID **Rig Type:** Truck-mounted Power Probe 9600	**Northing:** 531952.6000 **Easting:** 130739.2000 **Casing Elevation:** 982.66 **Borehole Depth:** 20' bgs **Surface Elevation:** 982.86 **Descriptions By:** Brett Kameinski	**Well ID:** GMA5-2 **Client:** General Electric Company **Location:** Oxbow Areas A and C Groundwater Management Area 5 Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
985						
0						Dark brown fine to coarse SAND with fine Gravel, trace concrete.
980	1	0-4'	3.3	NA		Light brown fine SAND, some medium to coarse Sand with fine subangular Gravel, trace concrete, brick and asphalt.
5	2	4-8'	3.1	NA		Light brown to light olive-brown fine SAND, trace Silt and fine to medium subangular Gravel.
975						Light olive-brown fine SAND and SILT, slight petro odor. Saturated.
10	3	8-12'	3.3	NA		Olive-brown fine to coarse SAND, saturated. Dark brown PEAT, wet. Light gray SILT and CLAY, wet.
970	4	12-16'	3.6	NA		Same as above, trace organic debris (PEAT), wet. Light gray CLAY, little Silt, wet.
15						Light gray fine to medium rounded SAND, saturated.

Well Construction



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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	11.03	966.24

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-2

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
965	5	16-20'	4.0	NA		Light gray to light brown fine SAND, saturated.	Type #0 Silica Sand (3.9-20.9' bgs); Schedule 40 PVC 2" Diameter 0.010 Slot Screen (5.9-20.9' bgs); PVC Cap
20							
960							
25							
955							
30							
950							
35							

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	11.03	966.24

Date Start/Finish: 11/2/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: NA
Easting: NA
Casing Elevation: NA

Borehole Depth: 22.5' bgs
Surface Elevation: NA

Descriptions By: Jeff Bishop

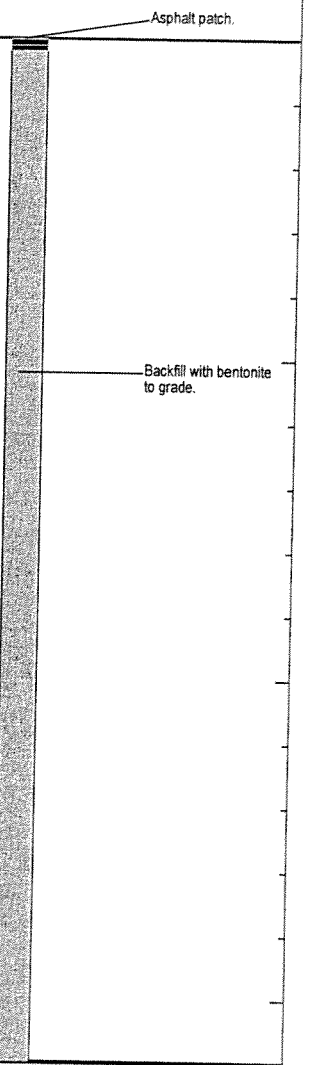
Well ID: GMA5-3 (boring)

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 0	1	0-4'	4.0	NA		Asphalt 0-2". Light to medium brown fine to medium SAND with subangular Gravel.
						Medium to dark brown fine to medium SAND with subangular Gravel, trace brick.
5 5	2	4-8'	2.0	NA		Medium to dark brown fine SAND with subrounded Gravel.
						Medium brown fine to medium SAND with large subangular Grave, trace brick.
10 10	3	8-12'	2.0	NA		Medium to dark brown fine SAND and SILT.
15 15	4	12-16'	2.5	NA		

Well Construction



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Remarks: NA = Not Available/Not Applicable.
No well installed.
Refusal at 22.5' bgs.

Water Level Data

Date	Depth	Elev.
NA	NA	NA

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-3 (boring)

Borehole Depth: 22.5' bgs

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	5	16-20'	3.0	NA		Dark brown fine SAND.	Backfill with bentonite to grade.
20 20	6	20-22.5'	2.5	NA		Black SILT, trace NAPL.	
25 25							
30 30							
35 35							

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Remarks: NA = Not Available/Not Applicable.
No well installed.
Refusal at 22.5' bgs.

Water Level Data

Date	Depth	Elev.
NA	NA	NA

Date Start/Finish: 1/2/02
Drilling Company: Parratt Wolff
Driller's Name: Jim Lansing
Drilling Method: HSA/SS
Sampler Size: 2' x 2" ID
Auger Size: 4 1/4" ID
Rig Type: CME 75

Northing: 531419.0000
Easting: 139738.7000
Casing Elevation: 989.14

Borehole Depth: 26' bgs
Surface Elevation: 989.57

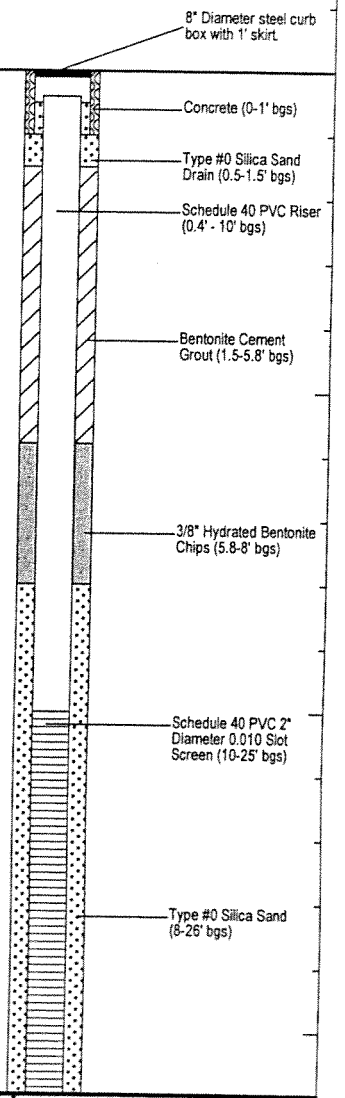
Descriptions By: Leanne M. Sanders

Well ID: GMA5-3

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990 / 0						
985 / 5	NA	NA	NA	NA		Auger from 0-10' bgs. Previously sampled to 22' bgs. See boring log GMA5-3(boring) for descriptions 0-10' bgs.
980 / 10	1	10-12'	0.4	1.0		Dark brown fine SAND, some medium to coarse Sand, trace black-stained wood, brick, moist, loose.
	2	12-14'	1.0	0.9		Same as above, some Silt, little fine to medium Gravel, firm, moist. Little white-quartzite Gravel.
975 / 15	3	14-16'	2.0	1.6		Same as above, no Gravel, trace brick, firm moist. Interbedded layers (0.07-0.05') of dark brown SILT and gray fine SAND, moist, firm to loose (sand), slight odor. From 15-16' bgs: Olive gray fine SAND, well sorted and homogeneous, moist, loose, slight odor.



Well Construction

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/15/02	17.21	971.93

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-3

Borehole Depth: 26' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
970 / 20	4	16-18'	0.7	5.1		Interbedded layers of black-stained SILT and gray fine SAND, odor, wet.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (10-25' bgs)
	5	18-20'	2.0	9.6		Same as above, but very heterogeneous, trace Slag 18.5 to 19.5' bgs, wet.	Type #0 Silica Sand (8-26' bgs)
	6	20-22'	1.2	14.3		Same as above, saturated, odor, trace blebs of sheen.	
	7	22-24'	0.7	7.1		Same as above, saturated, little Clay 22.5 to 22.7' bgs, odor, little rainbow sheen.	
965 / 25	8	24-26'	1.2	2.5		Olive-brown very fine SAND and SILT, trace fine to coarse Gravel, very poorly sorted, saturated. TILL.	PVC Cap
960 / 30							
955 / 35							

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/15/02	17.21	971.93

Date Start/Finish: 11/1/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 531811.3000
Easting: 129982.6000
Casing Elevation: 979.10

Borehole Depth: 24' bgs
Surface Elevation: 979.29

Descriptions By: Jeff Bishop

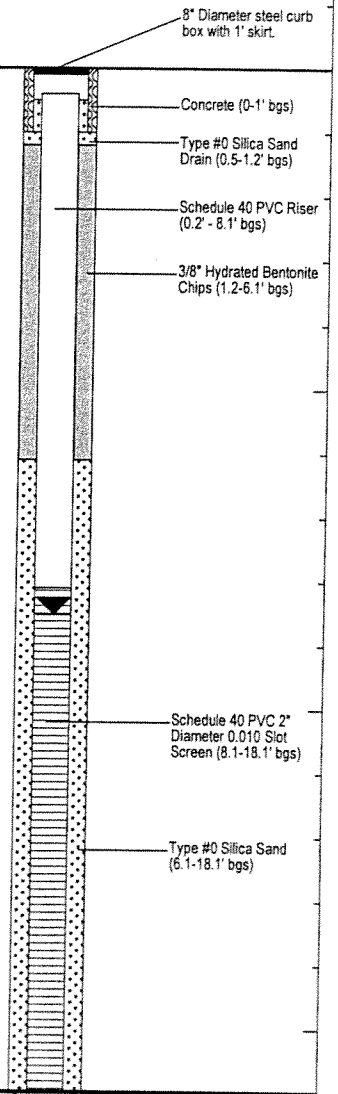
Well ID: GMA5-4

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
980 / 0						
	1	0-4'	4.0	0.0		Brown fine to coarse SAND, trace Silt and fine subangular Gravel.
						Dark brown fine to medium SAND with fine to medium subangular Gravel, trace coal.
975 / 5						Same as above, trace brick, coal, concrete, light petro odor.
	2	4-8'	3.8	6.0		Light brown fine SAND, some Silt, moist.
						Dark brown fine SAND and SILT with natural organic debris (PEAT), strong petro odor.
970 / 10	3	8-12'	3.8	3.2		Same as above, no petro odor.
						Light brown to brown fine SAND and SILT, trace natural organic debris (PEAT).
965 / 15	4	12-16'	4.0	0.4		Light brown fine rounded SAND, trace Silt, saturated.

Well Construction



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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/19/02	8.52	970.58

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-4

Borehole Depth: 24' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
960 / 20	5	16-20'	4.0	0.0		Light brown fine rounded SAND, trace Silt, saturated.	Type #0 Silica Sand (6.1-18.1' bgs); Schedule 40 PVC 2" Diameter 0.010 Slot Screen (8.1-18.1' bgs); PVC Cap
	6	20-24'	4.0	0.0		Trace Peat and gray Clay.	
955 / 25							
950 / 30							
945 / 35							

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/19/02	8.52	970.58

Date Start/Finish: 10/31/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 532121.0000
Easting: 130300.1000
Casing Elevation: 982.64

Borehole Depth: 20' bgs
Surface Elevation: 982.85

Descriptions By: Brett Kameinski

Well ID: GMA5-5

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
985 / 0						Dark brown fine to coarse SAND, trace Silt and natural organic debris.
980	1	0-4'	3.8	NA		ASPHALT, BRICK and CONCRETE.
5 / 975	2	4-8'	3.0	NA		Brown fine to medium SAND, trace Silt, medium subangular Gravel, asphalt, coal and concrete.
10	3	8-12'	3.0	NA		Dark brown fine SAND, some Silt.
970	4	12-16'	3.6	NA		Dark brown fine SAND and SILT, trace natural organic debris. Slight petro odor, saturated.
15						

Well Construction:
- 8" Diameter steel curb box with 1' skirt.
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0.5-1.2' bgs)
- Schedule 40 PVC Riser (0.2' - 6.8' bgs)
- 3/8" Hydrated Bentonite Chips (1.2-4.8' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (6.8-21.8' bgs)
- Type #0 Silica Sand (4.8-21.8' bgs)

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	12.02	970.62

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-5

Borehole Depth: 20' bgs

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
965	5	16-20'	4.0	NA		Dark brown fine SAND and SILT, trace natural organic debris.	Type #0 Silica Sand (4.8-21.8' bgs); Schedule 40 PVC 2" Diameter 0.010 Slot Screen (6.8-21.8' bgs); PVC Cap
20							
960							
25							
955							
30							
950							
35							

BBL
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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	12.02	970.62

Date Start/Finish: 10/30/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 532163.5000
Easting: 130589.6000
Casing Elevation: 979.23

Borehole Depth: 16' bgs
Surface Elevation: 979.52

Descriptions By: Brett Kameinski

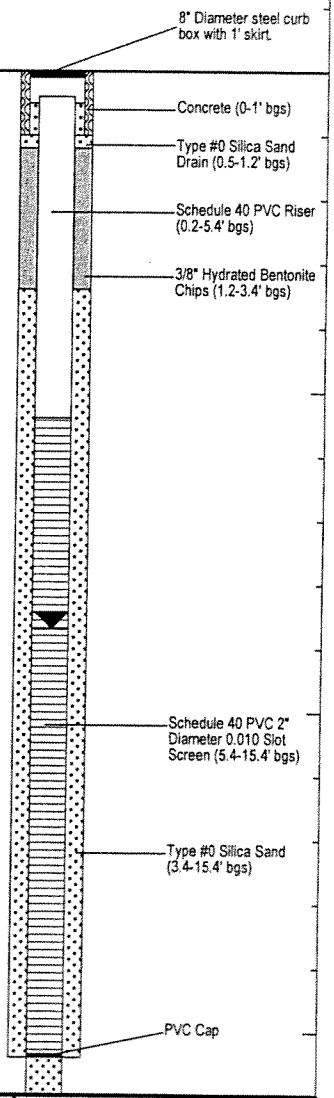
Well ID: GMA5-6

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
980 / 0						Dark brown Sandy LOAM/SILT with grass, roots and trace fine subangular Gravel.
	1	0-4'	3.5	0.0		Brown fine SAND, trace Silt with fine subangular and subrounded Gravel.
						Brown fine to coarse SAND with brick, concrete, asphalt and coarse subangular Gravel.
975 / 5						BRICK and CONCRETE FILL.
	2	4-8'	3.3	6.0		Brown to olive-brown fine SAND, some Silt, trace natural organic debris.
						Dark brown SILT, some fine Sand.
970 / 10	3	8-12'	3.7	3.2		Black to dark brown SILT, trace fine Sand and Clay, strong petro odor and visible sheen from 9 to 10.5' bgs. Saturated.
						Light brown to brown coarse rounded SAND with fine rounded Gravel, saturated.
965 / 15	4	12-16'	3.0	0.4		Brown PEAT, trace Silt

Well Construction



BBL
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engineers & scientists

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/15/02	8.70	970.53

Project:301.31.001 Template:J:/Rockware/Logplot2001/Logfiles/30131/GMA5-6.ldf
Data FileGMA5-6.dat Date:7/25/02

Date Start/Finish: 1/2/02
Drilling Company: Parratt Wolff
Driller's Name: Jim Lansing
Drilling Method: HSA/SS
Sampler Size: 2' x 2" ID
Auger Size: 4 1/4" ID
Rig Type: CME 75

Northing: 531507.5000
Easting: 129845.0000
Casing Elevation: 986.75

Borehole Depth: 28' bgs
Surface Elevation: 987.21

Descriptions By: Leanne M. Sanders

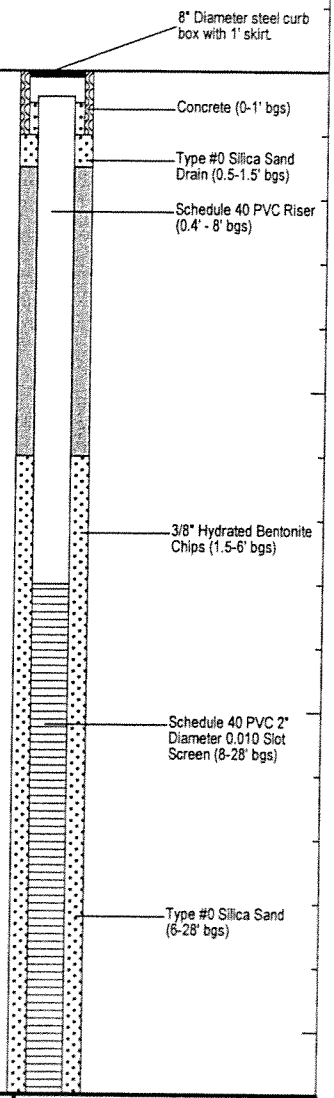
Well ID: GMA5-7

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990						
0						Auger from 0-6' bgs. Previously sampled. Auger cuttings: Dark brown SILT with some fine to coarse Sand and fine to coarse Gravel, moist, boney.
985	NA	NA	NA	NA		
5						6.0-6.3' bgs: Same as above, some fine to coarse Sand, trace brick, moist, firm.
980	1	6-7.6'	0.7	8.4		Pulverized CONCRETE, dry.
	2	8-10'	0.8	1.4		Olive-brown fine SAND and SILT, little medium to coarse Sand, trace fine subangular to rounded Gravel, wet, firm, somewhat cohesive. TILL.
10	3	10-12'	0.7	0.7		Same as above, wet, somewhat cohesive. TILL.
975	4	12-14'	0.6	0.5		Same as above, some fine to medium Sand, somewhat cohesive, saturated. TILL.
15	5	14-16'	0.8	1.1		Same as above, trace medium subrounded Gravel, wood branch 14.5-14.7' bgs, saturated.

Well Construction



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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/15/02	16.40	966.24

Client:
General Electric Company

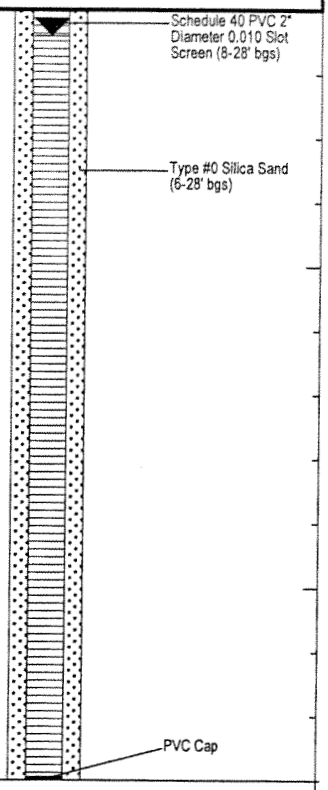
Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-7

Borehole Depth: 28' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
970	6	16-18'	2.0	0.8		Dark brown SILT (highly degraded natural organic material), little natural organic material, wet, sponge-like, trace very fine gray Sand in stringers, firm, somewhat cohesive. PEAT.
	7	18-20'	1.4	0.6		Same as above, trace gray Sand mixed with Silt from ~18-19' bgs (heterogeneous), trace gray Sand stringers 19-19.4' bgs, moist firm.
20	8	20-22'	1.5	0.4		Same as above, moist, firm.
965	9	22-24'	2.0	0.3		Olive-brown medium SAND, little coarse Sand and trace fine Gravel, poorly sorted, saturated, loose.
25	10	24-26'	1.6	0.4		Olive-brown medium to coarse SAND, well sorted, saturated.
960	11	26-28'	1.8	0.3		Olive-brown fine SAND, saturated.
30						Same as above, little Silt, trace medium to coarse Sand and fine Gravel, poorly sorted, firm, saturated.
955						Olive-brown SILT, firm to dense, saturated.
35						

Well Construction



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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/15/02	16.40	966.24

Date Start/Finish: 1/2/02
Drilling Company: Parratt Wolff
Driller's Name: Jim Lansing
Drilling Method: HSA/SS
Sampler Size: 2' x 2" ID
Auger Size: 4 1/4" ID
Rig Type: CME 75

Northing: 531711.7000
Easting: 130216.9000
Casing Elevation: 984.69

Borehole Depth: 20' bgs
Surface Elevation: 984.95

Descriptions By: Leanne M. Sanders

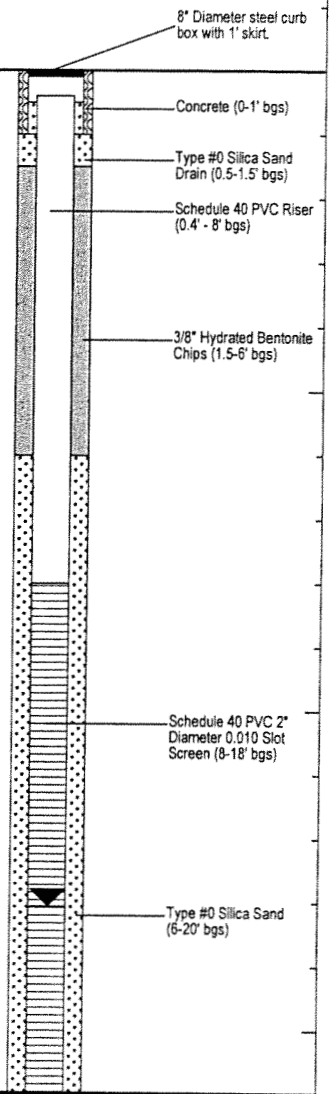
Well ID: GMA5-8

Client: General Electric Company

Location: Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 985		0-2'	1.7	0.2		Olive-brown fine SAND and SILT, little medium to coarse Sand, trace fine to coarse angular Gravel, poorly sorted, firm, moist.
						Black COAL and ASH, loose moist.
		2-4'	1.8	1.7		Olive-brown fine SAND and SILT, some medium to coarse Sand, trace fine to coarse angular Gravel, poorly sorted, trace coal, odor, dense, moist.
5 980		4-6'	2.0	4.9		Same as above, little medium to coarse Sand, trace medium to coarse Gravel, coal, odor, dense, moist.
	1	6-8'	1.5	15		Same as above, trace coal 7.2 to 7.4' bgs, odor, very dense, moist. Trace Clay 6 to 6.8' bgs.
	2	8-10'	1.7	9.7		Olive-brown fine SAND and SILT, trace medium to coarse Sand and fine rounded Gravel, poorly sorted, firm, moist, no odor.
10 975	3	10-12'	1.8	2.1		Same as above, trace brick and coal, no odor, moist, firm.
	4	12-14'	1.0	5.8		Very dark brown SILT, trace black-staining and natural organic material, firm sponge-like, moist, trace brick.
						Olive-brown fine SAND, trace Silt, saturated.
15 970	5	14-16'	1.8	1.3		Olive-brown fine to medium SAND, little coarse Sand, moderately well sorted, saturated.

