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Transmitted Via Overnight Courier

July 28, 2006

Ms. Sharon Hayes
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 1 (GECD310)
Groundwater Quality Interim Report for Spring 2006**

Dear Ms. Hayes:

In accordance with GE's approved *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (September 2000) and *Plant Site 1 Groundwater Management Area Baseline Groundwater Quality Interim Report for Spring 2003* (July 2003), enclosed is the *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Spring 2006*. This report summarizes activities performed as part of the Plant Site 1 Groundwater Management Area (GMA 1) interim groundwater quality monitoring program during spring 2006, including the results of the latest groundwater sampling and analysis round at GMA 1.

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

Sincerely,

Richard W. Gates
Remediation Project Manager

Enclosure

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*Plant Site 1
Groundwater Management Area
Groundwater Quality Monitoring
Interim Report for Spring 2006*

**General Electric Company
Pittsfield, Massachusetts**

July 2006

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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), the RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them, 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 Plant Site 1 Groundwater Management Area, also known as and referred to herein as GMA 1.

In September 2000, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (GMA 1 Baseline Monitoring Proposal). The GMA 1 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 1 and proposed groundwater and NAPL monitoring activities (incorporating as appropriate those activities that were in place at that time) for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 1 Baseline Monitoring Proposal by letter of March 20, 2001. Thereafter, certain modifications were made to the GMA 1 baseline monitoring program as a result of EPA approval conditions and/or findings during field reconnaissance of the selected monitoring locations and, subsequently, during implementation of the baseline monitoring program.

The baseline monitoring program, which was initiated in fall 2001, consisted of four semi-annual groundwater quality sampling events followed by preparation and submittal of reports summarizing the groundwater monitoring results and, as appropriate, proposal of modifications to the monitoring program. The fourth baseline monitoring report for GMA 1, entitled *Plant Site 1 Groundwater Management Area Baseline Groundwater Quality Interim Report for Spring 2003* (Spring 2003 GMA 1 Groundwater Quality Report), was

submitted to EPA on July 30, 2003. Section 6.1.3 of Attachment H to the SOW provides that if the two-year “baseline” period ends prior to the completion of soil-related response actions at all the RAAs in a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 1 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions. Therefore, the Spring 2003 GMA 1 Groundwater Quality Report contained a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 1 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the GMA 1 RAAs are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Spring 2003 GMA 1 Groundwater Quality Report by letter dated September 23, 2003. Under the approved interim monitoring program, annual water quality sampling (alternating between the spring and fall seasons) at selected GMA 1 wells began in spring 2004, following a limited sampling event in fall 2003 involving the collection of groundwater samples from six wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program.

As part of the interim groundwater quality monitoring program, GE is required to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. The results of the previous round of interim groundwater sampling activities, performed at this GMA in fall 2005, were provided in GE’s January 2006 *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Fall 2005* (Fall 2005 GMA 1 Groundwater Quality Report), which was conditionally approved by EPA in a letter dated May 10, 2006.

The results of the most recent round of interim groundwater sampling activities conducted in spring 2006 are provided in this *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Spring 2006* (Spring 2006 GMA 1 Groundwater Quality Report). It should be noted that this report is intended to provide groundwater quality information for GMA 1. The results of GE’s groundwater flow monitoring, as well as assessments of the presence and extent of NAPL at GMA 1 (including summaries of GE’s NAPL recovery efforts), are presented in separate semi-annual reports submitted under GE’s NAPL monitoring program. The most recent GMA 1 NAPL monitoring report (covering the fall 2005 monitoring period) was submitted to EPA on February 27, 2006 and the NAPL monitoring report for the spring 2006 monitoring period will be submitted to EPA by August 31, 2006.

1.2 Background Information

As discussed above, the CD and SOW provide for the performance of groundwater-related monitoring and NAPL removal activities at a number of GMAs. Some of these GMAs, including GMA 1, incorporate multiple RAAs to reflect the fact that groundwater may flow between RAAs. GMA 1 encompasses 11 RAAs and occupies an area of approximately 215 acres (Figures 1 and 2). The RAAs within GMA 1 are:

- RAA 1 - 40s Complex;
- RAA 2 - 30s Complex;
- RAA 3 - 20s Complex;
- RAA 4 - East Street Area 2-South;
- RAA 5 - East Street Area 2-North;
- RAA 6 - East Street Area 1-North;
- RAA 12 - Lyman Street Area;
- RAA 13 - Newell Street Area II;
- RAA 14 - Newell Street Area I;
- RAA 17 - Silver Lake Area; and
- RAA 18 - East Street Area 1-South.

GMA-1 contains a combination of GE-owned and non-GE-owned industrial areas, residential properties, and recreational areas, including land formerly owned by GE that has been, or will be, transferred to the Pittsfield Economic Development Authority (PEDA) pursuant to the Definitive Economic Development Agreement (DEDA). The Housatonic River flows through the southern portion of this GMA, while Silver Lake is located along the western boundary. Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Re-channelization 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.

Groundwater flow patterns at GMA 1 generally reflect the topography of the site with flow toward the Housatonic River, except where influenced by features such as Silver Lake, the recharge pond, or by recovery systems which are pumped to induce hydraulic depressions in their vicinity. Although variations occur in

groundwater elevations at various wells or portions of GMA 1, overall groundwater flow patterns have remained relatively stable for years. Groundwater flow conditions observed during spring 2006 display the typical patterns observed at GMA 1, and will be discussed in further detail in GE's upcoming *Plant Site 1 Groundwater Management Area NAPL Monitoring Report for Spring 2006*.

As discussed in Section 1.1 above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs, including the implementation of groundwater monitoring, assessment, and recovery programs. In general, these programs consist of a baseline monitoring program conducted over a period of at least two years to establish existing groundwater conditions and a long-term monitoring program performed to assess groundwater conditions over time and to verify the attainment of the Performance Standards for groundwater. As set forth in the GMA 1 Baseline Monitoring Proposal and Addendum, the baseline monitoring program at this GMA initially involved a total of 65 monitoring wells. Subsequent modifications to the program resulted in the addition of one well (LSSC-08I) and replacement of five wells with substitute monitoring wells (ESA2S-52 for ES2-17, MW-3R for MW-3, GMA1-13 for 95-9, ESA1S-33 for ES1-8, and ES1-23R for ES1-23). All of these wells were monitored for groundwater elevations on a quarterly basis and sampled on a semi-annual basis for analysis of PCBs and/or certain other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3). The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well.

After the fourth baseline sampling event at most of the wells in GMA 1 in spring 2003, EPA approved the implementation of the interim monitoring program until the completion of the soil-related Removal Actions at the GMA 1 RAAs, at which time a long-term monitoring program will commence. In the Spring 2003 GMA 1 Groundwater Quality Report, GE described its proposed interim groundwater quality monitoring program. Certain specific monitoring tasks were to be performed in fall 2003, and GE submitted its Fall 2003 GMA 1 Groundwater Quality Report providing the results of those tasks. Beginning in spring 2004, as approved by EPA, the interim groundwater quality monitoring program was to consist of annual sampling (alternating between the spring and fall seasons) and analysis for select constituents at 22 GMA 1 wells. Locations selected for interim groundwater quality monitoring were wells downgradient of known NAPL areas/recovery systems where no additional hydraulic controls are in place, and/or those where analytical results from the baseline monitoring rounds did not conclusively indicate whether long-term monitoring would be necessary. In addition, one well was replaced based on technical discussion between EPA and GE, and GE was to continue its efforts to

complete baseline sampling and analyses at two GMA 1 baseline monitoring wells (GMA1-2 and GMA1-4) where four baseline sampling rounds had yet to be completed.

Based on the spring 2004 groundwater sampling event, GE discussed certain modifications to the interim program with EPA during a technical meeting on May 21, 2004, and submitted a letter to EPA on June 15, 2004 documenting the modifications to the interim groundwater monitoring program that EPA and GE had agreed would be implemented in the future. As a result, in fall 2004, GE conducted a limited sampling event at replacement locations for the wells that could not be sampled in spring 2004, in addition to certain wells that were previously scheduled for semi-annual sampling. On January 28, 2005, GE submitted its Fall 2004 GMA 1 Groundwater Quality Report, providing the results of those tasks. In that document, GE proposed to remove wells GMA1-2 and GMA1-4 from the monitoring program. In addition, the sampling frequency for monitoring well MW-4R was proposed to be modified from semi-annual to annual monitoring and a reduced analytical parameter list was proposed for this location. Those proposals were approved by EPA in a letter dated May 31, 2005, and, in fall 2005, GE conducted the approved interim groundwater sampling activities for GMA 1.

In fall 2005, as approved by EPA, GE evaluated the presence of cyanide by submitting each sample for two separate analyses: (1) the standard method that has been utilized in the program (i.e., EPA Method 9014); and (2) the modified analytical method finalized by MDEP to determine the concentrations of physiologically available cyanide (PAC). The PAC protocols are contained in an August 13, 2004 MDEP document entitled *Quality Assurance and Quality Control Requirements and Performance Standards for SWC-846 Method 9014, Total Cyanide and the MADEP Physiologically Available Cyanide (PAC) Protocol for the Massachusetts Contingency Plan (MCP)*. Based on the results from that sampling event, GE proposed to implement the PAC Protocol for all future cyanide analyses at GMA 1. Additionally, to further assess the presence of PAC at GMA 1, GE proposed to sample wells E2SC-24 and ESA2S-64 during spring 2006 and analyze those samples for cyanide utilizing MDEP's PAC protocols. EPA approved the modifications to the interim sampling program as part of its conditional approval of the Fall 2005 GMA 1 Groundwater Quality Report. The results of the additional sampling are presented in Section 3.2.4.

A separate non-GE-related disposal site, as designated under the MCP, is located on an adjacent property near the northern edge of the Lyman Street Area. This disposal site is the O'Connell Mobil Station site (MDEP Site No. 1-13347) (also referred to as the "East Street Mobil Site") at 730 East Street. GE understands this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21E and the MCP. Available documentation indicates that soluble-phase contaminants

related to gasoline releases from the East Street Mobil Site may have migrated onto GMA 1. GE is required to include available monitoring results from response actions performed at this adjacent site in the groundwater monitoring reports for GMA 1, to the extent that information is available to GE. To fulfill this requirement, GE conducted a file search at MDEP in June 2006 to review any reports that have been submitted regarding this site since submittal of the Fall 2005 GMA 1 Groundwater Quality Report. The most recent report on file is a March 2004 report entitled *Phase IV Remedy Implementation Plan; 730 East Street; Pittsfield, MA; RTN# 1-13347* (Phase IV RIP), prepared by ECS Marin on behalf of O'Connell Oil Associates, Inc. GE has previously discussed that report in the Spring 2004 GMA 1 Groundwater Quality Report.

1.3 Format to Document

The remainder of this report is presented in four sections. Section 2 describes the groundwater quality-related activities performed at GMA 1 in spring 2006. Section 3 presents the analytical results obtained during the spring 2006 sampling event performed between April 3, 2006 and April 14, 2006. 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 2006 activities, including a comparison to those Performance Standards. Finally, Section 5 proposes modifications to the interim groundwater quality monitoring program, and presents the schedule for future field and reporting activities related to groundwater quality at GMA 1.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the interim groundwater monitoring program, and summarized herein, primarily involved the collection and analysis of groundwater samples at select monitoring wells within GMA 1, as described in Table 1. The construction details of the wells are provided in Table 2 and the spring 2006 field sampling data are presented in Appendix B. This section discusses the field procedures used to collect groundwater samples and the methods used to analyze the samples. All activities were performed in general accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP)*.

2.2 Groundwater Sampling and Analysis

The spring 2006 groundwater sampling event was performed between April 3 and 14, 2006. Groundwater samples were collected from all 24 groundwater monitoring wells scheduled for interim sampling, including one well (ESA2S-64) added in spring 2006 for supplemental cyanide analysis. All of the groundwater samples were collected by the low-flow techniques as specified in the FSP/QAPP. Low-flow sampling techniques using either a bladder or peristaltic pump were utilized for the purging and collection of groundwater samples during this sampling event. The sampling methods utilized at each well are specified in Appendix B. Each monitoring well was purged utilizing low-flow techniques until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized prior to sample collection. Field parameters were measured in combination with the sampling activities at the monitoring wells. The stabilized field parameter measurements are presented in Table 3 and the field sampling data are provided in Appendix B. A general summary of the field measurement results during the spring 2006 monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units (NTU)	0.0 - 49
pH	pH units	6.22 - 8.08
Specific Conductivity	Millisiemens per centimeter	0.36 - 16.58
Oxidation-Reduction Potential	Millivolts	-143.0 - 301.3
Dissolved Oxygen	Milligrams per liter	0.43 - 8.44
Temperature	Degrees Celsius	5.49 - 13.62

The collected groundwater samples were submitted to SGS Environmental Services, Inc. of Charleston, West Virginia for laboratory analysis. For the groundwater samples that were monitored for compliance with the GW-3 standards, the samples were submitted for analysis of some or all of the following constituents using the associated EPA methods:

CONSTITUENT	EPA METHOD
VOCs	8260B
Semi-Volatile Organic Compounds (SVOCs)	8260B (see below)
PCBs (Filtered Samples)	8082
Physiologically Available Cyanide (Filtered Samples)	9014/MDEP PAC Protocol

For the groundwater samples collected from wells that were monitored solely for compliance with the GW-2 standards, the samples were submitted for analysis of the VOCs listed in GE's FSP/QAPP, as well as five compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). The VOCs and five SVOCs were analyzed using EPA Method 8260B in accordance with a letter from GE to EPA dated September 28, 2001.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the Massachusetts Contingency Plan (MCP) Method 1 GW-2 (where applicable) and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater. As discussed below in Section 4.2, this comparison used the revised MCP numerical standards issued on January 9, 2006, effective as of April 3, 2006, for those constituents for which revised standards were issued. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site. Finally, the data were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. The data validation report is provided in Appendix D. As discussed in the data validation report, 100% of the spring 2006 groundwater quality data are considered to be useable. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

3. Spring 2006 Analytical Results

3.1 General

A description of the spring 2006 groundwater analytical results is presented in this section. The complete analytical data sets are summarized in Appendix A. Tables 4 and 5 provide a comparison of the concentrations of all detected constituents with the currently applicable groundwater quality Performance Standards established in the CD and SOW, while Table 6 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.2 Groundwater Sample Results

The following paragraphs provide an overview of the spring 2006 analytical results from the GMA 1 groundwater quality monitoring wells for each constituent group that was analyzed.

3.2.1 VOC Results

Six groundwater samples were analyzed for VOCs during the spring 2006 sampling event. The VOC analytical results are summarized in Table A-1 of Appendix A. No VOCs were detected in two of the groundwater samples (wells 72R and GMA1-6), while nine individual VOCs were observed in the remaining samples. Where detected, total VOC concentrations ranged from an estimated concentration of 0.0075 ppm (at well LSSC-16) to 0.57 ppm (at well N2SC-7S). Three VOCs (benzene, chlorobenzene, and vinyl chloride) were detected in more than one groundwater sample. All detected VOC constituents were well below the applicable Method 1 GW-2 and GW-3 standards.

3.2.2 SVOC Results

Three groundwater samples were analyzed for five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene) in conjunction with VOC analyses performed for three GW-2 wells, as discussed in Section 2.2. The SVOC analytical results are summarized in Table A-1 of Appendix A. No SVOCs were detected in the three GW-2 wells.

3.2.3 PCB Results

Filtered groundwater samples from seventeen monitoring wells were analyzed for PCBs as part of the spring 2006 sampling event. The PCB analytical results are summarized in Table A-1 of Appendix A. PCBs (Aroclors 1248, 1254, and /or 1260) were detected in 13 of the wells analyzed for PCBs, excluding wells GMA1-6, LS-MW-4R, N2SC-7S, and RF-2, at which no PCBs were detected. Total detected PCB concentrations in the remaining filtered samples ranged from an estimated concentration of 0.000087 ppm (at well ESA1N-52) to 0.0062 ppm (at well LSSC-18). As discussed in Section 4.3.2 below, seven of the groundwater samples contained PCBs at concentrations above the applicable MCP Method 1 GW-3 standard of 0.0003 ppm during spring 2006, and the remaining six of the groundwater samples containing PCBs showed concentrations below the GW-3 standard. PCB concentrations in one well (LSSC-18, at 0.0062 ppm) also exceeded the MCP UCL of 0.005 ppm for PCBs in groundwater. As discussed below, an unfiltered sample from this well has exceeded the UCL in a previous sampling round.

3.2.4 Cyanide Results

As discussed above, GE evaluated the presence of cyanide by analyzing seven filtered samples using the modified analytical method finalized by MDEP to determine the concentrations of physiologically available cyanide (PAC). The analytical results for these samples are summarized in Table A-1 of Appendix A. Cyanide was not detected in three of the groundwater samples (RF-16, 72R, and E2SC-24). In the remaining four samples, estimated cyanide concentrations ranged from 0.0037 ppm (well ESA2S-64) to 0.006 ppm (well HR-G1-MW-3). All detected cyanide concentrations were well below the recently revised MCP Method 1 GW-3 standard of 0.030 ppm.

4. Assessment of Results

4.1 General

This report constitutes the fifth interim monitoring report and is the ninth groundwater quality monitoring report submitted since commencement of the GMA 1 baseline groundwater monitoring program. The information presented herein is based on the laboratory results obtained during the spring 2006 groundwater sampling event, supplemented with historical groundwater analytical data when applicable.

4.2 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 1 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 1 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 be ultimately discharged to surface water. It should be noted that some groundwater within GMA 1 does not in fact discharge directly to surface water because of the operation of numerous groundwater pumping systems. Water extracted from these systems is transferred to an on-site treatment plant for processing prior to discharge. Nevertheless, in accordance with the CD and SOW, all groundwater at GMA 1 is considered as GW-3.

The CD and the 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 (310 CMR 40.0974). These “default” standards have been developed to be conservative and will serve as the initial basis for evaluating groundwater at GMA 1. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the spring 2005 sampling event are listed in Tables 4 and 5, 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, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are 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.

On January 9, 2006, MDEP approved revised Method 1 numerical standards for a number of constituents in groundwater. The revised standards became effective on April 3, 2006. GE previously proposed to incorporate the revised MCP Method 1 Groundwater Standards into future data assessments once implemented, and this report constitutes the first report at this GMA for which those standards will be used.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 1 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 designated as the compliance points for attainment of the Performance Standards identified above. These wells were initially identified in the GMA 1 Baseline Monitoring Proposal (although certain modifications were made subsequent to submittal of that proposal as a result of EPA approval conditions, findings during field reconnaissance of the selected wells, or replacement of certain wells during the course of the baseline monitoring program). As described above in Section 2.2, only selected wells were sampled in spring 2006.

4.3 Groundwater Quality – Spring 2006

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the spring 2006 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 1. 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 2006 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP UCLs for groundwater. In support of those discussions, Tables 4 and 5 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 6 presents a comparison of the concentrations of detected constituents with the groundwater UCLs.

4.3.1 Spring 2006 Groundwater Results Relative to GW-2 Performance Standards

As part of the spring 2006 program, groundwater samples were collected from three wells designated as GW-2 monitoring locations that were scheduled to be sampled for the GW-2 VOC list (i.e., specifically wells 72R, GMA1-6, and LSSC-16S). Although wells ESA1N-52, 139R, and GMA1-18 are also designated as GW-2/GW-3 monitoring locations, these wells are only scheduled for sampling and analysis for PCBs (which does not currently have an associated GW-2 standard) under this interim monitoring program. Therefore, comparisons to the MCP Method 1 GW-2 standards were not performed for these wells.

The spring 2006 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 Standards are presented in Table 4. As shown in Table 4, none of the spring 2006 sample concentrations from the GW-2 monitoring wells sampled for VOCs was above the corresponding GW-2 Performance Standard. In addition, none of the GW-2 wells sampled for VOCs exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells located within 30 feet of a school or occupied residential structure and as a trigger level for the proposal of interim response actions). These results are consistent with the results from prior sampling events.

4.3.2 Spring 2006 Groundwater Results Relative to GW-3 Performance Standards

Groundwater samples were collected from each of the 23 wells designated for GW-3 monitoring that were scheduled to be sampled during the spring 2006 interim sampling event. The spring 2006 groundwater

analytical results for all constituents detected in GW-3 monitoring wells and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 5. Although that table provides a comparison of the spring 2006 analytical results from all 23 GW-3 monitoring wells that were sampled in spring 2006, only 15 of those wells (i.e., the downgradient GW-3 perimeter wells as identified in Table 1) have been designated as compliance points for the GW-3 standards.

The comparisons set forth in Table 5 show that no VOCs, SVOCs, or PAC were detected at concentrations above their respective MCP Method 1 GW-3 standards, while the filtered PCB sample results from seven GW-3 locations were above the MCP Method 1 GW-3 standard of 0.0003 ppm for PCBs. These seven samples were those collected from wells ES1-5, E2SC-23, E2SC-24, HR-G3-MW-1, LS-29, LSSC-8S, and LSSC-18. All of these locations except for well LS-29 are downgradient perimeter wells. Filtered PCB concentrations in excess of the MCP Method 1 GW-3 standard were previously detected in each of these wells, although the PCB concentrations in wells LSSC-8S and LSSC-18 were higher than the concentrations in filtered samples analyzed from those wells during prior sampling events. In addition, although filtered PCB concentrations above the GW-3 standard were detected in well 139R for the first time in fall 2005, the concentration in this well did not exceed the GW-3 standard in spring 2006. As discussed in Section 4.4 below, GE's proposed response to the current exceedances of the GW-3 standards is to continue the interim monitoring program at most of the wells and to perform a supplemental sampling round at wells LSSC-8S and LSSC-18 (where PCBs were detected at concentrations higher than previously detected at these wells).

4.3.3 Spring 2006 Comparison to Upper Concentration Limits

In addition to comparing the spring 2006 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, the analytical results from all 24 wells that were sampled were compared with the UCLs for groundwater specified in the MCP (310 CMR 40.0996(7)). As shown in Table 6, the only spring 2006 sample where constituent concentrations were detected above a UCL for groundwater was collected from well LSSC-18, where the filtered PCB concentration of 0.0062 ppm was slightly greater than the UCL for groundwater of 0.005 ppm. A PCB concentration in excess of the UCL for groundwater has previously been detected in an unfiltered sample from this location.

4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB and cyanide concentrations for all wells sampled in spring 2006 that have been previously sampled and analyzed for those constituents are presented in Appendix C. In addition, Appendix C contains graphs of historical concentrations of individual constituents that exceeded the applicable MCP Method 1 GW-3 standards or UCLs during any of the prior baseline monitoring program sampling events at GW-3 monitoring wells that were analyzed for those constituents in spring 2006. Because no exceedances of the MCP Method 1 GW-2 standards have been documented at the GW-2 monitoring wells during the baseline and interim monitoring programs, no graphs have been prepared for the GW-2 sampling data. A review of the graphs contained in Appendix C, as well as historical data from the GMA 1 wells, indicates that the concentrations of most constituents has decreased or remained relatively stable at low levels during the baseline monitoring period, with the exception of PCB concentrations in certain wells. Although the PCB data show no clear trend at most locations, a few wells have shown an increase in PCB concentrations during recent sampling events. In Section 5.2 below, GE proposes to continue to monitor most of these wells during the interim program to further evaluate these potential trends in the data.

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed Method 1 GW-3 standards at downgradient perimeter monitoring wells, in which: (a) such an exceedance had not previously been detected, or (b) there was a previous exceedance 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 exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

For five of the seven wells where the Method 1 GW-3 standard for PCBs was exceeded (wells ES1-5, E2SC-23, E2SC-24, HR-G3-MW-1, and LS-29), prior PCB data from these wells have shown similar or greater concentrations than those detected during spring 2006. The filtered PCB results from wells LSSC-08S and LSSC-18 are higher than previous filtered PCB concentrations for these locations, although filtered samples above the Method 1 GW-3 standard have previously been collected from these wells. In addition, prior data from unfiltered samples analyzed from location LSSC-18 have shown PCB concentrations greater than the levels detected in the spring 2006 filtered sample (0.0062 ppm). Although the concentrations of PCBs at both

locations are less than 100 times the MCP Method 1 GW-3 standard, GE's proposed response to these detections is to conduct a supplemental round of sampling in fall 2006 (discussed in Section 5.2.2 below). Based on the results of that additional sampling, GE may propose to increase the sampling frequency at these two locations, return to the approved schedule for the interim groundwater sampling program, or make another proposal.

5. Monitoring Program Modification and Schedule of Future Activities

5.1 General

In spring 2004, GE initiated the interim groundwater monitoring program to be conducted until completion of the soil-related Removal Actions at the RAAs that comprise GMA 1. Aside from completing baseline sampling events at certain locations that could not be sampled during every round of the initial two-year baseline monitoring program (which was accomplished), the interim monitoring program is designed to obtain additional data from locations where it is not yet clear whether the initial baseline groundwater quality results indicate that the well may require future monitoring in a long-term monitoring program.

This section contains a description of GE's proposed modifications to the interim groundwater monitoring program. These proposed modifications are of two general types. First, in response to the recent revisions to the MCP Method 1 standards and UCLs for groundwater which became effective on April 3, 2006, GE has re-evaluated the historical data from all baseline monitoring program wells and proposed modifications to the interim monitoring program to address changes in the numerical standards. Second, GE has proposed modifications based on the results of the spring 2006 groundwater sampling event. This section also addresses the schedule for future groundwater quality monitoring activities and reporting for GMA 1. Specifically, this section provides a schedule for a proposed fall 2006 supplemental sampling event, the upcoming fall 2007 interim monitoring event, and associated reporting activities. A summary of the proposed interim sampling program is provided in Table 7. Figure 3 illustrates the wells proposed for future interim monitoring activities.

5.2 Proposed Modifications to Interim Monitoring Program

As noted above, in response to the new Method 1 numerical standards promulgated by MDEP for certain constituents, GE re-evaluated the results from the baseline monitoring program to determine if the new Performance Standards would alter the wells and/or parameters included in the interim monitoring program. GE has also reviewed the groundwater analytical data from the spring 2006 interim sampling event for results that would indicate the need to modify the interim monitoring program. The results of that data assessment and resulting proposed program modifications are discussed in Section 5.2.1 below.

As discussed further below, GE proposes to conduct a supplemental sampling event in fall 2006 at two GMA 1 wells where constituent concentrations were significantly higher in spring 2006 than in recent sampling events. The proposed supplemental sampling event is described in Section 5.2.2 below.

5.2.1 Modifications to Annual Sampling Program

In the Spring 2003 GMA 1 Groundwater Quality Report, GE presented an evaluation of the baseline monitoring results from GMA 1 and proposed to retain certain wells for selected analyses in the interim monitoring program to provide additional data to assist in the determination of whether long-term monitoring would be necessary. Generally speaking, wells that contained constituent concentrations near the values of the future Performance Standards (i.e., average concentrations ranging from greater than 50% of an applicable MCP Method 1 Standard to slightly above the standard) were retained for interim monitoring. In addition, selected wells/analyses were added to the interim monitoring program regardless of constituent concentrations relative to standards based on their location in areas of interest (e.g., adjacent to known source areas and upgradient from occupied buildings), or if constituent concentrations exhibited an increasing trend during the course of baseline monitoring. Groundwater quality monitoring was proposed to be discontinued at locations where constituent concentrations were well below the applicable MCP Method 1 Standards and at locations where concentrations consistently exceeded the standards, as it was apparent that such locations either would not or would be included in a long-term monitoring program.

In light of the recent revisions to the MCP that became effective on April 3, 2006, GE has repeated this evaluation, comparing all baseline and interim groundwater quality data to the new MCP Method 1 Standards. Utilizing the same inclusion criteria utilized in spring 2003 at GMA 1 (and at the other GMAs once their two-year baseline monitoring periods expired), GE's assessment indicated that certain baseline wells that were previously excluded from the interim monitoring program based on historical concentrations of certain constituents such as chlorobenzene that were above the levels of the previously-effective MCP Method 1 standards are now either much closer to the MCP Method 1 standards such that interim monitoring is warranted to assess the need for inclusion of these locations in a long-term monitoring program, or sufficiently below the MCP Method 1 standards such that further monitoring is not necessary. GE's assessment also indicated that certain wells previously included in the interim monitoring program based on historical concentrations of certain constituents such as cyanide near the levels of the previously-effective MCP Method 1 standards are no longer of interest based on an increase in those standards. Accordingly, GE has identified several locations that should

be added to or removed from the interim monitoring program, based on those comparisons. Specifically, GE proposes to:

- Add wells 3-6C-EB-14, ES2-2A, ESA2S-64 to the interim monitoring program for VOC analysis. These additions are proposed due to the increase in the MCP Method 1 GW-3 groundwater standard for chlorobenzene from 0.50 ppm to 1.0 ppm. Interim sampling for chlorobenzene had not been implemented at these locations since baseline concentrations were consistently greater than the former GW-3 standard. Now that the standard has increased, it is no longer clear whether long-term monitoring will be necessary. In addition, total xylenes concentrations at well ESA2S-64 are slightly greater than 50% of the new MCP Method 1 GW-3 groundwater standard of 0.5 ppm, which was reduced from 50 ppm.
- Remove wells N2SC-07S, NS-17 from interim monitoring for VOCs. Following the increase in the MCP Method 1 GW-3 standard for chlorobenzene from 0.50 ppm to 1.0 ppm, the average chlorobenzene concentrations at these locations are well below the new standard. As such, additional monitoring for VOCs (which was previously performed to assess chlorobenzene) is no longer appropriate at these locations.
- Remove wells E2SC-24, ES2-2A, ESA2S-52, ESA2S-64, HR-G1-MW-3, and RF-16 from interim monitoring for cyanide. Following the increase in the MCP Method 1 GW-3 standard for cyanide from 0.010 ppm to 0.030 ppm, the average cyanide concentrations at these locations are well below the new standard. As such, additional monitoring for cyanide is no longer appropriate at these locations.
- Add metals analysis to the interim analyte list at well 72R, which is currently monitored for VOCs (plus five SVOCs), cyanide, and PCBs as a replacement for wells ES1-8 and ESA1S-33, to assess concentrations of certain metals detected at well ES1-8 such as cadmium and lead for which the MCP Method 1 GW-3 standards have been reduced (cadmium GW-3 standard was reduced from 0.01 ppm to 0.004 ppm and lead GW-3 standard was reduced from 0.03 ppm to 0.01 ppm), resulting in concentrations slightly below their respective MCP Method 1 GW-3 groundwater standards.

For PCBs, the Method 1 standards are unchanged from prior values, although MDEP states that the PCB standards will be subject to a further change following a future proposal by MDEP. As such, GE has continued to utilize the current MCP Method 1 standards for PCBs for its assessment of the spring 2006 data and also in its

re-assessment of all baseline and interim groundwater quality data collected to date. Based on those results, GE proposes the following modification to the interim monitoring program relative to PCBs:

- Average filtered PCB concentrations are well below the MCP GW-3 standards at wells MW-4R and RF-2. As such, GE proposes to remove these wells from the interim monitoring program.

In addition, three GW-2 wells (LSSC-16S, 72R, and GMA1-6) were retained as part of the interim monitoring program for analysis of VOCs and five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). No SVOCs have been detected at any of the three locations since the spring 2004 monitoring round. However, since these wells were included for interim sampling based on their location between known LNAPL areas and occupied buildings, GE will continue to monitor them for these select SVOCs (along with VOCs) as part of its GW-2 monitoring activities. Wells 72R (PCBs, metals, and cyanide) and GMA1-6 (PCBs) will also continue to be monitored as GW-3 Source Area Sentinel wells downgradient of known NAPL areas. Other locations where GE proposes to retain the current interim analyses include the following:

- Although VOC concentrations were well below their respective MCP GW-3 standards at wells MW-4R, GE proposes to retain this well in the interim monitoring program due to a slightly elevated VOC concentration during the spring 2006 sampling events.
- Although average filtered PCB concentrations were well below the MCP GW-3 standards at wells 139R, GMA1-13 and GMA1-18, GE proposes to retain these wells in the interim monitoring program to continue to evaluate average PCB concentrations.
- Filtered PCB concentrations were near or slightly below the MCP GW-3 standards at wells E2SC-24, ES1-5, ES1-27R, ESA1N-52, and N2SC-07S. Therefore, GE proposes to retain these wells in the interim monitoring program to continue to assess the need for long-term monitoring.
- Filtered PCB concentrations at wells E2SC-23 and LSSC-8S have been above the MCP GW-3 standards on several occasions. GE will retain these wells in the interim monitoring program due to previous EPA requests to continue interim sampling and to assess the exceedances further. In addition, GE proposes to conduct a supplemental sampling round in Fall 2006 at well LSSC-8S, as discussed in Section 5.2.2 below.

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- Filtered PCB concentrations in spring 2006 and prior monitoring events were also above the MCP GW-3 standards at wells HR-G3-MW-1, LS-29, and LSSC-18. GE proposes to retain these wells in the interim monitoring program to monitor potential trends in PCB concentrations at these locations. In addition, as discussed in Section 5.2.2 below, GE proposes to conduct supplemental sampling for PCBs at well LSSC-18 in fall 2006.

Per Condition 4 of EPA's May 10, 2006 conditional approval letter, GE has installed four additional monitoring wells around the perimeter of the Newell Street Area II Removal Action Area (GMA1-25, GMA1-26, GMA1-27, and GMA1-28) for the purpose of monitoring water table elevations (see Figure 3). Groundwater elevations from those wells will be monitored on a quarterly basis for a period of one year (beginning in July 2006) to define groundwater flow patterns around Newell Street Area II. The results of this groundwater monitoring will be incorporated into groundwater flow mapping as part of GE's NAPL monitoring reports. In addition, following the fourth round of quarterly monitoring, GE will summarize the groundwater elevation monitoring results at these wells in a letter to EPA, as discussed in Section 5.4 below.

5.2.2 Proposed Supplemental Sampling Round

In addition to the proposed modifications to the interim sampling program discussed above, GE proposes to conduct a supplemental sampling event in fall 2006 at two wells where GE believes that sampling in the fall season is warranted based on recent results. As shown in the graphs in Appendix C and discussed above in Sections 4.3.2, 4.3.3, and 4.4, filtered PCB concentrations at wells LSSC-08S and LSSC-18 were detected at elevated concentrations in spring 2006. In response to these results, filtered samples from wells LSSC-8S and LSSC-18 are proposed to be collected and analyzed for PCBs to further assess increases in PCB concentrations observed at these wells in spring 2006.

5.3 Field Activities Schedule

If approved by EPA, GE will conduct the proposed supplemental sampling discussed in Section 5.2.2 above in October 2006. The next full interim groundwater quality sampling round is scheduled for October 2007.

Groundwater elevations at the new wells installed at Newell Street Area II will be monitored during quarterly monitoring rounds conducted in July 2006, October 2006, January 2007, and April 2007, while all wells

included in GE's groundwater quality and NAPL monitoring programs will be gauged as part of the October 2006 and April 2007 semi-annual monitoring events.

Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

5.4 Reporting Schedule

GE will continue to provide the results of preliminary groundwater analytical data in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

GE will submit a Fall 2006 Supplemental Groundwater Quality Report for GMA 1 to EPA by January 31, 2007. That report will present and discuss the validated results of the fall 2006 supplemental sampling event and propose further modifications to the interim sampling program based on those results, if necessary.

Following completion of one year of monitoring at Newell Street Area II wells GMA 1-25 through GMA1-28, GE will prepare a brief letter to EPA summarizing the monitoring results, including representative groundwater elevation contour mapping. Since the final round of water level monitoring at these locations is scheduled to be conducted in April 2007, GE proposes to submit the summary letter to EPA by June 30, 2007.

GE will submit the Fall 2007 Interim Groundwater Quality Report for GMA 1 by January 31, 2008, in accordance with the reporting schedule approved by EPA. That report will present the final, validated fall 2007 interim sampling results and a brief discussion of the results, including any proposals to further modify the interim monitoring program, if necessary. GE will also include an updated summary of available groundwater monitoring results and analytical data collected at the adjacent East Street Mobil Site, to the extent that such information is available to GE.

Subsequent annual Interim Groundwater Quality Reports for GMA 1 will be submitted by January 31 where sampling activities were performed in the prior fall, or by July 31 where sampling activities were performed in the prior spring.

Tables

TABLE 1
SPRING 2006 INTERIM GROUNDWATER QUALITY MONITORING ACTIVITIES
PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Spring 2006 Analyses ⁽²⁾	Comments
RAA 1 - 40s COMPLEX				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				
RAA 2 - 30s COMPLEX				
RF-02	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
RF-16	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	Cyanide	MDEP PAC (Physiologically Available Cyanide) Protocols utilized
RAA 3 - 20s COMPLEX				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				
RAA 4 - EAST STREET AREA 2-SOUTH				
GMA1-13	GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	PCB	
E2SC-23	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
E2SC-24	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾ / Spring 2006	PCB / Cyanide	PCB analysis conducted on annual basis per approved program / Supplemental cyanide analysis utilizing MDEP PAC (Physiologically Available Cyanide) Protocols conducted in spring 2006
ES2-02A	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	Cyanide	MDEP PAC (Physiologically Available Cyanide) Protocols utilized
ESA2S-52	GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	Cyanide	MDEP PAC (Physiologically Available Cyanide) Protocols utilized
ESA2S-64	GW-3 Perimeter (Downgradient)	Spring 2006	Cyanide	Supplemental cyanide analysis utilizing MDEP PAC (Physiologically Available Cyanide) Protocols conducted in spring 2006
HR-G1-MW-3	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	Cyanide	MDEP PAC (Physiologically Available Cyanide) Protocols utilized
HR-G3-MW-1	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	

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PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Spring 2006 Analyses ⁽²⁾	Comments
RAA 5 - EAST STREET AREA 2-NORTH				
ES1-05	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
ES1-27R	GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	PCB	
RAA 6 - EAST STREET AREA 1-NORTH				
ESA1N-52	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	PCB	
RAA 12 - LYMAN STREET AREA				
LS-29	GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	PCB	
LSSC-08S	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
LSSC-16S	GW-2 Sentinel	Annual ⁽¹⁾	VOC (+5 SVOC)	
LSSC-18	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
MW-4R	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	VOC/PCB	
RAA 13 - NEWELL STREET AREA II				
N2SC-07S	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	VOC/PCB	
NS-17	GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	VOC	
RAA 14 - NEWELL STREET AREA I				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				

TABLE 1
SPRING 2006 INTERIM GROUNDWATER QUALITY MONITORING ACTIVITIES
PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Spring 2006 Analyses ⁽²⁾	Comments
RAA 18 - EAST STREET AREA 1 SOUTH				
139R	GW-2 Sentinel/ GW-3 Perimeter (Downgradient)	Annual ⁽¹⁾	PCB	
72R	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	VOC (+5 SVOC)/ PCB/Cyanide	MDEP PAC (Physiologically Available Cyanide) Protocols utilized for cyanide analysis
GMA1-6	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	VOC(+5 SVOC)/ PCB	
GMA1-18	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual ⁽¹⁾	PCB	

NOTES:

1. The wells scheduled for annual groundwater quality sampling are sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule alternates between the spring and fall seasons each year, beginning with spring 2004.
2. All analyses for PCB, metals, and cyanide conducted under the annual interim monitoring program are performed on filtered samples only.

**TABLE 2
MONITORING WELL CONSTRUCTION**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

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	Eastings							
RAA 2 - 30s Complex									
RF-02	533507.3	131111.2	4	983.4	982.43	3.0	15.0	980.4	965.4
RF-16	534255.3	130931.5	4	988.2	987.91	7.0	15.0	981.2	966.2
RAA 4 - East Street Area 2-South									
E2SC-23	533344.4	133132.7	2	990.1	992.07	9.0	10.0	981.1	971.1
E2SC-24	533535.5	133544.4	2	986.0	987.90	9.0	10.0	977.0	967.0
ES2-02A	533023.6	132497.9	2	980.2	979.63	3.0	15.0	977.2	962.2
ESA2S-52	533231.0	132441.0	2	985.5	985.18	4.2	20.0	981.3	961.3
ESA2S-64	533152.1	132820.0	2	985.1	984.98	7.0	5.0	978.1	973.1
GMA1-13	533785.7	133705.2	2	989.5	991.41	15.0	10.0	974.5	964.5
HR-G1-MW-3	533046.0	132710.1	2	978.3	980.21	7.0	10.0	971.3	961.3
HR-G3-MW-1	532900.3	132455.1	2	980.3	982.45	4.1	10.0	976.2	966.2
RAA 5 - East Street Area 2-North									
ES1-05	534740.6	135064.1	2	1,023.4	1,023.33	35.0	10.0	988.4	978.4
ES1-27R	534603.1	134604.2	2	1,023.4	1,023.19	9.3	10.0	1,014.1	1,004.1
RAA 6 - East Street Area 1-North									
ESA1-52	534253.8	134565.9	2	999.7	999.26	2.0	20.0	997.7	977.7
RAA 12 - Lyman Street Area									
LS-29	532807.6	131047.4	2	988.4	988.25	24.6	10.0	963.8	953.8
LSSC-08S	532408.9	130817.2	2	983.6	983.11	5.0	10.0	978.6	968.6
LSSC-16S	532500.5	130690.3	2	981.5	981.37	5.0	10.0	976.5	966.5
LSSC-18	532664.7	131107.5	2	987.6	987.32	9.0	10.0	978.6	968.6
MW-4R	532351.6	130525.4	2	981.2	980.82	5.5	10.0	975.7	965.7

**TABLE 2
MONITORING WELL CONSTRUCTION**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

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							
RAA 13 - Newell Street Area II									
N2SC-07S	532707.0	131599.5	2	983.2	982.93	8.9	10.0	974.3	964.3
NS-17	532656.2	131503.3	2	982.0	984.64	6.0	10.0	976.0	966.0
RAA 18 - East Street Area 1-South									
72R	543196.1	134234.6	4	1,001.2	1,000.92	4.0	10.0	997.2	987.2
139R	533841.6	135011.0	2	987.4	986.91	6.0	10.0	981.4	971.4
GMA1-6	534084.3	134455.5	2	1,000.7	1,000.44	5.0	10.0	995.7	985.7
GMA1-18	534221.0	134872.5	2	998.5	998.29	4.0	10.0	994.5	985.5

NOTES:

1. The listed wells were scheduled to be utilized during spring 2006 for baseline groundwater quality sampling.
2. feet AMSL: Feet above mean sea level
3. feet BGS: Feet below ground surface

TABLE 3
FIELD PARAMETER MEASUREMENTS - SPRING 2006
PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

WELL NUMBER	TURBIDITY (NTU)	TEMPERATURE (DEGREES CELSIUS)	pH (STANDARD UNITS)	SPECIFIC CONDUCTIVITY (mS/cm)	OXIDATION-REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)
RAA 2 - 30s COMPLEX						
RF-02	8.0	8.02	6.53	1.777	113.5	0.47
RF-16	3.0	7.74	6.56	1.148	204.1	6.76
RAA 4 - EAST STREET AREA 2-SOUTH						
E2SC-23	1.0	7.04	7.79	0.472	78.0	7.31
E2SC-24	6.0	8.79	7.00	1.124	-74.4	1.97
ES2-02A	6.0	9.55	7.26	1.886	-118.3	0.64
ESA2S-52	5.0	10.64	7.51	3.101	-143.0	1.22
ESA2S-64	32.0	8.89	7.00	1.612	-88.0	1.01
GMA1-13	10.0	8.77	6.22	0.821	295.8	2.33
HR-G1-MW-3	4.0	7.93	7.66	1.161	-97.4	1.73
HR-G3-MW-1	49.0	8.78	7.97	1.658	-86.0	5.52
RAA 5 - EAST STREET AREA 2-NORTH						
ES1-05	5.0	11.93	7.17	1.459	43.1	0.99
ES1-27R	32.0	8.59	7.57	0.356	192.9	7.32
RAA 6 - EAST STREET AREA 1-NORTH						
ESA1-52	28.0	8.25	8.08	16.580	-102.2	1.97
RAA 12 - LYMAN STREET AREA						
LS-29	18.0	10.02	7.97	0.513	55.0	4.13
LSSC-08S	17.0	9.02	7.01	1.478	-44.5	1.13
LSSC-16S	42.0	10.41	7.14	0.789	102.8	4.11
LSSC-18	17.0	13.62	7.63	0.597	-10.2	6.45
MW-4R	1.0	11.06	6.96	0.988	-65.8	0.72
RAA 13 - NEWELL STREET AREA II						
N2SC-07S	0.0	9.44	7.19	0.712	-72.8	2.21
NS-17	8.0	9.52	6.51	0.762	-42.7	0.43

TABLE 3
FIELD PARAMETER MEASUREMENTS - SPRING 2006
PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

WELL NUMBER	TURBIDITY (NTU)	TEMPERATURE (DEGREES CELSIUS)	pH (STANDARD UNITS)	SPECIFIC CONDUCTIVITY (mS/cm)	OXIDATION-REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)
RAA 18 - EAST STREET AREA 1-SOUTH						
72R	23.0	5.49	6.31	3.597	301.3	8.44
139R	13.0	9.14	Probe Malfunction	0.631	-35.8	7.70
GMA1-6	6.0	9.65	7.55	1.551	-91.1	2.14
GMA1-18	12.0	7.93	6.72	0.617	183.0	4.96

Notes:

1. Measurements collected during spring 2006 groundwater sampling event performed between April 3 and April 14, 2006.
2. Well parameters were generally 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)

**TABLE 4
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID:	MCP Method 1 GW-2 Standards	East St. Area 1 - South		Lyman Street Area
	Sample ID: Date Collected:		72R 04/04/06	GMA1-6 04/04/06	LSSC-16S 04/06/06
Volatile Organics					
Chloroform		0.4	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0027 J
Tetrachloroethene		0.05	ND(0.0020) [ND(0.0020)]	ND(0.0020)	0.0048
Total VOCs		5	ND(0.20) [ND(0.20)]	ND(0.20)	0.0075 J
Semivolatile Organics					
None Detected		--	--	--	--

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of PCBs (filtered), volatiles, selected semivolatiles and cyanide (filtered).
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. Only volatile and semivolatile analyses are presented for the GW-2 Standards Comparison.
4. NA - Not Analyzed.
5. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
6. Field duplicate sample results are presented in brackets.
7. Only volatile and semivolatile constituents detected in at least one sample are summarized.
8. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

**TABLE 5
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP Method 1 GW-3 Standards	30s Complex		East St. Area 1 - North	East St. Area 1 - South		
			RF-02 04/06/06	RF-16 04/06/06	ESA1N-52 04/05/06	72R 04/04/06	GMA1-18 04/05/06	GMA1-6 04/04/06
Volatile Organics								
1,1-Dichloroethene		30	NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)
Benzene		10	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Chlorobenzene		1	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Toluene		4	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
trans-1,2-Dichloroethene		50	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Vinyl Chloride		50	NA	NA	NA	ND(0.0020) [ND(0.0020)]	NA	ND(0.0020)
Xylenes (total)		0.5	NA	NA	NA	ND(0.010) [ND(0.010)]	NA	ND(0.010)
PCBs-Filtered								
Aroclor-1248		Not Listed	ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1254		Not Listed	ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011	ND(0.000065)
Aroclor-1260		Not Listed	ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs		0.0003	ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011	ND(0.000065)
Semivolatile Organics								
None Detected		--	NA	NA	NA	--	NA	--
Inorganics-Filtered								
Cyanide-MADEP (PAC)		0.03	NA	ND(0.0100)	NA	ND(0.0100) [ND(0.0100)]	NA	NA

**TABLE 5
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP Method 1 GW-3 Standards	East St. Area 1 - South	East St. Area 2 - North		East St. Area 2 - South			
			MW-139R 04/14/06	ES1-27R 04/03/06	ES1-5 04/03/06	E2SC-23 04/04/06	E2SC-24 04/05/06	ES2-02A 04/05/06	ESA2S-52 04/04/06
Volatile Organics									
1,1-Dichloroethene		30	NA	NA	NA	NA	NA	NA	NA
Benzene		10	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene		1	NA	NA	NA	NA	NA	NA	NA
Toluene		4	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		50	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		50	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)		0.5	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered									
Aroclor-1248		Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	NA	NA
Aroclor-1254		Not Listed	0.00015	0.00028	0.00021	0.0021	0.00053	NA	NA
Aroclor-1260		Not Listed	ND(0.000065)	ND(0.000065)	0.00011	0.00059	ND(0.000065)	NA	NA
Total PCBs		0.0003	0.00015	0.00028	0.00032	0.00269	0.00053	NA	NA
Semivolatile Organics									
None Detected		--	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered									
Cyanide-MADEP (PAC)		0.03	NA	NA	NA	NA	ND(0.0100)	0.00540 B	0.00550 B

**TABLE 5
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP Method 1 GW-3 Standards	East St. Area 2 - South				Lyman Street Area		
			ESA2S-64 04/04/06	GMA1-13 04/03/06	HR-G1-MW-3 04/06/06	HR-G3-MW-1 04/06/06	LS-29 04/05/06	LS-MW-4R 04/07/06	LSSC-08S 04/05/06
Volatile Organics									
1,1-Dichloroethene		30	NA	NA	NA	NA	NA	ND(0.0010)	NA
Benzene		10	NA	NA	NA	NA	NA	0.0072	NA
Chlorobenzene		1	NA	NA	NA	NA	NA	ND(0.0050)	NA
Toluene		4	NA	NA	NA	NA	NA	ND(0.0050)	NA
trans-1,2-Dichloroethene		50	NA	NA	NA	NA	NA	ND(0.0050)	NA
Vinyl Chloride		50	NA	NA	NA	NA	NA	ND(0.0020)	NA
Xylenes (total)		0.5	NA	NA	NA	NA	NA	0.0082 J	NA
PCBs-Filtered									
Aroclor-1248		Not Listed	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.0014
Aroclor-1254		Not Listed	NA	0.00022	NA	ND(0.00046)	0.0010	ND(0.000065)	0.0018
Aroclor-1260		Not Listed	NA	ND(0.000065)	NA	0.00042	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs		0.0003	NA	0.00022	NA	0.00042	0.0010	ND(0.000065)	0.0032
Semivolatile Organics									
None Detected		--	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered									
Cyanide-MADEP (PAC)		0.03	0.00370 B	NA	0.00600 B	NA	NA	NA	NA

**TABLE 5
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	MCP Method 1 GW-3 Standards	Lyman Street Area	Newell St. Area II	
	Sample ID: Date Collected:		LSSC-18 04/07/06	N2SC-07S 04/07/06	NS-17 04/07/06
Volatile Organics					
1,1-Dichloroethene		30	NA	0.0035	ND(0.0010)
Benzene		10	NA	0.012	0.0027 J
Chlorobenzene		1	NA	0.058	0.019
Toluene		4	NA	0.0016 J	ND(0.0050)
trans-1,2-Dichloroethene		50	NA	0.0037 J	ND(0.0050)
Vinyl Chloride		50	NA	0.49	0.030
Xylenes (total)		0.5	NA	ND(0.010)	ND(0.010)
PCBs-Filtered					
Aroclor-1248		Not Listed	ND(0.00025)	ND(0.000065)	NA
Aroclor-1254		Not Listed	0.0048	ND(0.000084)	NA
Aroclor-1260		Not Listed	0.0014	ND(0.000065)	NA
Total PCBs		0.0003	0.0062	ND(0.000084)	NA
Semivolatile Organics					
None Detected		--	NA	NA	NA
Inorganics-Filtered					
Cyanide-MADEP (PAC)		0.03	NA	NA	NA

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered), selected semivolatiles and cyanide (filtered).
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Field duplicate sample results are presented in brackets.
6. Shading indicates that value exceeds GW-3 Standards.
7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

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

Inorganics

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

**TABLE 6
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP UCL for Groundwater	30s Complex		East St. Area 1 - North	East St. Area 1 - South		
			RF-02 04/06/06	RF-16 04/06/06	ESA1N-52 04/05/06	72R 04/04/06	GMA1-18 04/05/06	GMA1-6 04/04/06
Volatile Organics								
1,1-Dichloroethene		100	NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA	ND(0.0010)
Benzene		100	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Chlorobenzene		10	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Chloroform		100	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Tetrachloroethene		100	NA	NA	NA	ND(0.0020) [ND(0.0020)]	NA	ND(0.0020)
Toluene		80	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
trans-1,2-Dichloroethene		100	NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)
Vinyl Chloride		100	NA	NA	NA	ND(0.0020) [ND(0.0020)]	NA	ND(0.0020)
Xylenes (total)		100	NA	NA	NA	ND(0.010) [ND(0.010)]	NA	ND(0.010)
PCBs-Filtered								
Aroclor-1248		Not Listed	ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1254		Not Listed	ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011	ND(0.000065)
Aroclor-1260		Not Listed	ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs		0.005	ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011	ND(0.000065)
Semivolatile Organics								
None Detected		--	NA	NA	NA	--	NA	--
Inorganics-Filtered								
Cyanide-MADEP (PAC)		2	NA	ND(0.0100)	NA	ND(0.0100) [ND(0.0100)]	NA	NA

**TABLE 6
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP UCL for Groundwater	East St. Area 1 - South	East St. Area 2 - North		East St. Area 2 - South			
			MW-139R 04/14/06	ES1-27R 04/03/06	ES1-5 04/03/06	E2SC-23 04/04/06	E2SC-24 04/05/06	ES2-02A 04/05/06	ESA2S-52 04/04/06
Volatile Organics									
1,1-Dichloroethene		100	NA	NA	NA	NA	NA	NA	NA
Benzene		100	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene		10	NA	NA	NA	NA	NA	NA	NA
Chloroform		100	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene		100	NA	NA	NA	NA	NA	NA	NA
Toluene		80	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		100	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		100	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)		100	NA	NA	NA	NA	NA	NA	NA
PCBs-Filtered									
Aroclor-1248		Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	NA	NA
Aroclor-1254		Not Listed	0.00015	0.00028	0.00021	0.0021	0.00053	NA	NA
Aroclor-1260		Not Listed	ND(0.000065)	ND(0.000065)	0.00011	0.00059	ND(0.000065)	NA	NA
Total PCBs		0.005	0.00015	0.00028	0.00032	0.00269	0.00053	NA	NA
Semivolatile Organics									
None Detected		--	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered									
Cyanide-MADEP (PAC)		2	NA	NA	NA	NA	ND(0.0100)	0.00540 B	0.00550 B

**TABLE 6
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP UCL for Groundwater	East St. Area 2 - South				Lyman Street Area		
			ESA2S-64 04/04/06	GMA1-13 04/03/06	HR-G1-MW-3 04/06/06	HR-G3-MW-1 04/06/06	LS-29 04/05/06	LS-MW-4R 04/07/06	LSSC-08S 04/05/06
Volatile Organics									
1,1-Dichloroethene		100	NA	NA	NA	NA	NA	ND(0.0010)	NA
Benzene		100	NA	NA	NA	NA	NA	0.0072	NA
Chlorobenzene		10	NA	NA	NA	NA	NA	ND(0.0050)	NA
Chloroform		100	NA	NA	NA	NA	NA	ND(0.0050)	NA
Tetrachloroethene		100	NA	NA	NA	NA	NA	ND(0.0020)	NA
Toluene		80	NA	NA	NA	NA	NA	ND(0.0050)	NA
trans-1,2-Dichloroethene		100	NA	NA	NA	NA	NA	ND(0.0050)	NA
Vinyl Chloride		100	NA	NA	NA	NA	NA	ND(0.0020)	NA
Xylenes (total)		100	NA	NA	NA	NA	NA	0.0082 J	NA
PCBs-Filtered									
Aroclor-1248		Not Listed	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.0014
Aroclor-1254		Not Listed	NA	0.00022	NA	ND(0.00046)	0.0010	ND(0.000065)	0.0018
Aroclor-1260		Not Listed	NA	ND(0.000065)	NA	0.00042	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs		0.005	NA	0.00022	NA	0.00042	0.0010	ND(0.000065)	0.0032
Semivolatile Organics									
None Detected		--	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered									
Cyanide-MADEP (PAC)		2	0.00370 B	NA	0.00600 B	NA	NA	NA	NA

**TABLE 6
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID Sample ID: Date Collected:	MCP UCL for Groundwater	Lyman Street Area		Newell St. Area II	
			LSSC-16S 04/06/06	LSSC-18 04/07/06	N2SC-07S 04/07/06	NS-17 04/07/06
Volatile Organics						
1,1-Dichloroethene		100	ND(0.0010)	NA	0.0035	ND(0.0010)
Benzene		100	ND(0.0050)	NA	0.012	0.0027 J
Chlorobenzene		10	ND(0.0050)	NA	0.058	0.019
Chloroform		100	0.0027 J	NA	ND(0.0050)	ND(0.0050)
Tetrachloroethene		100	0.0048	NA	ND(0.0020)	ND(0.0020)
Toluene		80	ND(0.0050)	NA	0.0016 J	ND(0.0050)
trans-1,2-Dichloroethene		100	ND(0.0050)	NA	0.0037 J	ND(0.0050)
Vinyl Chloride		100	ND(0.0020)	NA	0.49	0.030
Xylenes (total)		100	ND(0.010)	NA	ND(0.010)	ND(0.010)
PCBs-Filtered						
Aroclor-1248		Not Listed	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1254		Not Listed	NA	0.0048	ND(0.000084)	NA
Aroclor-1260		Not Listed	NA	0.0014	ND(0.000065)	NA
Total PCBs		0.005	NA	0.0062	ND(0.000084)	NA
Semivolatile Organics						
None Detected		--	--	NA	NA	NA
Inorganics-Filtered						
Cyanide-MADEP (PAC)		2	NA	NA	NA	NA

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered), selected semivolatiles and cyanide (filtered).
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Only those constituents detected in one or more samples are summarized.
6. Field duplicate sample results are presented in brackets.
7. Shading indicates that value exceeds UCL for groundwater.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

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

Inorganics

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

**TABLE 7
PROPOSED MODIFICATIONS TO INTERIM GROUNDWATER QUALITY MONITORING PROGRAM**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well Number	Monitoring Well Usage	Sampling Schedule & Analyses			Comments
		Current Annual Analyses	Proposed Supplemental Analyses (Fall 2006 Only)	Proposed Annual Analyses (Next Round: Fall 2007)	
RAA 2 - 30s COMPLEX					
RF-02	GW-3 Perimeter (Downgradient)	PCB	NONE	NONE	Although the GW-3 Standard for PCBs was equaled during a single sampling event, the average PCB concentration is less than 50% of the GW-3 Standard.
RF-16	GW-3 Perimeter (Downgradient)	Cyanide	NONE	NONE	Cyanide was only detected during one of seven sampling events, at a concentration well below the revised GW-3 Standard.
RAA 4 - EAST STREET AREA 2-SOUTH					
3-6C-EB-14	GW-3 Perimeter (Downgradient)	NONE	NONE	VOC	Average chlorobenzene concentration is slightly below the revised GW-3 Standard (i.e., greater than 50 %). Interim sampling proposed to further assess.
GMA1-13	GW-3 General/Source Area Sentinel	PCB	NONE	PCB	Average PCB concentration is well below GW-3 Standard, but interim sampling proposed for PCBs to further assess recent increased concentrations.
E2SC-23	GW-3 Perimeter (Downgradient)	PCB	NONE	PCB	Average PCB concentrations are greater than the GW-3 Standards. Interim sampling for PCBs conducted per EPA requirement.
E2SC-24	GW-3 Perimeter (Downgradient)	PCB (Cyanide in spring 2006 only)	NONE	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %) and increasing trend exhibited in data. Interim sampling proposed for PCBs to further assess. Average cyanide concentration well below the revised GW-3 Standard.
ES2-02A	GW-3 Perimeter (Downgradient)	Cyanide	NONE	VOC	Average cyanide concentration is well below the revised GW-3 Standard. Average chlorobenzene concentration is slightly greater than the revised GW-3 Standard. Interim sampling proposed for VOCs to further assess.
ESA2S-52	GW-3 General/Source Area Sentinel	Cyanide	NONE	NONE	Average cyanide concentration is well below the revised GW-3 Standard.
ESA2S-64	GW-3 Perimeter (Downgradient)	(Cyanide in spring 2006 only)	NONE	VOC	Average cyanide concentration is well below the revised GW-3 Standard. Average chlorobenzene and xylene concentrations are slightly below the revised GW-3 Standards (i.e., greater than 50 %). Interim sampling for VOCs proposed to further assess.
HR-G1-MW-3	GW-3 Perimeter (Downgradient)	Cyanide	NONE	NONE	Average cyanide concentration is well below the revised GW-3 Standard.
HR-G3-MW-1	GW-3 Perimeter (Downgradient)	PCB	NONE	PCB	Average PCB concentration is slightly above GW-3 Standard and interim sampling for PCBs proposed to further assess.
RAA 5 - EAST STREET AREA 2-NORTH					

**TABLE 7
PROPOSED MODIFICATIONS TO INTERIM GROUNDWATER QUALITY MONITORING PROGRAM**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well Number	Monitoring Well Usage	Sampling Schedule & Analyses			Comments
		Current Annual Analyses	Proposed Supplemental Analyses (Fall 2006 Only)	Proposed Annual Analyses (Next Round: Fall 2007)	
ES1-05	GW-3 Perimeter (Downgradient)	PCB	NONE	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %). Interim sampling for PCBs proposed to further assess.
ES1-27R	GW-3 General/ Source Area Sentinel	PCB	NONE	PCB	Average PCB concentration is slightly above GW-3 Standard. Interim sampling for PCBs proposed to further assess.
RAA 6 - EAST STREET AREA 1-NORTH					
ESA1N-52	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	PCB	NONE	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %). Interim sampling for PCBs proposed to further assess.
RAA 12 - LYMAN STREET AREA					
LS-29	GW-3 General/ Source Area Sentinel	PCB	NONE	PCB	Average PCB concentration is above GW-3 Standard and increasing trend exhibited in data. Interim sampling for PCBs proposed to further assess.
LSSC-08S	GW-3 Perimeter (Downgradient)	PCB	PCB	PCB	Average PCB concentration is above GW-3 Standard and increasing trend exhibited in data. Interim sampling for PCBs proposed to further assess. Supplemental sampling for PCBs proposed to address significant increase in PCB concentration observed in spring 2006.
LSSC-16S	GW-2 Sentinel	VOC (+5 SVOC)	NONE	VOC (+5 SVOC)	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. Interim sampling proposed based on location of well relative to adjacent building and edge of NAPL.
LSSC-18	GW-3 Perimeter (Downgradient)	PCB	PCB	PCB	Average PCB concentration is above GW-3 Standard and increasing trend exhibited in data. Interim sampling for PCBs proposed to further assess. Supplemental sampling for PCBs proposed to address significant increase in PCB concentration observed in spring 2006.
MW-4R	GW-3 Perimeter (Downgradient)	VOC/PCB	NONE	VOC	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. Interim sampling for VOCs proposed to assess increase in VOC concentrations observed in fall 2005.