Well Construction



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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/19/02	12.74	971.95

Client:
General Electric Company

Site Location:
Oxbow Areas A and C
Groundwater Management Area 5
Pittsfield, MA

Well ID: GMA5-8

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
	6	16-18'	1	1.0		Olive-brown fine SAND, trace Silt, saturated.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (8-18' bgs)
						Fine to medium subangular GRAVEL, trace fine to coarse Sand, Silty Clay, saturated, loose.	
						No Clay, saturated, loose.	PVC Cap
	7	18-20'	0.5	0.0			Type #0 Silica Sand (6-20' bgs)
20 965							
25 960							
30 955							
35 950							

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Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/19/02	12.74	971.95

Project:301.31.001 Template:J:/Rockware/Logplot2001/Logfiles/30131/GMA5-8.ldf
Data FileGMA5-8.dat Date:7/25/02

Appendix B

Field Sampling Data

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CHAIN OF CUSTODY RECORD

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(1)

CLIENT: BBL
CONTACT: Gregg Rabasco PHONE NO: (413) 822-1184
PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-5
REPORTS TO: Nick Smith FAX NO: (315) 445-9161
INVOICE TO:
P.O. NUMBER: 301.31.001

CT&E Reference:

PAGE 2 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) 5 Standard PCBs	Full Appendix IX List	REMARKS
	GMA5-3	4/12/02	12:50	Water	14	G	2	12		Filtered PCBs and Filtered Metals are to be filtered by the lab
	GMA5-1	4/12/02	10:50	Water	14	G	2	12		
	Trip Blank	4/12/02	—	Water	2	G	2			

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Gregg Rabasco	4/12/02	16:00	
Relinquished By: (2)	Date	Time	Received By:
	4/12/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:
Special Deliverable Requirements:
Chain of Custody Seal (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

0-720 (11)

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01-8542

(1)

CLIENT: BBL

CONTACT: Gregg Rebesco PHONE NO: (413) 822-1187

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield - GMA-5

REPORTS TO: Mark Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 301.31.001

CT&E Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3): Standard-J 8260B VOCs	Full Appendix IX+3 List	Standard 8260B VOCs-MS/MSD	Full Appendix IX+3 List-MS/MSD	REMARKS
	GMA5-2	4/16/02	8:30	Water	14	G		2	12			Filtered PCBs and Filtered Metals are to be filtered by the lab
	GMA5-5	4/16/02	9:40	Water	42	G		12	12	4	24	
	GMA5-7	4/16/02	11:10	Water	14	G		2	12			
	GMA5-6	4/16/02	11:50	Water	14	G		2	12			
	DUP-5	4/16/02	—	Water	14	G		2	12			
	Trip Blank	4/16/02	—	Water	2	G		2				

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
	4/16/02	16:40	
Relinquished By: (2)	Date	Time	Received By:
	4/16/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C:

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

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(1)

CLIENT: BBL

CONTACT: Gregg Rabasco PHONE NO: (413) 822-1184

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-5

REPORTS TO: Nick Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 301.31.001

CT&E Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	Preservatives Used	Analysis Required (3): Standard 8260B VOCs	Full Appendix IX+3 List	REMARKS
	GMA5-8	4/16/02	16:05	Water	14	G		2	12	Filtered PCBs only
										Filtered Metals are to be filtered by the lab
										NOTE: Trip Blank for these samples is #04
										the GMA-2 chain of custody dated 4/16/02

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Gregg Rabasco	4/17/02	16:50	
Relinquished By: (2)	Date	Time	Received By:
	4/17/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No.:
Samples Received Cold? (Circle) YES NO
Temperature: °C

Special Deliverable Requirements:
Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

0-720 9/00

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0L9005

(1)
CLIENT: BB+L
CONTACT: B. Eulian PHONE NO: ( )
PROJECT: Ground Water Sampling SITE: GE Pittsfield
REPORTS TO: Nick Smith
B. Eulian FAX NO: (315) 445-5191
INVOICE TO: B. Eulian P.O. NUMBER: 301.31.001

CT&E Reference:

PAGE 1 OF 1

(2) LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)
	GMA5-4	5/2/02	1150	Water	12	G
	Trip Blank	5/2/02	—	water	2	G

Preservatives Used: 4°C | 4°C | 4°C | HNO3 | 4°C | HCl | 4°C | 4°C with zero headspace | —

Analysis Required (3):

PCBs Filtered	PCBs Unfiltered	METALS Filtered	METALS Unfiltered	SVOCs	VOCs	PESTICIDE/HERBICIDES	CYANIDE/SULFIDES	DIOXINS/FURANS	REMARKS
X	X	X	X	X	X	X	X	X	Filtered PCB's & Filtered Metals to filtered by Lab

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
David E. Fuller	5/2/02	1500	Brian Wood
Relinquished By: (2) Brian Wood	5/2/02		Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)
Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:
Special Deliverable Requirements:
Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
STANDARD TURNAROUND TIME

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA5-1
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA5
Sampling Personnel DEG / JTG
Date 4/12/02 Time In / Out 0800 / 1300
Weather Sunny 50's

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	2"	—
Well Depth	15.52	
Screen Interval Depth	-	5.72-10.72
Water Table Depth	9.13	—
Intake Depth of Pump/Tubing	~12	—

Pump Start Time 8:12
Pump Stop Time 1240
Sample Time 1050
Sample ID GMA5-1
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	6.39
Volume of Water in Well	1.04 gallons
Minutes of Pumping	

EVACUATION INFORMATION

Volume of water removed from well 56ml
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: GEOTECH GeoPump Z
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba Flow thru cell / 2100P Hach turbidity met

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
8:30	180ml		9.65	—	7.73	7.45	2.70	1/31	0.0	-135
8:35	250ml		9.76	—	7.96	7.47	2.69	-2/29	0.0	-139
8:40	160ml		10.11	—	8.09	7.48	2.70	37	0.0	-144
8:50	220ml		10.50	—	7.80	7.50	2.74	41	0.0	-147
9:00	160 ml		10.87	—	8.00	7.52	2.77	50	0.0	-151
9:10	160 ml		11.16	—	8.27	7.53	2.77	59	0.0	-153
9:20	140 ml		11.45	—	8.44	7.52	2.79	59	0.0	-155
9:30	120 ml		11.62	—	8.81	7.50	2.78	62	0.0	-155
9:40	100ml		11.69	—	9.34	7.49	2.77	59	0.0	-155
9:50	80ml		11.69	—	9.80	7.48	2.78	44	0.0	-154
1000	80ml		11.63	—	10.36	7.47	2.77	37	0.0	-153
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS initial purge water was found to have slight odor and light brown/yellow in color. after readings were taken @ 8:30 / 8:35 it was determined that U-22 Horiba turbidity is not working. The 2100P Hach turbidity meter was used for all readings
SAMPLE DESTINATION - Samples clear, colorless, odorless

Laboratory: CT&E
Delivered Via: Courier
Airbill #: N/A
Field Sampling Coordinator: CAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA5-1 | Site Name
Key No. | Sampling Personnel
PID Background (ppm) | Date | Time In / Out
Well Headspace (ppm) | Weather

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing		
Height of Ref. Pt. Relative to Grade		
Well Diameter		
Well Depth		
Screen Interval Depth		
Water Table Depth		
Intake Depth of Pump/Tubing		

Pump Start Time
Pump Stop Time
Sample Time
Sample ID
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y N

SEE Page 1

WELL WATER INFORMATION

Length of Water Column	
Volume of Water in Well	
Minutes of Pumping	

EVACUATION INFORMATION

Volume of water removed from well
Did well go dry? Y N
Evacuation Method: Bailer ( ) Pump ( )
Pump Type:
~~Water Quality Meter Type(s) / Serial Numbers:~~

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1010	80 ml		11.57	—	10.91	7.45	2.78	34	0.0	-150
1020	80ml		11.52	—	11.75	7.44	2.77	27	0.0	-148
1030	100ml		11.56	—	11.76	7.43	2.76	24	0.0	-143
1040	80 ml		11.55	—	9.30	7.44	2.72		0.0	-152
Final 1240	BOM	5	11.55	—	9.18	7.45	2.65	4	0.0	-158

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Delivered Via:
Airbill #:
Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA5-2
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA-5
Sampling Personnel JSB/DLH
Date 9/16/02 Time In / Out 0730 / 1040
Weather 60°F SUNNY

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	YES	
Height of Ref. Pt. Relative to Grade		.22'
Well Diameter	2"	
Well Depth	21.02'	
Screen Interval Depth		5.9'-20.9'
Water Table Depth	9.42'	
Intake Depth of Pump/Tubing	15.0'	

Redevelop? Y (N)

Pump Start Time 0740
Pump Stop Time [redacted] 1030
Sample Time 0830
Sample ID GMA5-2
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify) AMENDED TCL + 3 LIST

* DUP-5 TAKEN HERE

WELL WATER INFORMATION

Length of Water Column	11.6'
Volume of Water in Well	1.90 GAL.
Minutes of Pumping	120 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 6.5 GAL.
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0740	150ml.	.20	9.42'		12.53	6.80	1.16	88	10.36	-95
0745	150ml.	.40	9.43'		11.61	6.65	1.09	80	2.64	-29
0750	150ml.	.60	9.43'		11.53	6.66	1.05	65	2.69	-27
0755	150ml.	.80	9.43'		11.92	6.64	1.04	52	2.65	-26
0800	150ml.	1.0	9.43'		11.52	6.64	1.03	44	2.59	-23
0805	150ml.	1.2	9.43'		11.51	6.63	1.00	35	2.57	-21
0810	150ml.	1.4	9.43'		11.50	6.63	1.02	27	2.57	-20
0815	150ml.	1.6	9.43'		11.50	6.60	1.02	14	2.54	-18
0820	150ml.	1.8	9.43'		11.52	6.59	1.02	9	2.52	-18
Final	150ml.	6.5 GAL	9.42'		11.84	6.72	1.00		2.44	-17

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC'S COLLECTED UTILIZING A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: CLOUDY, MODERATELY TURBID, NO SHEEN, NO ODOR
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, NO ODOR

SAMPLE DESTINATION

Laboratory: CT & E, CHARLESTON, WV
Delivered Via: CT & E COURIER
Airbill #:

Field Sampling Coordinator: JSB

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 5-3
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-5
Sampling Personnel GAR/JTG
Date 4/12/02 Time In / Out 11:30 / 15:45
Weather Sunny, 60-65°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-4"	
Well Diameter	2"	
Well Depth	24.75'	
Screen Interval Depth	10'-25'	
Water Table Depth	16.79'	
Intake Depth of Pump/Tubing	20.3'	

Redevelop? Y N

Pump Start Time 12:00
Pump Stop Time 15:20
Sample Time 12:50
Sample ID GMA 5-3
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B - VOCs
Appendix IX+3 List

WELL WATER INFORMATION

Length of Water Column	7.96'
Volume of Water in Well	1.30 gallons
Minutes of Pumping	200

EVACUATION INFORMATION

Volume of water removed from well 7.5 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba - U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
12:10	250ml		17.00		12.8	7.24	0.895	130	2.00	-95
12:15	150ml		17.15		12.6	7.17	0.900	80	0.47	-97
12:20	150ml		17.18		12.5	7.17	0.902	45	0.16	-99
12:25	150ml		17.21		12.4	7.17	0.907	35	0.04	-100
12:30	150ml		17.23		12.5	7.18	0.919	28	0.01	-101
12:35	150ml		17.23		12.5	7.18	0.922	24	0.00	-100
12:40	150ml		17.23		12.5	7.19	0.929	18	0.00	-100
12:45	150ml		17.23		12.6	7.18	0.930	10	0.03	-100
Final	—		17.28		12.7	7.20	0.935	11	0.80	-97

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Light-brown, ~~odorless~~, no sheen, slight NAPL odor
Final Purge: Clear, ~~odorless~~, no sheen, slight NAPL odor
Hach Turbidity Readings: 12:30: 17 ntu 12:40: 9 ntu 12:50: 8 ntu
** Weston/EPA collected a split sample for Full Appendix IX+3 Analysis **

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 5 - 4
Key No. FX - 37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA 5
Sampling Personnel B. HATCH D. GRILLS
Date 5/2/02 Time In / Out 1030
Weather 55°F RAIN

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	[illegible]	.2'
Well Diameter	2"	
Well Depth	18.04	
Screen Interval Depth		8.09 - 18.09
Water Table Depth	7.27	
Intake Depth of Pump/Tubing		13.09

Pump Start Time ~~1115~~ 1115
Pump Stop Time 1220
Sample Time 1150
Sample ID GMA5 - 4

Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
FULL APPENDIX IX +3

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	10.77
Volume of Water in Well	1.75 gal
Minutes of Pumping	~ 65

EVACUATION INFORMATION

Volume of water removed from well ~ 5.0
Did well go dry? Y (N)

Evacuation Method: Bailer (X) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORRIBA U22 WATER QUALITY METER.

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1115	.300	.396	7.34	—	8.3	6.73	0.89	47	2.40	-29
1120	.300	.792	7.34	—	8.6	6.73	0.89	30	1.42	-33
1125	.300	1.18	7.34	—	8.7	6.73	0.89	18	1.15	-32
1130	.300	1.58	7.34	—	8.8	6.72	0.89	11	1.79	-25
1135	.300	1.98	7.34	—	8.8	6.72	0.89	8	1.63	-26
1140	.300	2.37	7.34	—	8.9	6.72	0.89	7	1.69	-26
1145	.300	2.77	7.34	—	8.9	6.72	0.89	5	1.55	-25
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: SLIGHTLY TURBID, CLEAR, NO ODOR, NO SHEEN.
FINAL PURGE: SLIGHTLY TURBID, CLEAR, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT + E
Delivered Via: CT + E COURRIER
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMAS-5
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMAS
Sampling Personnel DEG/JTG
Date 4/15/02 Time In / Out 0800 /
Weather Sunny 60°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	4	
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	2"	—
Well Depth	21.37	—
Screen Interval Depth	—	6.77 - 21.77
Water Table Depth	9.95	—
Intake Depth of Pump/Tubing	—	~15

Pump Start Time 0827
Pump Stop Time 1300
Sample Time 0940
* Sample ID GMA5-5 MS/MSD *
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	11.42'
Volume of Water in Well	1.86'
Minutes of Pumping	273 mm.

EVACUATION INFORMATION

Volume of water removed from well ~4 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: GEOTECH GEOpump 2
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba w/ Flow Through Cell and 2100P Hach Turbidity Meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
8:45	180ml	INITIAL	10.01	—	10.89	6.51	.722	190/45	0.64	-55
8:50	180ml		10.01	—	10.02	6.54	.748	120/31	1.90	-71
8:55	180ml		10.01	—	10.21	6.55	.737	71/26	2.27	-84
09:00	180ml		10.01	—	10.32	6.56	.729	51/25	3.10	-89
09:10	180ml		10.01	—	10.59	6.56	.736	70/20	2.39	-87
09:20	180ml		10.01	—	11.02	6.57	.734	41/12	2.70	-87
09:30	180ml		10.01	—	11.36	6.58	.734	39/12	2.82	-86
09:40	180ml		10.01		12.23	6.59	.736	29/9	3.00	-86
Final		~4 gallons								

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge = slight odor / light Brown in color

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 5 - 6
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.1

Site Name GMA 5
Sampling Personnel JSB / GRH
Date 4/16/02 Time In / Out 1030 / 1400
Weather 74°F, SUNNY

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	YES	
Height of Ref. Pt. Relative to Grade		.32
Well Diameter	2"	
Well Depth	15.44'	
Screen Interval Depth		5.4' - 15.4'
Water Table Depth	6.64'	
Intake Depth of Pump/Tubing	11.0'	

Redevelop? Y (N)

Pump Start Time 1100
Pump Stop Time 1350
Sample Time 1150
Sample ID GMA 5-6
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify) APPENDIX IX+3 LIST
* SPLIT W/ WESTON (AMY STEELE) for Appendix IX+3 List

WELL WATER INFORMATION

Length of Water Column	8.80'
Volume of Water in Well	1.43 GALLONS
Minutes of Pumping	170 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 7.0 GAL
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1100	150 ml.	.20	6.64'		13.01	6.36	1.60	435	4.26	-69
1105	150 ml.	.40	6.64'		12.80	6.59	1.56	292	4.22	-82
1110	150 ml.	.60	6.64'		12.86	6.56	1.55	112	4.17	-77
1115	150 ml.	.80	6.64'		12.81	6.75	1.47	96	3.92	-70
1120	150 ml.	1.0	6.64'		12.75	6.59	1.44	61	3.86	-61
1125	150 ml.	1.2	6.64'		12.38	6.60	1.36	38	3.40	-60
1130	150 ml.	1.4	6.64'		12.25	6.62	1.36	31	2.68	-61
1135	150 ml.	1.6	6.64'		12.19	6.63	1.34	16	2.48	-61
1140	150 ml.	1.8	6.64'		12.18	6.64	1.34	8	2.46	-62
1145	150 ml.	2.0	6.64'		12.18	6.65	1.33	3	2.45	-63
Final	150 gl.	7.0 GAL.	6.69'		11.28	6.65	1.32	4	2.32	-64

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC'S COLLECTED UTILIZING A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: RUST COLORED, MODERATELY TURBID, NO SHEEN, NO ODOR.
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, NO ODOR

SAMPLE DESTINATION

Laboratory: CT&E, CHARLESTON, WV
Delivered Via: CT&E COURIER
Airbill #:

Field Sampling Coordinator: JSB

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA5-7
Key No. 2537
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-5
Sampling Personnel GAR / JDB
Date 4/16/02 Time In / Out 9:45 / 13:15
Weather Sunny, 75-80° F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-5"	
Well Diameter	2"	
Well Depth	27.70'	
Screen Interval Depth	8.5'-28.5'	
Water Table Depth	13.87'	
Intake Depth of Pump/Tubing	20.8'	