**TABLE 7
PROPOSED MODIFICATIONS TO INTERIM GROUNDWATER QUALITY MONITORING PROGRAM**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well Number	Monitoring Well Usage	Sampling Schedule & Analyses			Comments
		Current Annual Analyses	Proposed Supplemental Analyses (Fall 2006 Only)	Proposed Annual Analyses (Next Round: Fall 2007)	
RAA 13 - NEWELL STREET AREA II					
N2SC-07S	GW-3 Perimeter (Downgradient)	VOC/PCB	NONE	PCB	Average chlorobenzene concentration is well below the revised GW-3 Standard. Average PCB concentration is are slightly below GW-3 Standard (i.e., greater than 50 %). Interim sampling for PCBs proposed to further assess.
NS-17	GW-3 Perimeter (Downgradient)	VOC	NONE	NONE	All average VOC concentrations are well below the revised GW-3 Standards and decreasing trend exhibited in data.
RAA 18 - EAST STREET AREA 1 SOUTH					
72R	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	VOC(+5 SVOC)/ PCB/Cyanide	NONE	VOC(+5 SVOC)/ PCB/Metals/ Cyanide	Replacement for wells ES1-8 and ESA1S-33 for sampling purposes downgradient of NAPL containment area.
139R	GW-2 Sentinel/GW-3 Perimeter (Downgradient)	PCB	NONE	PCB	Average PCB concentration is well below GW-3 Standard, but interim sampling proposed for PCBs to assess potential declining trend.
GMA1-6	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	VOC(+5 SVOC)/ PCB	NONE	VOC(+5 SVOC)/ PCB	Downgradient of NAPL containment area.
GMA1-18	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	PCB	NONE	PCB	Downgradient replacement for well ES1-14. Average PCB concentration is well below GW-3 Standard, , but interim sampling proposed for PCBs to further assess recent increased concentrations.

NOTES:

1. The wells proposed for annual groundwater quality sampling will be sampled for the listed parameters on an annual basis, alternating between the spring and fall seasons, during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The next scheduled interim sampling round will be conducted in fall 2007 (although certain wells are proposed for supplemental sampling in fall 2006).
2. Wells that are proposed for supplemental analysis will only be sampled for the listed parameters in fall 2006.
3. All analyses for PCB, metals, and cyanide conducted under the interim monitoring program will be performed on filtered samples only.

Figures

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 PLOT DATE: 10/13/08



LEGEND:

**GMA 1
(PLANT SITE 1)**

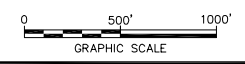
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- RAA 1-40s COMPLEX
- RAA 2-30s COMPLEX
- RAA 3-20s COMPLEX
- RAA 4-EAST STREET AREA 2-SOUTH
- RAA 5-EAST STREET AREA 2-NORTH
- RAA 6-EAST STREET AREA 1-NORTH
- RAA 12-LYMAN STREET AREA (INCLUDING FORMER OXBOWS B, D AND E)
- RAA 13-NEWELL STREET AREA II
- RAA 14-NEWELL STREET AREA I
- RAA 17-SILVER LAKE AREA
- RAA 18-EAST STREET AREA 1-SOUTH (NAPL/GROUNDWATER ONLY)

- GMA 2** GMA 2-FORMER OXBOWS J&K
- GMA 3** GMA 3-PLANT SITE 2
- GMA 4** GMA 4-PLANT SITE 3
- GMA 5** GMA 5-FORMER OXBOWS A&C

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY; AND BLASLAND & BOUCK ENGINEERS, P.C. P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES/LIMITS ARE APPROXIMATE.

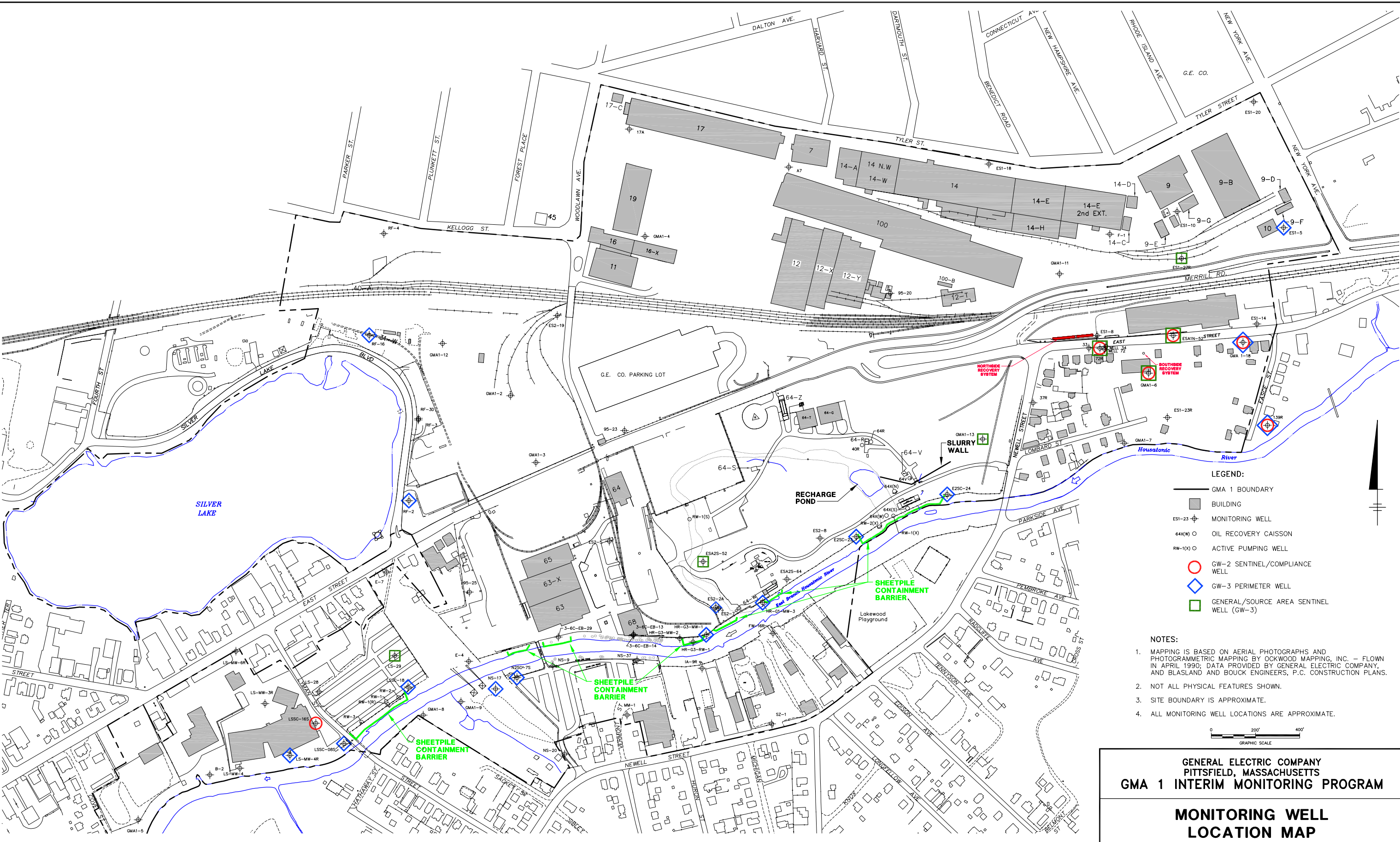


GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
GMA 1 INTERIM MONITORING PROGRAM

**GROUNDWATER MANAGEMENT
 AREAS**

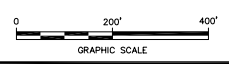


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 PROJECT NAME: IMAGES:
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 10113X00



- LEGEND:**
- GMA 1 BOUNDARY
 - BUILDING
 - ES1-23 ⊕ MONITORING WELL
 - 64K(W) ○ OIL RECOVERY CAISSON
 - RW-100 ○ ACTIVE PUMPING WELL
 - GW-2 SENTINEL/COMPLIANCE WELL
 - ◇ GW-3 PERIMETER WELL
 - GENERAL/SOURCE AREA SENTINEL WELL (GW-3)

- NOTES:**
1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY OCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
 2. NOT ALL PHYSICAL FEATURES SHOWN.
 3. SITE BOUNDARY IS APPROXIMATE.
 4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.

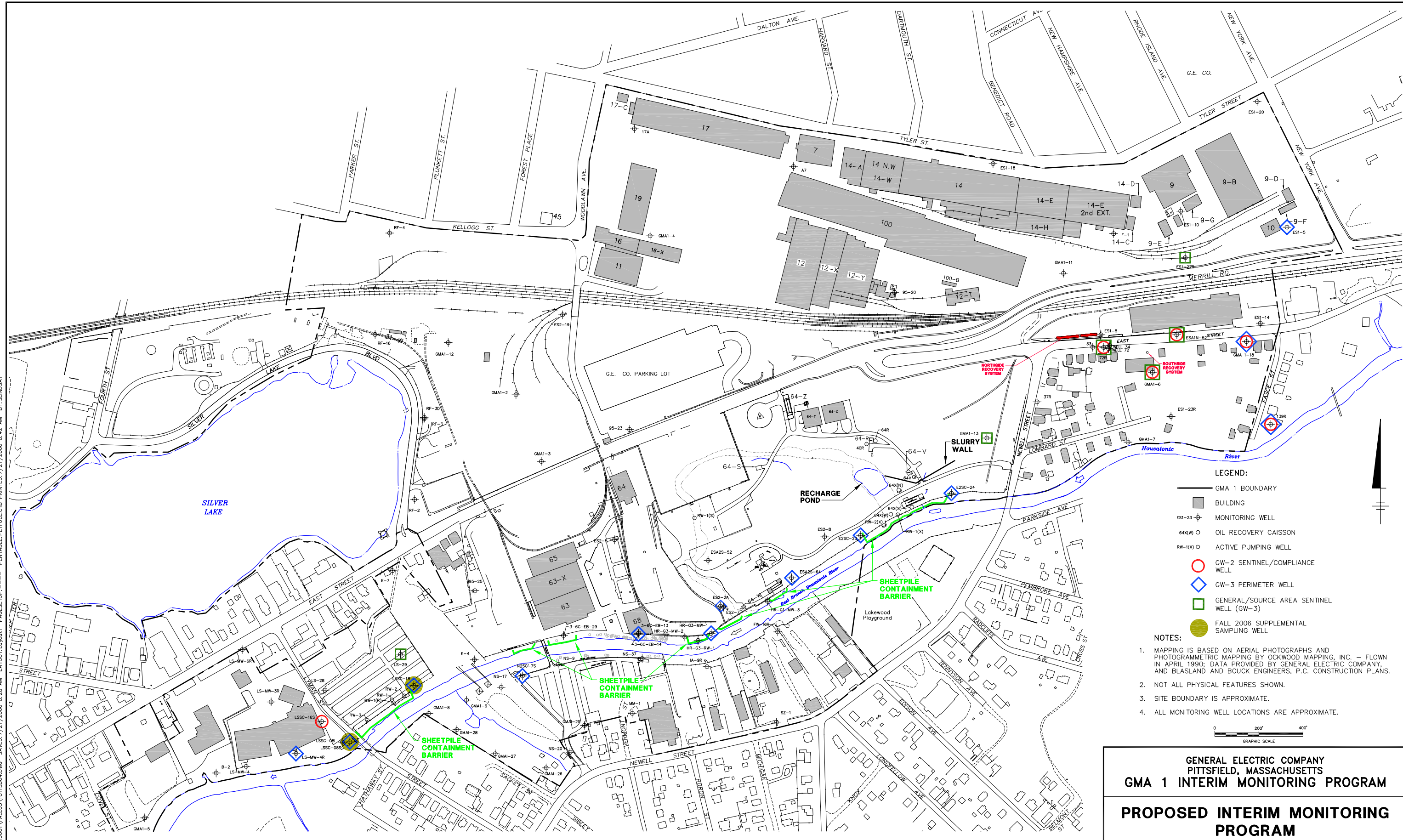


**GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 1 INTERIM MONITORING PROGRAM**

**MONITORING WELL
LOCATION MAP**



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 PLOT DATE: 10/11/2000

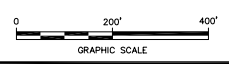


LEGEND:

- GMA 1 BOUNDARY
- BUILDING
- ESI-23 ⊕ MONITORING WELL
- 64K(W) ○ OIL RECOVERY CAISSON
- RW-100 ○ ACTIVE PUMPING WELL
- GW-2 SENTINEL/COMPLIANCE WELL
- ◇ GW-3 PERIMETER WELL
- GENERAL/SOURCE AREA SENTINEL WELL (GW-3)
- FALL 2006 SUPPLEMENTAL SAMPLING WELL

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY OCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.



**GENERAL ELECTRIC COMPANY
 PITTSFIELD, MASSACHUSETTS
 GMA 1 INTERIM MONITORING PROGRAM**
PROPOSED INTERIM MONITORING PROGRAM



Appendices

Appendix A

Groundwater Analytical Results

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	30s Complex		East St. Area 1 - North	East St. Area 1 - South	
	Sample ID: Date Collected:	RF-02 04/06/06	RF-16 04/06/06	ESA1N-52 04/05/06	72R 04/04/06	GMA1-18 04/05/06
Volatile Organics						
1,1,1,2-Tetrachloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,1,1-Trichloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,1,2,2-Tetrachloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,1,2-Trichloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,1-Dichloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,1-Dichloroethene		NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA
1,2,3-Trichloropropane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,2-Dibromo-3-chloropropane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,2-Dibromoethane		NA	NA	NA	ND(0.0010) [ND(0.0010)]	NA
1,2-Dichloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,2-Dichloropropane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,4-Dioxane		NA	NA	NA	ND(0.20) J [ND(0.20) J]	NA
2-Butanone		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
2-Chloro-1,3-butadiene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
2-Chloroethylvinylether		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
2-Hexanone		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
3-Chloropropene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
4-Methyl-2-pentanone		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
Acetone		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
Acetonitrile		NA	NA	NA	ND(0.10) J [ND(0.10) J]	NA
Acrolein		NA	NA	NA	ND(0.10) [ND(0.10)]	NA
Acrylonitrile		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Benzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Bromodichloromethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Bromoform		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Bromomethane		NA	NA	NA	ND(0.0020) J [ND(0.0020) J]	NA
Carbon Disulfide		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Carbon Tetrachloride		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Chlorobenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Chloroethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Chloroform		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Chloromethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
cis-1,3-Dichloropropene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Dibromochloromethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Dibromomethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Dichlorodifluoromethane		NA	NA	NA	ND(0.0050) J [ND(0.0050) J]	NA
Ethyl Methacrylate		NA	NA	NA	ND(0.0050) J [ND(0.0050) J]	NA
Ethylbenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Iodomethane		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Isobutanol		NA	NA	NA	ND(0.10) [ND(0.10)]	NA
Methacrylonitrile		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Methyl Methacrylate		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Methylene Chloride		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Propionitrile		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
Styrene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Tetrachloroethene		NA	NA	NA	ND(0.0020) [ND(0.0020)]	NA
Toluene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
trans-1,2-Dichloroethene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
trans-1,3-Dichloropropene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
trans-1,4-Dichloro-2-butene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Trichloroethene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Trichlorofluoromethane		NA	NA	NA	ND(0.0050) J [ND(0.0050) J]	NA
Vinyl Acetate		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Vinyl Chloride		NA	NA	NA	ND(0.0020) [ND(0.0020)]	NA
Xylenes (total)		NA	NA	NA	ND(0.010) [ND(0.010)]	NA
Total VOCs		NA	NA	NA	ND(0.20) [ND(0.20)]	NA

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	30s Complex		East St. Area 1 - North	East St. Area 1 - South	
	Sample ID: Date Collected:	RF-02 04/06/06	RF-16 04/06/06	ESA1N-52 04/05/06	72R 04/04/06	GMA1-18 04/05/06
PCBs-Filtered						
Aroclor-1016		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1221		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1232		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1242		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1248		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1254		ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011
Aroclor-1260		ND(0.000065)	NA	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Total PCBs		ND(0.000089)	NA	0.000087	0.00014 [0.00014]	0.00011
Semivolatile Organics						
1,2,4-Trichlorobenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,2-Dichlorobenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,3-Dichlorobenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
1,4-Dichlorobenzene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Naphthalene		NA	NA	NA	ND(0.0050) [ND(0.0050)]	NA
Inorganics-Filtered						
Cyanide-MADEP (PAC)		NA	ND(0.0100)	NA	ND(0.0100) [ND(0.0100)]	NA

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	East St. Area 1 - South		East St. Area 2 - North		East St. Area 2 - South	
	Sample ID:	GMA1-6	MW-139R	ES1-27R	ES1-5	E2SC-23	E2SC-24
Date Collected:		04/04/06	04/14/06	04/03/06	04/03/06	04/04/06	04/05/06
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,1,1-Trichloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,1,2-Trichloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,1-Dichloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,1-Dichloroethene		ND(0.0010)	NA	NA	NA	NA	NA
1,2,3-Trichloropropane		ND(0.0050)	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane		ND(0.0050)	NA	NA	NA	NA	NA
1,2-Dibromoethane		ND(0.0010)	NA	NA	NA	NA	NA
1,2-Dichloroethane		ND(0.0050)	NA	NA	NA	NA	NA
1,2-Dichloropropane		ND(0.0050)	NA	NA	NA	NA	NA
1,4-Dioxane		ND(0.20) J	NA	NA	NA	NA	NA
2-Butanone		ND(0.010)	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene		ND(0.0050)	NA	NA	NA	NA	NA
2-Chloroethylvinylether		ND(0.0050)	NA	NA	NA	NA	NA
2-Hexanone		ND(0.010)	NA	NA	NA	NA	NA
3-Chloropropene		ND(0.0050)	NA	NA	NA	NA	NA
4-Methyl-2-pentanone		ND(0.010)	NA	NA	NA	NA	NA
Acetone		ND(0.010)	NA	NA	NA	NA	NA
Acetonitrile		ND(0.10) J	NA	NA	NA	NA	NA
Acrolein		ND(0.10)	NA	NA	NA	NA	NA
Acrylonitrile		ND(0.0050)	NA	NA	NA	NA	NA
Benzene		ND(0.0050)	NA	NA	NA	NA	NA
Bromodichloromethane		ND(0.0050)	NA	NA	NA	NA	NA
Bromoform		ND(0.0050)	NA	NA	NA	NA	NA
Bromomethane		ND(0.0020) J	NA	NA	NA	NA	NA
Carbon Disulfide		ND(0.0050)	NA	NA	NA	NA	NA
Carbon Tetrachloride		ND(0.0050)	NA	NA	NA	NA	NA
Chlorobenzene		ND(0.0050)	NA	NA	NA	NA	NA
Chloroethane		ND(0.0050)	NA	NA	NA	NA	NA
Chloroform		ND(0.0050)	NA	NA	NA	NA	NA
Chloromethane		ND(0.0050)	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene		ND(0.0050)	NA	NA	NA	NA	NA
Dibromochloromethane		ND(0.0050)	NA	NA	NA	NA	NA
Dibromomethane		ND(0.0050)	NA	NA	NA	NA	NA
Dichlorodifluoromethane		ND(0.0050) J	NA	NA	NA	NA	NA
Ethyl Methacrylate		ND(0.0050) J	NA	NA	NA	NA	NA
Ethylbenzene		ND(0.0050)	NA	NA	NA	NA	NA
Iodomethane		ND(0.0050)	NA	NA	NA	NA	NA
Isobutanol		ND(0.10)	NA	NA	NA	NA	NA
Methacrylonitrile		ND(0.0050)	NA	NA	NA	NA	NA
Methyl Methacrylate		ND(0.0050)	NA	NA	NA	NA	NA
Methylene Chloride		ND(0.0050)	NA	NA	NA	NA	NA
Propionitrile		ND(0.010)	NA	NA	NA	NA	NA
Styrene		ND(0.0050)	NA	NA	NA	NA	NA
Tetrachloroethene		ND(0.0020)	NA	NA	NA	NA	NA
Toluene		ND(0.0050)	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		ND(0.0050)	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene		ND(0.0050)	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene		ND(0.0050)	NA	NA	NA	NA	NA
Trichloroethene		ND(0.0050)	NA	NA	NA	NA	NA
Trichlorofluoromethane		ND(0.0050) J	NA	NA	NA	NA	NA
Vinyl Acetate		ND(0.0050)	NA	NA	NA	NA	NA
Vinyl Chloride		ND(0.0020)	NA	NA	NA	NA	NA
Xylenes (total)		ND(0.010)	NA	NA	NA	NA	NA
Total VOCs		ND(0.20)	NA	NA	NA	NA	NA

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	East St. Area 1 - South		East St. Area 2 - North		East St. Area 2 - South	
	Sample ID: Date Collected:	GMA1-6 04/04/06	MW-139R 04/14/06	ES1-27R 04/03/06	ES1-5 04/03/06	E2SC-23 04/04/06	E2SC-24 04/05/06
PCBs-Filtered							
Aroclor-1016		ND(0.000065)	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)	ND(0.000065)
Aroclor-1232		ND(0.000065)	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)	ND(0.000065)
Aroclor-1248		ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254		ND(0.000065)	0.00015	0.00028	0.00021	0.0021	0.00053
Aroclor-1260		ND(0.000065)	ND(0.000065)	ND(0.000065)	0.00011	0.00059	ND(0.000065)
Total PCBs		ND(0.000065)	0.00015	0.00028	0.00032	0.00269	0.00053
Semivolatile Organics							
1,2,4-Trichlorobenzene		ND(0.0050)	NA	NA	NA	NA	NA
1,2-Dichlorobenzene		ND(0.0050)	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		ND(0.0050)	NA	NA	NA	NA	NA
1,4-Dichlorobenzene		ND(0.0050)	NA	NA	NA	NA	NA
Naphthalene		ND(0.0050)	NA	NA	NA	NA	NA
Inorganics-Filtered							
Cyanide-MADEP (PAC)		NA	NA	NA	NA	NA	ND(0.0100)

**TABLE A-1
 SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
 GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 (Results are presented in parts per million, ppm)**

Parameter	Site ID	East St. Area 2 - South					Lyman Street Area	
	Sample ID: Date Collected:	ES2-02A 04/05/06	ESA2S-52 04/04/06	ESA2S-64 04/04/06	GMA1-13 04/03/06	HR-G1-MW-3 04/06/06	HR-G3-MW-1 04/06/06	LS-29 04/05/06
Volatile Organics								
1,1,1,2-Tetrachloroethane		NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane		NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane		NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene		NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane		NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane		NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane		NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane		NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane		NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane		NA	NA	NA	NA	NA	NA	NA
2-Butanone		NA	NA	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene		NA	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether		NA	NA	NA	NA	NA	NA	NA
2-Hexanone		NA	NA	NA	NA	NA	NA	NA
3-Chloropropene		NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone		NA	NA	NA	NA	NA	NA	NA
Acetone		NA	NA	NA	NA	NA	NA	NA
Acetonitrile		NA	NA	NA	NA	NA	NA	NA
Acrolein		NA	NA	NA	NA	NA	NA	NA
Acrylonitrile		NA	NA	NA	NA	NA	NA	NA
Benzene		NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane		NA	NA	NA	NA	NA	NA	NA
Bromoform		NA	NA	NA	NA	NA	NA	NA
Bromomethane		NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide		NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride		NA	NA	NA	NA	NA	NA	NA
Chlorobenzene		NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA
Chloroform		NA	NA	NA	NA	NA	NA	NA
Chloromethane		NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene		NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane		NA	NA	NA	NA	NA	NA	NA
Dibromomethane		NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane		NA	NA	NA	NA	NA	NA	NA
Ethyl Methacrylate		NA	NA	NA	NA	NA	NA	NA
Ethylbenzene		NA	NA	NA	NA	NA	NA	NA
Iodomethane		NA	NA	NA	NA	NA	NA	NA
Isobutanol		NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile		NA	NA	NA	NA	NA	NA	NA
Methyl Methacrylate		NA	NA	NA	NA	NA	NA	NA
Methylene Chloride		NA	NA	NA	NA	NA	NA	NA
Propionitrile		NA	NA	NA	NA	NA	NA	NA
Styrene		NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene		NA	NA	NA	NA	NA	NA	NA
Toluene		NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene		NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene		NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene		NA	NA	NA	NA	NA	NA	NA
Trichloroethene		NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane		NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate		NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA
Xylenes (total)		NA	NA	NA	NA	NA	NA	NA
Total VOCs		NA	NA	NA	NA	NA	NA	NA

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	East St. Area 2 - South					Lyman Street Area	
	Sample ID: Date Collected:	ES2-02A 04/05/06	ESA2S-52 04/04/06	ESA2S-64 04/04/06	GMA1-13 04/03/06	HR-G1-MW-3 04/06/06	HR-G3-MW-1 04/06/06	LS-29 04/05/06
PCBs-Filtered								
Aroclor-1016		NA	NA	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)
Aroclor-1221		NA	NA	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)
Aroclor-1232		NA	NA	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)
Aroclor-1242		NA	NA	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)
Aroclor-1248		NA	NA	NA	ND(0.000065)	NA	ND(0.000065)	ND(0.000065)
Aroclor-1254		NA	NA	NA	0.00022	NA	ND(0.00046)	0.0010
Aroclor-1260		NA	NA	NA	ND(0.000065)	NA	0.00042	ND(0.000065)
Total PCBs		NA	NA	NA	0.00022	NA	0.00042	0.0010
Semivolatile Organics								
1,2,4-Trichlorobenzene		NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered								
Cyanide-MADEP (PAC)		0.00540 B	0.00550 B	0.00370 B	NA	0.00600 B	NA	NA

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	Lyman Street Area				Newell St. Area II	
	Sample ID: Date Collected:	LS-MW-4R 04/07/06	LSSC-08S 04/05/06	LSSC-16S 04/06/06	LSSC-18 04/07/06	N2SC-07S 04/07/06	NS-17 04/07/06
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene		ND(0.0010)	NA	ND(0.0010)	NA	0.0035	ND(0.0010)
1,2,3-Trichloropropane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane		ND(0.0010)	NA	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
1,4-Dioxane		ND(0.20) J	NA	ND(0.20) J	NA	ND(0.20) J	ND(0.20) J
2-Butanone		ND(0.010)	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
2-Hexanone		ND(0.010)	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
3-Chloropropene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone		ND(0.010)	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
Acetone		ND(0.010)	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
Acetonitrile		ND(0.10) J	NA	ND(0.10) J	NA	ND(0.10) J	ND(0.10) J
Acrolein		ND(0.10)	NA	ND(0.10)	NA	ND(0.10)	ND(0.10)
Acrylonitrile		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Benzene		0.0072	NA	ND(0.0050)	NA	0.012	0.0027 J
Bromodichloromethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Bromoform		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Bromomethane		ND(0.0020)	NA	ND(0.0020)	NA	ND(0.0020)	ND(0.0020)
Carbon Disulfide		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride		ND(0.0050) J	NA	ND(0.0050) J	NA	ND(0.0050) J	ND(0.0050) J
Chlorobenzene		ND(0.0050)	NA	ND(0.0050)	NA	0.058	0.019
Chloroethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Chloroform		ND(0.0050)	NA	0.0027 J	NA	ND(0.0050)	ND(0.0050)
Chloromethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Dibromochloromethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Dibromomethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane		ND(0.0050) J	NA	ND(0.0050) J	NA	ND(0.0050) J	ND(0.0050) J
Ethyl Methacrylate		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Ethylbenzene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Iodomethane		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Isobutanol		ND(0.10)	NA	ND(0.10)	NA	ND(0.10)	ND(0.10)
Methacrylonitrile		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Methyl Methacrylate		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Methylene Chloride		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Propionitrile		ND(0.010)	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
Styrene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Tetrachloroethene		ND(0.0020)	NA	0.0048	NA	ND(0.0020)	ND(0.0020)
Toluene		ND(0.0050)	NA	ND(0.0050)	NA	0.0016 J	ND(0.0050)
trans-1,2-Dichloroethene		ND(0.0050)	NA	ND(0.0050)	NA	0.0037 J	ND(0.0050)
trans-1,3-Dichloropropene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane		ND(0.0050) J	NA	ND(0.0050) J	NA	ND(0.0050) J	ND(0.0050) J
Vinyl Acetate		ND(0.0050)	NA	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.0020)	NA	ND(0.0020)	NA	0.49	0.030
Xylenes (total)		0.0082 J	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)
Total VOCs		0.015 J	NA	0.0075 J	NA	0.57	0.052 J

**TABLE A-1
SPRING 2006 GROUNDWATER ANALYTICAL RESULTS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Site ID	Lyman Street Area				Newell St. Area II	
	Sample ID: Date Collected:	LS-MW-4R 04/07/06	LSSC-08S 04/05/06	LSSC-16S 04/06/06	LSSC-18 04/07/06	N2SC-07S 04/07/06	NS-17 04/07/06
PCBs-Filtered							
Aroclor-1016		ND(0.000065)	ND(0.000065)	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1221		ND(0.000065)	ND(0.000065)	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1232		ND(0.000065)	ND(0.000065)	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1242		ND(0.000065)	ND(0.000065)	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1248		ND(0.000065)	0.0014	NA	ND(0.00025)	ND(0.000065)	NA
Aroclor-1254		ND(0.000065)	0.0018	NA	0.0048	ND(0.000084)	NA
Aroclor-1260		ND(0.000065)	ND(0.000065)	NA	0.0014	ND(0.000065)	NA
Total PCBs		ND(0.000065)	0.0032	NA	0.0062	ND(0.000084)	NA
Semivolatile Organics							
1,2,4-Trichlorobenzene		NA	NA	ND(0.0050)	NA	NA	NA
1,2-Dichlorobenzene		NA	NA	ND(0.0050)	NA	NA	NA
1,3-Dichlorobenzene		NA	NA	ND(0.0050)	NA	NA	NA
1,4-Dichlorobenzene		NA	NA	ND(0.0050)	NA	NA	NA
Naphthalene		NA	NA	ND(0.0050)	NA	NA	NA
Inorganics-Filtered							
Cyanide-MADEP (PAC)		NA	NA	NA	NA	NA	NA

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered), selected semivolatiles and cyanide (filtered).
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

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

Inorganics

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

Appendix B

Field Sampling Data

**TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well ID	Sampling Method									Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Fall 2005	Spring 2006	
RAA 2 - 30s COMPLEX										
RF-02	SP	PP	PP	BP	NS	PP	NS	PP	PP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004.
RF-16	PP	BP	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004.
RAA 4 - EAST STREET AREA 2-SOUTH										
95-09/GMA1-13	BA	PP/BA	NS	PP	BP	BP	NS	BP	BP	Spring 2003: Well 95-9 replaced by well GMA1-13 Fall 2002: Well damaged - no sample collected. Fall 2001: Field parameters not collected.
E2SC-23	SP/PP/B	PP/BA	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2002: Well dried during purging. Several visits required to collect sample volume. Fall 2001: Submersible pump malfunction, change to peristaltic pump. Well purged dry, samples collected after recharge - multiple visits required (bailer used for VOC collection).
E2SC-24	SP	PP/BA	PP	BP	NS	BP	NS	BP	BP	Spring 2004: Initial sample analysis canceled due to extremely low surrogate recoveries. A second sample was collected and analyzed. Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2001: Slightly turbid (<50 NTU)
ES2-02A	SP	BP	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2001: Unable to get turbidity below 50 NTU.
ESA2S-52	PP	PP/BA	PP	PP	NS	PP	NS	PP	PP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2002: Well officially added to monitoring program in place of well ES2-17. Fall 2001: Dissolved oxygen meter malfunction. Fall 2001 - Spring 2002: Well sampled as supplemental monitoring point.
ESA2S-64	SP	BP	PP	BP	NS	NS	NS	NS	BP	Spring 2006: Supplemental sampling performed. Fall 2003-Fall2005: No sample collected - baseline monitoring complete, not proposed for additional sampling under interim monitoring program. Fall 2002: Petroleum odor and sheen observed. Fall 2001: Unable to get turbidity below 50 NTU.
HR-G1-MW-3	SP	PP	PP	BP	BP	BP	NS	BP	BP	Fall 2003: River elevation very high, water near base of well. Spring 2002: Dissolved oxygen meter malfunction. Fall 2001: Unable to get turbidity below 50 NTU.

**TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well ID	Sampling Method									Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Fall 2005	Spring 2006	
HR-G3-MW-1	SP	PP	PP	BP	BP	BP	NS	BP	BP	Spring 2006: Barely able to get turbidity below 50 NTU (49 NTU at time of sampling). Fall 2001: Pump malfunction during sample collection, was briefly shut down.
RAA 5 - EAST STREET AREA 2-NORTH										
ES1-05	BA	BP	SP	BP	BP	BP	NS	BP	BP	Spring 2003: Portion of well casing broken. Fall 2002: Well almost dry - unable to get turbidity below 50 NTU. Spring 2002: Well casing broken at top. Fall 2001: Field parameters not collected.
ES1-27R	SP	BP	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2002: Dissolved oxygen meter malfunction.
RAA 6 - EAST STREET AREA 1-NORTH										
ES1-08	PP	PP	PP	NS	NS	NS	NS	NS	NS	Spring 2003: Well removed from baseline program (replaced by well ESA1S-33). Fall 2002: LNAPL present (removed prior to sampling). Well dried several times during sampling. Spring 2002: LNAPL present (removed prior to sampling). Fall 2001: LNAPL present (removed prior to sampling). Well dried several times during sampling.
ES1-14	PP	PP	PP	PP	NS	NS	NS	NS	NS	Spring 2004: No sample collected due to property access issue - well to be replaced by well GMA1-18 for future interim monitoring events. Fall 2003: No sample collected - additional sampling under interim monitoring program scheduled to resume in spring 2004. Fall 2002: Dissolved oxygen meter malfunction. Well dried several times during sampling, unable to measure water levels during purging. Spring 2002: Slightly turbid (<50 NTU), unable to measure water levels during purging. Fall 2001: Well purged dry. Sample collected after recharge.
ESA1N-52	PP	PP	PP	PP	NS	PP	NS	PP	PP	Spring 2006: LNAPL present (removed prior to sampling). Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Spring 2003: Sheen observed, Fall 2002: Slight sheen observed, Spring 2002: LNAPL present (removed prior to sampling). Fall 2001: LNAPL present (removed prior to sampling).
RAA 12 - LYMAN STREET AREA										
LS-29	SP	BP	NS	PP	PP	PP	NS	PP	PP	Spring 2003: Pump type changed from bladder pump to peristaltic pump. Fall 2002: Well not sampled; Casing broken.

**TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well ID	Sampling Method									Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Fall 2005	Spring 2006	
LSSC-08S	PP	BP	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2001: Turbidity meter malfunction. Samples visually clear.
LSSC-16S	SP	PP/BA	PP	BP	NS	BP	NS	BP	BP	Spring 2006: Barely able to get turbidity below 50 NTU (42 NTU at time of sampling). Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Spring 2003: Turbidity relatively high (40 NTU); did not reduce at very low pumping rate. Trace sheen observed during initial purge, not present at time of sampling.
LSSC-18	SP/PP	PP/BA	PP	BP	NS	BP	NS	BP	BP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004. Fall 2001: Turbidity meter malfunction. Samples visually clear. Submersible pump malfunction during sample collection, change to peristaltic pump for PCDD/PCDF collection.
MW-4/MW-4R	PP	PP	PP	PP	NS	PP	PP	PP	PP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume at replacement well MW-4R in spring 2004. Spring 2003: Well cap missing - replaced. Fall 2002: Turbidity meter malfunction. Samples visually clear.
RAA 13 - NEWELL STREET AREA II										
N2SC-07S	SP	BP	PP	BP	BP	BP	NS	BP	BP	Spring 2002: Dissolved oxygen meter malfunction. Fall 2001: Dissolved oxygen meter malfunction.
NS-17	SP	PP/BA	PP	PP	PP	PP	NS	PP	PP	
RAA 18 - EAST STREET AREA 1 SOUTH										
ESA1S-33	NS	NS	NS	PP	NS	NS	NS	NS	NS	Spring 2004: No sample collected - well to be replaced by well 72R for future interim monitoring events. Fall 2003: No sample collected - additional sampling under interim monitoring program scheduled to resume in spring 2004. Spring 2003: Well added to monitoring program in place of well ES1-8. Turbidity >50 NTU, not reducing at minimum pumping rate. Will use bladder pump for future sampling events.
72R	NS	NS	NS	NS	NS	NS	PP	BP	BP	Fall 2004: Well added to interim monitoring program in place of well ESA1S-33.

**TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS**

**PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS**

Well ID	Sampling Method									Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Fall 2005	Spring 2006	
ESA1S-139/139R	PP	PP	BP/BA	PP	NS	NS	PP	PP	PP	Spring 2006: pH meter malfunction. Spring 2004: No sample collected - well to be replaced by well 139R for future interim monitoring events. Fall 2003: No sample collected - additional sampling under interim monitoring program scheduled to resume in spring 2004. Fall 2002: Well dried during purging with bladder pump. Several visits required to collect sample volume with bailer. Fall 2001: Well purged dry. Sample collected after recharge.
GMA1-6	PP	PP	PP	PP	NS	PP	NS	PP	PP	Fall 2003: No sample collected - additional sampling under interim monitoring program to resume in spring 2004.
GMA1-18	NS	NS	NS	NS	NS	NS	BP	BP	BP	Fall 2004: Well GMA1-18 added to interim monitoring program in place of well ES1-14.

NOTES:

BP - Bladder Pump

PP - Peristaltic Pump

SP - Submersible Pump

BA - Bailer

PP/BA - Peristaltic Pump with Bailer used for VOC sample collection

NS - Not Sampled

GROUNDWATER SAMPLING LOG

Well No. RF-02
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GE Pits Field - GMA-1
 Sampling Personnel GAR/KAK
 Date 7/6/06
 Weather Overcast, 35°F, Windy

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point -1.1' Meas. From Ground
 Well Diameter 4"
 Screen Interval Depth 3'-18" Meas. From Ground
 Water Table Depth 5.48' Meas. From TIC
 Well Depth 18.44' Meas. From TIC
 Length of Water Column 12.96'
 Volume of Water in Well 8.46 gal (on)
 Intake Depth of Pump/Tubing 12' Meas. From TIC

Sample Time 16:00
 Sample ID RF-02
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 14:30
 Pump Stop Time 16:10
 Minutes of Pumping 100
 Volume of Water Removed 2.6 gallons
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump (X) Submersible Pump () Other/Specify ()
 Pump Type: Geo Pump 2
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS, Hach 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:35	100ml	0.13	5.73	-	-	-	10	-	-
14:45	100ml	0.40	5.51	8.21	6.71	1.750	8	6.50	205.2
14:50	100ml	0.53	5.51	8.27	6.50	1.754	8	1.83	203.3
14:55	100ml	0.66	5.51	8.25	6.50	1.760	8	1.16	197.4
15:00	100ml	0.79	5.51	8.09	6.50	1.763	9	0.93	190.8
15:05	100ml	0.92	5.51	7.94	6.49	1.765	8	0.80	182.0
15:10	100ml	1.06	5.51	7.96	6.51	1.762	7	0.74	173.3
15:15	100ml	1.19	5.52	7.92	6.49	1.763	9	0.69	164.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Clear, odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: NPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. RF-02

Site/GMA Name GE P, Hsfield - GMA-1

Sampling Personnel GAR/KAK

Date 4/6/06

Weather Overcast, 35°F, Windy

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:20	100ml	1.32	5.53	7.97	6.50	1.767	8	0.63	157.7
15:25	100ml	1.45	5.51	8.07	6.51	1.765	9	0.59	149.8
15:30	100ml	1.59	5.51	8.12	6.52	1.767	9	0.55	142.2
15:35	100ml	1.72	5.51	8.11	6.53	1.770	8	0.52	135.3
15:40	100ml	1.85	5.51	8.08	6.53	1.774	7	0.50	129.4
15:45	100ml	1.98	5.51	8.01	6.53	1.772	8	0.49	123.5
15:50	100ml	2.11	5.52	7.98	6.53	1.775	8	0.48	118.2
15:55	100ml	2.25	5.51	8.02	6.53	1.777	8	0.47	113.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

10

GROUNDWATER SAMPLING LOG

Well No. RF-16
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GE Pitfield - GMA-1
 Sampling Personnel GAR/KAK
 Date 4/6/06
 Weather Overcast, light snow, 35°F, windy

WELL INFORMATION

Reference Point Marked? Y (N)
 Height of Reference Point -0.30' Meas. From Ground
 Well Diameter 4"
 Screen Interval Depth 7'-22' Meas. From Ground
 Water Table Depth 9.47' Meas. From TIC
 Well Depth 20.84' Meas. From TIC
 Length of Water Column 11.37'
 Volume of Water in Well 7.42 gallons
 Intake Depth of Pump/Tubing 15.2' Meas. From TIC

Sample Time 12:35
 Sample ID RF-16
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
(X)	PAC Cyanide (Dissolved)	(X)
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 11:50
 Pump Stop Time 12:45
 Minutes of Pumping 55
 Volume of Water Removed 1.5 gallons
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk System One
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS Hach 2100P Turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
11:55	100ml	0.13	9.46	-	-	-	4	-	-
12:05	100ml	0.40	9.48	7.50	6.71	1.134	3	14.19	184.8
12:10	100ml	0.52	9.48	7.46	6.50	1.141	3	7.71	193.1
12:15	100ml	0.66	9.48	7.49	6.49	1.143	2	7.30	197.0
12:20	100ml	0.79	9.50	7.60	6.52	1.147	3	7.05	199.9
12:25	100ml	0.92	9.50	7.65	6.53	1.148	3	6.90	202.4
12:30	100ml	1.06	9.50	7.74	6.56	1.148	3	6.76	204.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Clear, odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. E25C-23
 Key No. _____
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel ASA/SAB
 Date 4-4-06
 Weather Snow Showers, 30°F

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point +2.00' Meas. From Ground
 Well Diameter 2
 Screen Interval Depth 9-19 Meas. From Ground
 Water Table Depth 16.47 Meas. From TIC
 Well Depth 20.94 Meas. From TIC
 Length of Water Column 4.47
 Volume of Water in Well 0.728
 Intake Depth of Pump/Tubing 18.7' Meas. From Ground

Sample Time 1505
 Sample ID E25C-23
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1340
 Pump Stop Time 1500
 Minutes of Pumping 80
 Volume of Water Removed 12000ml
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschall-system One
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers:

YSI 556 Serial #03C0392 AE
Haach 2100 P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1340	150	0	16.47	-	-	-	308	-	-
1345	150	750	16.48	-	-	-	170	-	-
1350	150	1500	16.49	-	-	-	81	-	-
1353	150	2250	16.49	-	-	-	44	-	-
1400	150	3000	16.49	6.40	7.68	0.479	15	9.83	8.2
1405	150	3750	16.49	6.69	7.70	0.462	10	8.94	27.2
1400	150	4500	16.50	6.97	7.69	0.461	4	8.43	40.4
1415	150	5250	16.50	6.89	7.66	0.463	3	8.17	52.5

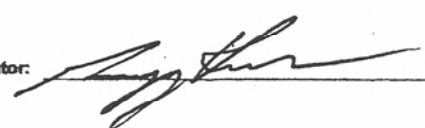
* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: _____



GROUNDWATER SAMPLING LOG

Well No. E2SC-23

Site/GMA Name GMA-1
 Sampling Personnel ASA/SAB
 Date 4-4-06
 Weather Snow Showers, 30°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1420	150	6000	16.50	7.04	7.67	0.467	2	7.70	59.3
1425	150	6750	16.50	6.94	7.68	0.468	2	7.64	65.2
1430	150	7500	16.51	7.02	7.73	0.471	2	7.45	73.0
1435	150	8250	16.51	7.04	7.77	0.472	2	7.37	75.8
1440	150	9000	16.51	7.03	7.77	0.472	2	7.55	77.6
1445	150	9750	16.51	7.04	7.80	0.472	1	7.31	78.0
1450	150	10500	16.51	7.04	7.79	0.471	1	7.30	78.1
1455	150	11250	16.51	7.04	7.79	0.472	1	7.30	78.4
1500	150	12000	16.52	7.04	7.79	0.472	1	7.31	78.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. E2SC-24
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel ASA/SAB
 Date 4/5/06
 Weather Sunny, Breezy, 28°F

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point +1.87 Meas. From Ground
 Well Diameter 2
 Screen Interval Depth 9-19 Meas. From Ground
 Water Table Depth 14.71 Meas. From TIC
 Well Depth 21.62 Meas. From TIC
 Length of Water Column 6.91
 Volume of Water in Well 1.12
 Intake Depth of Pump/Tubing 18' Meas. From TIC

Sample Time 1115
 Sample ID E2SC-24
 Duplicate ID -
 MS/MSD X Collected Here
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
(X)	PAC Cyanide (Dissolved)	(X)
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 9:35
 Pump Stop Time 11:05
 Minutes of Pumping 90
 Volume of Water Removed 13500
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk-system One
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS Serial # 0300392 AE

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
935	150	0	14.71	-	-	-	282	-	-
940	150	750	14.71	-	-	-	853	-	-
945	150	1500	14.72	-	-	-	820	-	-
950	150	2250	14.73	-	-	-	132	-	-
955	150	3000	14.73	-	-	-	99	-	-
1000	150	3750	14.73	-	-	-	67	-	-
1005	150	4500	14.73	-	-	-	48	-	-
1010	150	5250	14.74	8.75	7.00	1,101	36	4.92	-74.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. E25C-24

Site/GMA Name GMA-1
 Sampling Personnel ASA/SAB
 Date 4/5/06
 Weather SUNNY, BREEZY, 36°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1015	150	6000	14.74	8.79	6.93	1.104	30	3.07	-75.1
1020	150	6750	14.74	8.74	6.95	1.108	24	3.13	-74.1
1025	150	7500	14.75	8.78	6.97	1.111	17	2.63	-75.3
1030	150	8250	14.76	8.65	6.98	1.114	12	2.61	-74.1
1035	150	9000	14.75	8.81	6.99	1.119	10	2.23	-75.1
1040	150	9750	14.75	8.79	6.99	1.120	7	2.00	-74.1
1045	150	10500	14.78	8.79	7.00	1.122	7	1.99	-74.9
1050	150	11250	14.78	8.78	7.00	1.123	5	1.97	-75.0
1055	150	12000	14.78	8.78	7.00	1.124	5	1.96	-74.7
1100	150	12750	14.79	8.79	7.00	1.124	6	1.96	-74.3
1105	150	13500	14.77	8.79	7.00	1.124	6	1.97	-74.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS _____

GROUNDWATER SAMPLING LOG

Well No. ES2-02A
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel JDL/SAT
 Date 4-5-06
 Weather Sunny, Breezy, 35°F

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2
 Screen Interval Depth 3-14 Meas. From Ground
 Water Table Depth 5.31 Meas. From TIC
 Well Depth 17.40 Meas. From TIC
 Length of Water Column 12.19
 Volume of Water in Well 1.98
 Intake Depth of Pump/Tubing 11.3' Meas. From TIC

Sample Time 1550
 Sample ID ES2-02A
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
(X)	PAC Cyanide (Dissolved)	(X)
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1415
 Pump Stop Time 1545
 Minutes of Pumping 90
 Volume of Water Removed 9000ml
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk-System One
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS Serial # 03003912 AE

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1415	100	0	5.21	-	-	-	99	-	-
1420	100	500	6.70	-	-	-	84	-	-
1425	100	1000	6.74	-	-	-	51	-	-
1430	100	1500	6.63	-	-	-	46	-	-
1435	100	2000	6.66	-	-	-	35	-	-
1440	100	2500	6.59	-	-	-	18	-	-
1445	100	3000	6.61	8.91	7.18	0.674	18	2.50	13.0
1450	100	3500	6.61	8.37	7.04	0.695	23	1.59	7.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. ES2-02A

Site/GMA Name GMA-1
 Sampling Personnel JDL/SAT
 Date 4-5-06
 Weather Sunny, Breezy, 35°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1455	100	4000	6.61	8.38	6.97	0.748	21	1.39	-9.2
1500	100	4500	6.61	8.33	6.97	0.784	22	1.30	-13.1
1505	100	5000	6.69	8.22	7.00	0.815	13	1.22	-21.8
1516	100	5500	6.80	8.76	6.97	1.049	14	1.04	-52.9
1515	100	6000	6.72	8.86	6.99	1.329	14	0.94	-80.1
1520	100	6500	6.80	9.21	7.12	1.647	10	0.82	-102.3
1525	100	7000	6.65	9.49	7.25	1.709	8	0.78	-108.1
1530	100	7500	6.55	9.54	7.26	1.874	6	0.74	-117.1
1535	100	8000	6.67	9.54	7.25	1.885	6	0.67	-117.2
1540	100	8500	6.63	9.54	7.26	1.886	5	0.66	-117.9
1545	100	9000	6.70	9.55	7.26	1.888	6	0.64	-118.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS _____

GROUNDWATER SAMPLING LOG

Well No. EA28-52
 Key No. EA28-52
 PID Background (ppm) —
 Well Headspace (ppm) —

Site/GMA Name EAST STREET AREA 2 SOUTH - GMA1
 Sampling Personnel AES / CHB JR.
 Date APRIL 4, 2006
 Weather COOL, RAIN/SLUSH MIX, HIGH IN THE UPPER 50s.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 4.2' - 24.2' Meas. From Ground
 Water Table Depth 12.00 Meas. From TIC
 Well Depth 23.85 Meas. From TIC
 Length of Water Column 11.85
 Volume of Water in Well 1.93 gallons
 Intake Depth of Pump/Tubing 18' Meas. From Ground

Sample Time 1125
 Sample ID EA28-52
 Duplicate ID —
 MS/MSD —
 Split Sample ID —

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
(X)	PAC Cyanide (Dissolved)	(X)
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1020
 Pump Stop Time 1135
 Minutes of Pumping 75
 Volume of Water Removed 2.0 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump AES
 Peristaltic Pump Submersible Pump () Other/Specify ()
 Pump Type: MARSHALL SERIES 59.000
 Samples collected by same method as evacuation? Y N (specify) GEDPUMP

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, YIACH 2100P TURBIDIMETER

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1025	100	—	12.00	—	—	—	7	—	—
1030	100	500	12.00	10.47	7.00	3.338	11	8.04	-128.9
1035	100	1000	12.02	10.48	7.13	3.351	9	8.97	-136.5
1040	100	1500	12.03	10.58	7.38	3.293	8	2.30	-143.2
1045	100	2000	12.03	10.70	7.63	3.281	7	1.98	-144.2
1050	100	2500	12.03	10.59	7.66	3.195	8	1.65	-144.2
1055	100	3000	12.03	10.62	7.55	3.148	7	1.45	-144.6
1105	100	3500	12.03	10.61	7.49	3.117	7	1.41	-144.8

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURGE IS LOW TURBIDITY, SOME BLACK PARTICLES

SAMPLE DESTINATION

Laboratory: SCS WEST VIRGINIA
 Delivered Via: UPS GROUND / COURIER
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. ESA25-64
 Key No. _____
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel ASA/MS
 Date 4-4-06
 Weather SNOW, 30°F

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2
 Screen Interval Depth 7-22 Meas. From Ground
 Water Table Depth 12.42 Meas. From TIC
 Well Depth 20.79 Meas. From TIC
 Length of Water Column 8.37
 Volume of Water in Well 1.36
 Intake Depth of Pump/Tubing 16.6' Meas. From TIC

Sample Time 1145
 Sample ID ESA25-64
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
(X)	PAC Cyanide (Dissolved)	(X)
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1025
 Pump Stop Time 1140
 Minutes of Pumping 75
 Volume of Water Removed 11250 ml
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marshall system One
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers:

YSI 556 Serial# 03C0392 AE
Hann 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1025	150	0	12.42	-	-	-	>1000	-	-
1030	150	750	12.44	-	-	-	102	-	-
1035	150	1500	12.45	-	-	-	68	-	-
1040	150	2250	12.45	-	-	-	56	-	-
1045	150	3000	12.45	-	-	-	48	-	-
1050	150	3750	12.46	7.44	6.80	1.656	49	6.74	-66
1055	150	4500	12.46	9.04	6.84	1.640	48	2.43	-82.1
1100	150	5250	12.46	9.06	6.85	1.640	47	1.48	-86.4

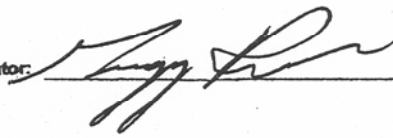
* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: _____



GROUNDWATER SAMPLING LOG

Well No. ESARS-64

Site/GMA Name GMA-1
 Sampling Personnel ASA/SAB
 Date 4-4-06
 Weather Snow, 30°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1105	150	6000	12.46	9.06	6.92	1.627	44	1.26	-91.9
1110	150	6750	12.46	8.58	6.98	1.610	40	1.49	-78.7
1115	150	7500	12.47	8.61	7.00	1.612	38	1.16	-82.8
1120	150	8250	12.47	8.67	6.99	1.612	34	1.10	-84.7
1125	150	9000	12.47	8.88	7.00	1.612	30	1.01	-87.4
1130	150	9750	12.47	8.89	7.00	1.612	31	1.00	-87.9
1135	150	10500	12.47	8.89	7.00	1.612	30	1.00	-87.2
1140	150	11250	12.47	8.89	7.00	1.612	32	1.01	-88.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. GMA1-13
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GE Pittsfield - GMA-1
 Sampling Personnel GARIKAK
 Date 4/3/06
 Weather Overcast, some rain, 40-45°F

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point +1.85 Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 15'-25' Meas. From Ground
 Water Table Depth 18.34' Meas. From TIC
 Well Depth 27.32' Meas. From TIC
 Length of Water Column 8.98'
 Volume of Water in Well 1.47 gallons
 Intake Depth of Pump/Tubing 23' Meas. From TIC

Sample Time 15:50
 Sample ID GMA1-13
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 14:20
 Pump Stop Time 16:10
 Minutes of Pumping 110
 Volume of Water Removed 2.9 gallons (3.7 gallons with 1st set-up)
 Did Well Go Dry? N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk-system one
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS : 03M0230A
Hach 2100 P Turbidimeter : 941100066523

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:20	100ml	-	18.36	-	-	-	105	-	-
14:35	100ml	0.40	18.35	-	-	-	73	-	-
14:55	100ml	0.92	18.35	-	-	-	37	-	-
15:05	100ml	1.19	18.35	8.74	6.15	0.798	28	3.97	289.9
15:10	100ml	1.32	18.35	8.78	6.15	0.801	27	3.02	292.0
15:15	100ml	1.45	18.35	8.87	6.17	0.805	23	2.82	292.7
15:20	100ml	1.58	18.36	8.82	6.18	0.809	19	2.69	294.7
15:25	100ml	1.72	18.35	8.88	6.20	0.811	16	2.57	294.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Light brown, cloudy
Final Purge: Clear, odorless
Pumped this well from 13:25 to 13:55, problem with pump, changed pump and started over and turbidity went up

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. GMA1-13

Site/GMA Name GE Pittsfield - GMA-1
 Sampling Personnel GAR/KAK
 Date 7/3/06
 Weather Overcast, some rain, 40-45°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:30	100ml	1.85	18.35	8.87	6.20	0.814	13	2.46	295.5
15:35	100ml	1.98	18.35	8.82	6.22	0.817	11	2.44	295.1
15:40	100ml	2.11	18.35	8.77	6.21	0.819	10	2.39	296.1
15:45	100ml	2.25	18.35	8.77	6.22	0.821	10	2.33	295.8

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS _____

GROUNDWATER SAMPLING LOG

Well No. GMA1-13
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GE P. Hs field - GMA-1
 Sampling Personnel GARI KAK
 Date 4/3/06
 Weather Overcast, some rain, 40-45°F

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point +1.85' Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 15'-25' Meas. From Ground
 Water Table Depth 18.34' Meas. From TIC
 Well Depth 27.32' Meas. From TIC
 Length of Water Column 8.98'
 Volume of Water in Well 1.47 gallons
 Intake Depth of Pump/Tubing 22.8' Meas. From TIC

Sample Time _____
 Sample ID GMA1-13
 Duplicate ID -
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 13:25
 Pump Stop Time _____
 Minutes of Pumping _____
 Volume of Water Removed _____
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk - # System One
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI - 556 MPS
Hach 2100 P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
13:35	100 ml	0.26	18.34	-	-	-	11	-	-
13:45	100 ml	0.53	18.35	8.72	6.53	0.749	18	13.04	213.5
13:50	100 ml	0.66	18.34	8.77	6.40	0.758	17	8.24	235.3
13:55	100 ml	0.79	18.34	8.81	6.39	0.760		7.35	247.5
14:00	100 ml	0.92							
14:05	100 ml	1.06							
14:10	100 ml	1.19							
			18.36				105		

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Clear, odorless
Final Purge:
Problem with the Pump

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. HR-61-MW-3
 Key No. FX-37
 PID Background (ppm) 0
 Well Headpace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel VDL/SAB
 Date 4/6/06
 Weather 30's, windy, cloudy

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 7-17 Meas. From Ground
 Water Table Depth 7.81 Meas. From TIC
 Well Depth 17.85 Meas. From TIC
 Length of Water Column 10.04
 Volume of Water in Well 1.64 gallons
 Intake Depth of Pump/Tubing 12' Meas. From TIC

Sample Time HR-61-MW-3
 Sample ID 1535
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
(X)	Metals/Inorganics (Dissolved) <u>CW</u>	(X)
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1432
 Pump Stop Time 1545
 Minutes of Pumping 73
 Volume of Water Removed 3.0 gallons
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschall-System One
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556MPS Hach 2100P Turbiditymeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1435	150	0.12	7.85	-	-	-	20	-	-
1440	150	0.32	7.85	-	-	-	13	-	-
1445	150	0.52	7.85	8.67	8.42	1.178	20	5.31	-95.7
1450	150	0.71	7.85	8.38	8.48	1.170	13	2.60	-96.3
1455	150	0.91	7.85	8.09	8.29	1.165	8	2.03	-97.3
1500	150	1.11	7.85	7.91	8.09	1.161	8	1.94	-96.5
1505	150	1.31	7.85	7.78	7.99	1.160	5	1.85	-97.1
1510	150	1.52	7.85	7.72	7.85	1.158	5	1.82	-97.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. HR-~~PA~~ ^{G1-MW-3}

Site/GMA Name GMA-1
 Sampling Personnel JDL/SAB
 Date 9/1/06
 Weather _____

WELL INFORMATION - See Page 1

Time	Pump Rate (l/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1515	150	1.72	7.85	7.78	7.75	1.157	4	1.83	-96.8
1520	150	1.92	7.85	7.86	7.71	1.160	3	1.82	-97.1
1525	150	2.12	7.85	7.88	7.67	1.161	4	1.76	-98.0
1530	150	2.30	7.85	7.93	7.66	1.161	4	1.73	-97.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. HR-G3-MW-1
 Key No. FX-37
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name L-MA-1
 Sampling Personnel JDL/SAB
 Date 4-6-06
 Weather Snow, Breezy, 30°F

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 4.1-14.1 Meas. From Ground
 Water Table Depth 14.35 Meas. From TIC
 Well Depth 17.71 Meas. From TIC
 Length of Water Column 3.36
 Volume of Water in Well 0.55 gallons
 Intake Depth of Pump/Tubing 16.0 Meas. From TIC

Sample Time 1310
 Sample ID HR-G3-MW-1
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1110
 Pump Stop Time 1315
 Minutes of Pumping 125
 Volume of Water Removed ~5.0 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschik System One
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MP3 Hach 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1110	150	0	14.41	-	-	-	71000	-	-
1120	150	0.40	14.41	-	-	-	71000	-	-
1130	150	0.80	14.41	-	-	-	71000	-	-
1140	150	1.20	14.41	-	-	-	71000	-	-
1150	150	1.60	14.41	-	-	-	474	-	-
1155	150	1.60	14.42	-	-	-	261	-	-
1200	150	1.80	14.43	-	-	-	228	-	-
1210	150	2.20	14.43	-	-	-	155	-	-

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. HR-G3-MW-1Site/GMA Name GMA-1Sampling Personnel JDL/SABDate 4/1/06

Weather _____

WELL INFORMATION - See Page 1

Time	Pump Rate (l/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1220	150	~2.8	14.45	—	—	—	101	—	—
1230	150	3.2	14.45	—	—	—	144	—	—
1235	150	3.4	14.45	8.83	7.86	1.657	101	8.29 7.33	-92.9
1240	150	3.6	14.45	8.99	8.06	1.659	85	5.74	-92.0
1245	150	~3.8	14.45	8.96	8.08	1.661	67	5.57	-90.1
1250	150	4.0	14.45	8.80	8.07	1.661	62	5.69	-87.3
1255	150	4.2	14.45	8.78	8.04	1.661	58	5.60	-86.3
1300	150	4.4	14.45	8.78	7.98	1.660	51	5.50	-86.3
1305	150	~4.6	14.45	8.78	7.97	1.658	49	5.52	-86.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. ~~ES1-5~~ ES1-5
 Key No. _____
 PID Background (ppm) _____
 Well Headspace (ppm) _____

Site/GMA Name EAST STREET AREA | NORTH - GMAH
 Sampling Personnel AES / SAB
 Date APRIL 5, 2006
 Weather OVERCAST, 40s, SPRINKLES, LIGHT BREEZE

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point -0.16' Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 35'45" Meas. From Ground
 Water Table Depth 39.58' Meas. From TIC
 Well Depth 44.12' Meas. From TIC
 Length of Water Column 4.54'
 Volume of Water in Well 0.74'
 Intake Depth of Pump/Tubing 42' Meas. From TIC

Sample Time 1610
 Sample ID ES1-5
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1450
 Pump Stop Time 1620
 Minutes of Pumping 90
 Volume of Water Removed 3.5 gal/min
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: MARSHALL 59,000 SERIES
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, HACH 2100P TURBIDIMETER

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1515	150	—	39.58	—	—	—	52	—	—
1520	150	750	39.62	—	—	—	23	—	—
1525	150	1500	39.63	12.25	7.49	1.397	14	5.25	71.8
1530	150	2250	39.64	12.20	7.38	1.426	9	1.84	55.3
1535	150	3000	39.64	12.08	7.41	1.447	8	1.44	47.5
1540	150	3750	39.64	11.98	7.37	1.457	7	1.29	45.5
1545	150	4500	39.64	11.93	7.19	1.460	7	1.15	44.0
1550	150	5250	39.64	11.87	7.17	1.462	6	1.11	43.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

BOTTOM OF WELL IS SOFT. INITIAL PURGE IS CLEAR WITH SOME BLACK PARTICLES. WAITED APPROXIMATELY ~~5 MINUTES~~ 25 MINUTES BEFORE TAKING INITIAL TURBIDITY READING.