Pump Start Time 10:15
Pump Stop Time 12:55
Sample Time 11:10
Sample ID GMA5-7

Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)

Full Appendix 1X+3 List
standard 8260B VOCs

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	13.83'
Volume of Water in Well	2.26'
Minutes of Pumping	160

EVACUATION INFORMATION

Volume of water removed from well 8 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:20	150ml		15.40		14.3	7.63	0.550	94	5.83	96
10:25	180ml		15.41		12.3	7.88	0.521	50	2.66	83
10:30	180ml		15.43		11.8	7.96	0.500	45	1.63	60
10:35	180ml		15.43		11.8	8.07	0.496	41	1.22	17
10:40	180ml		15.43		11.8	8.14	0.494	39	1.10	-12
10:45	180ml		15.40		12.0	8.18	0.498	41	0.86	-37
10:50	180ml		15.38		12.2	8.19	0.502	40	0.73	-54
10:55	180ml		15.45		12.3	8.19	0.505	37	0.67	-61
11:00	180ml		15.43		12.2	8.20	0.502	36	0.83	-72
Final	—		15.50		12.0	8.22	0.503	30	0.90	-75

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge - Clear, odorless, no sheen, red-brown floating sediment
Final Purge - Clear, odorless, no sheen
Hach Turbidity Readings: 10:50: 5 ntu 11:00: 5 ntu
** Weston/EPA collected a split sample for Full Appendix 1X+3 Analysis **

SAMPLE DESTINATION

Laboratory: CTYE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA5-8
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-5
Sampling Personnel GAR/JDB
Date 4/16/02 Time In / Out 14:20 / 18:10
Weather Sunny, 80 85°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-3"	
Well Diameter	2"	
Well Depth	17.57'	
Screen Interval Depth	8' - 18'	
Water Table Depth	11.77'	
Intake Depth of Pump/Tubing	14.7'	

Redevelop? Y N

Pump Start Time 15:05
Pump Stop Time 17:50
Sample Time 16.05
Sample ID GMA5-8
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B - VOCs
Full Appendix IX+3 List

WELL WATER INFORMATION

Length of Water Column	5.8'
Volume of Water in Well	0.95 gallon
Minutes of Pumping	165

EVACUATION INFORMATION

Volume of water removed from well 9 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
15:10	200ml		11.87		15.5	7.38	0.602	106	7.57	-74
15:15	180ml		11.85		11.9	7.93	0.591	90	0.38	-110
15:20	175ml		11.82		10.6	7.91	0.569	75	0.00	-162
15:25	175ml		11.83		10.3	7.88	0.569	62	0.00	-202
15:30	175ml		11.83		10.2	7.76	0.572	50	0.00	-216
15:35	175ml		11.83		10.3	7.59	0.576	35	0.00	-216
15:40	175ml		11.83		10.3	7.50	0.579	33	0.00	-209
15:45	175ml		11.83		10.5	7.38	0.583	25	0.00	-202
15:50	175ml		11.83		10.3	7.30	0.585	19	0.00	-196
15:55	175ml		11.83		10.3	7.26	0.587	15	0.00	-191
16:00	175ml		11.83		10.3	7.23	0.587	14	0.00	-188
Final	—		11.85		10.3	7.28	0.590	10	0.00	-180

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Light-brown, organic odor, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Reading: 15:30: 33 ntu 15:40: 18 ntu 15:50: 10 ntu 16:00: 8 ntu
** Weston/EPA collected a split sample for Full Appendix IX+3 Analysis **

SAMPLE DESTINATION

Laboratory: CTYE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

Appendix C

Hydraulic Conductivity Data

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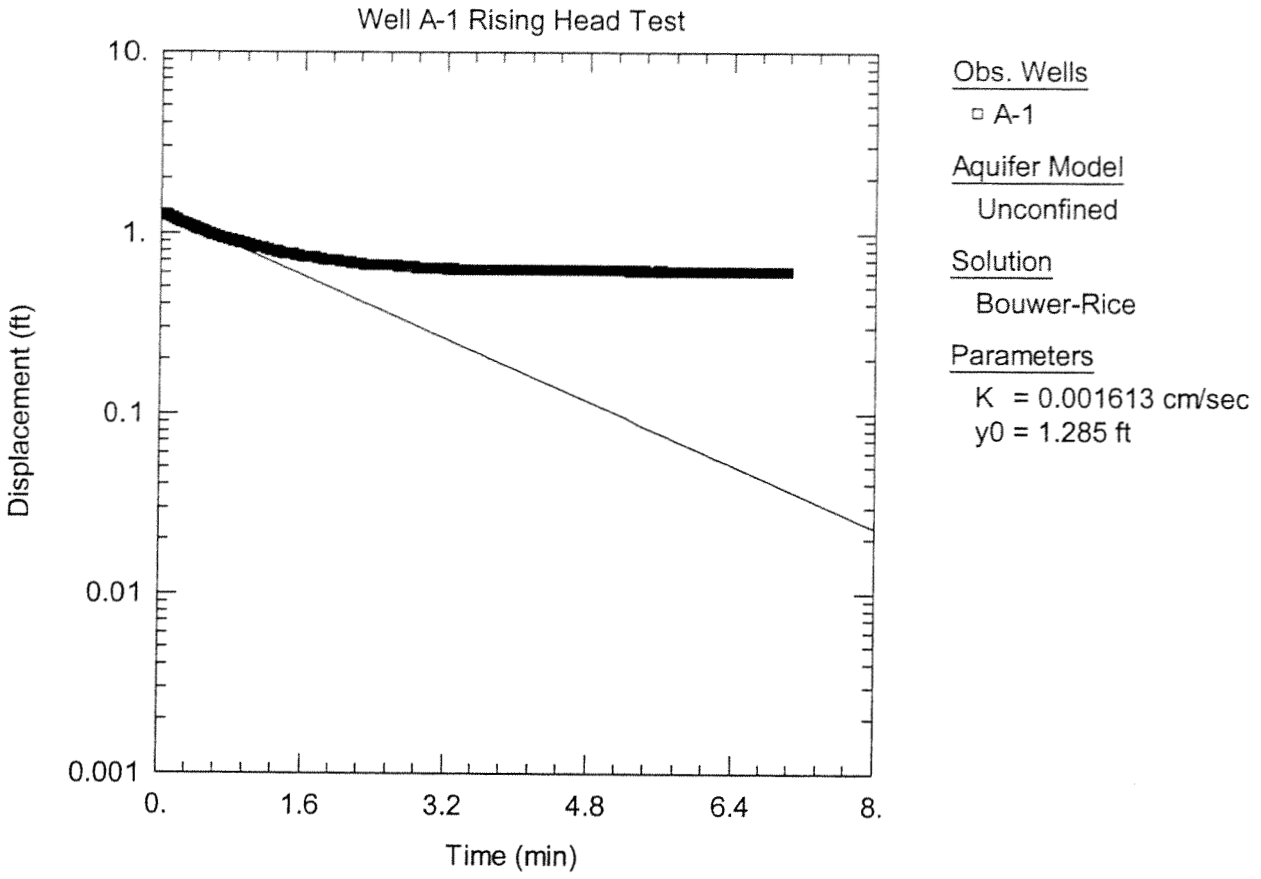

Figure C-1. Curve matching and calculation for hydraulic conductivity for monitoring well A-1.

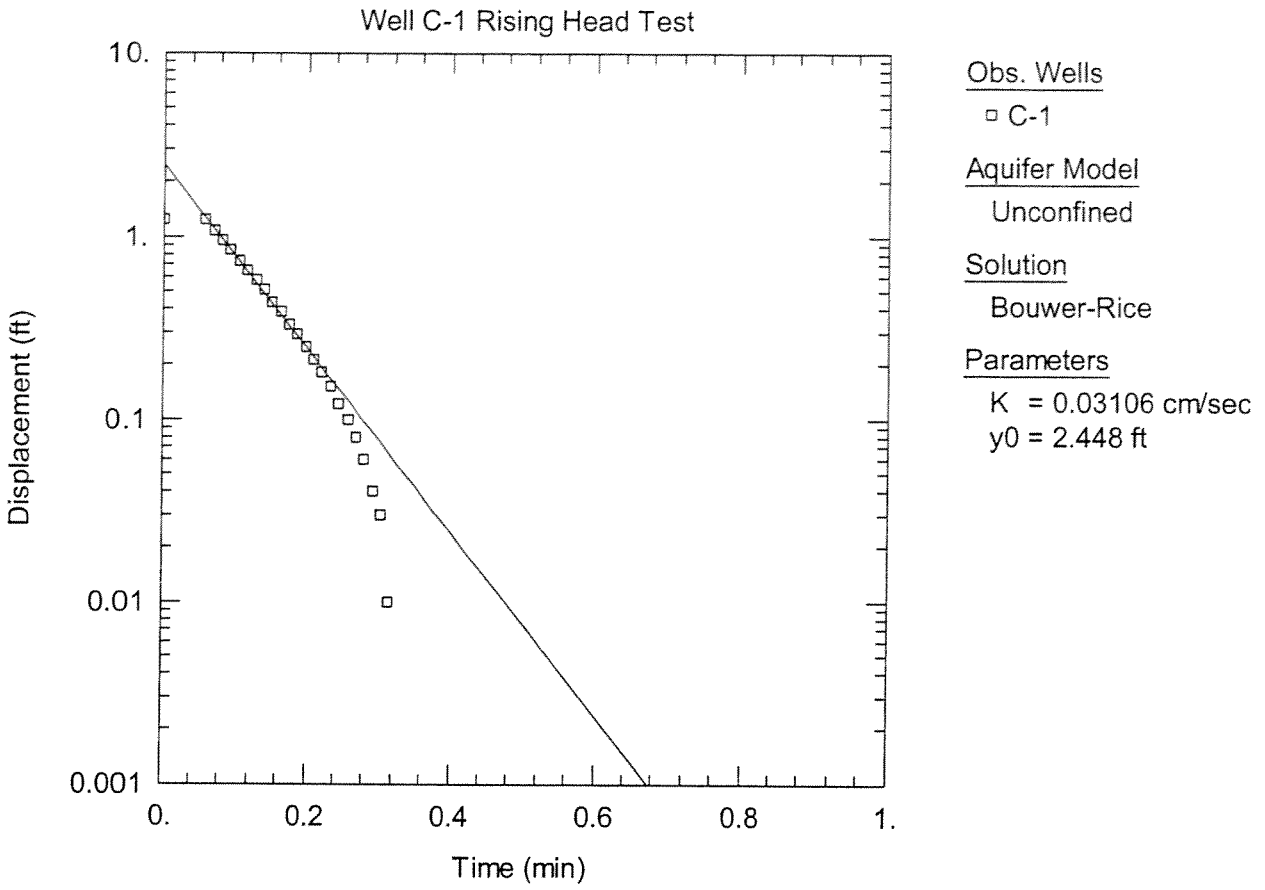

Figure C-2. Curve matching and calculation for hydraulic conductivity for monitoring well C-1.

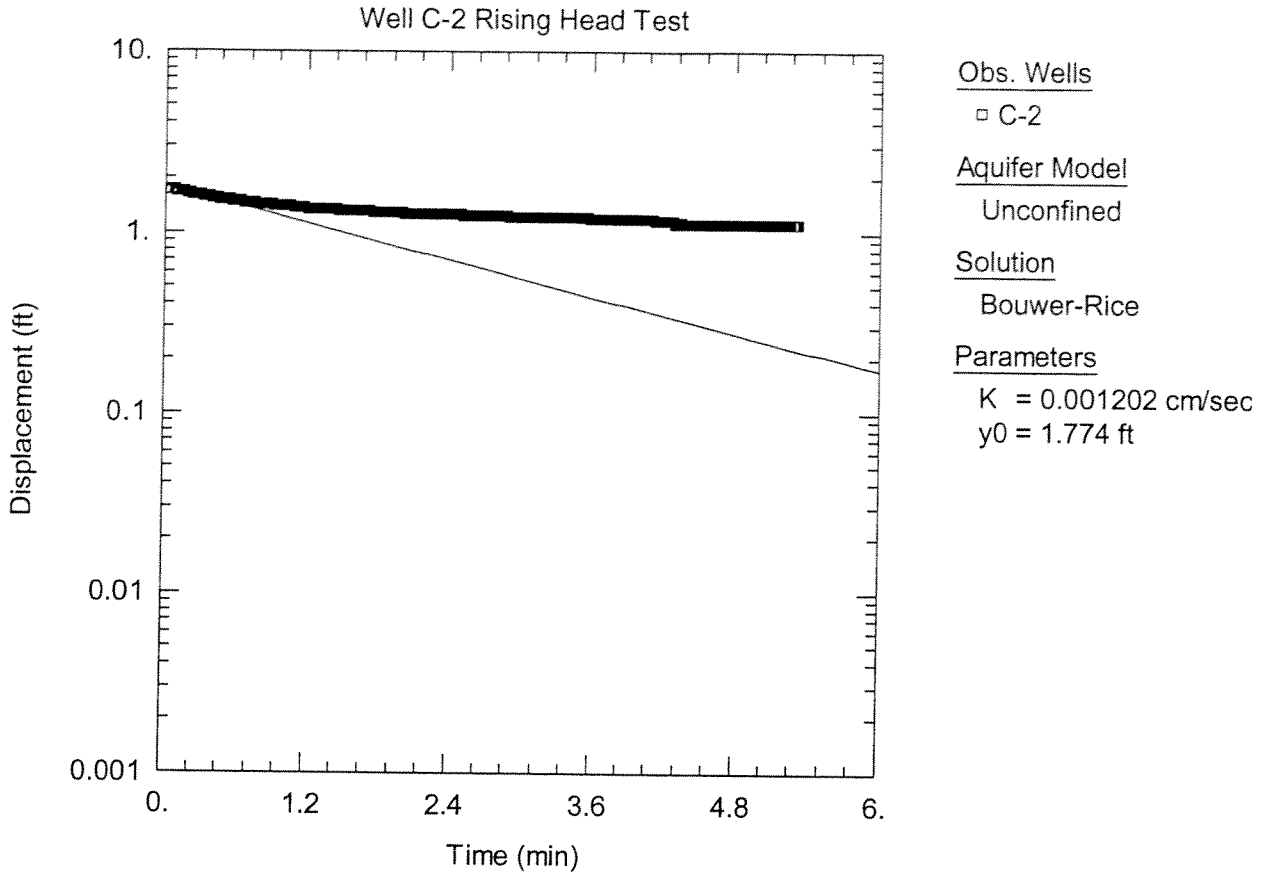

Figure C-3. Curve matching and calculation for hydraulic conductivity for monitoring well C-2.

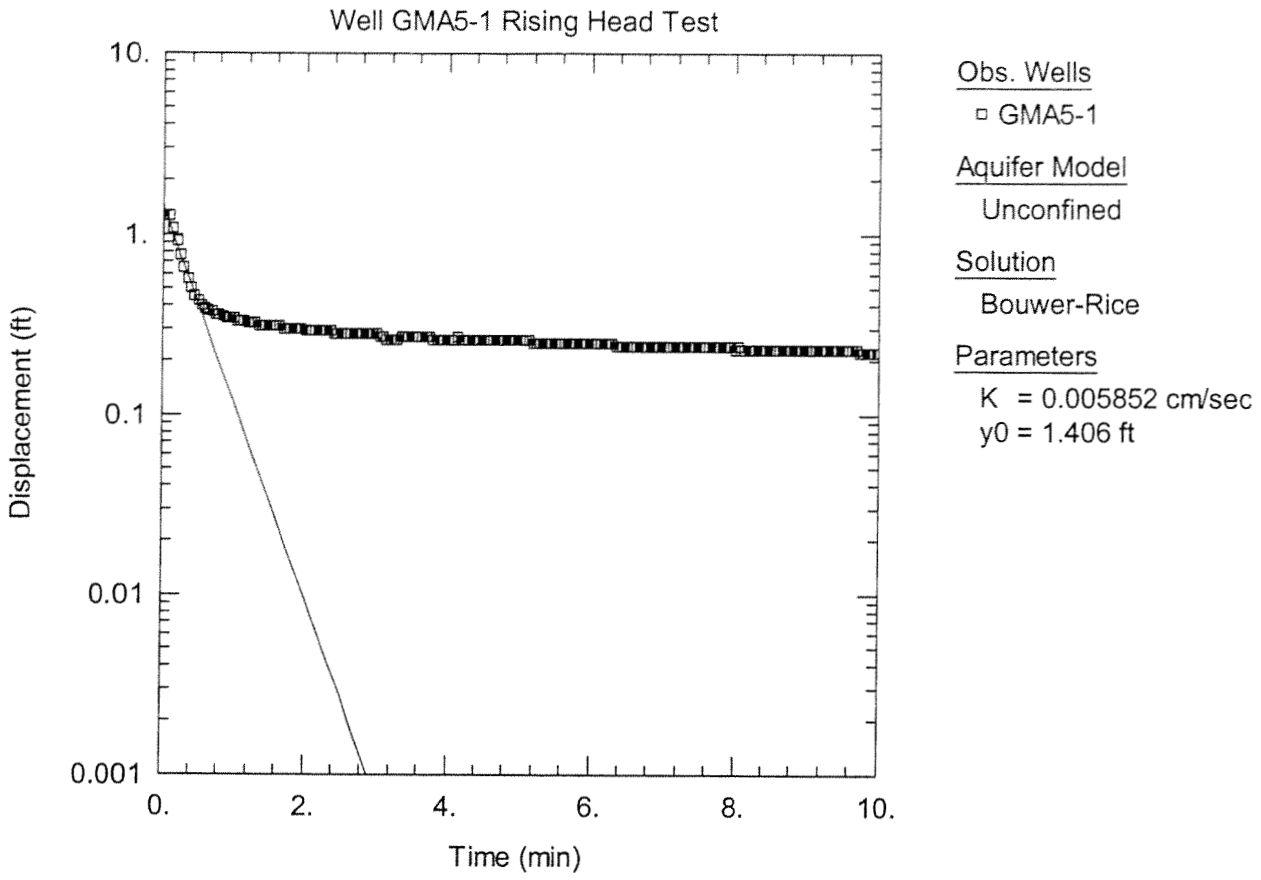

Figure C-4. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-1.

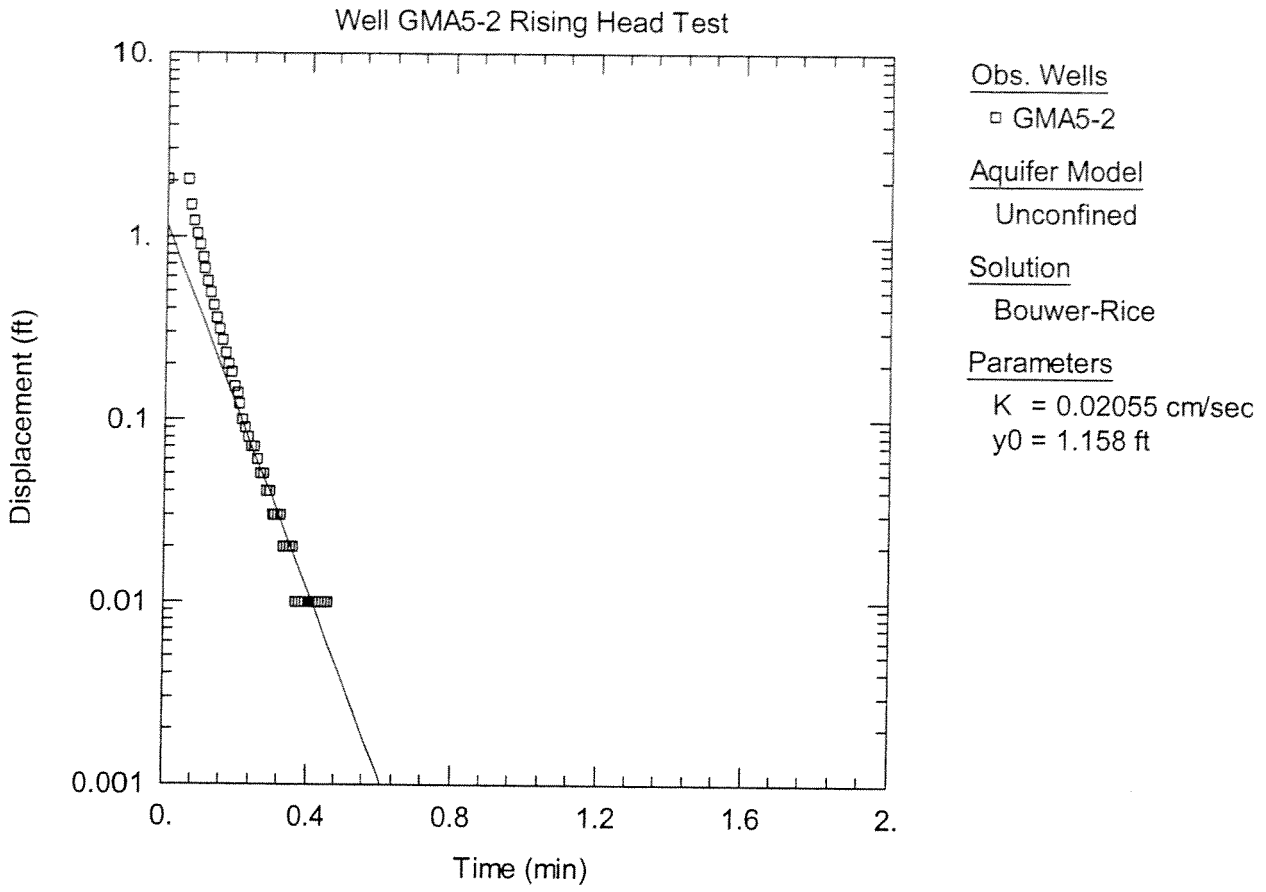

Figure C-5. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-2.

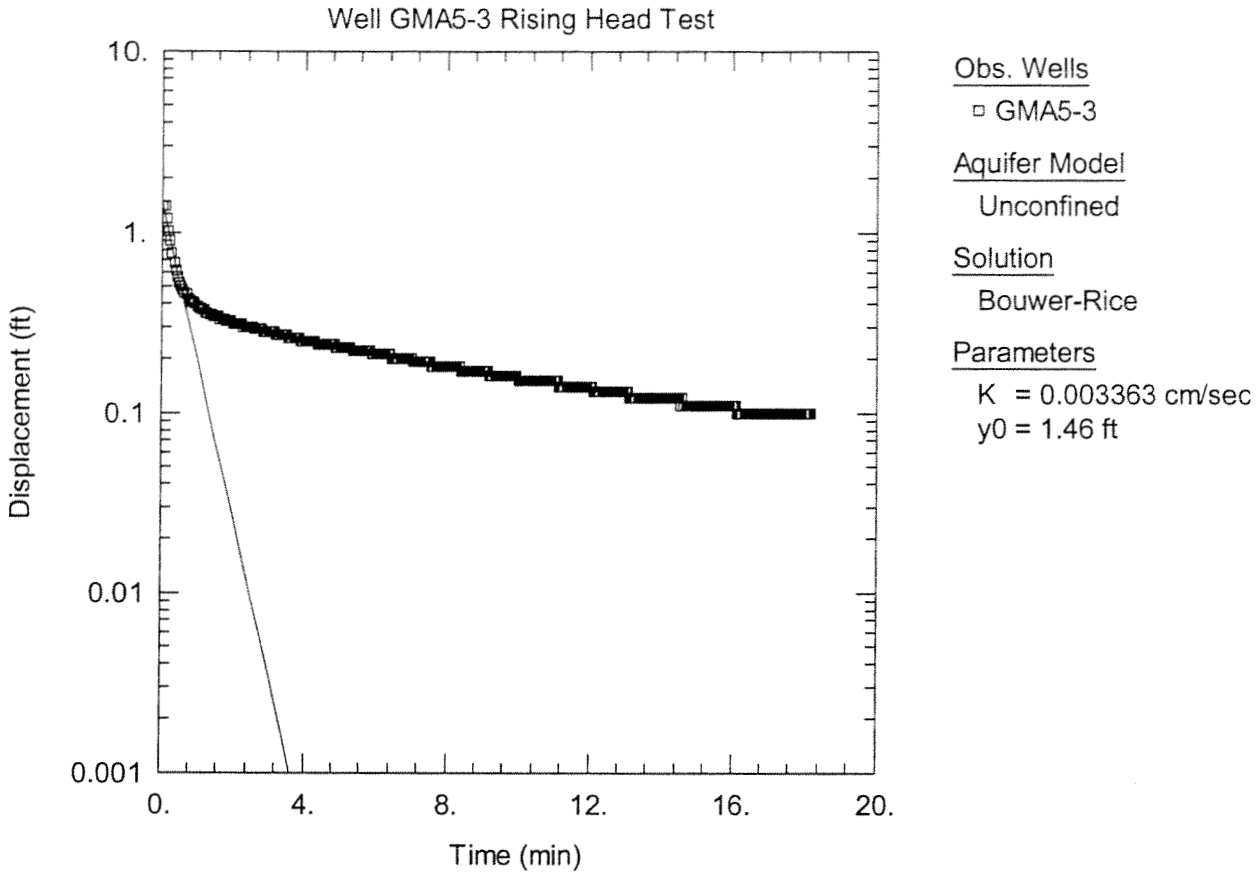

Figure C-6. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-3.

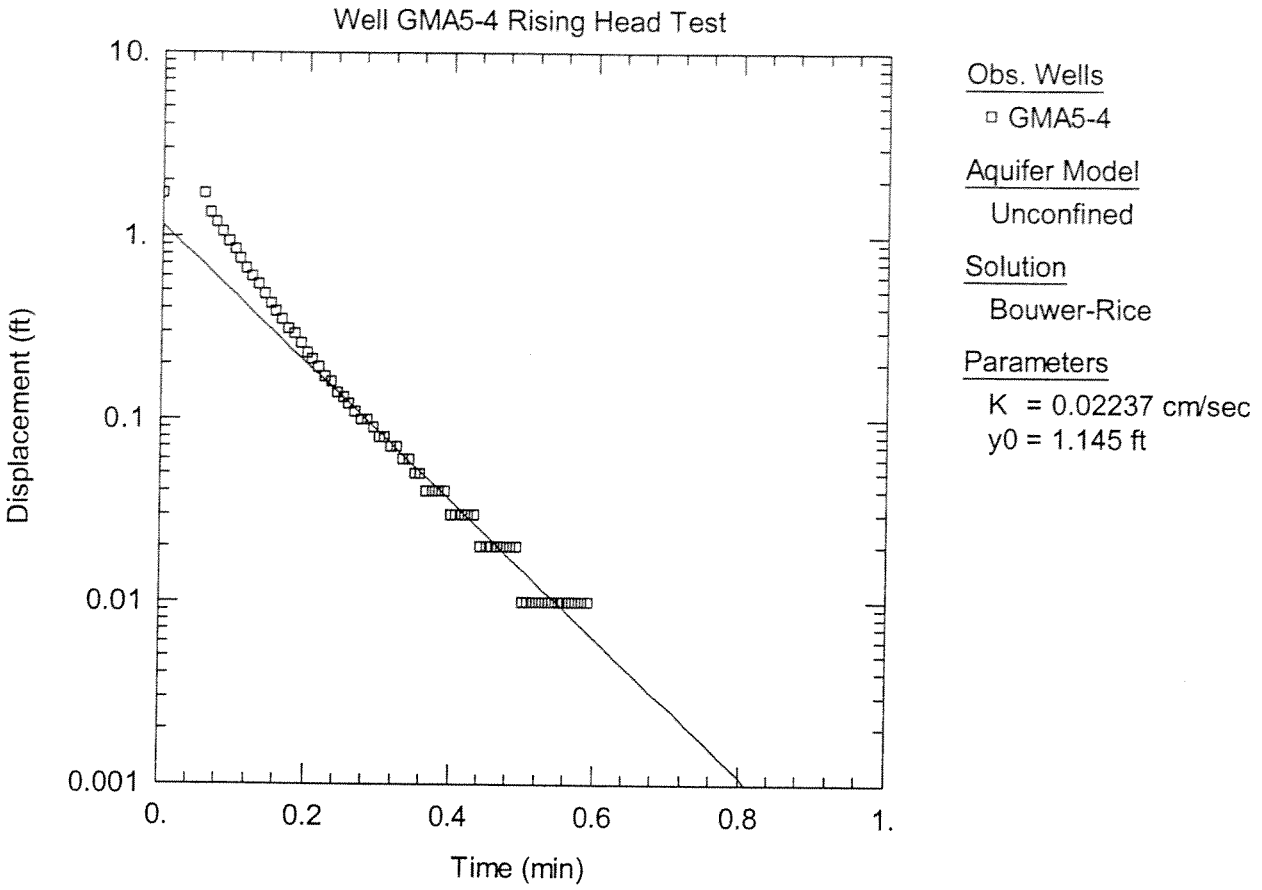

Figure C-7. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-4.

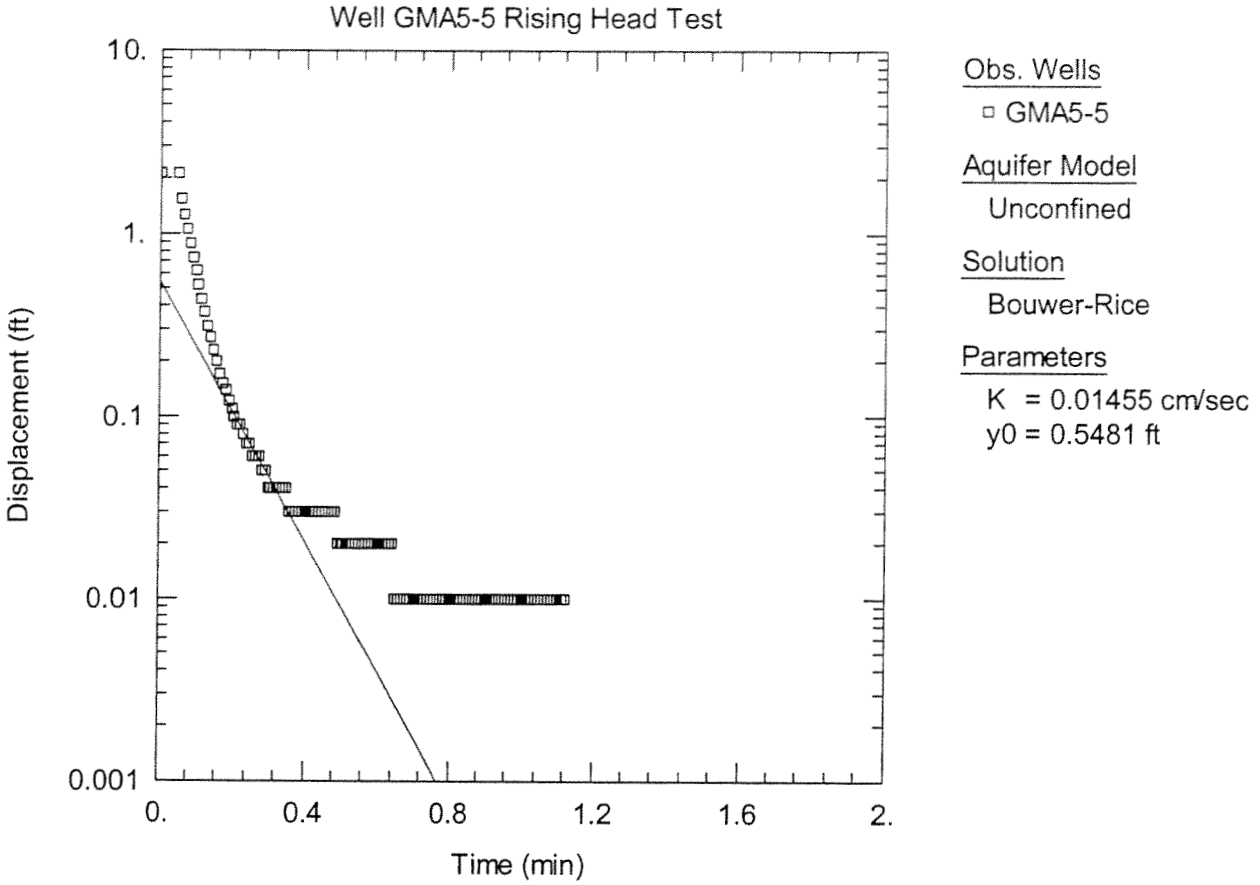

Figure C-8. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-5.

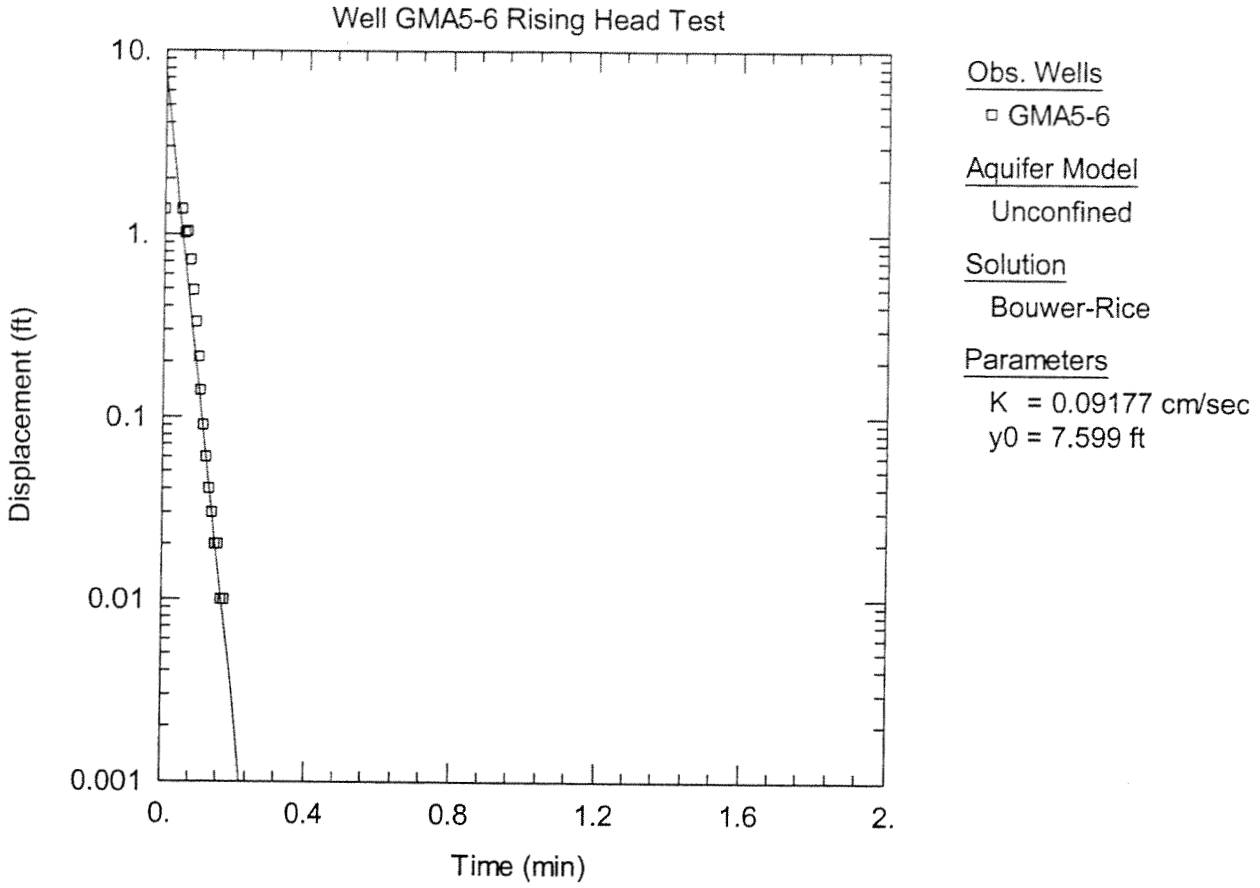

Figure C-9. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-6.

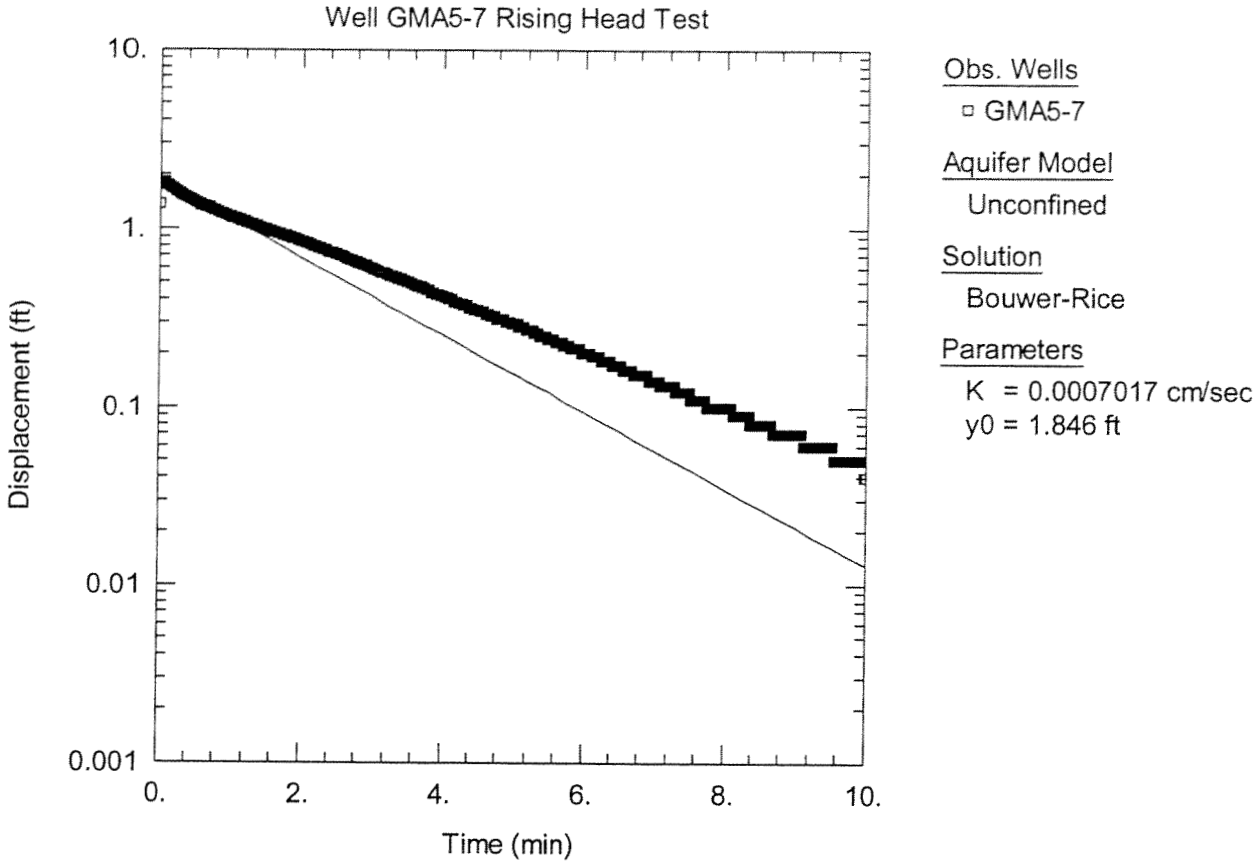

Figure C-10. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-7.