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS GROUND
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. ES1-5

Site/GMA Name EAST STREET AREA 1 NORTH - GMA 1
Sampling Personnel RES/SAB
Date APRIL 5, 2006
Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (l/min)	Total -Gallons- Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1555	150	6000	39.64	11.84	7.18	1.462	6	1.08	44.2
1600	150	6750	39.64	11.89	7.14	1.460	6	1.00	43.3
1605	150	7500	39.64	11.93	7.17	1.459	5	0.99	43.1
SAMPLE TIME		1610							

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES FROM PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. ESI-27R
 Key No. _____
 PID Background (ppm) _____
 Well Headspace (ppm) _____

Site/GMA Name GMAI - EAST STREET AREA
 Sampling Personnel AES/SAB
 Date APRIL 3, 2006
 Weather OVERCAST, 50s/40s, RAINY, COOL
RAIN TURNS TO HAIL.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point -0.27' Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 9.3' - 19.3' Meas. From Ground
 Water Table Depth 10.07' Meas. From TIC
 Well Depth 19.16' Meas. From TIC
 Length of Water Column 9.09'
 Volume of Water in Well 1.48 gallon
 Intake Depth of Pump/Tubing 14.6' Meas. From TIC

Sample Time 13:15
 Sample ID ESI-27R
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	(<input checked="" type="checkbox"/>)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1145
 Pump Stop Time 13:30
 Minutes of Pumping 105
 Volume of Water Removed 4.2 gallon
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: MARSHALL SERIES 59000
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: VSI 556 MAS, HACH 210DP TURBIDIMETER

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1145	150	—	10.07	—	—	—	648	—	—
1200	150	0.59	10.08	—	—	—	2999	—	—
1205	150	0.79	10.08	—	—	—	348	—	—
1210	150	0.99	10.09	—	—	—	282	—	—
1215	150	1.09	10.09	—	—	—	184	—	—
1220	150	1.39	10.10	—	—	—	159	—	—
1225	150	1.59	10.10	—	—	—	149	—	—
1230	150	1.79	10.10	—	—	—	125	—	—

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE IS CLEAR, LITTLE TURBIDITY.
WATER TURNS TURBID AFTER A FEW MINUTES.

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS GROUND
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. ES1-27RSite/GMA Name EAST STREET AREA I - GMAISampling Personnel AES/SABDate APRIL 5, 2006Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1235	150	1.99	10.10	—	—	—	99	—	—
1240	150	2.19	10.10	—	—	—	47	—	—
1245	150	2.39	10.10	9.10	7.28	0.365	35	14.90	213.2
1250	150	2.59	10.10	8.96	7.49	0.360	29	7.64	210.1
1255	150	2.79	10.10	8.85	7.54	0.357	29	7.44	204.7
1300	150	2.99	10.10	8.87	7.53	0.356	30	7.38	196.2
1305	150	3.19	10.10	8.64	7.56	0.356	30	7.35	194.1
1310	150	3.39	10.10	8.69	7.57	0.356	32	7.32	192.9

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SEE NOTES ON PAGE 1.

~~DROPPING~~ DISSOLVED OXYGEN CONTINUOUSLY
DROPPING BUT STABLE WITHIN FIVE MINUTE INTERVALS. TURBIDITY
STABILIZED AROUND 30 AND STOPPED DROPPING.

GROUNDWATER SAMPLING LOG

Well No. ESAIN-52
 Key No.
 PID Background (ppm)
 Well Headspace (ppm)

Site/GMA Name EAST STREET AREA | NORTH - GMA1
 Sampling Personnel AES + WJB JR.
 Date APRIL 5, 2006
 Weather CLEAR SKIES, ~~SUNNY~~ SUNNY, 34°F

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point Meas. From
 Well Diameter 2" ¹¹
 Screen Interval Depth 2'-22' Meas. From Ground
 Water Table Depth 4.45 Meas. From TIC
 Well Depth 12.65 Meas. From TIC
 Length of Water Column 8.20
 Volume of Water in Well 1.34 gallons
 Intake Depth of Pump/Tubing 8.6" ¹¹ Meas. From TIC

Sample Time 1150
 Sample ID ESAIN-52
 Duplicate ID
 MS/MSD
 Split Sample ID

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1015
 Pump Stop Time 12:05
 Minutes of Pumping 110
 Volume of Water Removed 2.9 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump (X) Submersible Pump () Other/Specify ()
 Pump Type: GEOPUMP 2
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, HACH 2100P TURBIDIMETER

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1015	100	—	4.45	—	—	—	2999	—	—
1020	100	500	6.54	—	—	—	749	—	—
1025	100	1000	7.25	—	—	—	161	—	—
1030	100	1500	7.42	—	—	—	158	—	—
1035	100	2000	7.80	—	—	—	75	—	—
1040	100	2500	7.71	—	—	—	71	—	—
1045	100	3000	7.65	—	—	—	76	—	—
1050	100	3500	7.63	—	—	—	83	—	—

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE HAS BLACK PARTICLES; SLIGHTLY TURBID. SCREEN ON SURFACE OF PURGE WATER.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND/COURIER
 Airbill #:

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. ESAIN - 52Site/GMA Name EAST STREET AREA / NORTH - GMA1
Sampling Personnel AESKIB JR
Date APRIL 5, 2006
Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1055	100	4000	7.63	-	-	-	54	-	-
1100	100	4500	7.51	-	-	-	47	-	-
1105	100	5000	7.51	7.76	7.25	18.82	43	12.41	-72.2
1110	100	5500	7.51	8.12	8.07	18.08	36	2.60	-91.5
1115	100	6000	7.51	8.01	8.58	17.55	38	2.44	-96.6
1120	100	6500	7.51	8.08	8.81	17.00	37	2.04	-98.0
1125	100	7000	7.51	8.08	8.26	16.71	32	2.05	-99.6
1130	100	7500	7.51	8.20	8.17	16.65	29	2.06	-100.3
1135	100	8000	7.51	8.32	8.12	16.60	27	2.01	-101.0
1140	100	8500	7.51	8.30	8.10	16.59	29	1.98	-102.0
1145	100	9000	7.51	8.25	8.08	16.58	28	1.97	-102.2
SAMPLE TIME 1150									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SEE NOTES ON PAGE 1. PRODUCT VISIBLE ON
WATER LEVEL PROBE AT ~ 1100 AM. TURBIDITY
STABILIZED UNDER 50 NTUs, BUT ABOVE 10 NTUs.

GROUNDWATER SAMPLING LOG

Well No. LS-MW-4R
 Key No. —
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name LYMAN STREET - GMAI
 Sampling Personnel AES + JSB JR.
 Date APRIL 7, 2006
 Weather PARTLY CLOUDY, MID 80s, COOL

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 9'-14' Meas. From Ground
 Water Table Depth 9.16 Meas. From TIC
 Well Depth 13.48+28' Meas. From TIC
 Length of Water Column 4.6'
 Volume of Water in Well 0.75 gallon
 Intake Depth of Pump/Tubing 11.5' Meas. From Ground

Sample Time 0900
 Sample ID LS-MW-4R
 Duplicate ID —
 MS/MSD —
 Split Sample ID —

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 0825
 Pump Stop Time 9:15
 Minutes of Pumping 70
 Volume of Water Removed 1.85 gallon
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump (X) Submersible Pump () Other/Specify ()
 Pump Type: GEOPUMP 2
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, HACH 210DP TURBIDIMETER

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
0805	100	—	9.16	—	—	—	19	—	—
0810	100	500	9.18	—	—	—	10	—	—
0815	100	1000	9.19	11.20	8.13	0.988	8	2.52	-72.9
0820	100	1500	9.20	10.76	7.26	0.992	4	1.34	-67.5
0825	100	2000	9.20	10.92	7.19	0.990	4	1.18	-66.7
0830	100	2500	9.20	10.61	7.16	0.993	3	1.06	-66.2
0835	100	3000	9.20	10.75	7.08	0.989	3	0.96	-66.3
0840	100	3500	9.20	10.86	7.07	0.990	2	0.89	-67.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURGE IS CLEAR; LOW TURBIDITY.

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: —

Field Sampling Coordinator: June G. Janin

GROUNDWATER SAMPLING LOG

Well No. LS-MW-4R

Site/GMA Name LYMAN STREET - GMA 1
 Sampling Personnel AES/WB JR.
 Date APRIL 7, 2006
 Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
0845	100	4000	9.20	10.91	7.01	0.989	2	0.81	-64.5
0850	100	4500	9.20	10.96	7.00	0.989	1	0.75	-65.9
0855	100	5000	9.20	11.06	6.96	0.988	1	0.72	-65.8
SAMPLE TIME		0900							

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. LS-29
 Key No. —
 PID Background (ppm) —
 Well Headspace (ppm) —

Site/GMA Name LYMAN STREET / GMA1
 Sampling Personnel AES + JWB JR.
 Date APRIL 8, 2002
 Weather CLEAR SKIES, SUNNY, APPROXIMATELY 45°F.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 24.6-34.6 Meas. From Ground
 Water Table Depth 14.00 Meas. From TIC
 Well Depth 34.86 Meas. From TIC
 Length of Water Column 20.86 + .28 = 34.64
 Volume of Water in Well 3.32 gallons
 Intake Depth of Pump/Tubing 29.6 Meas. From TIC

Sample Time 14:50
 Sample ID LS-29
 Duplicate ID —
 MS/MSD —
 Split Sample ID —

Reference Point Identification:
 TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
(,)	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1353
 Pump Stop Time 1503
 Minutes of Pumping 70
 Volume of Water Removed 1.85 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump (X) Submersible Pump () Other/Specify ()
 Pump Type: GEO PUMP 2
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, HACH 210DP TURBIDIMETER

Time	Pump Rate (gpm)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1355	100	—	14.28	—	—	—	49	—	—
1400	100	500	14.28	—	—	—	56	—	—
1405	100	1000	14.58	—	—	—	27	—	—
1410	100	1500	14.28	9.96	8.32	0.679	30	5.98	27.3
1415	100	2000	14.28	9.47	8.08	0.652	24	5.30	33.8
1420	100	2500	14.28	9.69	8.24	0.591	22	4.80	40.7
1425	100	3000	14.28	10.28	8.13	0.568	19	4.39	45.1
1430	100	3500	14.28	9.73	7.99	0.523	21	4.37	39.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURGE HAS SOME BLACK PARTICLES, MOSTLY CLEAR, LITTLE TURBIDITY.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND / COURIER
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. 18-29

Site/GMA Name LYMAN STREET - GMA1
 Sampling Personnel AGS + JWB/CB
 Date APRIL 5, 2006
 Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1435	100	4000	14.28	9.73	8.01	0.518	21	4.16	46.5
1440	100	4500	14.28	9.84	8.03	0.518	18	4.13	47.0
1445	100	5000	14.28	10.02	7.98	0.514	17	4.10	49.2
1450	100	5500	14.28	10.02	7.97	0.513	18	4.13	55.0
SAMPLE TIME 1455									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. ~~88~~ L88C-08S
 Key No. —
 PID Background (ppm) —
 Well Headspace (ppm) —

Site/GMA Name LYMAN STREET
 Sampling Personnel AES + JLB JR.
 Date ~~APRIL 4, 2006~~ APRIL 5, 2006
 Weather SUNNY, CHILLY, MID 40s

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 5-15 Meas. From Ground
~~11.78 = +28~~ Water Table Depth 11.48 Meas. From TIC
~~14.73 = +28~~ Well Depth 14.45 Meas. From TK
 Length of Water Column 2.95
 Volume of Water in Well 0.48 gal/100s
 Intake Depth of Pump/Tubing 13.20 Meas. From TIC

Sample Time 1635
 Sample ID L88C-08S
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1520
 Pump Stop Time 1650
 Minutes of Pumping 90
 Volume of Water Removed 2.4 gal/100s
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: MARSHALL SERIES 59,000
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, YACH 2100P TURBIDIMETER

Time	Pump Rate (l/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1520	100	—	11.76	—	—	—	103	—	—
1525	100	500	11.96	—	—	—	81	—	—
1530	100	1000	11.96	—	—	—	56	—	—
1535	100	1500	11.96	—	—	—	54	—	—
1540	100	2000	11.96	—	—	—	44	—	—
1545	100	2500	11.96	9.06	6.32	1.462	40	11.53	-53.7
1550	100	3000	11.96	9.22	7.04	1.487	32	2.16	-57.0
1555	100	3500	11.96	9.08	7.05	1.485	26	1.97	-55.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS BOTTOM OF WELL IS HARD.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND / COURIER
 Airbill #: _____

Field Sampling Coordinator: James J. [Signature]

GROUNDWATER SAMPLING LOG

Well No. LS8C-083
 Site/GMA Name LYMAN STREET - GMA1
 Sampling Personnel AES / WJB JR.
 Date APRIL 5, 2006
 Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min):	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1600	100	4000	11.96	8.83	7.06	1.483	21	1.48	-53.4
1605	100	4500	11.96	8.90	7.09	1.478	19	1.33	-50.6
1610	100	5000	11.96	8.93	7.11	1.472	17	1.26	-47.8
1615	100	5500	11.96	8.87	7.04	1.467	18	1.18	-45.1
1620	100	6000	11.96	9.05	7.05	1.478	17	1.15	-45.5
1625	100	6500	11.96	8.97	7.05	1.479	16	1.12	-44.3
1630	100	7000	11.96	9.02	7.01	1.478	17	1.13	-44.5
SAMPLE TIME		1635							

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. 188C-16S
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name LYMAN STREET - GMA1
 Sampling Personnel AES + HB JR.
 Date APRIL 6, 2006
 Weather OVERCAST, CLOUDY, SOME SUN, MID 80s.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 5'-15" Meas. From Ground
 Water Table Depth 9.19 Meas. From TIC
14.04 Well Depth 13.71 Meas. From TIC
 Length of Water Column 4.85 + .28
 Volume of Water in Well 0.79 gallon
 Intake Depth of Pump/Tubing 11.6' Meas. From TIC

Sample Time SAMPLE TIME = 1545
 Sample ID 188C-16S
 Duplicate ID _____
 MS/MSD 188C-16S MS/MSD
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
(X)	VOCs (Exp. list)	(X)
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 1400
 Pump Stop Time 15:50
 Minutes of Pumping 110
 Volume of Water Removed 3.0 gallon
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: MARSHALK SERIES 59,000
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: USI 556 MPS, + HACH 2100P TURBIDIMETER

Time	Pump Rate (l/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1405	100	-	9.19	-	-	-	1999	-	-
1410	100	500	9.21	-	-	-	1999	-	-
1415	100	1000	9.22	-	-	-	514	-	-
1420	100	1500	9.22	-	-	-	287	-	-
1425	100	2000	9.22	-	-	-	182	-	-
1430	100	2500	9.22	-	-	-	124	-	-
1435	100	3000	9.22	-	-	-	102	-	-
1440	100	3500	9.22	-	-	-	85	-	-

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURGE IS CLEAR + THEN TURBID WITH SOME BLACK PARTICLES.

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. LS8C-168

Site/GMA Name LYMAN STREET - GMA1
 Sampling Personnel AES + JIB JR.
 Date APRIL 6, 2006
 Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

ml/min mL

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1445	100	4000	9.22	-	-	-	74	-	-
1450	100	4500	9.22	-	-	-	67	-	-
1455	100	5000	9.22	-	-	-	50	-	-
1500	100	5500	9.22	-	-	-	48	-	-
1505	100	6000	9.22	10.97	7.26	0.795	47	10.49	147.3
1510	100	6500	9.22	10.79	7.07	0.792	47	4.58	149.6
1515	100	7000	9.22	10.76	7.08	0.788	35	4.51	181.4
1520	100	7500	9.22	10.70	7.13	0.792	36	4.34	122.9
1525	100	8000	9.22	10.69	7.12	0.793	41	4.21	117.2
1530	100	8500	9.22	10.45	7.14	0.791	42	4.18	109.6
1535	100	9000	9.22	10.54	7.13	0.790	40	4.13	103.5
1540	100	9500	9.22	10.41	7.14	0.789	42	4.11	102.8
SAMPLE TIME 1545									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SEE NOTES ON PAGE 1. TURBIDITY WOULD NOT
STABILIZE BELOW 40 NTU.

GROUNDWATER SAMPLING LOG

Well No. L88C-18
 Key No. _____
 PID Background (ppm) 70
 Well Headspace (ppm) 70

Site/GMA Name ALMAN STREET - GMA1
 Sampling Personnel AES / WJB JR.
 Date APRIL 6 APRIL 7, 2006
 Weather OVERCAST, SOME SUN, COOL MID 80s.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 9-19 Meas. From TOC Ground
 Water Table Depth 14.45 Meas. From TIC
 Well Depth 18.37+28 Meas. From TIC
 Length of Water Column 4.20
 Volume of Water in Well 0.69 gallon
 Intake Depth of Pump/Tubing 16.5 Meas. From TOC

Sample Time 1100
 Sample ID L88C-18
 Duplicate ID _____
 MS/MSD L88C-18 MS/MSD
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 0930
 Pump Stop Time 1130
 Minutes of Pumping 120
 Volume of Water Removed 3.25 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: MARSHALK SERIES 59,000
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS, YIACH 210DP TURBIDIMETER
ML/min. ML

Time	Pump Rate (g/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
0935	100	-	14.47	-	-	-	401	-	-
0940	100	500	14.49	-	-	-	208	-	-
0945	100	1000	14.53	-	-	-	265	-	-
0950	100	1500	14.55	-	-	-	190	-	-
0955	100	2000	14.56	-	-	-	162	-	-
1000	100	2500	14.56	-	-	-	105	-	-
1005	100	3000	14.56	-	-	-	71	-	-
1010	100	3500	14.56	-	-	-	52	-	-

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE IS TURBID WITH BLACK PARTICLES - SLIGHT ODOR ON WATER.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND / COURIER
 Airbill #: _____

Field Sampling Coordinator: James J. Johnson

GROUNDWATER SAMPLING LOG

Well No. LSSC-18

Site/GMA Name LYMAN STREET - GMA1
 Sampling Personnel AES / J.B. JR.
 Date APRIL 7, 2002
 Weather SEE NOTES ON PAGE 1.

WELL INFORMATION - See Page 1
ml/min mL

Time	Pump Rate (l/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1015	100	4000	14.56	-	-	-	42	-	-
1020	100	4500	14.56	12.23	8.14	0.600	26	8.04	-15.6
1025	100	5000	14.56	12.47	7.90	0.597	22	7.01	-13.2
1030	100	5500	14.56	12.70	7.74	0.595	23	6.77	-12.1
1035	100	6000	14.56	13.12	7.70	0.596	21	6.52	-12.5
1040	100	6500	14.56	13.27	7.66	0.596	19	6.57	-11.7
1045	100	7000	14.56	13.48	7.64	0.595	18	6.47	-10.4
1050	100	7500	14.56	13.53	7.66	0.596	17	6.40	-10.8
1055	100	8000	14.56	13.62	7.63	0.597	17	6.45	-10.2
SAMPLE TIME 1100									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. N2SC-075
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1
 Sampling Personnel JDL/SAB
 Date 4/7/06
 Weather Sunny, 35°, windy

WELL INFORMATION

Reference Point Marked? N
 Height of Reference Point 70.34 Meas. From WBM
 Well Diameter 2"
 Screen Interval Depth 8.9-18.9 Meas. From _____
 Water Table Depth 10.34 Meas. From TIC
 Well Depth 18.91 Meas. From TIC
 Length of Water Column 8.57
 Volume of Water in Well 1.40 gallons
 Intake Depth of Pump/Tubing ~14.5' Meas. From TIC

Sample Time 1055
 Sample ID N2SC-07.5
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 9:35
 Pump Stop Time 11:10
 Minutes of Pumping 95
 Volume of Water Removed 3.75 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschallk System One
 Samples collected by same method as evacuation? N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPJ Husky 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
940	150	0	10.34	-	-	-	37	-	-
945	150	750	10.34	-	-	-	37	-	-
950	150	1500	10.34	9.26	6.63	0.707	10	10.02	-58.2
955	150	2250	10.34	8.78	6.95	0.709	6	2.69	-71.9
1000	150	3000	10.34	8.87	7.12	0.709	5	2.29	-74.1
1005	150	3750	10.34	8.81	7.20	0.712	3	2.61	-73.2
1010	150	4500	10.34	9.07	7.32	0.710	2	2.45	-73.5
1015	150	5250	10.34	9.06	7.46	0.713	1	2.18	-76.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: LPI
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. N25C-07S Site/GMA Name GMA-1
 Sampling Personnel JDL/SAB
 Date 4/7/06
 Weather SUNNY, 35°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons ml Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1020	150	6000	10.34	9.40	7.37	0.710	1	2.23	-74.4
1025	150	6750	10.34	9.47	7.37	0.712	1	2.38	-74.1
1030	150	7500	10.34	9.55	7.28	0.711	1	2.46	-72.6
1035	150	8250	10.34	9.79	7.30	0.711	1	2.05	-73.2
1040	150	9000	10.34	9.55	7.27	0.713	0	2.26	-73.7
1045	150	9750	10.34	9.47	7.20	0.713	0	2.27	-71.9
1050	150	10500	10.34	9.44	7.19	0.712	0	2.21	-72.8

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS _____

GROUNDWATER SAMPLING LOG

Well No. NS-17
 Key No. FX-37
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GMA-1 GE Pittsfield
 Sampling Personnel GAR/KAK
 Date 4/7/06
 Weather Partly cloudy, 45°F

WELL INFORMATION

Reference Point Marked? (Y) N
 Height of Reference Point +3.15' Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 6'-16' Meas. From Ground
 Water Table Depth 12.01' Meas. From TIC
 Well Depth 18.84' Meas. From TIC
 Length of Water Column 6.83'
 Volume of Water in Well 1.11 gallons
 Intake Depth of Pump/Tubing 15.5' Meas. From TIC

Sample Time 11:10
 Sample ID NS-17
 Duplicate ID -
 MSMSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y (N)

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
()	PCBs (Dissolved)	()
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 9:45
 Pump Stop Time 11:15
 Minutes of Pumping 90
 Volume of Water Removed 3.5 gallons
 Did Well Go Dry? Y (N)

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump (X) Submersible Pump () Other/Specify ()
 Pump Type: Geo Pump 2
 Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS Hach 2100P Turbiditymeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
9:50	150ml	0.20	12.03'	-	-	-	51	-	-
10:00	150ml	0.59	12.04'	-	-	-	36	-	-
10:05	150ml	0.79	12.04'	8.81	6.61	0.754	27	40.01	122.0
10:10	150ml	0.99	12.04'	8.88	6.24	0.752	24	5.46	60.0
10:15	150ml	1.19	12.04	9.23	6.62	0.754	23	2.36	29.2
10:20	150ml	1.39	12.04	9.25	6.32	0.756	17	1.40	13.8
10:25	150ml	1.59	12.04	9.26	6.38	0.757	14	1.08	-0.2
10:30	150ml	1.78	12.04	9.12	6.39	0.760	15	0.79	-6.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Orange-brown, some solids
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. N5-17

Site/GMA Name GE Pitts field - GMA-1
 Sampling Personnel GAR/KAK
 Date 4/7/06
 Weather Partly cloudy, 45°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
10:35	150ml	1.98	12.04	9.27	6.37	0.761	13	0.72	-14.0
10:40	150ml	2.18	12.04	9.52	6.47	0.762	11	0.63	-21.9
10:45	150ml	2.38	12.04	9.54	6.49	0.765	11	0.58	-29.1
10:50	150ml	2.58	12.04	9.54	6.44	0.761	10	0.54	-29.8
10:55	150ml	2.77	12.04	9.66	6.45	0.760	8	0.49	-36.0
11:00	150ml	2.97	12.04	9.70	6.50	0.763	7	0.46	-41.3
11:05	150ml	3.17	12.04	9.52	6.51	0.762	8	0.43	-42.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. 72R
 Key No. NA
 PID Background (ppm) 0
 Well Headspace (ppm) 0

Site/GMA Name GE Pitts field - GMA-1
 Sampling Personnel GAR/KAK
 Date 4/4/06
 Weather Overcast, rain/snow, 30-35°F

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point -0.25' Meas. From Ground
 Well Diameter 4"
 Screen Interval Depth 4'-14" Meas. From Ground
 Water Table Depth 6.82' Meas. From TIC
 Well Depth 13.48' Meas. From TIC
 Length of Water Column 6.66'
 Volume of Water in Well 4.35 gal/ft³
 Intake Depth of Pump/Tubing 10.2" Meas. From TIC

Sample Time 14:05
 Sample ID 72R
 Duplicate ID GMA-DUP-1
 MS/MSD -
 Split Sample ID -

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
<input type="checkbox"/>	VOCs (Std. list)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VOCs (Exp. list)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SVOCs	<input type="checkbox"/>
<input type="checkbox"/>	PCBs (Total)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	PCBs (Dissolved)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Metals/Inorganics (Total)	<input type="checkbox"/>
<input type="checkbox"/>	Metals/Inorganics (Dissolved)	<input type="checkbox"/>
<input type="checkbox"/>	EPA Cyanide (Dissolved)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	PAC Cyanide (Dissolved)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	PCDDs/PCDFs	<input type="checkbox"/>
<input type="checkbox"/>	Pesticides/Herbicides	<input type="checkbox"/>
<input type="checkbox"/>	Natural Attenuation	<input type="checkbox"/>
<input type="checkbox"/>	Other (Specify)	<input type="checkbox"/>

EVACUATION INFORMATION

Pump Start Time 12:20
 Pump Stop Time 14:55
 Minutes of Pumping 135
 Volume of Water Removed 3.5 gal/ft³
 Did Well Go Dry? Y N

Evacuation Method: Bailer Bladder Pump
 Peristaltic Pump Submersible Pump Other/Specify
 Pump Type: Marschalk System One
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS

Hach 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) ST [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	GRP (mV) [10 mV]*
12:35	100ml	0.40	7.00	-	-	-	4	-	-
12:40	100ml	0.53	7.10	6.11	6.37	3.969	2	24.30	251.3
12:45	100ml	0.66	7.15	5.87	6.27	3.952	1	9.74	259.6
12:50	100ml	0.79	7.20	5.69	6.26	3.909	2	9.11	266.5
12:55	100ml	0.92	7.25	5.55	6.26	3.867	1	8.94	272.4
13:00	100ml	1.06	7.48	6.37	6.27	3.749	2	8.38	274.8
13:05	100ml	1.19	7.52	5.98	6.27	3.667	2	8.39	278.2
13:10	100ml	1.32		6.34					

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Pump: Clear, odorless.
Final Pump:
Air Compressor stopped working at 13:10, started pumping again at 13:30, had to reset flow rate

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: -

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. FZR

Site/GMA Name GE Pittsfield - GMA-1
 Sampling Personnel GAR/KAK
 Date 4/4/06
 Weather Overcast, rain/snow, 30-35°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
13:40	100ml	1.45	7.38	5.49	6.35	3.665	6	8.86	295.8
13:45	100ml	1.58	7.41	5.60	6.29	3.666	14	8.42	297.0
13:50	100ml	1.71	7.43	5.55	6.31	3.617	23	8.48	298.7
13:55	100ml	1.84	7.50	5.57	6.31	3.595	22	8.44	299.9
14:00	100ml	1.97	7.52	5.49	6.31	3.597	23	8.44	301.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS _____

GROUNDWATER SAMPLING LOG

Well No. 139R
 Key No. _____
 PID Background (ppm) _____
 Well Headspace (ppm) _____

Site/GMA Name GMA 1 - PITTSFIELD, MA
 Sampling Personnel AES, KAK
 Date APRIL 14, 2006
 Weather SUNNY, 61°F, SLIGHT BREEZE

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth _____ Meas. From _____
 Water Table Depth 10.76 Meas. From TIC
 Well Depth 14. Meas. From _____
 Length of Water Column _____
 Volume of Water in Well _____
 Intake Depth of Pump/Tubing _____ Meas. From _____

Sample Time 1055
 Sample ID 139R
 Duplicate ID _____
 MS/MSD _____
 Split Sample ID _____

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time _____
 Pump Stop Time _____
 Minutes of Pumping _____
 Volume of Water Removed _____
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump Submersible Pump () Other/Specify ()
 Pump Type: GEOPUMP 2
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MP3, HACH 2100P TURBIDIMETER

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
0940	100	-	10.76	-	-	-	34	-	-
0945	100	500	11.05	8.75	12.68	0.591	34	9.12	75.3
0950	100	1000	11.40	8.89	13.94	0.593	50	7.47	-25.0
0955	100	1500	11.50	8.66	13.96	0.605	68	6.78	-45.2
1000	100	2000	11.50	8.89	18.28	0.604	43	6.96	-44.6
1005	100	2500	11.50	8.94	18.02	0.606	28	7.16	-27.0
1010	100	3000	11.50	9.25	17.42	0.610	20	7.16	-14.7
1015	100	3500	11.50	9.18	16.48	0.612	19	7.20	-8.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURSE IS CLEAR; LOW TURBIDITY.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND/OVERNIGHT
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. 139E

Site/GMA Name BMA1 - PITTSFIELD, MA
 Sampling Personnel APES, KAR
 Date APRIL 14, 2006
 Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (l/min) (gpm)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1020	100	4000	11.50	9.20	16.52	0.620	17	7.55	-31.7
1025	100	4500	11.50	9.20	16.65	0.623	17	7.62	-36.9
1030	100	5000	11.50	9.18	16.60	0.624	15	7.69	-40.3
1035	100	5500	11.50	9.14	16.58	0.630	15	7.70	-42.1
1040	100	6000	11.50	9.06	16.54	0.631	14	7.72	-43.2
1045	100	6500	11.50	9.09	16.50	0.632	13	7.75	-39.7
1050	100	7000	11.50	9.14	16.49	0.631	13	7.70	-35.8
SAMPLE TIME 1055									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
 OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. GMA1-6
 Key No. —
 PID Background (ppm) —
 Well Headspace (ppm) —

Site/GMA Name EAST STREET AREA / SOUTH - GMA1
 Sampling Personnel AES + CUR JR.
 Date APRIL 4, 2006
 Weather OVERCAST, SPRINKLES, MID 30'S.