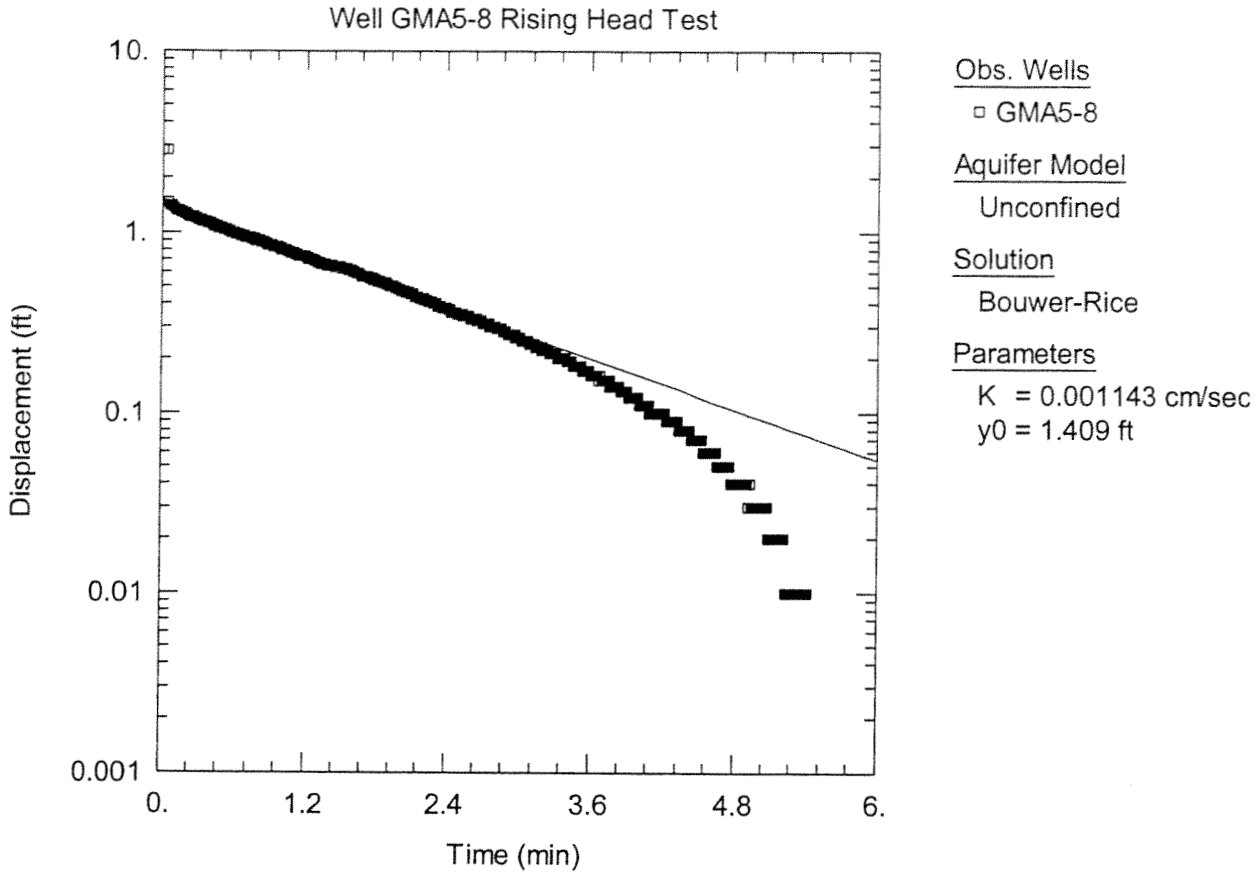

Figure C-11. Curve matching and calculation for hydraulic conductivity for monitoring well GMA5-8.

Appendix D

Data Validation Report

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APPENDIX D

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5

SPRING 2002 GROUNDWATER SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data review performed for groundwater samples collected at the Groundwater Management Area 5 (GMA 5) located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3), by CT&E Environmental Services Inc. of Charleston, West Virginia. Data validation was performed for 16 polychlorinated biphenyl (PCB) samples, 10 volatile organic compound (VOC) samples, 8 semi-volatile organic compound (SVOC) samples, 8 pesticide/herbicide samples, 8 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 16 metals samples, and 8 cyanide/sulfide samples that were collected.

2.0 Data Evaluation Procedures

This attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- *Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts*, Blasland, Bouck & Lee, Inc. (FSP/QAPP; approved October 17, 2000);
- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I (July 1, 1993);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses,* USEPA Region I (June 13, 1988) (Modified February 1989);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (February 1, 1988) (Modified November 1, 1988);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996); and,
- *National Functional Guidelines for Dioxin/Furan Data Validation, USEPA (Draft, January 1996).*

A tabulated summary of the Tier I and Tier II data evaluation is presented in Table D-1. Each sample subjected to evaluation is listed in Table D-1 to document that data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was applied. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification.

The following data qualifiers have been used in this data evaluation.

J — The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at estimated concentrations less than the practical quantitation limit (PQL).

U — The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detected sample results are presented as ND(PQL) within this report and in Table D-1 for consistency with previous documents prepared for this investigation.

UJ — The compound or analyte was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual level of quantitation. Non-detected sample results that required qualification are presented as ND(PQL) J within this report and in Table D-1 for consistency with previous documents prepared for this investigation.

R — Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purposes.

3.0 Data Validation Procedures

The FSP/QAPP provides (in Section 7.5) that all analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (USEPA guidelines). Accordingly, 100% of the analytical data for these investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *USEPA Region I CSF Completeness Evidence Audit Program* (USEPA Region I, 7/31/91), to ensure that all laboratory data and documentation were present. A tabulated summary of the samples subjected to Tier I and Tier II data evaluation is presented below.

Summary of Samples Subjected to Tier I and Tier II Data Validation

	Tier I Only			Tier I &Tier II			
Parameter	**Samples**	**Duplicates**	**Blanks**	**Samples**	**Duplicates**	**Blanks**	**Total**
PCBs	4	0	0	10	2	0	16
VOCs	0	0	0	7	1	2	10
SVOCs	0	0	0	7	1	0	8
Pesticides/ Herbicides	6	1	0	1	0	0	8
PCDDs/PCDFs	0	0	0	7	1	0	8
Metals	6	0	0	8	2	0	16
Cyanide/Sulfide	8	0	0	0	0	0	8
Total	24	1	0	40	7	2	74

In the event that data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the USEPA Region I Tier I data completeness requirements.

As specified in the FSP/QAPP, approximately 25% of the laboratory sample delivery group packages were randomly chosen to be subjected to a Tier II review. A Tier II review was also performed to resolve data usability limitations that were identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Due to the variable sizes of the data packages and the number of data qualification issues identified during the Tier I review, approximately 66% of the data were subjected to a Tier II review. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies. Additionally, all field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in the USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for each analytical method.

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average relative response factor (RRF) have a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Initial Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	10	J
	2-Chloroethylvinylether	10	J
	Acetone	10	J
	Acetonitrile	10	J
	Acrolein	10	J
	Acrylonitrile	10	J
	Isobutanol	10	J
	Propionitrile	10	J
SVOCs	4-Phenylenediamine	8	J

Several of the organic compounds (including the compounds presented in the table above detailing RRF deviations) exhibit instrument response factors (RFs) that are below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detected compound results associated with a RF less than

the minimum value of 0.05 are to be rejected. In the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected samples results were qualified as an estimate (J).

The continuing calibration criterion requires that the %D between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as approximated (J). A summary of the compounds that exceeded continuing calibration criterion and the number of samples qualified due to those deviations are identified below.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Vinyl Acetate	3	J
SVOCs	1,3-Dinitrobenzene	2	J
	2,3,4,6-Tetrachlorophenol	6	J
	2,6-Dinitrotoluene	7	J
	4,6-Dinitro-2-methylphenol	2	J
	4-Chlorobenzilate	6	J
	4-Nitroquinoline-1-oxide	5	J
	a,a'-Dimethylphenethylamine	7	J
	Aramite	6	J
	Hexachlorophene	1	J
	Hexachloropropene	8	J
	Methapyrilene	1	J
	Pentachloronitrobenzene	6	J
	Sulfotepp	5	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80 and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries exceeded the 80 to 120% control limits, the affected samples with detected results at or near the PQL concentration (less than three times the PQL) were qualified as approximated (J). The analyte that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented below.

Analytes Qualified Due to CRDL Deviations

Analysis	Analytes	Number of Affected Samples	Qualification
Inorganics	Lead	10	J
	Thallium	10	J

Field, laboratory, and method blanks were analyzed to evaluate whether field sampling equipment or laboratory background contamination may have contributed to the reported sample results. When detected analytes were identified in a blank sample, blank action levels were calculated at 10 times the blank concentrations for the common laboratory contaminant compounds (OCDD and OCDF) and five times the blank concentration for all other detected analytes. Detected sample results below the blank action level were qualified with a "U." The compound detected in the method blank, and which resulted in qualification of sample data, are presented below.

Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	1,2,3,4,7,8-HxCDF	1	
	1,2,3,7,8-PeCDF	2	
	HxCDFs (total)	3	
	OCDD	1	
	PeCDFs (total)	3	

Internal standard compound recovery criteria for PCDD/PCDF analysis require that spike recoveries must be within the laboratory-generated QC acceptance limits specified on the internal standard reporting form. Internal standard compounds that exceeded recovery criteria resulted in the qualification of sample results for compounds that were quantified with the deviant standard. Sample results for the associated compounds were qualified as approximated (J) when the internal standard recovery was standard less than the lower limit, but greater than 10%. PCDDs/PCDFs associated with the internal standard which exceeded the recovery criteria and the number of samples qualified due to those deviations are identified below.

Compounds Qualified Due to Internal Standard Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	1,2,3,4,7,8-HxCDD	1	J
	1,2,3,4,7,8-HxCDF	1	J
	1,2,3,6,7,8-HxCDD	1	J
	1,2,3,6,7,8-HxCDF	1	J
	1,2,3,7,8,9-HxCDD	1	J
	1,2,3,7,8,9-HxCDF	1	J
	1,2,3,7,8-PeCDD	2	J
	1,2,3,7,8-PeCDF	2	J
	2,3,4,6,7,8-HxCDF	1	J
	2,3,4,7,8-PeCDF	2	J
	2,3,7,8-TCDD	2	J
	2,3,7,8-TCDF	2	J
	HxCDDs (total)	1	J
	HxCDFs (total)	1	J
	PeCDDs (total)	2	J
	PeCDFs (total)	2	J
	TCDDs (total)	2	J
	TCDFs (total)	2	J

According to laboratory control sample (LCS) analysis recovery criteria for organics, the LCS recoveries must be within the laboratory-generated QC acceptance limits specified on the LCS reporting form. Organic sample results associated with a LCS that exceeded laboratory-generated QC acceptance limits and exhibited a recovery less than 10% were qualified as rejected (R). Organic sample results associated with a LCS that exceeded laboratory-generated QC acceptance limits and exhibited a recovery greater than 10% were qualified as estimated (J). The compound that did not meet LCS recovery criteria and the samples qualified due to those deviations are presented below.

Compounds Qualified Due to LCS Recovery Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
PCDDs/PCDFs	2,3,4,7,8-PeCDF	3	J

Surrogate compounds are analyzed with every organic sample to aid in the evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, at least one of the PCB surrogate compounds must have a recovery within the laboratory specified control limits. Organic analyses require that, at a minimum, the surrogate recoveries must be greater than 10% or the data must be qualified as unusable (R). Sample data for detected and non-detected compounds with surrogates that exceeded the surrogate recovery criteria and exhibited recoveries greater than 10% were qualified as approximate (J). A summary of the compounds affected by surrogate recovery deviation and the samples qualified due to those deviations are shown below.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1016	6	J
	Aroclor-1221	6	J
	Aroclor-1232	6	J
	Aroclor-1242	6	J
	Aroclor-1248	6	J
	Aroclor-1254	6	J
	Aroclor-1260	6	J
	Total PCBs	6	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. For a number of samples, the incorrect amount of surrogate spiking solution was used during extraction procedure. Therefore, the samples were analyzed at no dilution and at a dilution to bring the surrogates within calibration range. None of the data was subject to any qualification due to this method deviation. A summary of the affected samples due to this deviation are shown below.

Analysis	Qualification
PCBs	GMA5-2
	GMA5-5
	GMA5-6
	GMA5-7
	GMA5-8
	DUP-5

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analyses. The percent usability calculation included analyses evaluated under both Tier I and Tier II data validation reviews. The percent usability calculation also includes quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank,

trip blank, and field duplicate data determined to be unusable as a result of the validation process are represented in the percent usability value tabulated below.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
Volatile Organics	100	None
Semivolatile Organics	100	None
PCBs	100	None
Pesticides and Herbicides	100	None
PCDDs/PCDFs	100	None

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the data quality objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, matrix spike/matrix spike duplicate (MS/MSD) samples, and ICP serial dilution samples. For this analytical program, none of the data required qualification for laboratory duplicate RPD, MS/MSD RPD, field duplicate RPD, or ICP serial dilutions.

5.2 Accuracy

Accuracy measures the bias in an analytical system, or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, laboratory control standards (LCSs), MS/MSD samples, contract required detection limit (CRDL) samples, and surrogate compound recoveries. For this analytical program, 6.8% of the data required qualification for calibration deviations, 2.1% of the data required qualification for surrogate compound recovery deviations, 1.2% of the data required qualification for internal standards recovery deviations, 0.13% of the data required qualification for LCS standard recoveries, and 0.89% of the data required qualification for CRDL standard recoveries. None of the data required qualification for MS/MSD recoveries.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling

locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in Agency-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures that were consistent with USEPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical program, none of the data required qualification for exceeding holding time requirements.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846[1] analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (i.e., sample extraction/preparation, instrument calibration, QA/QC procedures, etc.). Through this use of consistent base analytical procedures and by requiring that updated procedures meet the QA/QC criteria specified in the FSP/QAPP, the analytical data from past, present, and future sampling events will be comparable to allow for qualitative and quantitative assessment of site conditions.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set was 100% for individual analytical parameters and had an overall usability of 100%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

[1] Test Methods for evaluating Solid Waste, SW-846, USEPA, Final Update III, December 1996

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
2D0P395	GMA5-1	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-1-filtered	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3-filtered	4/12/2002	Water	Tier I	No						
2D0P455	DUP-5	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	0.000056 J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	27.0%, 25.0%	36.0%-144.%, 30.0%-132.0%	0.000056 J	Incorrect amount of spike solution used during extraction procedure.
2D0P455	DUP-5-filtered	4/16/2002	Water	Tier II	No						Duplicate of GMA5-2
2D0P455	GMA5-2	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	0.000060 J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	28.0%,25.0%	36.0%-144.%, 30.0%-132.0%	0.000060 J	Incorrect amount of spike solution used during extraction procedure.
2D0P455	GMA5-2-filtered	4/16/2002	Water	Tier II	No						
2D0P455	GMA5-5	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	27.0%,20.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
2D0P455	GMA5-5-filtered	4/16/2002	Water	Tier II	No						
2D0P455	GMA5-6	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	0.000067 J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	26.0%,23.0%	36.0%-144.%, 30.0%-132.0%	0.000067 J	Incorrect amount of spike solution used during extraction procedure.
2D0P455	GMA5-6-filtered	4/16/2002									
2D0P455	GMA5-7	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	ND(0.00025) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	ND(0.00025) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	ND(0.00025) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	ND(0.00025) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	ND(0.00025) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	0.000062 J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	0.000031 J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	26.0%,24.0%	36.0%-144.%, 30.0%-132.0%	0.000093 J	Incorrect amount of spike solution used during extraction procedure.
2D0P455	GMA5-7-filtered	4/16/2002	Water	Tier II	No						
2D0P495	GMA5-8	4/16/2002	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1221	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1232	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1242	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1248	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	ND(0.000065) J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1254	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	0.000075 J	Incorrect amount of spike solution used during extraction procedure.
						Aroclor-1260	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	0.000090 J	Incorrect amount of spike solution used during extraction procedure.
						Total PCBs	Surrogate Recovery	18.0%,19.0%	36.0%-144.%, 30.0%-132.0%	0.000165 J	Incorrect amount of spike solution used during extraction procedure.
2D0P495	GMA5-8-filtered	4/16/2002	Water	Tier II	No						

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Pesticides and Herbicides											
2D0P395	GMA5-1	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3	4/12/2002	Water	Tier I	No						
2D0P455	DUP-5	4/16/2002	Water	Tier I	No						Duplicate of GMA5-2
2D0P455	GMA5-2	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-5	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-6	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-7	4/16/2002	Water	Tier I	No						
2D0P495	GMA5-8	4/16/2002	Water	Tier II	No						
Metals											
2D0P395	GMA5-1	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-1-filtered	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3-filtered	4/12/2002	Water	Tier I	No						
2D0P455	DUP-5	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	Duplicate of GMA5-2
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	DUP-5-filtered	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	Duplicate of GMA5-2
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-2	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-2-filtered	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-5	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-5-filtered	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-6	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-6-filtered	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-7	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P455	GMA5-7-filtered	4/16/2002	Water	Tier II	Yes	Lead	CRDL Standard %R	208.0%	80% to 120%	ND (0.0030) J	
						Thallium	CRDL Standard %R	76.1%	80% to 120%	ND (0.010) J	
2D0P495	GMA5-8	4/16/2002	Water	Tier I	No						
2D0P495	GMA5-8-filtered	4/16/2002	Water	Tier I	No						
VOCs											
2D0P395	GMA5-1	4/12/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
						Vinyl Acetate	CCAL %D	25.7%	<25%	ND (0.0050) J	
2D0P395	GMA5-3	4/12/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
						Vinyl Acetate	CCAL %D	25.7%	<25%	ND (0.0050) J	
2D0P395	Trip Blank	4/12/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
						Vinyl Acetate	CCAL %D	25.7%	<25%	ND (0.0050) J	

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2D0P455	DUP-5	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	Duplicate of GMA5-2
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P455	GMA5-2	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P455	GMA5-5	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P455	GMA5-6	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P455	GMA5-7	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P455	Trip Blank	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	
2D0P495	GMA5-8	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND (0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND (0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND (0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND (0.10) J	
						Acrylonitrile	ICAL RRF	0.021	>0.05	ND (0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND (0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND (0.010) J	

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs											
2D0P395	GMA5-1	4/12/2002	Water	Tier II	Yes	1,3-Dinitrobenzene	CCAL %D	50.5%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	39.0%	<25%	ND(0.010) J	
						4,6-Dinitro-2-methylphenol	CCAL %D	25.7%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	26.9%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	44.6%	<25%	ND(0.010) J	
2D0P395	GMA5-3	4/12/2002	Water	Tier II	Yes	1,3-Dinitrobenzene	CCAL %D	50.5%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	39.0%	<25%	ND(0.010) J	
						4,6-Dinitro-2-methylphenol	CCAL %D	25.7%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	26.9%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	44.6%	<25%	ND(0.010) J	
2D0P455	DUP-5	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	34.9%	<25%	ND(0.010) J	Duplicate of GMA5-2
						2,6-Dinitrotoluene	CCAL %D	35.3%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	70.6%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.7%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	36.1%	<25%	ND(0.010) J	
						Aramite	CCAL %D	53.6%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	30.0%	<25%	ND(0.010) J	
						Sulfotepp	CCAL %D	27.9%	<25%	ND(0.010) J	
2D0P455	GMA5-2	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	34.9%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.3%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	70.6%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.7%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	36.1%	<25%	ND(0.010) J	
						Aramite	CCAL %D	53.6%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	30.0%	<25%	ND(0.010) J	
						Sulfotepp	CCAL %D	27.9%	<25%	ND(0.010) J	
2D0P455	GMA5-5	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	34.9%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.3%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	70.6%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.7%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	36.1%	<25%	ND(0.010) J	
						Aramite	CCAL %D	53.6%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	30.0%	<25%	ND(0.010) J	
						Sulfotepp	CCAL %D	27.9%	<25%	ND(0.010) J	
2D0P455	GMA5-6	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	34.9%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.3%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	70.6%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.7%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	36.1%	<25%	ND(0.010) J	
						Aramite	CCAL %D	53.6%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	30.0%	<25%	ND(0.010) J	
						Sulfotepp	CCAL %D	27.9%	<25%	ND(0.010) J	
2D0P455	GMA5-7	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	34.9%	<25%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.3%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	70.6%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.7%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	36.1%	<25%	ND(0.010) J	
						Aramite	CCAL %D	53.6%	<25%	ND(0.010) J	
						Hexachloropropene	CCAL %D	39.2%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	30.0%	<25%	ND(0.010) J	
						Sulfotepp	CCAL %D	27.9%	<25%	ND(0.010) J	

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 5 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P495	GMA5-8	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	31.1%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	72.8%	<25%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	45.9%	<25%	ND(0.010) J	
						Hexachlorophene	CCAL %D	48.7%	<25%	ND(0.020) J	
						Hexachloropropene	CCAL %D	35.9%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	36.7%	<25%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	34.3%	<25%	ND(0.010) J	
PCDDs/PCDFs											
2D0P395	GMA5-1	4/12/2002	Water	Tier II	No						
2D0P395	GMA5-3	4/12/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.0000000084)	
2D0P455	DUP-5	4/16/2002	Water	Tier II	No						Duplicate of GMA5-2
2D0P455	GMA5-2	4/16/2002	Water	Tier II	Yes	1,2,3,7,8-PeCDF	Method Blank	-	-	ND(0.0000000038)	
						2,3,4,7,8-PeCDF	LCS %R	142.0%	70% to 130%	0.0000000035 J	
						PeCDFs (total)	Method Blank	-	-	ND(0.0000000074)	
2D0P455	GMA5-5	4/16/2002	Water	Tier II	Yes	1,2,3,4,7,8-HxCDD	Internal Standard %R	38.3%	40% to 130%	0.0000000050 J	
						1,2,3,4,7,8-HxCDF	Internal Standard %R	34.2%	40% to 130%	ND(0.0000000053) XJ	
						1,2,3,6,7,8-HxCDD	Internal Standard %R	38.3%	40% to 130%	ND(0.0000000045) XJ	
						1,2,3,6,7,8-HxCDF	Internal Standard %R	34.2%	40% to 130%	ND(0.0000000048) XJ	
						1,2,3,7,8,9-HxCDD	Internal Standard %R	38.3%	40% to 130%	0.0000000047 J	
						1,2,3,7,8,9-HxCDF	Internal Standard %R	34.2%	40% to 130%	ND(0.0000000037) XJ	
						1,2,3,7,8-PeCDD	Internal Standard %R	35.0%	40% to 130%	ND(0.0000000023) J	
						1,2,3,7,8-PeCDF	Internal Standard %R	27.4%	40% to 130%	ND(0.0000000023) J	
						2,3,4,6,7,8-HxCDF	Internal Standard %R	34.2%	40% to 130%	0.0000000043 J	
						2,3,4,7,8-PeCDF	Internal Standard %R	27.4%	40% to 130%	0.0000000078 J	
						2,3,4,7,8-PeCDF	LCS %R	142.0%	70% to 130%	0.0000000078 J	
						2,3,7,8-TCDD	Internal Standard %R	32.9%	40% to 130%	ND(0.0000000025) J	
						2,3,7,8-TCDF	Internal Standard %R	29.3%	40% to 130%	0.0000000044 J	
						HxCDDs (total)	Internal Standard %R	38.3%	40% to 130%	0.0000000097 J	
						HxCDFs (total)	Internal Standard %R	34.2%	40% to 130%	0.0000000043 J	
						PeCDDs (total)	Internal Standard %R	35.0%	40% to 130%	ND(0.0000000023) J	
						PeCDFs (total)	Internal Standard %R	27.4%	40% to 130%	0.0000000078 J	
						TCDDs (total)	Internal Standard %R	29.3%	40% to 130%	ND(0.0000000025) J	
						TCDFs (total)	Internal Standard %R	32.9%	40% to 130%	0.0000000044 J	
						HxCDFs (total)	Method Blank	-	-	ND(0.0000000043)	
						PeCDFs (total)	Method Blank	-	-	ND(0.0000000078)	
2D0P455	GMA5-6	4/16/2002	Water	Tier II	Yes	1,2,3,7,8-PeCDD	Internal Standard %R	37.2%	40% to 130%	ND(0.0000000042) J	
						1,2,3,7,8-PeCDF	Internal Standard %R	27.4%	40% to 130%	ND(0.0000000064) XJ	
						2,3,4,7,8-PeCDF	Internal Standard %R	27.4%	40% to 130%	ND(0.0000000035) J	
						2,3,7,8-TCDD	Internal Standard %R	32.9%	40% to 130%	ND(0.0000000042) J	
						2,3,7,8-TCDF	Internal Standard %R	29.3%	40% to 130%	ND(0.0000000033) J	
						PeCDDs (total)	Internal Standard %R	37.9%	40% to 130%	ND(0.0000000042) J	
						PeCDFs (total)	Internal Standard %R	27.4%	40% to 130%	ND(0.0000000064) XJ	
						TCDDs (total)	Internal Standard %R	32.9%	40% to 130%	ND(0.0000000042) J	
						TCDFs (total)	Internal Standard %R	29.3%	40% to 130%	ND(0.0000000026) XJ	
						HxCDFs (total)	Method Blank	-	-	ND(0.000000015)	
2D0P455	GMA5-7	4/16/2002	Water	Tier II	Yes	1,2,3,4,7,8-HxCDF	Method Blank	-	-	ND(0.0000000065)	
						1,2,3,7,8-PeCDF	Method Blank	-	-	ND(0.0000000061)	
						2,3,4,7,8-PeCDF	LCS %R	142.0%	70% to 130%	0.0000000073 J	
						HxCDFs (total)	Method Blank	-	-	ND(0.0000000020)	
						PeCDFs (total)	Method Blank	-	-	ND(0.0000000013)	
2D0P495	GMA5-8	4/16/2002	Water	Tier II	No						
Sulfide and Cyanide											
2D0P395	GMA5-1	4/12/2002	Water	Tier I	No						
2D0P395	GMA5-3	4/12/2002	Water	Tier I	No						
2D0P455	DUP-5	4/16/2002	Water	Tier I	No						Duplicate of GMA5-2
2D0P455	GMA5-2	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-5	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-6	4/16/2002	Water	Tier I	No						
2D0P455	GMA5-7	4/16/2002	Water	Tier I	No						
2D0P495	GMA5-8	4/16/2002	Water	Tier I	No						

Appendix E

Monitoring Results for Adjacent MCP Disposal Site

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
ECS-1**	01 Apr 99	NA	14.60	**2.10**	2.00	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NA	24-Nov-99	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10 Feb 00	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	16.73	15.10	**1.63**	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	15.50	15.35	**0.15**	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	NA	16.46	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Dec 00	NA	16.25	**0.25**	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	NA	16.10	**0.85**	NR	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ECS-3*	18 Oct 96	16.98	NG	NG	NG	976.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
993.5	25 Nov 96	18.39	17.72	**0.67**	0.50	975.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 Dec 96	14.74	14.73	0.01	NG	978.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31 Jan 97	17.50	16.59	**0.91**	0.75	976.78	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06 Mar 97	16.75	16.54	**0.21**	NG	976.93	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	17.53	17.23	**0.30**	NG	976.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	19.65	19.60	**0.05**	NG	973.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01 Apr 99	14.30	13.40	**0.90**	1.00	979.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Aug 99	18.82	18.73	**0.09**	0.10	974.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Nov 99	18.00	17.97	0.03	NG	975.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	18.65	18.52	**0.13**	0.06	974.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Mar 00	17.45	17.42	0.03	<0.02	976.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	17.00	16.88	**0.12**	0.00	976.60	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	16.40	16.33	**0.07**	0.00	977.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	17.23	16.80	**0.43**	0.03	976.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Jan 01	18.60	18.20	**0.40**	0.25	975.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	17.30	16.95	**0.35**	NR	976.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ECS-4**	21 Apr 00	8.93	NA	NA	NA	NA	31.6	216	40	385	673	<5.0	83	750	**1,920**	1,270
NA	23 Aug 00	8.32	NA	NA	NA	NA	<1.0	<5.0	<5.0	22.7	22.7	<5.0	54.6	200	190	400
	20 Nov 00	11.43	NA	NA	NA	NA	<1.0	6.3	23	65.7	95.0	<5.0	30.2	640	550	630
	12 Jan 01	12.85	NA	NA	NA	NA	<1.0	8.5	47.5	131.3	187.3	7.8	14.1	700	420	630
	11 Jul 01	10.45	NA	NA	NA	NA	<1.0	<5.0	<5.0	22.7	22.7	<5.0	36.8	350	170	150

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
ECS-7**	19 May 98	14.18	NA	NA	NA	977.48	<25	<50	372	270	642	<25	129	310	**1,730**	770
991.66	30 Nov 98	17.33	NA	NA	NA	974.33	7.2	<50	249	<50	256.2	1,220	<50	<250	690	690
	01 Apr 99	14.55	NA	NA	NA	977.11	<5.0	38	735	1,492	2,265	27	104	790	**1,120**	2,060
	24 Aug 99	16.35	NA	NA	NA	975.31	2.9	16.5	561	378.6	959	96.3	60.5	560	900	1,190
	24 Nov 99	16.46	NA	NA	NA	975.20	<5.0	<25	634	598	1,232	51	153	<500	980	1,420
	21 Apr 00	14.44	NA	NA	NA	977.22	<5.0	105	691	1,218	2,014	<25	185	770	**2,920**	2,310
	23 Aug 00	13.73	NA	NA	NA	977.93	1.5	64	596	878	1,539.5	<5.0	144	<500	**1,360**	1,890
	20 Nov 00	15.47	NA	NA	NA	976.19	3.0	19.1	439	420.6	881.7	22.8	99.9	980	**3,390**	1,540
	11 Jul 01	14.40	NA	NA	NA	977.26	<1.0	16.8	180	355	551.8	6.8	45.4	350	880	610
ECS-9**	18 Oct 96	14.02	NA	NA	NA	977.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
991.43	25 Nov 96	17.06	16.44	**0.62**	0.30	974.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 Dec 96	11.88	11.80	**0.08**	NG	979.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31 Jan 97	14.65	13.95	**0.70**	0.50	977.38	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06 Mar 97	14.32	14.12	**0.20**	NG	977.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	14.66	14.31	**0.35**	NG	977.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	19.09	18.73	**0.36**	NG	972.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01 Apr 99	12.35	12.24	**0.11**	0.20	979.17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Aug 99	18.87	18.65	**0.22**	0.10	972.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Nov 99	17.52	NA	NA	NA	973.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	16.60	16.28	**0.32**	0.10	975.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10 Feb 00	16.91	16.70	**0.21**	0.53	974.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	14.14	14.13	0.01	0.10	977.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	12.75	11.88	**0.87**	0.00	979.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Dec 00	DESTROYED														

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
ECS-10*	18 Oct 97	16.42	NA	NA	NA	977.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
993.44	25 Nov 96	17.43	16.83	**0.60**	0.30	976.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 Dec 96	16.35	NA	NA	NA	977.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31 Jan 97	17.18	15.85	**1.33**	0.50	977.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06 Mar 97	15.53	15.28	**0.25**	NG	978.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	16.25	16.20	**0.05**	NG	977.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	19.54	19.20	**0.34**	NG	974.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01 Apr 99	16.34	16.32	0.02	0.10	977.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Aug 99	19.23	19.08	**0.15**	0.10	974.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Nov 99	18.15	18.14	0.01	NG	975.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	18.47	18.45	0.02	0.00	974.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Mar 00	14.47	14.37	**0.10**	<0.03	979.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	15.85	15.83	0.02	0.03	977.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	16.71	14.48	**2.23**	0.00	978.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Dec 00	DESTROYED														
ECS-11*	19 May 98	15.07	12.00	**3.07**	NG	980.40	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
992.83	30 Nov 98	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Aug 99	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10 Feb 00	DRY	NG	NG	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	11.03	11.01	0.02	NG	981.82	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	DRY	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Dec 00	DRY	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ECS-13	01 Apr 99	DESTROYED														
NA																
ECS-14*	01 Apr 99	8.90	NG	NG	NG	NA	<1.0	<5.0	11.6	139.4	151.0	<5.0	33.1	<50	95	407
NA	24 Nov 99	8.92	NG	NG	NG	NA	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	21 Apr 00	6.70	NG	NG	NG	NA	<1.0	<5.0	5.4	117.2	122.6	<5.0	14	<100	400	490
ECS-15**	21 Apr 00	10.16	NG	NG	NG	NA	<1.0	15	15.4	181.3	211.7	<5.0	13.8	870	480	500
NA	20 Nov 00	11.36	NA	NA	NA	NA	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	**4,190**	<500	<500

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

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83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

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Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
GES-7**	24 Nov 99	14.71	NA	NA	NA	983.07	1.2	19	10	56.6	87.1	<5.0	8.5	140	<100	120
997.78	21 Apr 00	12.78	NA	NA	NA	985.00	<1.0	<5.0	<5.0	18.5	18.5	<5.0	6.6	<100	<100	<100
	23 Aug 00	10.31	NA	NA	NA	987.47	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
	20 Nov 00	12.70	NA	NA	NA	985.08	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	12 Jan 01	14.05	NA	NA	NA	983.73	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	130
	11 Jul 01	10.73	NA	NA	NA	987.05	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
GES-8**	24 Nov 99	12.03	NA	NA	NA	983.75	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
995.78	21 Apr 00	9.83	NA	NA	NA	985.95	<1.0	50.2	38.8	197.5	286.5	<5.0	23.9	<100	600	600
	23 Aug 00	10.67	NA	NA	NA	985.11	<1.0	<5.0	<5.0	18.3	18.3	<5.0	<5.0	<100	<100	<100
	20 Nov 00	11.77	NA	NA	NA	984.01	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	12 Jan 01	13.17	NA	NA	NA	982.61	<1.0	<5.0	<5.0	73.6	73.6	<5.0	<5.0	<100	310	510
	11 Jul 01	10.82	NA	NA	NA	984.96	<1.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<100	<100	<100
GES-9**	24 Nov 99	14.91	NA	NA	NA	981.47	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
996.38	21 Apr 00	13.36	NA	NA	NA	983.02	<1.0	<5.0	<5.0	20.4	20.4	<5.0	<5.0	<100	<100	<100
	23 Aug 00	12.23	NA	NA	NA	984.15	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
	20 Nov 00	14.11	NA	NA	NA	982.27	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	12 Jan 01	14.83	NA	NA	NA	981.55	<1.0	<5.0	<5.0	29.7	29.7	<5.0	7.1	<100	180	300
GES-11**	23 Aug 00	12.67	NA	NA	NA	985.44	<5.0	54	346	2,100	2,500	<25	143	**1,940**	**2,560**	3,390
998.11	20 Nov 00	14.86	NA	NA	NA	983.25	<5.0	<25	496	1,348	1,844	<25	187	**3,510**	**3,640**	2,930
	12 Jan 01	15.23	NA	NA	NA	982.88	<1.0	7.8	255	526.4	789.2	12	82	**1,850**	**1,050**	1,370
	19 Jan 01	15.65	NA	NA	NA	982.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	14.46	NA	NA	NA	983.65	<1.0	17	325	999	1,341	<5.0	145	**2,270**	**2,400**	1,400
GES-12**	23 Aug 00	12.47	NA	NA	NA	985.38	<5.0	2,740	2,030	10,120	14,890	<25	490	22,700	14,400	12,800
997.85	20 Nov 00	14.34	NA	NA	NA	983.51	104	3,810	2,010	8,740	14,664	<50	416	17,200	19,200	7,800
	12 Jan 01	14.70	NA	NA	NA	983.15	108	2,640	1,960	9,380	14,088	<100	530	9,700	11,300	13,300
	19 Jan 01	15.04	NA	NA	NA	982.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	13.90	NA	NA	NA	983.95	48	3,360	2,570	12,410	18,388	<100	670	14,800	22,400	10,900
GES-13**	23 Aug 00	12.22	NA	NA	NA	986.50	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
998.72	20 Nov 00	15.63	NA	NA	NA	983.09	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	12 Jan 01	16.09	NA	NA	NA	982.63	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
	19 Jan 01	16.65	NA	NA	NA	982.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	15.42	NA	NA	NA	983.30	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
GES-14**	12 Jan 01	NG	NG	NG	NG	NG	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
998.65	19 Jan 01	7.20	NA	NA	NA	991.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GES-15**	12 Jan 01	NG	NG	NG	NG	NG	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
998.52	19 Jan 01	6.07	NA	NA	NA	992.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GES-16**	12 Jan 01	NG	NG	NG	NA	NA	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
998.86	19 Jan 01	16.06	NA	NA	NA	982.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	14.52	NA	NA	NA	984.34	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
GT-102**	23 Aug 00	14.03	NA	NA	NA	NA	<1.0	<5.0	<5.0	32.9	32.9	<5.0	<5.0	<100	<100	<100
NA	12 Jan 01	15.48	NA	NA	NA	NA	<1.0	<5.0	<5.0	11	11	<5.0	<5.0	<100	<100	<100
	11 Jul 01	14.47	NA	NA	NA	NA	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
GT-1*	24 Aug 99	11.00	NA	NA	NA	NA	<1.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<100	<100	<100
NA	23 Aug 00	7.23	NA	NA	NA	NA	<1.0	<5.0	6.1	105.3	111.4	<5.0	18.2	<100	590	860
	12 Jan 01	11.09	NA	NA	NA	NA	<1.0	<5.0	7.0	40	47.0	<5.0	<5.0	<100	<100	<100
	11 Jul 01	9.13	NA	NA	NA	NA	<1.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<100	<100	<100
GT -2*	19 May 98	15.01	NA	NA	NA	975.49	**3,180**	**7,460**	310	**12,440**	23,390	<250	770	**15,300**	**20,500**	**6,400**
990.50	30 Nov 98	16.98	NA	NA	NA	973.52	**5,520**	**12,900**	1,140	**10,570**	30,130	<250	<500	**14,100**	**15,100**	**7,300**
	01 Apr 99	14.70	NA	NA	NA	975.80	**3,580**	**8,270**	510	**8,330**	20,690	<130	340	**16,900**	**5,000**	**7,800**
	24 Aug 99	17.09	NA	NA	NA	973.41	**2,960**	**6,650**	530	**7,550**	17,690	<100	300	**14,200**	**4,300**	**5,600**
	24 Nov 99	16.26	NA	NA	NA	974.24	**2,650**	5,660	310	**6,000**	14,620	<100	260	**10,600**	**4,300**	3,700
	21 Apr 00	15.03	NA	NA	NA	975.47	**2,710**	5,060	280	**6,750**	14,800	<100	370	**10,600**	**8,000**	**4,800**
	23 Aug 00	14.49	NA	NA	NA	976.01	**3,060**	**6,030**	730	**7,300**	17,120	<100	350	**11,700**	**6,300**	**5,600**
	12 Jan 01	15.84	NA	NA	NA	974.66	**2,640**	5,270	499	**6,430**	14,839	<50	312	**10,600**	**6,700**	**5,400**
	11 Jul 01	15.03	NA	NA	NA	975.47	1,290	3,070	332	5,040	9,732	<50	174	**7,200**	**9,800**	**5,600**