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point _____ Meas. From _____
 Well Diameter 2"
 Screen Interval Depth 5'-15' Meas. From Ground
 Water Table Depth 7.86 Meas. From TIC
 Well Depth 15.08 Meas. From TIC
 Length of Water Column 7.22
 Volume of Water in Well 1.18 gallons
 Intake Depth of Pump/Tubing 11.5' Meas. From TIC

Sample Time 1440
 Sample ID GMA1-6
 Duplicate ID —
 MS/MSD —
 Split Sample ID —

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
<input type="checkbox"/>	VOCs (Std. list)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VOCs (Exp. list)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	SVOCs	<input type="checkbox"/>
<input type="checkbox"/>	PCBs (Total)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	PCBs (Dissolved)	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Metals/Inorganics (Total)	<input type="checkbox"/>
<input type="checkbox"/>	Metals/Inorganics (Dissolved)	<input type="checkbox"/>
<input type="checkbox"/>	PAC Cyanide (Dissolved)	<input type="checkbox"/>
<input type="checkbox"/>	PCDDs/PCDFs	<input type="checkbox"/>
<input type="checkbox"/>	Pesticides/Herbicides	<input type="checkbox"/>
<input type="checkbox"/>	Natural Attenuation	<input type="checkbox"/>
<input type="checkbox"/>	Other (Specify)	<input type="checkbox"/>

EVACUATION INFORMATION

Pump Start Time 1335
 Pump Stop Time 14:55
 Minutes of Pumping 80
 Volume of Water Removed 2.19 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump ()
 Peristaltic Pump Submersible Pump () Other/Specify ()
 Pump Type: GEOPUMP 2
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MRS, HACH 2100P TURBIDIMETER

Time	Pump Rate (l/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1340	100	—	7.86	—	—	—	128	—	—
1345	100	500	7.88	—	—	—	60	—	—
1350	100	1000	7.89	—	—	—	30	—	—
1355	100	1500	7.90	9.70	7.96	1.598	23	4.13	-84.5
1400	100	2000	7.90	9.66	7.51	1.565	18	2.55	-85.5
1405	100	2500	7.90	9.64	7.40	1.557	15	2.28	-86.0
1410	100	3000	7.90	9.63	7.36	1.554	9	2.33	-86.1
1415	100	3500	7.90	9.65	7.27	1.552	8	2.08	-88.8

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS INITIAL PURGE IS ORANGE-ISH IN COLOR, SLIGHTLY TURBID.

SAMPLE DESTINATION

Laboratory: SGS WEST VIRGINIA
 Delivered Via: UPS GROUND / COURIER
 Airbill #: _____

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. GMA1-6

Site/GMA Name EAST STREET AREA 2 SOUTH - GMA1

Sampling Personnel AES + JJB JR.

Date APRIL 4, 2006

Weather SEE PAGE 1.

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1420	100	4000	7.90	9.60	7.48	1.555	7	2.16	-89.9
1425	100	4500	7.90	9.53	7.46	1.553	6	2.20	-89.5
1430	100	5000	7.90	9.66	7.53	1.552	6	2.18	-90.4
1435	100	5500	7.90	9.65	7.55	1.551	6	2.14	-91.1
SAMPLE TIME		1440							

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS SEE NOTES ON PAGE 1.

GROUNDWATER SAMPLING LOG

Well No. GMA1-18
 Key No.
 PID Background (ppm) 0
 Well Headpace (ppm) 0

Site/GMA Name GMA-1 GE P, Hs field
 Sampling Personnel GAR/KAK
 Date 4/5/06
 Weather Mostly sunny, 30-35°F, Windy

WELL INFORMATION

Reference Point Marked? Y N
 Height of Reference Point -6.20' Meas. From Ground
 Well Diameter 2"
 Screen Interval Depth 4.44' Meas. From Ground
 Water Table Depth 7.02' Meas. From TIC
 Well Depth 13.72' Meas. From TIC
 Length of Water Column 6.7'
 Volume of Water in Well 1.09 gallons
 Intake Depth of Pump/Tubing 10.5' Meas. From TIC

Sample Time 16:00
 Sample ID GMA1-18
 Duplicate ID
 MS/MSD
 Split Sample ID

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
 TOC: Top of Outer (Protective) Casing
 Grade/BGS: Ground Surface

Redevelop? Y N

Required	Analytical Parameters:	Collected
()	VOCs (Std. list)	()
()	VOCs (Exp. list)	()
()	SVOCs	()
()	PCBs (Total)	()
(X)	PCBs (Dissolved)	(X)
()	Metals/Inorganics (Total)	()
()	Metals/Inorganics (Dissolved)	()
()	EPA Cyanide (Dissolved)	()
()	PAC Cyanide (Dissolved)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
()	Natural Attenuation	()
()	Other (Specify)	()

EVACUATION INFORMATION

Pump Start Time 13:55
 Pump Stop Time 16:15
 Minutes of Pumping 140
 Volume of Water Removed 3.7 gallons
 Did Well Go Dry? Y N

Evacuation Method: Bailer () Bladder Pump (X)
 Peristaltic Pump () Submersible Pump () Other/Specify ()
 Pump Type: Marschalk-System One
 Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS

Have 2100 P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:00	100ml	0.13	7.55	-	-	-	179	-	-
14:15	100ml	0.53	8.25	-	-	-	114	-	-
14:30	100ml	0.92	8.31	-	-	-	61	-	-
14:40	100ml	1.19	8.25	-	-	-	44	-	-
14:50	100ml	1.45	8.15	7.34	6.96	0.605	44	7.88	137.9
14:55	100ml	1.58	8.42	7.24	6.77	0.602	28	6.33	150.7
15:00	100ml	1.72	8.55	7.18	6.75	0.603	27	5.57	156.2
15:05	100ml	1.85	8.58	6.94	6.72	0.603	28	5.40	161.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Light-brown, cloudy, odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: SGS
 Delivered Via: UPS
 Airbill #: 444

Field Sampling Coordinator: [Signature]

GROUNDWATER SAMPLING LOG

Well No. GMA1-18

Site/GMA Name GE Pittsfield - GMA-1
Sampling Personnel GAR / KAK
Date 4/5/06
Weather Mostly sunny, 30-35°F, Windy

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:10	100	1.98	8.59	7.08	6.71	0.603	28	5.25	165.7
15:15	100	2.11	8.62	7.32	6.70	0.603	26	5.14	171.6
15:20	100	2.25	8.90	7.30	6.67	0.605	24	5.10	175.2
15:25	100	2.38	8.59	7.36	6.71	0.606	30	5.09	176.9
15:30	100	2.51	8.56	7.47	6.72	0.607	24	4.98	179.0
15:35	100	2.64	8.56	7.63	6.72	0.608	20	4.96	180.8
15:40	100	2.77	8.55	7.86	6.75	0.610	16	4.93	180.2
15:45	100	2.91	8.49	8.04	6.74	0.612	13	4.93	183.4
15:50	100	3.04	8.41	8.06	6.74	0.616	12	4.90	184.0
15:55	100	3.17	8.35	7.93	6.72	0.617	12	4.96	183.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Appendix C

Historical Groundwater Data

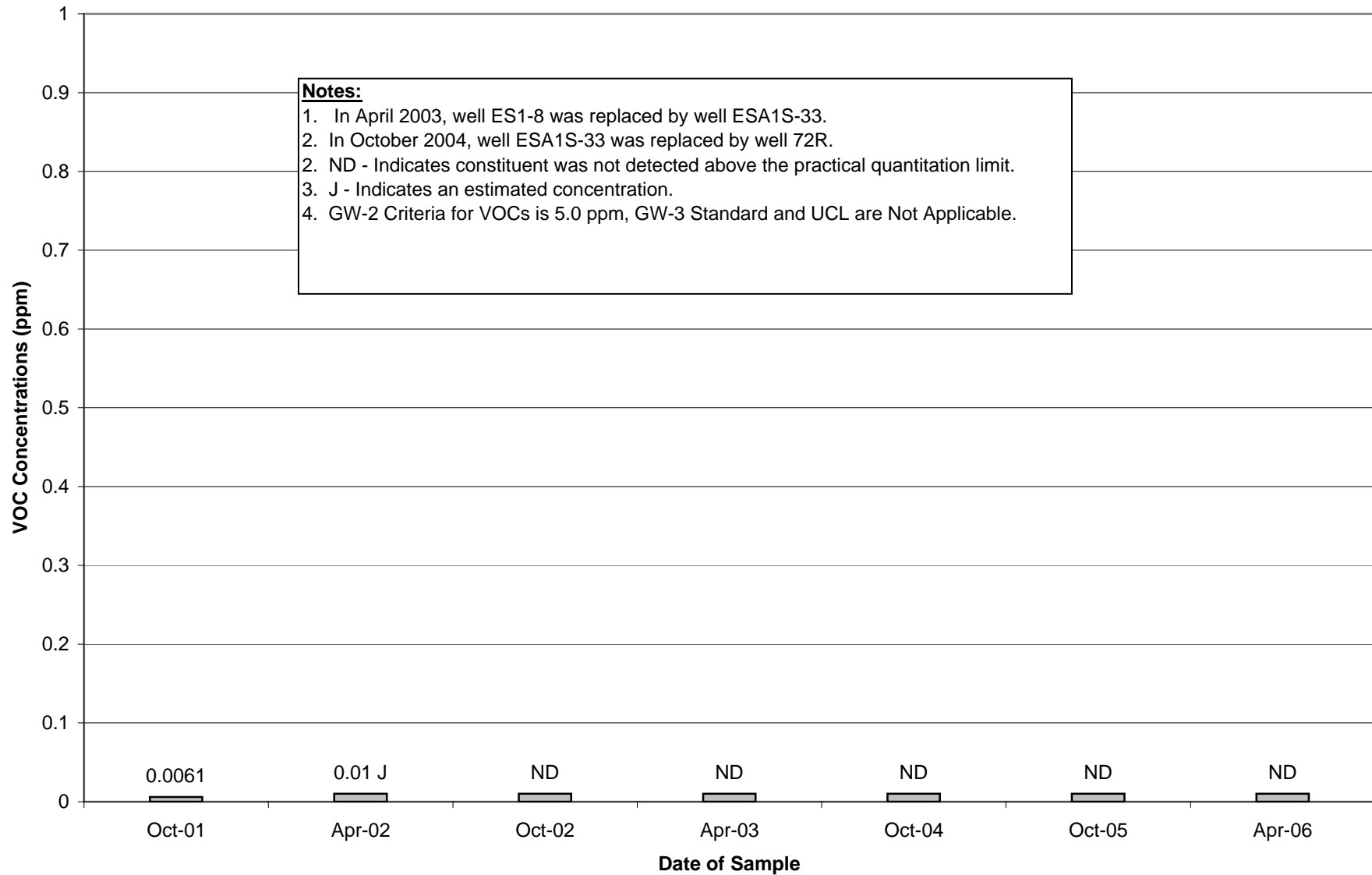
Historical Groundwater Data

Total VOC Concentrations – Wells Sampled in Spring 2006

Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

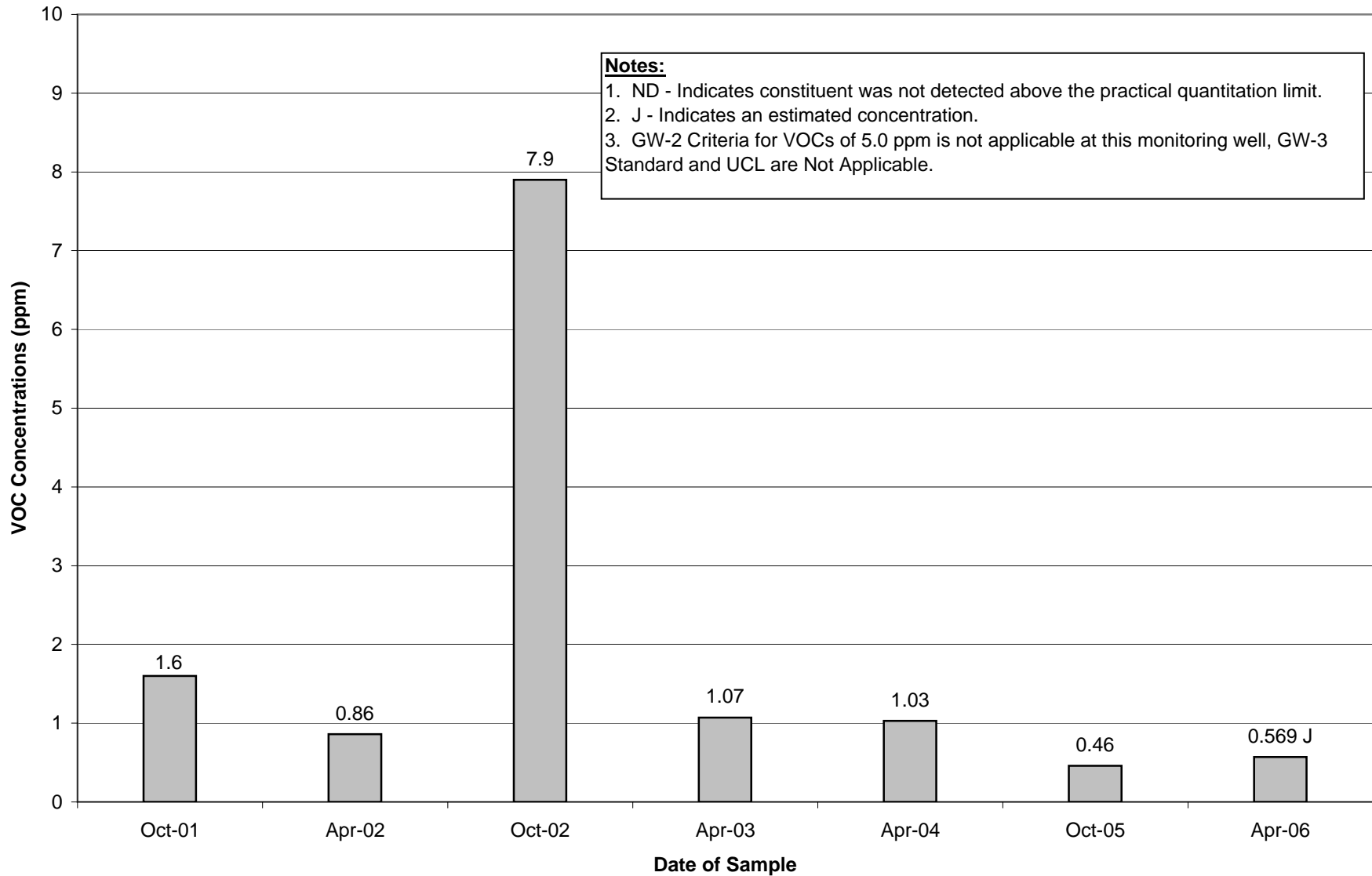
Well ES1-8&ESA1S-33&72R Historical VOC Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

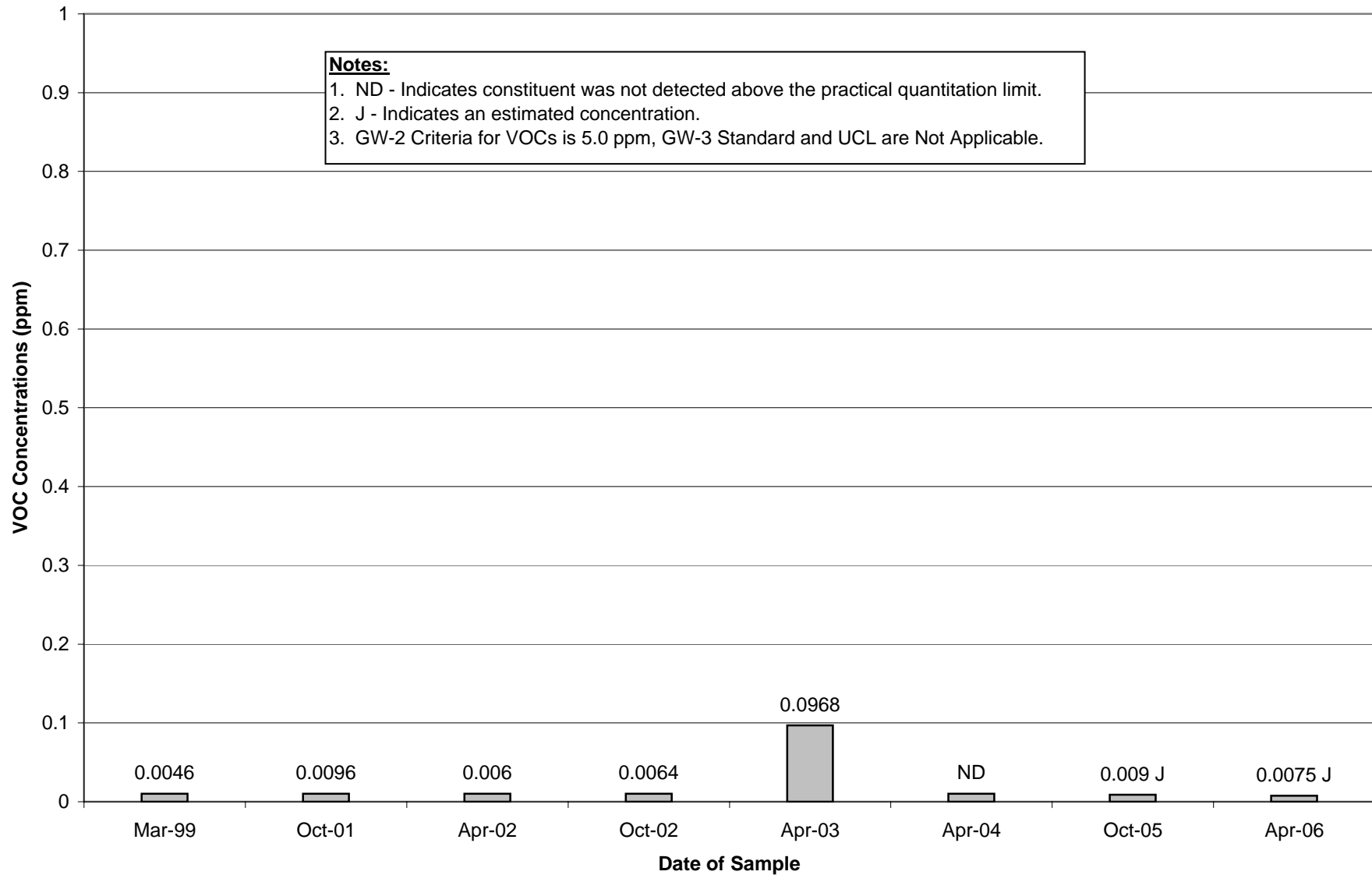
Well N2SC-07S Historical VOC Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

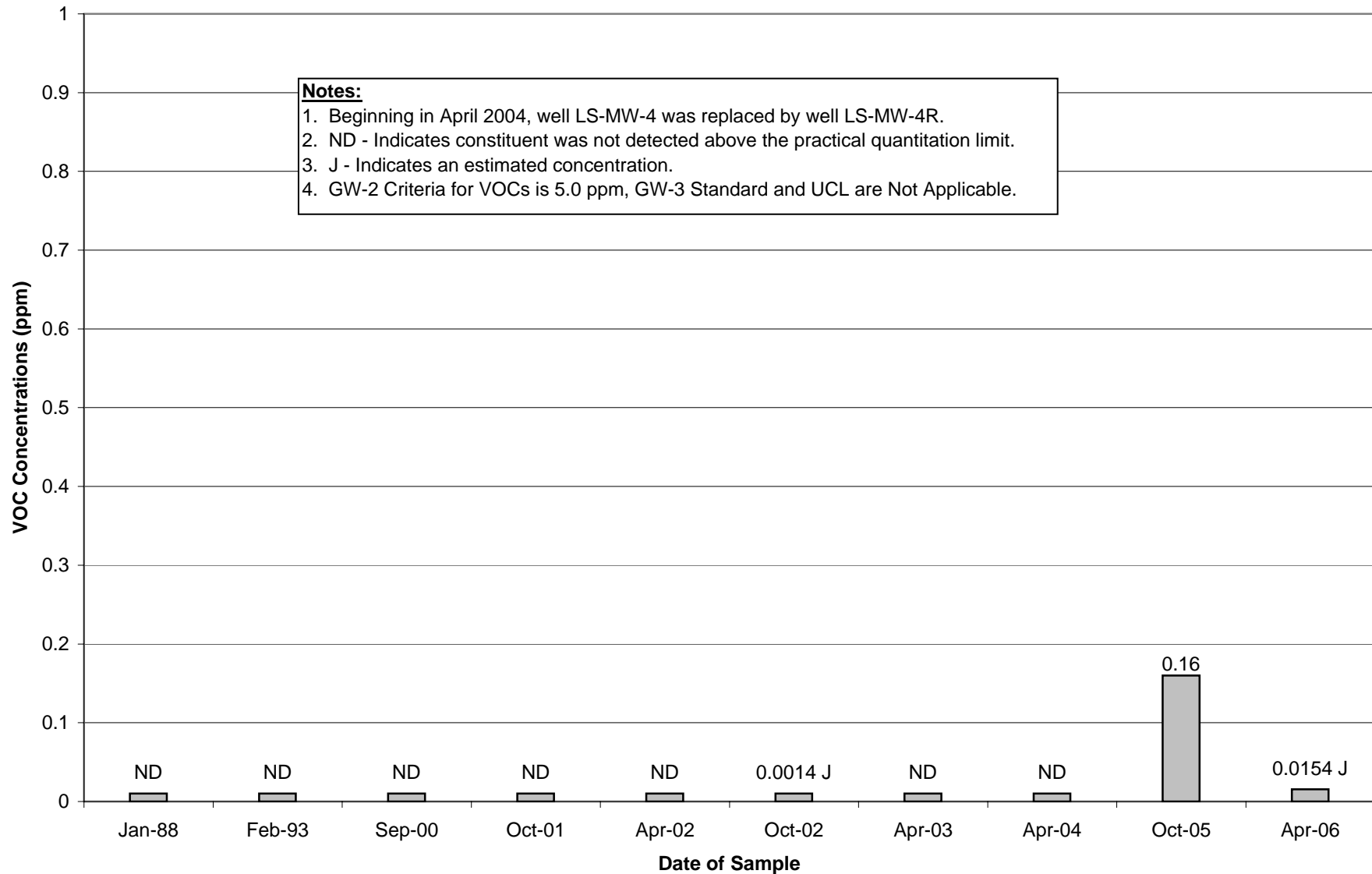
Well LSSC-16S Historical VOC Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

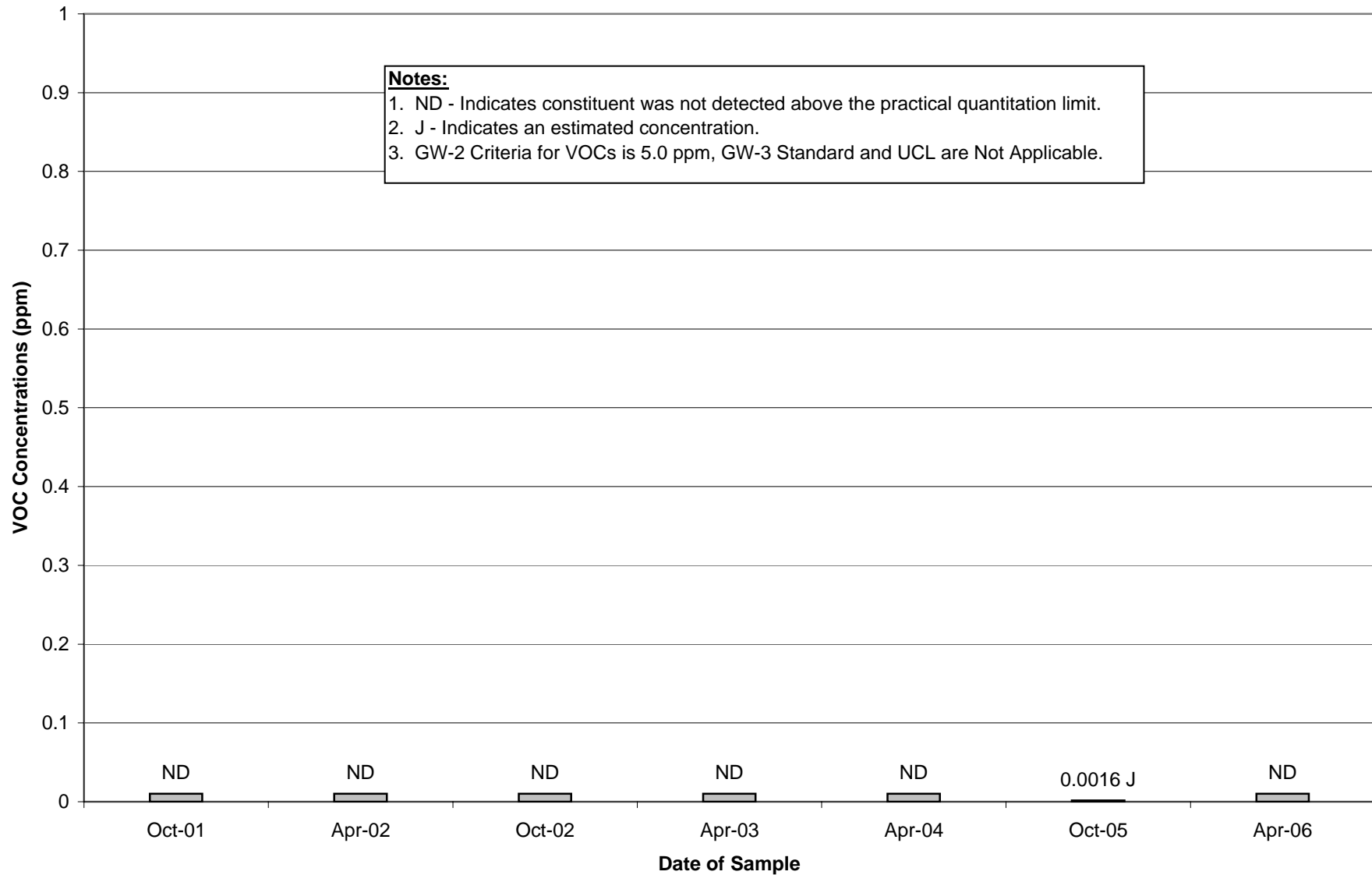
Well LS-MW-4 & LS-MW-4R Historical VOC Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

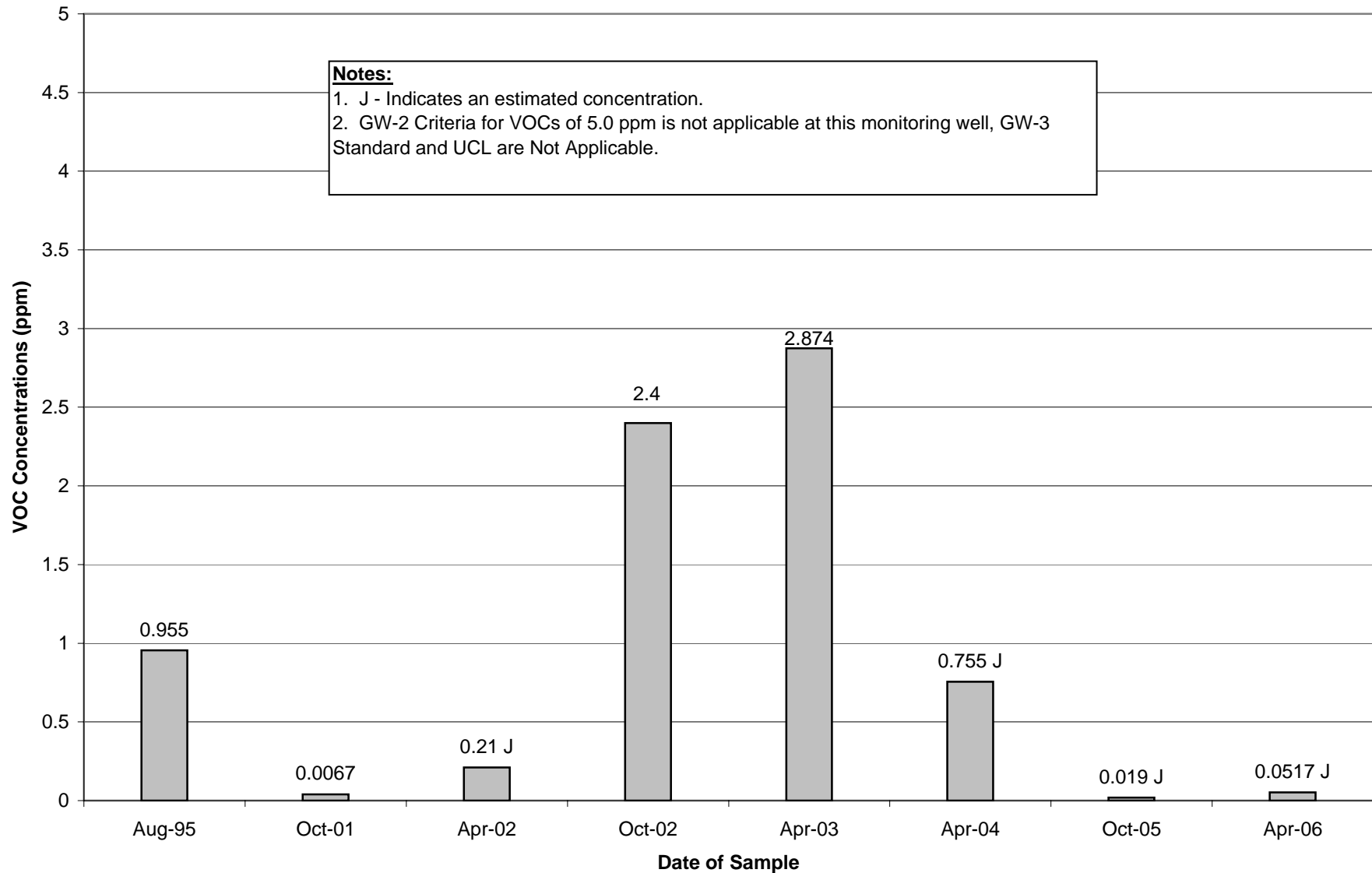
Well GMA1-6 Historical VOC Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

Well NS-17 Historical VOC Concentrations



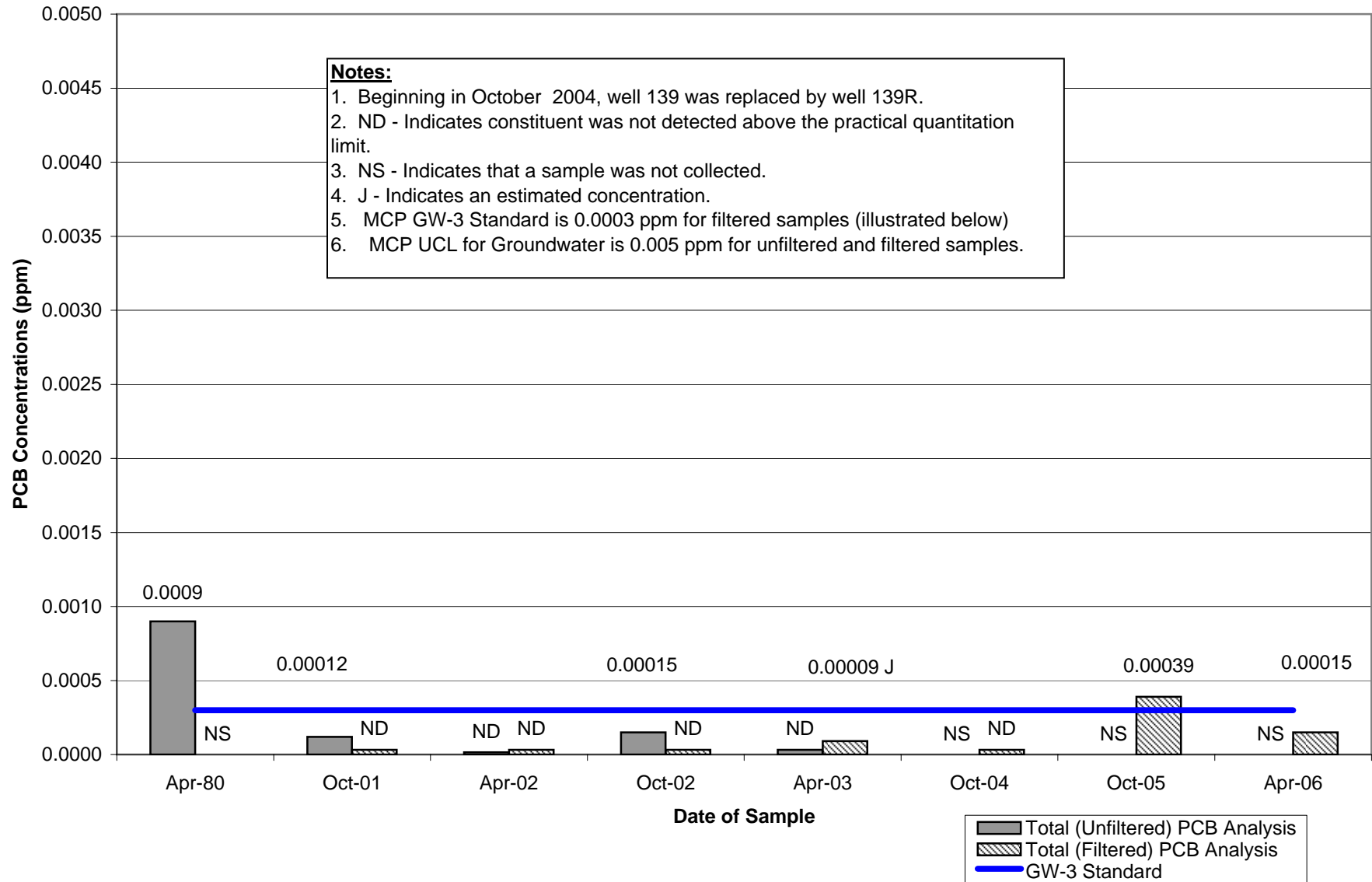
Historical Groundwater Data

Total PCB Concentrations – Wells Sampled in Spring 2006

Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

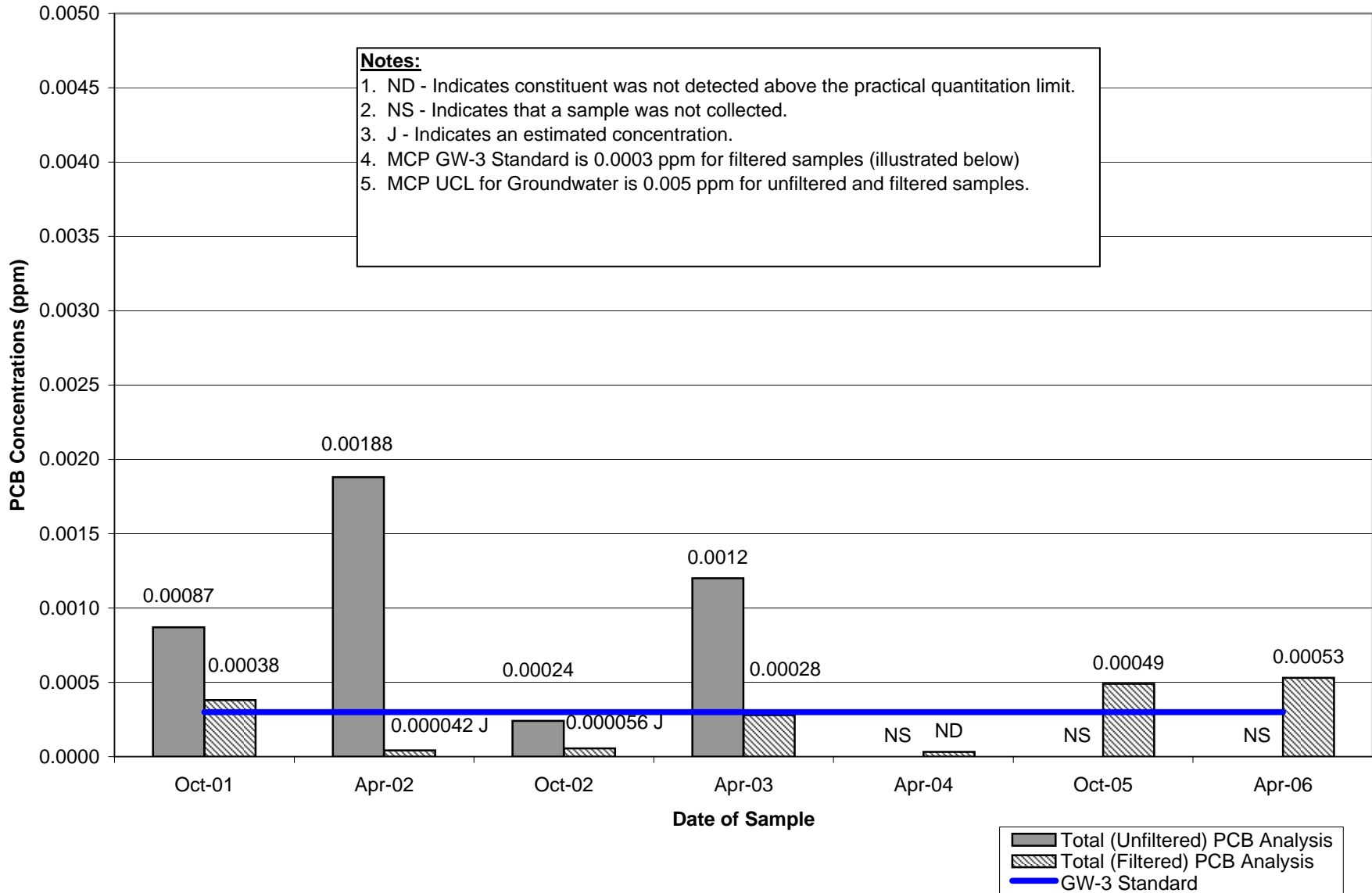
Well 139 & 139R Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

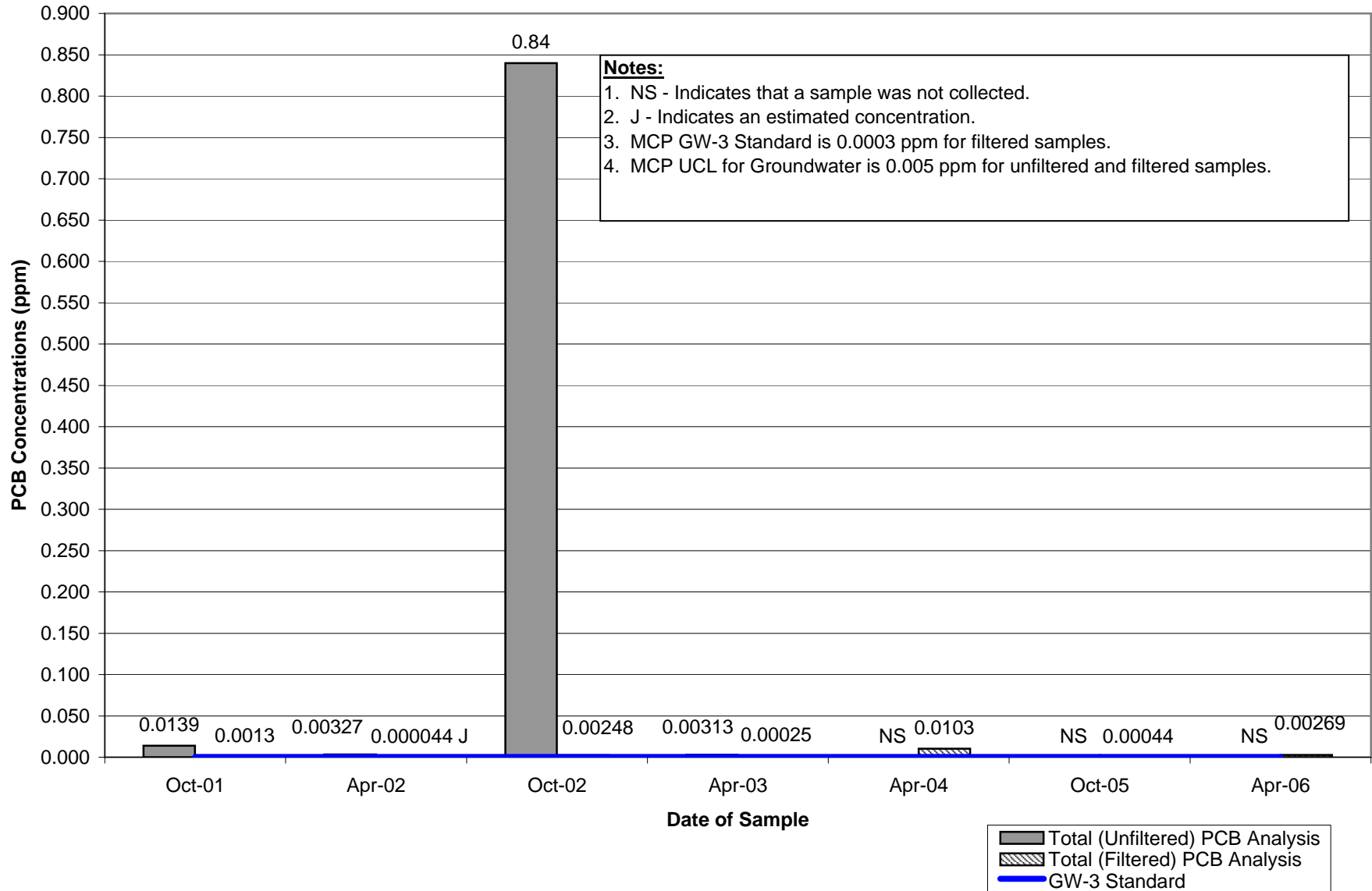
Well E2SC-24 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

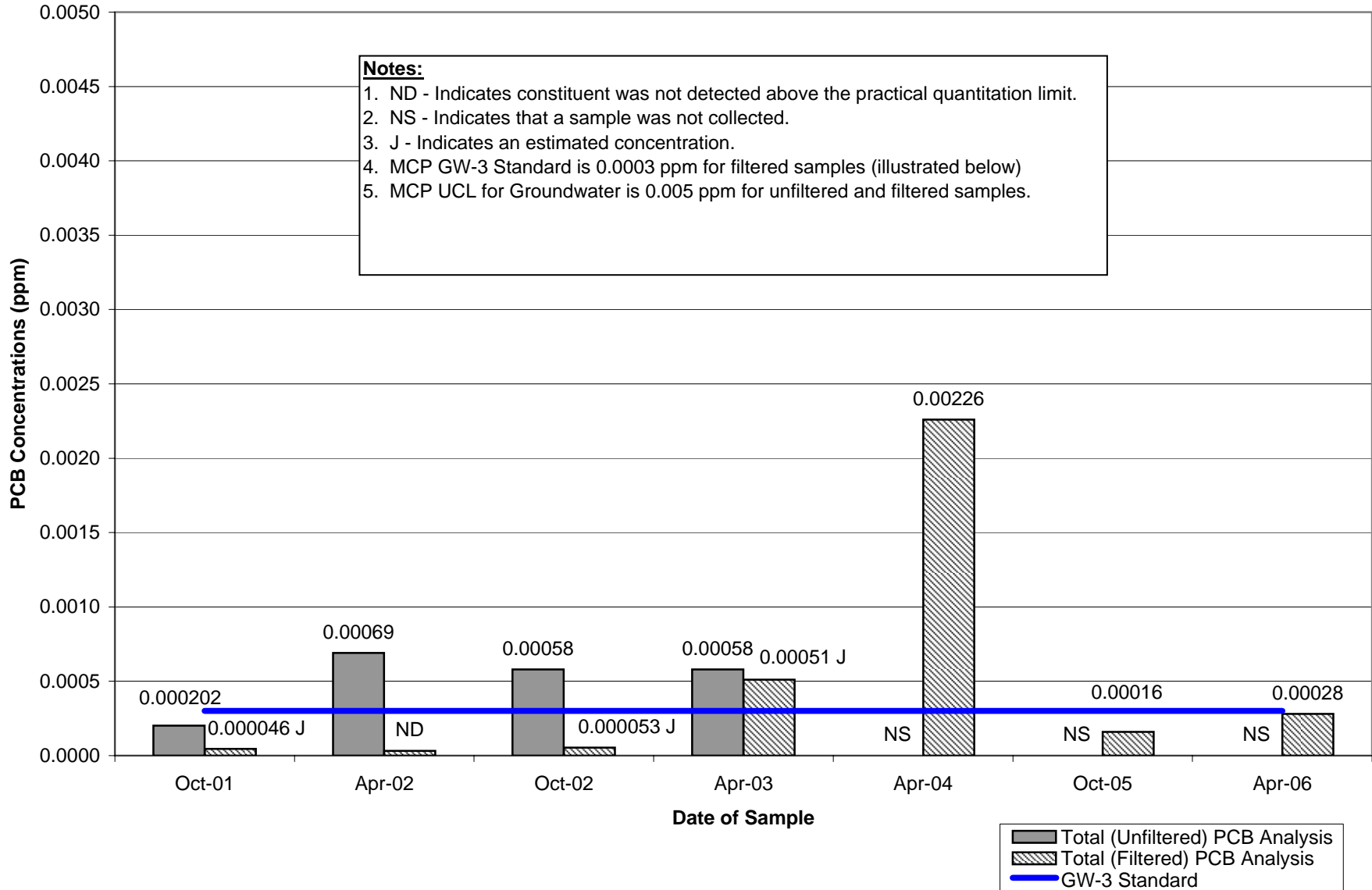
Well E2SC-23 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

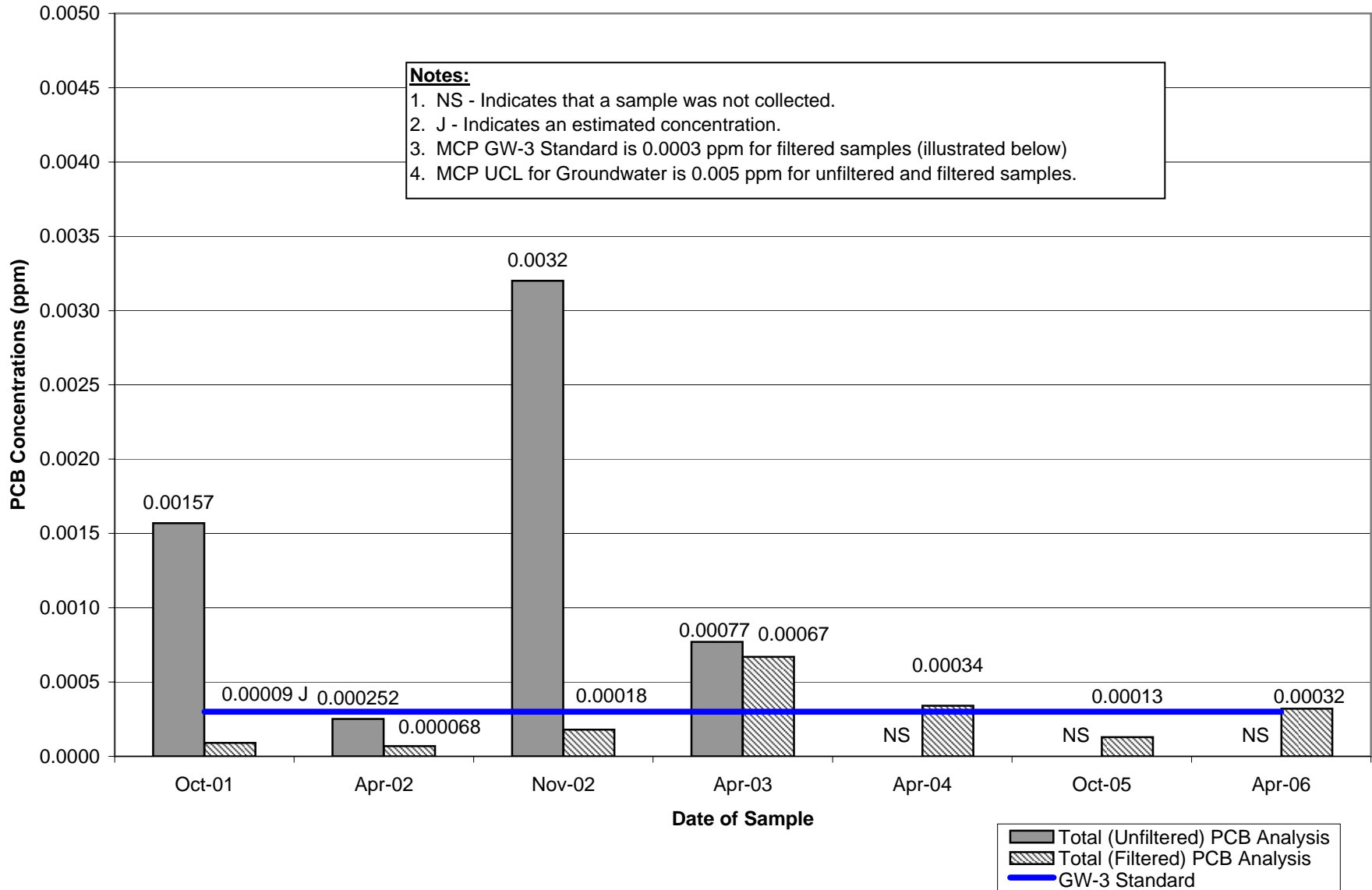
Well ES1-27R Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

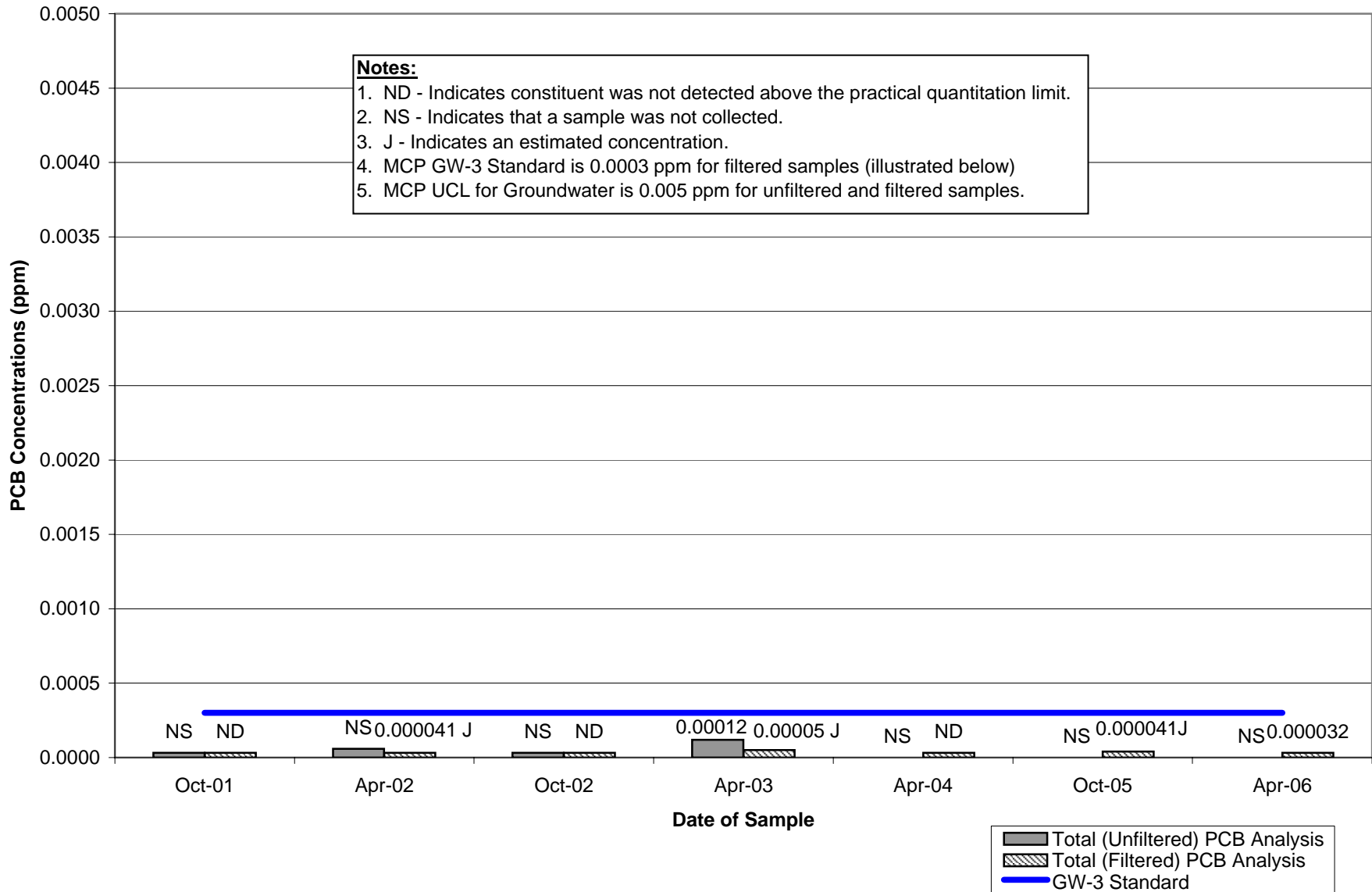
Well ES1-05 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

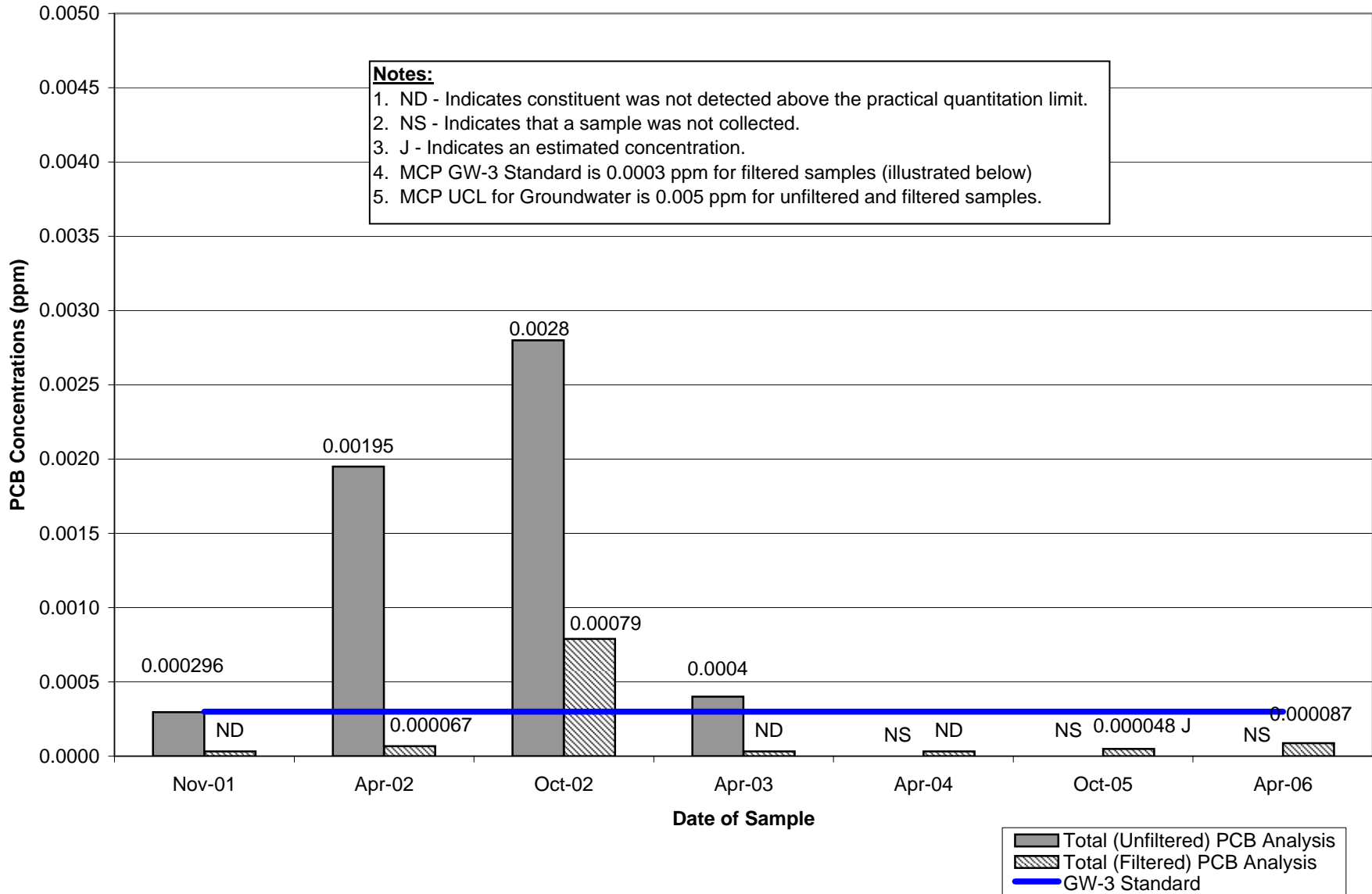
Well GMA1-6 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