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
GT-6**	18 Oct 96	14.86	14.82	0.04	NG	975.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
990.27	25 Nov 96	14.91	14.87	0.04	NG	975.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 Dec 96	13.49	13.45	0.04	NG	976.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	31 Jan 97	14.34	14.31	0.03	NG	975.96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06 Mar 97	13.81	NG	NG	NG	976.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01 Apr 99	14.14	NG	NG	NG	976.13	1,220	5,010	560	**8,160**	14,950	230	410	**6,400**	**5,100**	**10,200**
	24 Nov 99	15.69	NA	NA	NA	974.58	**2,420**	**9,080**	2,190	**11,610**	25,300	1,270	770	**12,400**	**6,800**	**8,200**
	28 Jan 00	15.99	15.97	0.02	0.00	974.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	13.43	13.28	**0.15**	NG	976.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	13.89	13.86	0.03	0.00	976.41	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	14.98	14.95	0.03	0.00	975.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Jan 01	16.02	15.59	**0.43**	0.25	974.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	14.30	14.27	0.03	NA	976.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GT-7**	19 May 98	14.08	NA	NA	NA	975.77	<25	<50	<25	536	536	<25	188	<250	500	<250
989.85	30 Nov 98	16.23	NA	NA	NA	973.62	6.3	<10	<5	22	28.6	<5	94	<50	195	138
	01 Apr 99	13.80	NA	NA	NA	976.05	2.6	37	49	667	756.2	<5.0	118	434	1,210	1,980
	24 Aug 99	16.35	NA	NA	NA	973.50	8.2	<5.0	<5.0	14	22.2	<5.0	108	<100	<100	110
	24 Nov 99	15.24	NA	NA	NA	974.61	7.6	15	60	156.4	239.5	<5.0	123	230	280	380
	21 Apr 00	13.73	NA	NA	NA	976.12	5.9	10.5	31.8	176.1	224.3	<5.0	75.7	410	400	380
	23 Aug 00	13.10	NA	NA	NA	976.75	6.1	12.4	25.1	160.6	204.2	<5.0	93.8	280	280	440
	12 Jan 01	14.72	NA	NA	NA	975.13	3.8	<5.0	7.8	<15	11.6	<5.0	12.5	<100	<100	<100
	11 Jul 01	13.82	NA	NA	NA	976.03	5.6	<5.0	19.3	43.1	68.0	<5.0	63.3	<100	260	250

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
RW-1*	18 Oct 96	16.00	NG	NG	NG	973.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
992.48	31 Jan 97	NG	NG	NG	1.00	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06 Mar 97	NG	NG	NG	0.10	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01 Apr 99	NG	NG	NG	1.50	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	24 Aug 99	20.20	18.98	**1.22**	2.00	973.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	18.52	18.30	**0.22**	0.30	974.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10 Feb 00	NG	NG	**0.67**	2.00	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	16.80	16.50	**0.30**	0.50	975.94	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	16.20	15.85	**0.35**	NG	976.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	16.80	14.00	**2.80**	1.75	978.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Dec 00	16.75	16.70	**0.05**	2.00	975.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Jan 01	17.86	17.76	**0.10**	0.25	974.71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	17.17	15.40	**1.77**	1.00	976.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RW-2**	28 Jan 00	17.5	16.05	**1.45**	1.10	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
NA	30 Mar 00	16.33	14.95	**1.38**	3.00	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	14.52	14.39	**0.13**	0.50	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	13.69	13.65	0.04	NG	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	15.22	NG	NG	0.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29 Jan 01	17.10	16.00	**1.10**	1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11 Jul 01	15.59	14.57	**1.02**	1.20	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 1
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Service Station 01-ECQ
83-89 Elm Street
Pittsfield, Massachusetts

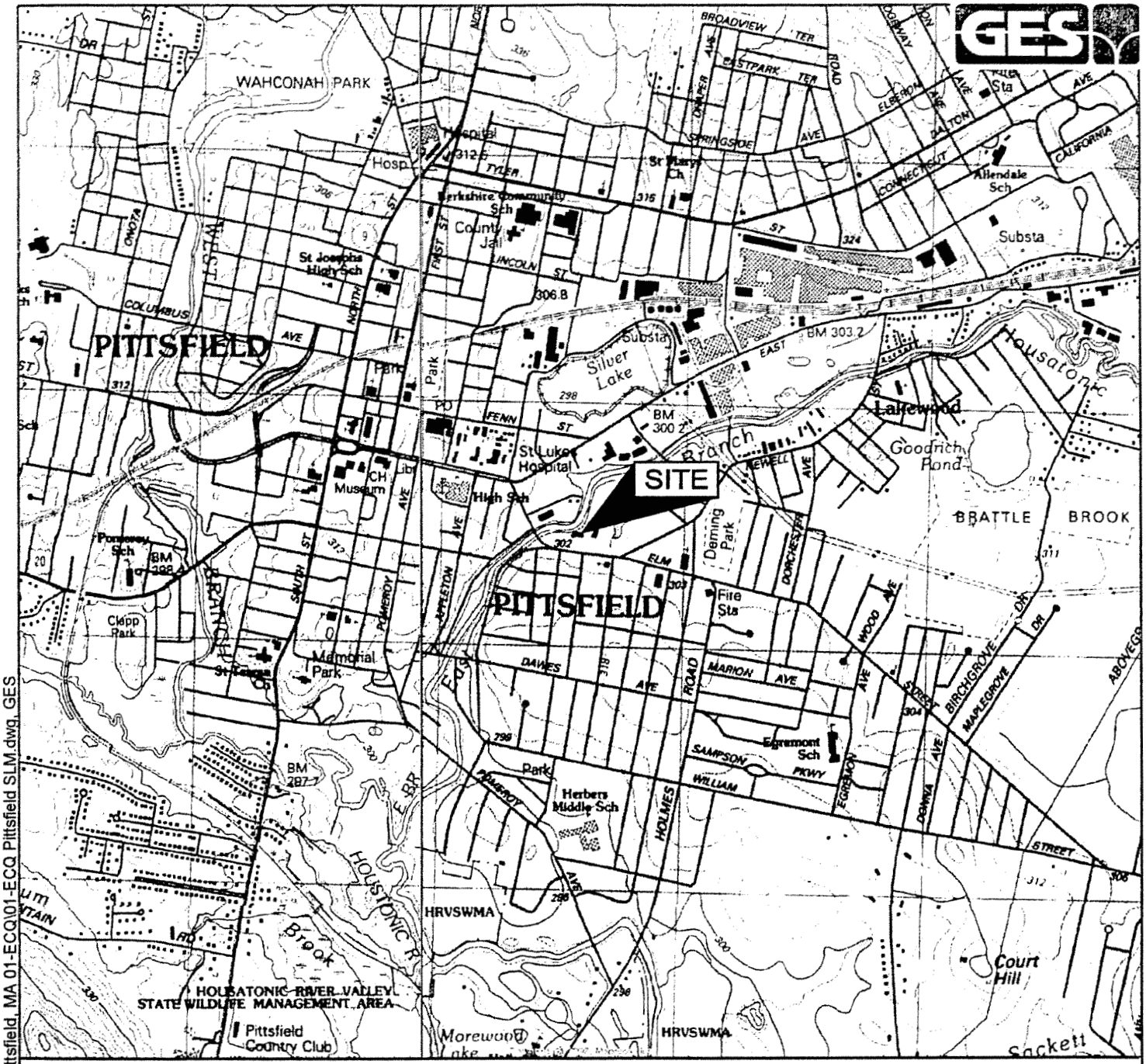
October 1996 through July 2001

Results Reported in Micrograms per Liter (µg/L)

Well Elevation (TOC)	Sampling Date	Depth to Water (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Recovered (gallons)	Adjusted Water Table Elevation (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	Naph-thalene	C5-C8 aliphatics	C9-C12 aliphatics	C9-C10 aromatics
RW-3**	31 Jan 97	NG	NG	NG	0.40	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
989.89	06 Mar 97	NG	NG	NG	1.20	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	19 May 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Nov 98	NG	NG	NG	NG	NG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28 Jan 00	16.96	15.32	**1.64**	0.60	974.34	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30 Mar 00	14.30	13.52	**0.78**	1.00	976.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	21 Apr 00	14.60	14.09	**0.51**	0.06	975.73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	23 Aug 00	13.66	NA	NA	NA	976.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	20 Nov 00	14.83	14.82	0.01	NG	975.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29 Jan 01	16.18	15.72	**0.46**	0.50	974.11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11 Jul 01	14.55	14.34	**0.21**	0.50	975.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	MCP GW-2 STANDARD			0.042 (1/2 inch)	NA	NA	2,000	6,000	30,000	6,000	NE	50,000	6,000	1,000	1,000	5,000
	MCP GW-3 STANDARD			0.042 (1/2 inch)	NA	NA	7,000	50,000	4,000	50,000	NE	50,000	6,000	4,000	20,000	4,000

Notes:

TOC = relative elevation of top of well casing.
NAPL = non aqueous-phase liquid.
MTBE = methyl tert-butyl ether.
NA = not applicable.
NS = not sampled.
NG = not gauged.
Bolded values exceed Method 1 Standards.
MCP = Massachusetts Contingency Plan.
NE = none established.
*MCP Method 1 GW-2 and GW-3 Standards apply for current Site use. See MCP 310 CMR 40.0974(2).
**MCP Method 1 GW-3 Groundwater Standards apply for current Site use. See MCP 310 CMR 40.0974(2).



SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1988
PITTSFIELD EAST, MASSACHUSETTS
CONTOUR INTERVAL = 6 METERS

QUADRANGLE LOCATION

DRAFTED BY: E.V. (WALL)	SITE LOCUS MAP
CHECKED BY: D.R.	EXXONMOBIL OIL CORPORATION FORMER MOBIL SERVICE STATION #01-ECQ 83-89 ELM STREET PITTSFIELD, MASSACHUSETTS
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 429B HAYDEN STATION ROAD, WINDSOR, CT 06095
SCALE IN FEET: 0 — 2000	DATE: 9-4-01
	FIGURE: 1

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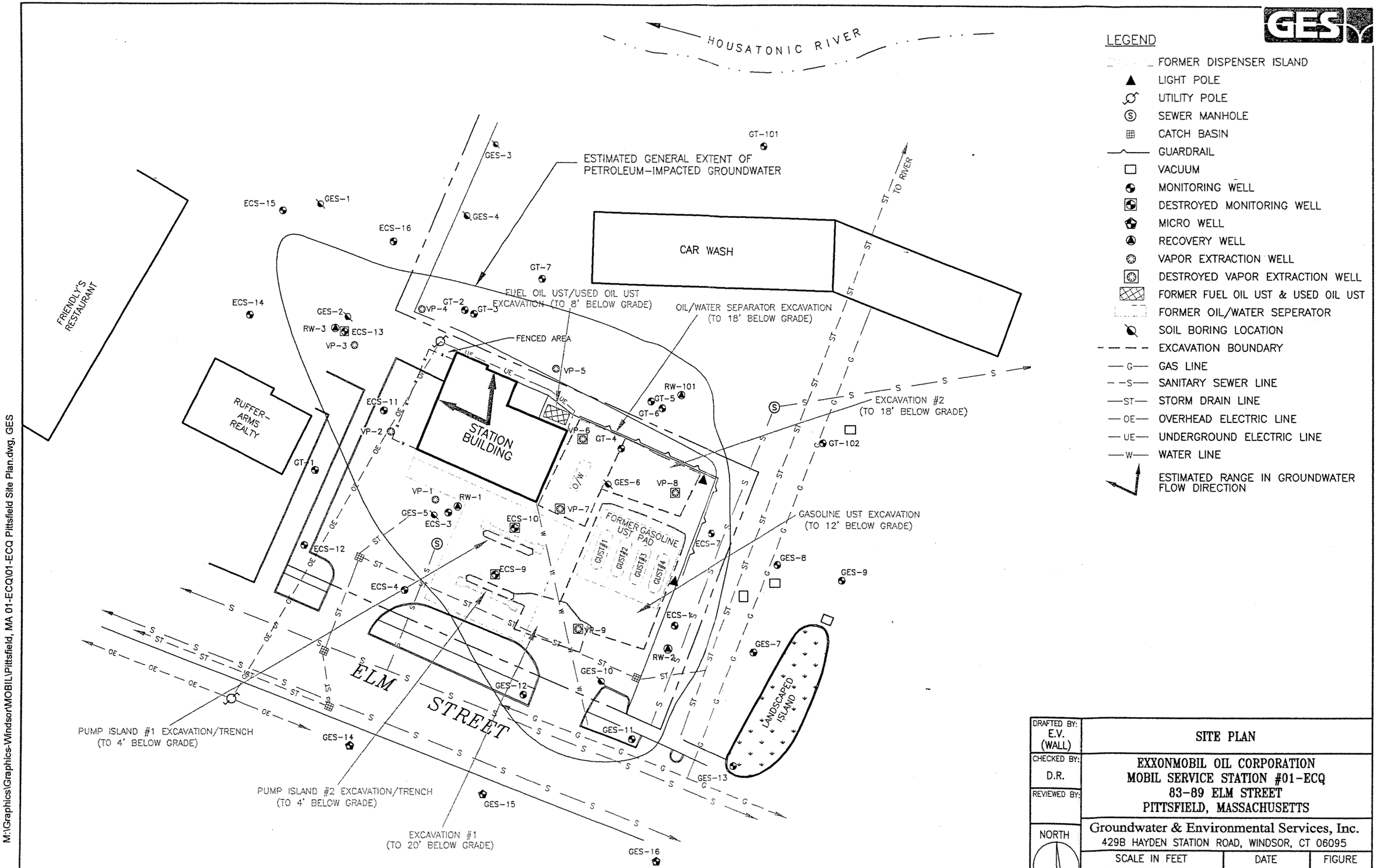

LEGEND

- FORMER DISPENSER ISLAND
- LIGHT POLE
- UTILITY POLE
- SEWER MANHOLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- DESTROYED MONITORING WELL
- MICRO WELL
- RECOVERY WELL
- VAPOR EXTRACTION WELL
- DESTROYED VAPOR EXTRACTION WELL
- FORMER FUEL OIL UST & USED OIL UST
- FORMER OIL/WATER SEPERATOR
- SOIL BORING LOCATION
- EXCAVATION BOUNDARY
- —G— GAS LINE
- --S— SANITARY SEWER LINE
- —ST— STORM DRAIN LINE
- —OE— OVERHEAD ELECTRIC LINE
- —UE— UNDERGROUND ELECTRIC LINE
- —W— WATER LINE
- ESTIMATED RANGE IN GROUNDWATER FLOW DIRECTION

DRAFTED BY: E.V. (WALL)	SITE PLAN
CHECKED BY: D.R.	EXXONMOBIL OIL CORPORATION MOBIL SERVICE STATION #01-ECQ 83-89 ELM STREET PITTSFIELD, MASSACHUSETTS
REVIEWED BY:	Groundwater & Environmental Services, Inc. 429B HAYDEN STATION ROAD, WINDSOR, CT 06095
NORTH	SCALE IN FEET: 0 40 / DATE: 9-27-01 / FIGURE: 2

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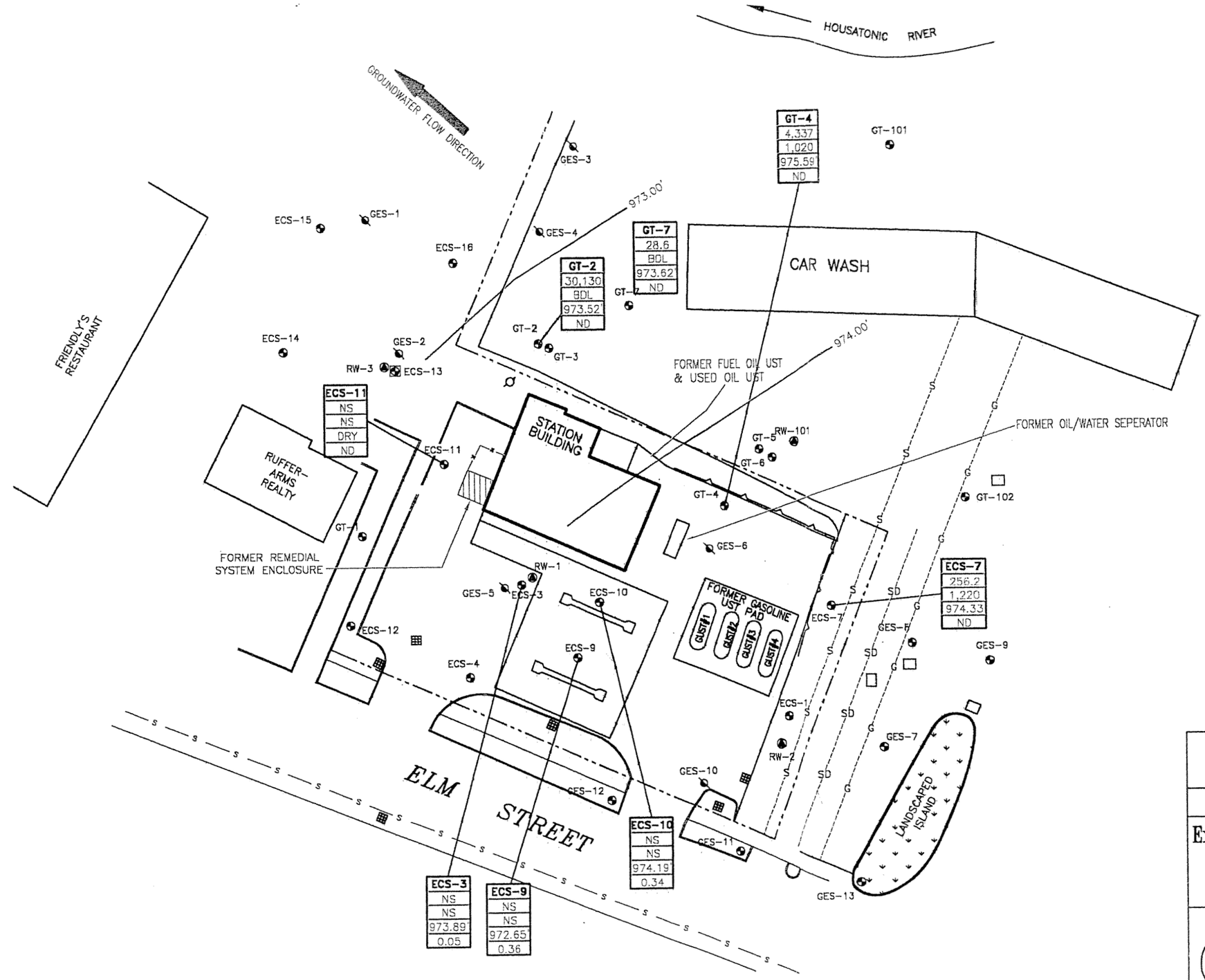
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.



LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- SOIL BORING LOCATION
- RECOVERY WELL
- DESTROYED MONITORING WELL
- ---S--- SEWER LINE
- ---SD--- STORM DRAIN LINE
- ---G--- GAS LINE
- ECS-7 / 256.2 / 1,220 / 974.33' / ND — WELL ID / BTEX CONCENTRATION (ug/L) / MTBE CONCENTRATION (ug/L) / GROUNDWATER ELEVATION (ft) / PRODUCT THICKNESS (ft)
- ND NOT DETECTED
- BDL BELOW DETECTION LIMITS
- APPROXIMATE GROUNDWATER CONTOUR (feet)

DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP NOVEMBER 30, 1998

SERVICE STATION # 01-ECQ

ExxonMobil REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH	SCALE IN FEET	DATE	SOURCE
	0 20 40	5-11-01	CONN
		DWG # 01-ECQ	FIGURE 3

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GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

HOUSATONIC RIVER

FRIENDLY'S RESTAURANT

RUFFER-ARMS REALTY

STATION BUILDING

CAR WASH

FORMER GASOLINE UST PAD

FORMER FUEL OIL UST & USED OIL UST

FORMER OIL/WATER SEPERATOR

FORMER REMEDIAL SYSTEM ENCLOSURE

LANDSCAPED ISLAND

ELM STREET

GT-1	GT-2	GT-3	GT-4	GT-5
2,623	14,620	BDL	2,623	1,270
2,230	BDL	BDL	2,230	974.58'
977.54'	974.24'	NA	977.54'	ND
ND	ND	ND	ND	

GT-6	GT-7	GES-8	ECS-14	ECS-7
25,300	239.5	BDL	BDL	1,222
1,270	BDL	BDL	BDL	51
974.58'	974.61'	983.75'	NA	975.20'
ND	ND	ND	ND	ND

GES-8	GES-9	GES-7	ECS-1	
BDL	BDL	82.1	NS	
BDL	BDL	BDL	NS	
983.75'	981.47'	983.07'	DRY	
ND	ND	ND	ND	

LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GAURDRAIL
- VACUUM
- MONITORING WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL

GES-8	WELL ID
BDL	BTEX CONCENTRATION (ug/L)
BDL	MTBE CONCENTRATION (ug/L)
983.75'	GROUNDWATER ELEVATION (ft)
ND	PRODUCT THICKNESS (ft)

ND	NOT DETECTED
NA	NOT AVAILABLE
NS	NOT SAMPLED
BDL	BELOW DETECTION LIMITS

DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP NOVEMBER 24, 1999

SERVICE STATION # 01-ECQ

EXXONMOBIL REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH

SCALE IN FEET

0 20 40

DATE	3-20-01
SOURCE	CONN
DWG #	01-ECQ
FIGURE	4

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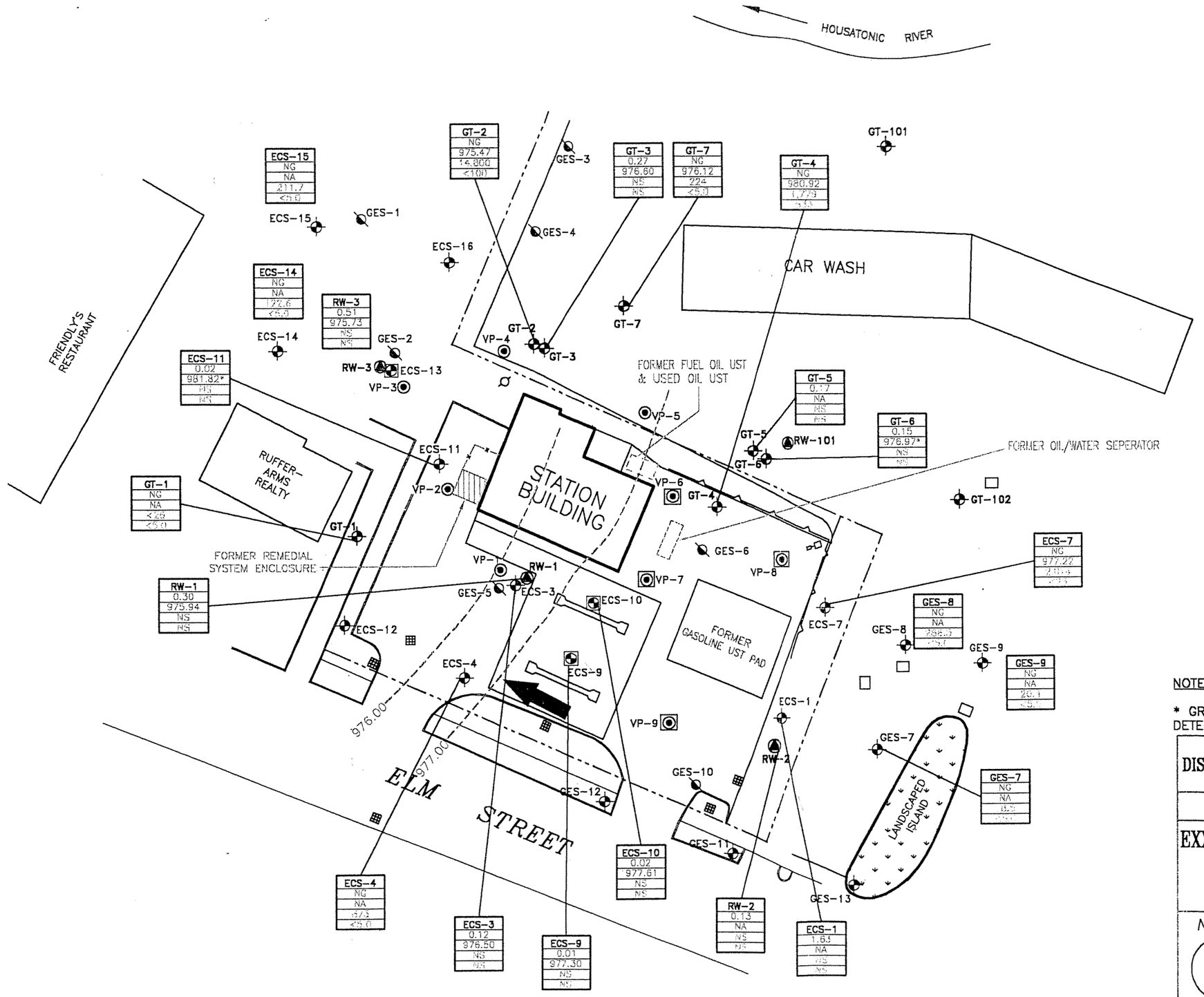
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.



LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GAURDRAIL
- VACUUM
- MONITORING WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL

ECS-7
NG
977.22
2,314
<25

WELL IDENTIFICATION
PRODUCT THICKNESS (feet)
GROUNDWATER ELEVATION (feet)
TOTAL BTEX CONCENTRATION (ug/l)
MTBE CONCENTRATION (ug/l)

ug/l	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
MTBE	METHYL tert –BUTYL ETHER
<	WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
NG	NOT GAUGED
NA	NOT APPLICABLE
NS	NOT SAMPLED
------	APPROXIMATE GROUNDWATER CONTOUR (feet) (DASHED WHERE INFERRED)
◄	APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTE:

* GROUNDWATER ELEVATION WAS NOT USED TO DETERMINE GROUNDWATER CONTOURS.

GROUNDWATER GRADIENT & DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP APRIL 21, 2000

SERVICE STATION # 01-ECQ

EXXONMOBIL REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH

SCALE IN FEET
0 20 40

DATE	SOURCE
3-20-01	CONN
DWG #	FIGURE
01-ECQ	5

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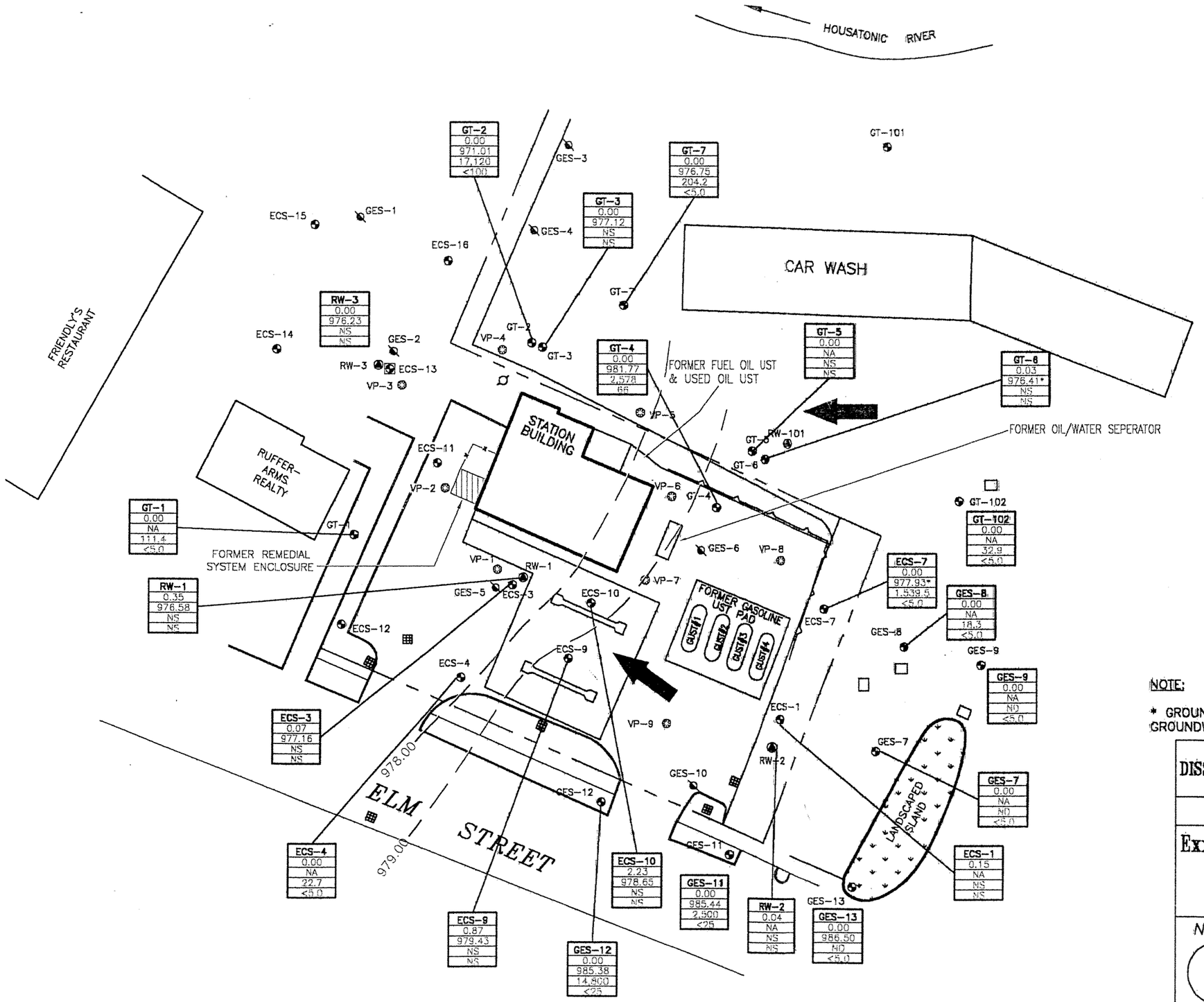
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.



LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL

ECS-7	WELL IDENTIFICATION
NG	PRODUCT THICKNESS (feet)
977.22	GROUNDWATER ELEVATION (feet)
2,014	TOTAL BTEX CONCENTRATION (ug/l)
<25	MTBE CONCENTRATION (ug/l)
ug/l	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
MTBE	METHYL tert –BUTYL ETHER
<	WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
NG	NOT GAUGED
NA	NOT AVAILABLE
NS	NOT SAMPLED
———	APPROXIMATE GROUNDWATER CONTOUR (feet) (DASHED WHERE INFERRED)
⬅	APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTE:

* GROUNDWATER ELEVATION WAS NOT USED TO DETERMINE GROUNDWATER CONTOURS.

GROUNDWATER GRADIENT & DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP AUGUST 23, 2000

SERVICE STATION # 01-ECQ

ExxonMobil REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH	SCALE IN FEET	DATE	SOURCE
	0 20 40	5-30-01	CONN
		DWG # 01-ECQ	FIGURE 6

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GROUNDWATER &
ENVIRONMENTAL SERVICES, INC.

HOUSATONIC RIVER

GT-101

ECS-15 | N/A | NA | BDL | <5.0

ECS-15 GES-1 GES-3 GES-4 ECS-16

RW-3 | 0.01 | 975.07 | NS | NS

GT-3 | 0.01 | 975.45 | NS | NS

GT-7

CAR WASH

FRIENDLY'S RESTAURANT

ECS-14 GES-2 RW-3 ECS-13 VP-3 VP-4 GT-2 GT-3

GT-6 | 0.03 | 975.32 | NS | NS

FORMER FUEL OIL UST & USED OIL UST

VP-5

ECS-3 | 0.43 | 976.64 | NS | NS

RUFFER-ARMS REALTY

ECS-11 VP-2 STATION BUILDING VP-6 GT-4 GT-5 RW-101 GT-6

FORMER OIL/WATER SEPERATOR

GT-102

ECS-7 | N/A | 976.19 | 881.7 | 22.8

976.00

GT-1

FORMER REMEDIAL SYSTEM ENCLOSURE

VP-1 RW-1 GES-5 ECS-3 ECS-10 VP-7 GES-6 VP-8

FORMER GASOLINE PAD USTs #1 #2 #3 #4

GES-8 | N/A | 984.01 | BDL | <5.0

978.00

ECS-12 ECS-4 ECS-9 ECS-7 GES-8 GES-9

GES-9 | N/A | 982.27 | BDL | <5.0

ECS-1

VP-9

GES-7

GES-7 | N/A | 985.08 | BDL | <5.0

RW-2 | N/A | NA | NS | NS

GES-10 RW-2 LANDSCAPED ISLAND

ECS-4 | N/A | NA | 95.0 | <5.0

ELM STREET

980.00

GES-12 | N/A | 983.51 | 14,664 | <50

GES-12 GES-11

GES-13 | N/A | 983.09 | BDL | <5.0

RW-1 | 2.80 | 978.09 | NS | NS

GES-11 | N/A | 983.25 | 1,844 | <25

GES-13

NOTE:

* WELLS ECS-4,ECS-15, AND GES-9 WERE NOT USED TO DETERMINE GROUNDWATER FLOW.

LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL

ECS-7	WELL IDENTIFICATION
N/A	PRODUCT THICKNESS (feet)
976.19	GROUNDWATER ELEVATION (feet)
881.7	TOTAL BTEX CONCENTRATION (ug/l)
22.8	MTBE CONCENTRATION (ug/l)

ug/l	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
MTBE	METHYL tert-BUTYL ETHER
<	WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
NG	NOT GAUGED
NA	NOT AVAILABLE
N/A	NOT APPLICABLE
NS	NOT SAMPLED (GAUGED ONLY)
———	APPROXIMATE GROUNDWATER CONTOUR (feet) (DASHED WHERE INFERRED)
	GROUNDWATER FLOW DIRECTION

GROUNDWATER GRADIENT & DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP NOVEMBER 20, 2000

SERVICE STATION # 01-ECQ

ExxonMobil REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH

SCALE IN FEET
0 20 40

DATE	SOURCE
5-30-01	CONN
DWG #	FIGURE
01-ECQ	7

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GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

HOUSATONIC RIVER

GT-101

GES-3

ECS-15 GES-1

GES-4

ECS-16

GT-7
N/A
975.13
11.6
<5.0

GT-7

GT-2
N/A
NA
14,839
<50

CAR WASH

976.00

FRIENDLY'S RESTAURANT

ECS-14

GES-2

VP-4

GT-2

GT-3

RW-3 ECS-13

VP-3

FORMER FUEL OIL UST & USED OIL UST

GT-5
N/A
NA
NS
NS

978.00

VP-5

STATION BUILDING

GT-5 RW-101

GT-6

FORMER OIL/WATER SEPERATOR

980.00

RUFFER-ARMS REALTY

ECS-11

VP-2

GT-1
N/A
NA
47.0
<5.0

GT-1

GT-4

VP-8

GT-102
N/A
NA
11
<5.0

GT-102

FORMER REMEDIAL SYSTEM ENCLOSURE

VP-1

RW-1

GES-5 ECS-3

ECS-10

VP-7

GES-6 VP-6

FORMER GASOLINE UST PAD

GAST#1 GAST#2 GAST#3 GAST#4

ECS-7

GES-8
N/A
982.61
73.6
<5.0

GES-8

GES-9

GES-9
N/A
981.55
28.7
<5.0

ECS-12

ECS-9

ECS-4

ECS-4
N/A
NA
187.3
7.8

VP-9

ECS-1

RW-2

GES-7

GES-7
N/A
983.73
BDL
<5.0

GES-10

GES-12

LANDSCAPED ISLAND

GES-13
N/A
982.63
BDL
<5.0

ELM STREET

GES-12
N/A
983.15
14,088
<100

GES-11

GES-14

GES-14
N/A
NA
BDL
<5.0

GES-11
N/A
982.88
789.2
12.0

GES-15
N/A
NA
BDL
<5.0

GES-15

GES-16
N/A
NA
BDL
<5.0

GES-16

GES-13

LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- MICRO WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL

GT-102	WELL IDENTIFICATION
N/A	PRODUCT THICKNESS (feet)
NA	GROUNDWATER ELEVATION (feet)
11	TOTAL BTEX CONCENTRATION (ug/l)
<5.0	MTBE CONCENTRATION (ug/l)

ug/l	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
MTBE	METHYL tert-BUTYL ETHER
<	WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
NA	NOT AVAILABLE
NS	NOT SAMPLED (GAUGED ONLY)
———	APPROXIMATE GROUNDWATER CONTOUR (feet) (DASHED WHERE INFERRED)
⬆	GROUNDWATER FLOW DIRECTION
BDL	BELOW DETECTION LIMIT
N/A	NOT APPLICABLE

GROUNDWATER GRADIENT & DISSOLVED-PHASE BTEX/MTBE CONCENTRATIONS MAP JANUARY 12, 2001

SERVICE STATION # 01-ECQ

ExxonMobil REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH

SCALE IN FEET
0 20 40

DATE	SOURCE
5-30-01	CONN
DWG #	FIGURE
01-ECQ	8

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GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

HOUSATONIC RIVER

FRIENDLY'S RESTAURANT

RUFFER-ARMS REALTY

CAR WASH

STATION BUILDING

FORMER REMEDIAL SYSTEM ENCLOSURE

FUEL OIL UST/USED OIL UST EXCAVATION (TO 8' BELOW GRADE)

FORMER FUEL OIL UST & USED OIL UST

OIL/WATER SEPARATOR EXCAVATION (TO 18' BELOW GRADE)

FORMER OIL/WATER SEPERATOR EXCAVATION #2 (TO 18' BELOW GRADE)

GASOLINE UST EXCAVATION (TO 12' BELOW GRADE)

FORMER GASOLINE UST PAD

LANDSCAPED ISLAND

ELM STREET

PUMP ISLAND #1 EXCAVATION/TRENCH (TO 4' BELOW GRADE)

PUMP ISLAND #2 EXCAVATION/TRENCH (TO 4' BELOW GRADE)

EXCAVATION #1 (TO 20' BELOW GRADE)

GT-101 GT-102 GES-1 GES-2 GES-3 GES-4 GES-5 GES-6 GES-7 GES-8 GES-9 GES-10 GES-11 GES-12 GES-13 GES-14 GES-15 GES-16 ECS-1 ECS-3 ECS-4 ECS-7 ECS-9 ECS-10 ECS-11 ECS-12 ECS-13 ECS-14 ECS-15 ECS-16 GT-1 GT-2 GT-3 GT-4 GT-5 GT-6 GT-7 GT-8 VP-1 VP-2 VP-3 VP-4 VP-5 VP-6 VP-7 VP-8 VP-9 RW-1 RW-2 RW-3 RW-101 HYD-1 HYD-2 HYD-3 PI-1 PI-2 PI-3 PI-4 PI-5 PI-6 PI-7 PI-8 PI-9 PI-10 PI-11 PI1-B PI2W-B PI2E-B FO-B FO-N FO/UO-E FO/UO-W UO-B UO-S O/W-N O/W-B O/W-E O/W-W O/W-S EXC1-N EXC1-W EXC1-S EXC1-E EXC1-B EXC2-N EXC2-B EXC2-E EXC2-S GUST-NW GUST-N GUST-NE GUST-B GUST-S GUST-SE GUST-SW GUST#1 GUST#2 GUST#3 GUST#4

LEGEND

- PUMP ISLAND
- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- GUARDRAIL
- VACUUM
- MONITORING WELL
- MICRO WELL
- SOIL BORING LOCATION
- VAPOR EXTRACTION WELL
- RECOVERY WELL
- DESTROYED MONITORING WELL
- DESTROYED VAPOR EXTRACTION WELL
- SOIL SCREENING/SAMPLING LOCATION
- EXCAVATION BOUNDARY

PID SOIL SCREENING/SOIL SAMPLING LOCATIONS
OCT 19, 2000 - OCT 31, 2000

SERVICE STATION # 01-ECQ

ExxonMobil REFINING & SUPPLY COMPANY
83-89 ELM STREET
PITTSFIELD, MASSACHUSETTS

NORTH

SCALE IN FEET
0 20 40

DATE	SOURCE
5-11-01	CONN
DWG # 01-ECQ	FIGURE 9

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