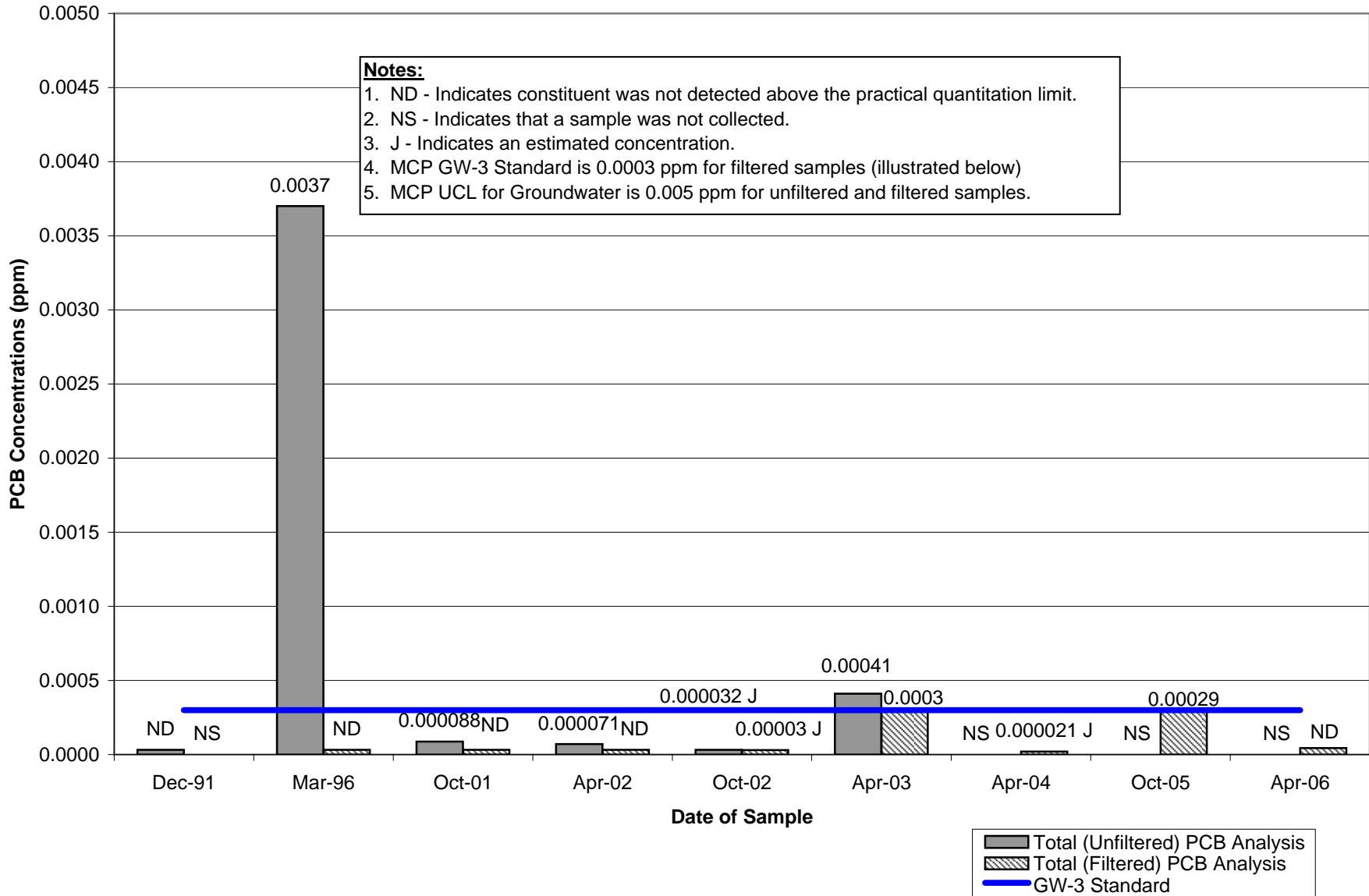
Well ESA1N-52 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

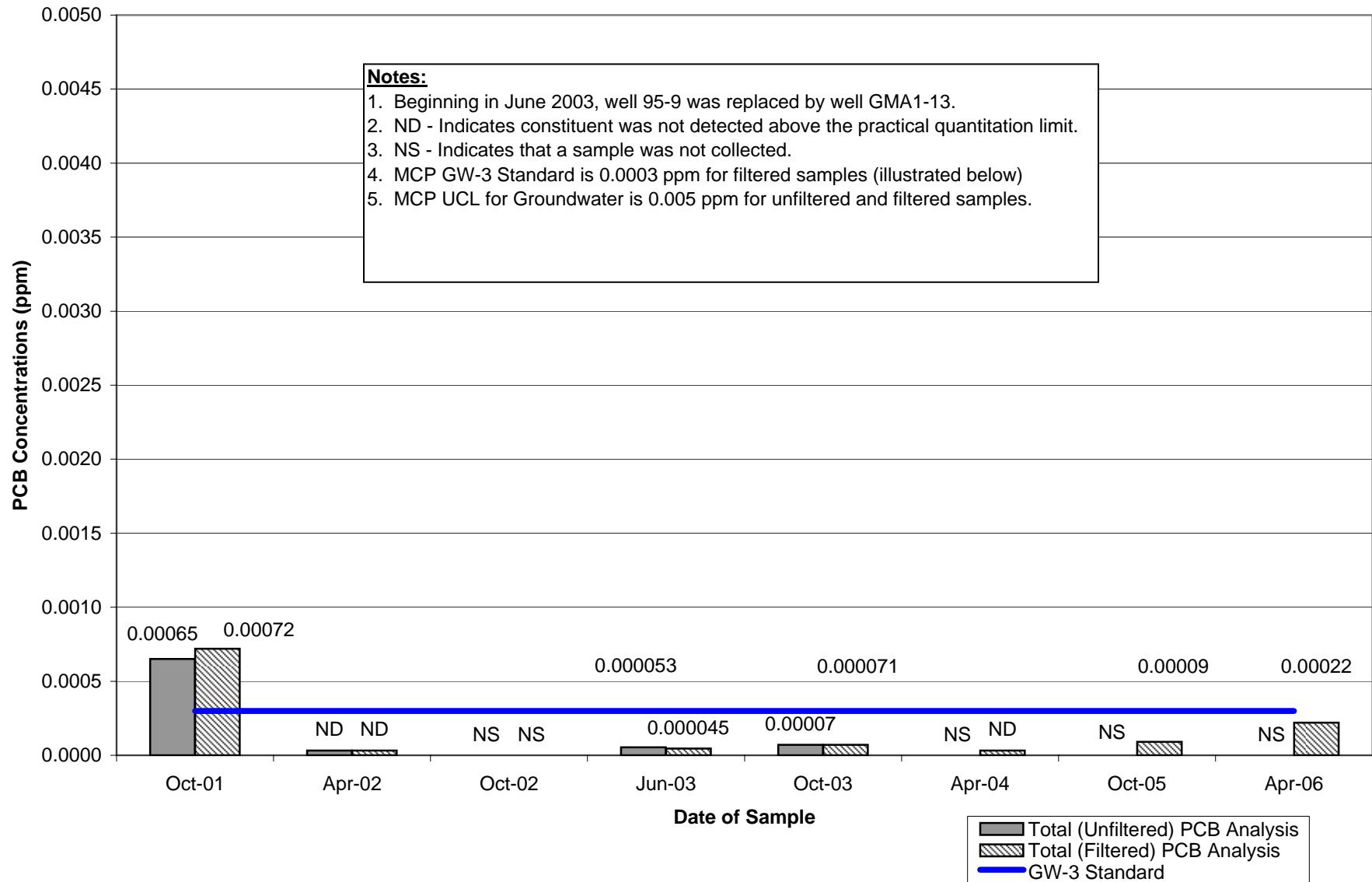
Well RF-02 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

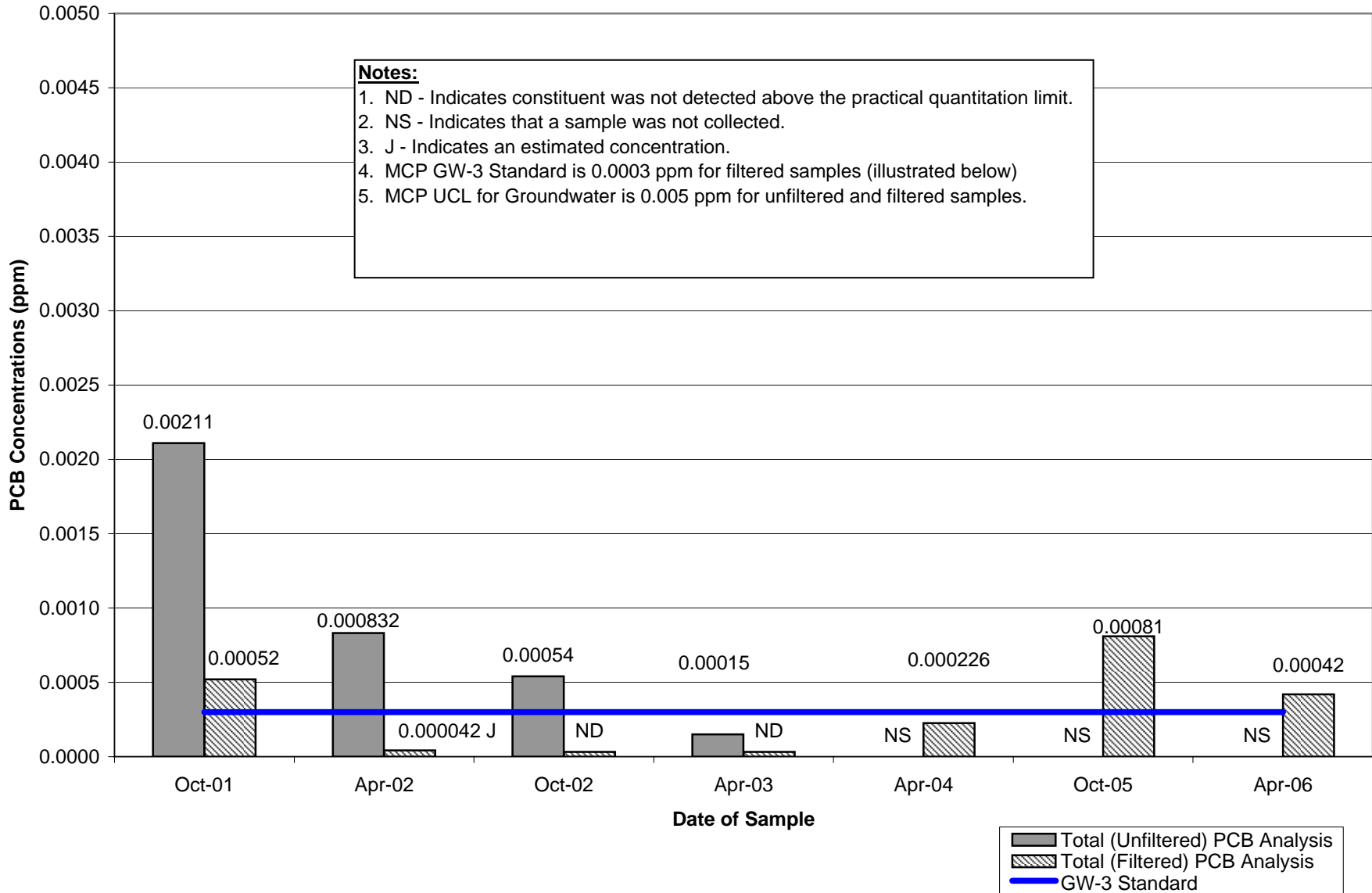
Well 95-9 & GMA1-13 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

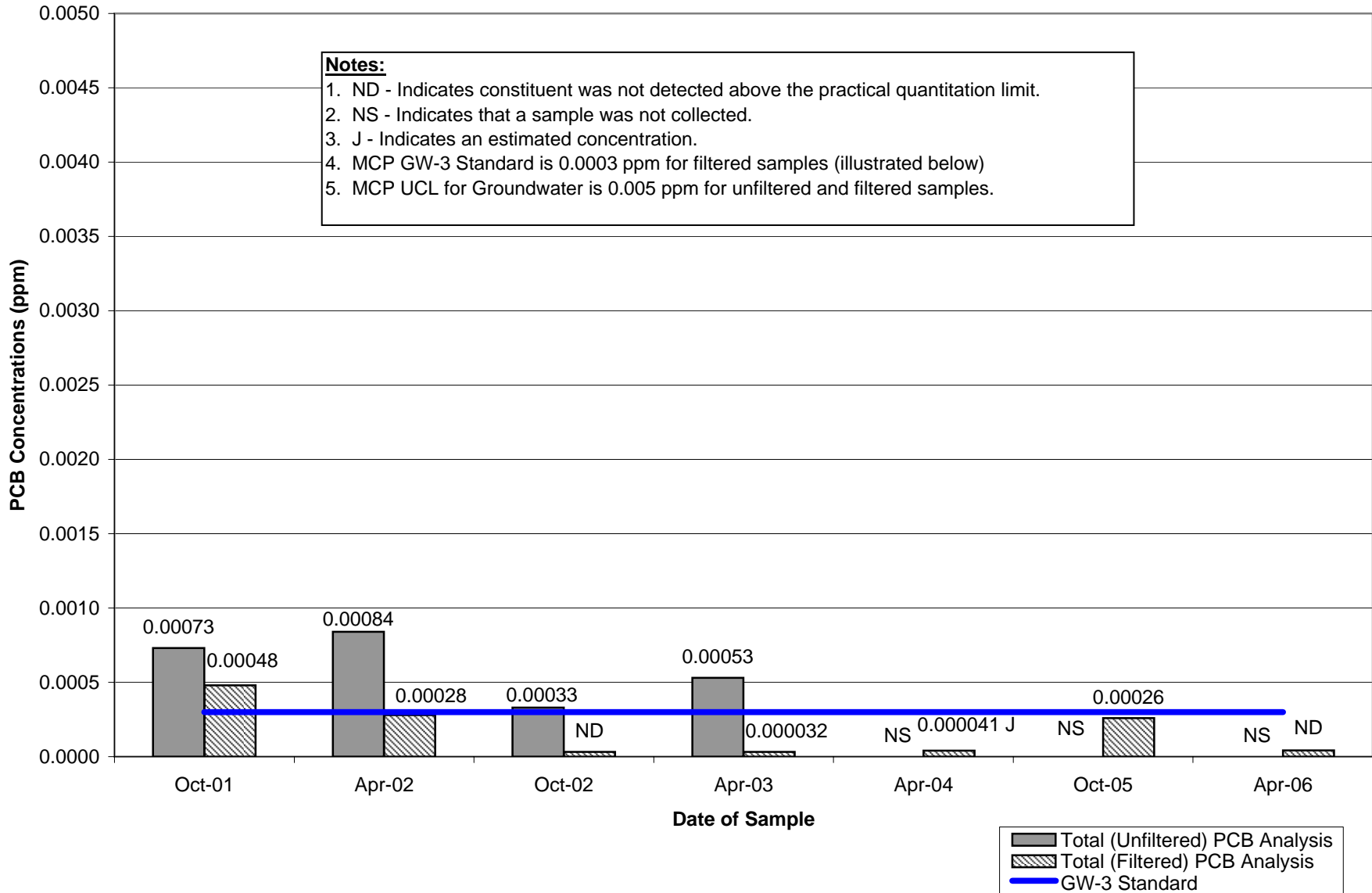
Well HR-G3-MW-1 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

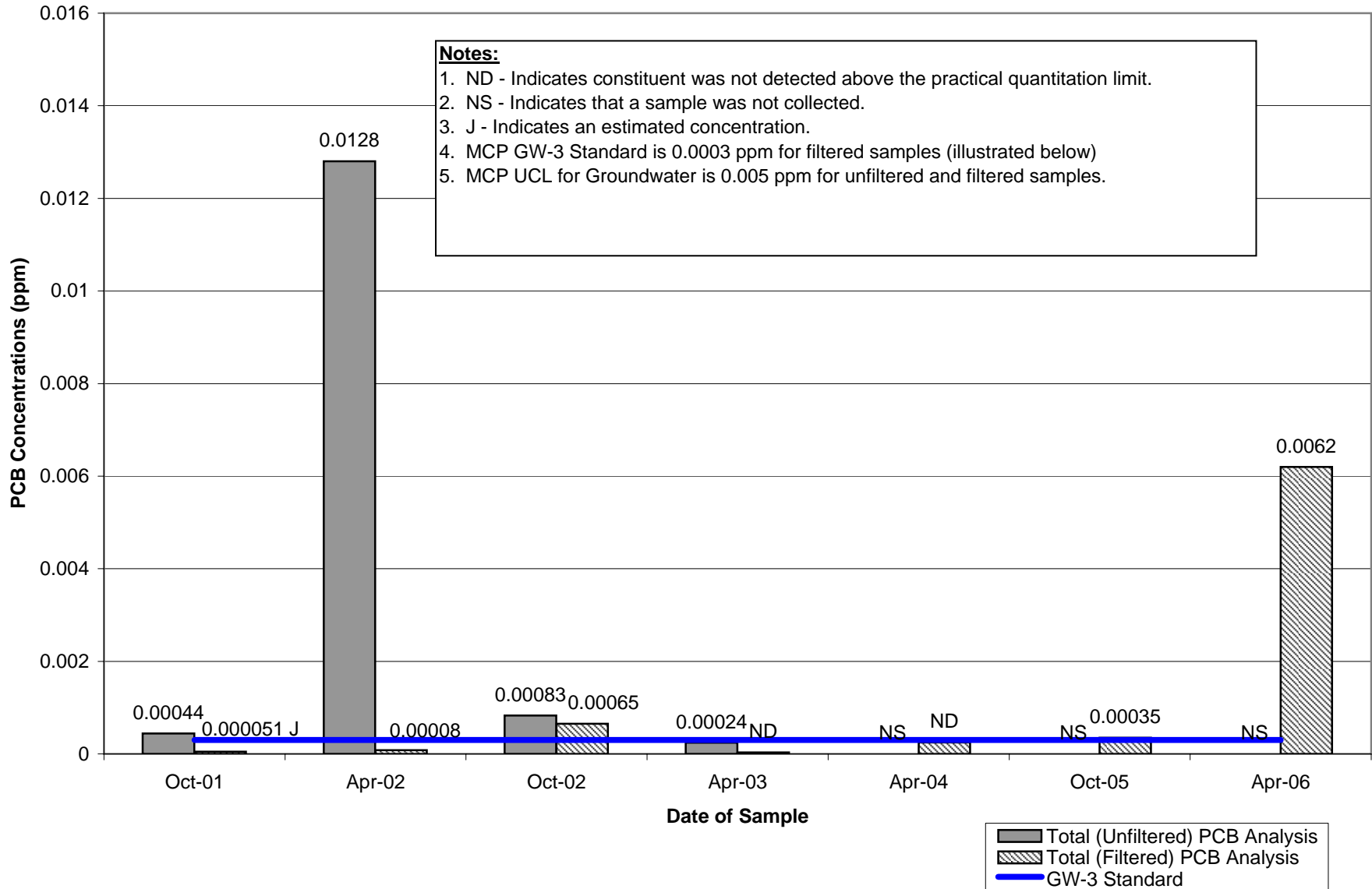
Well N2SC-07S Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

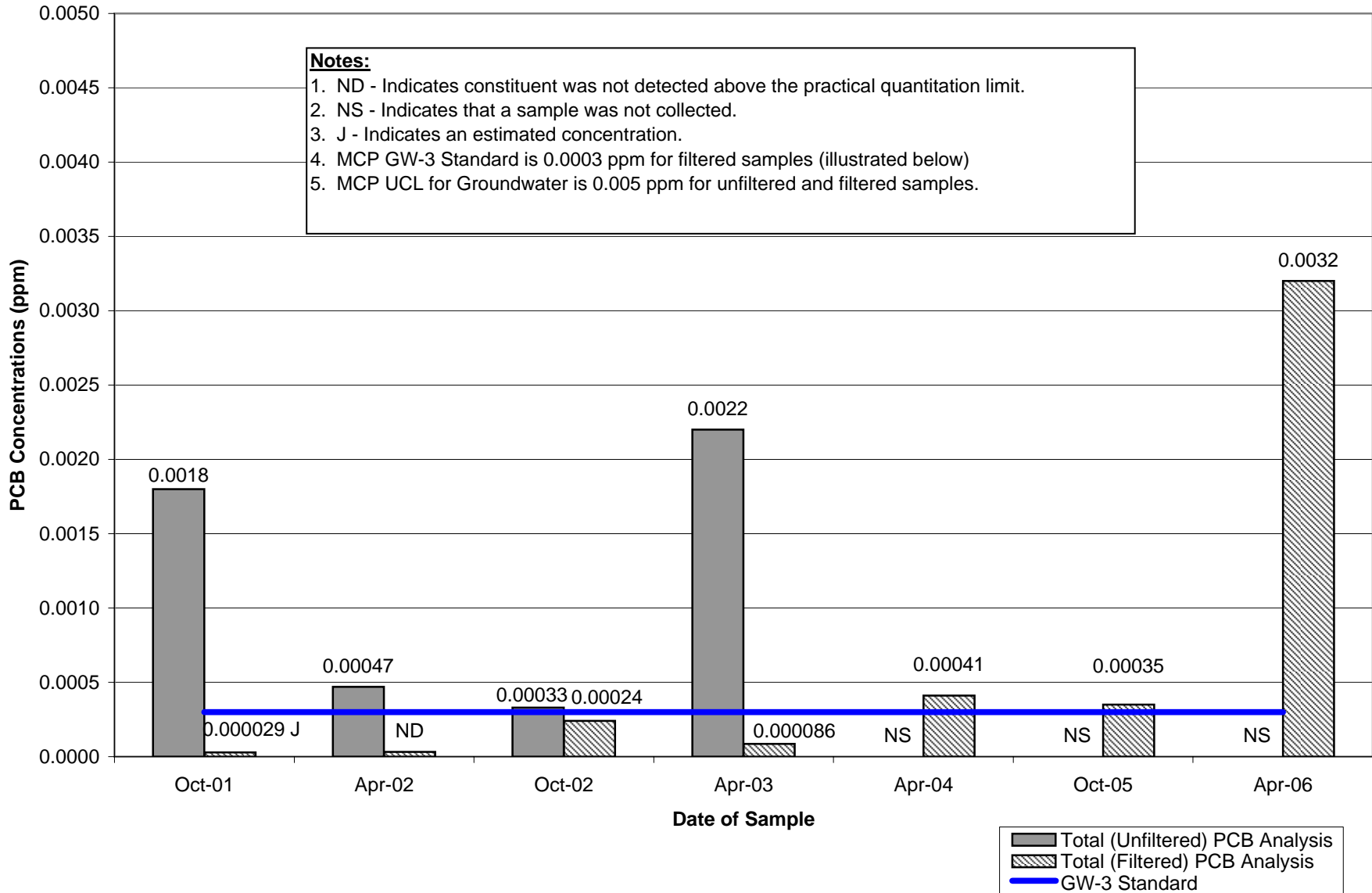
Well LSSC-18 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

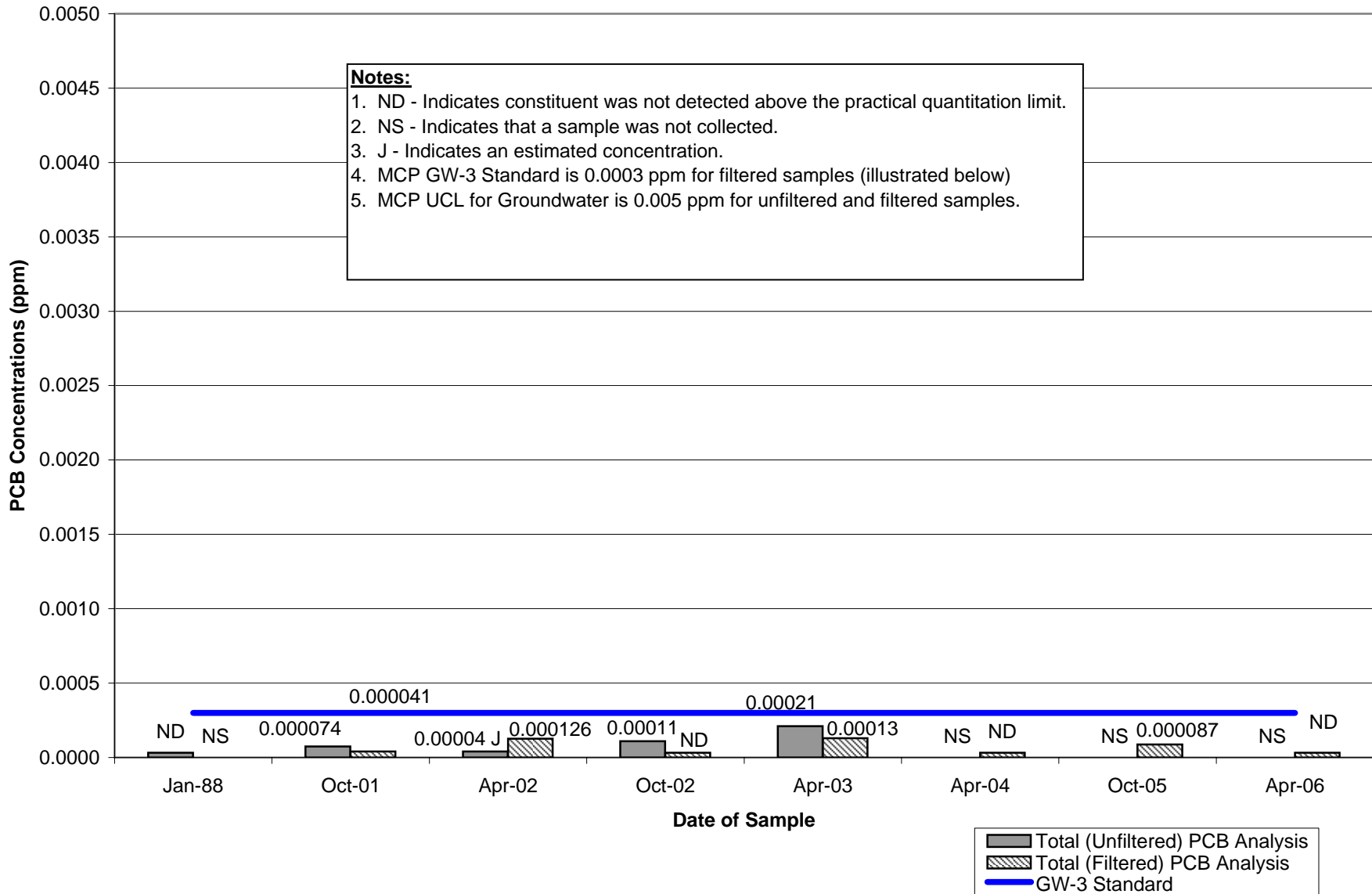
Well LSSC-08S Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

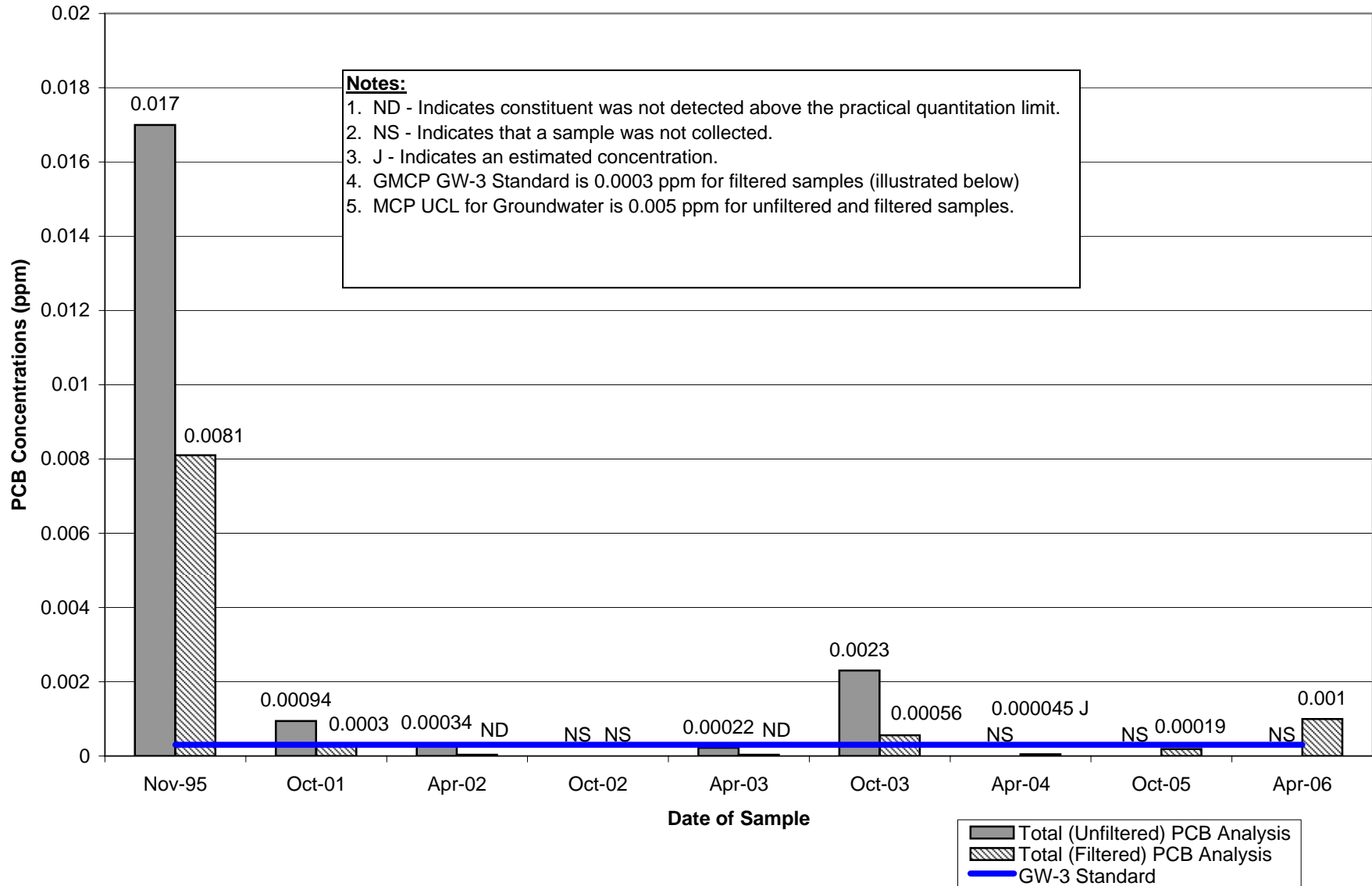
Well LS-MW-4 & LS-MW-4R Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

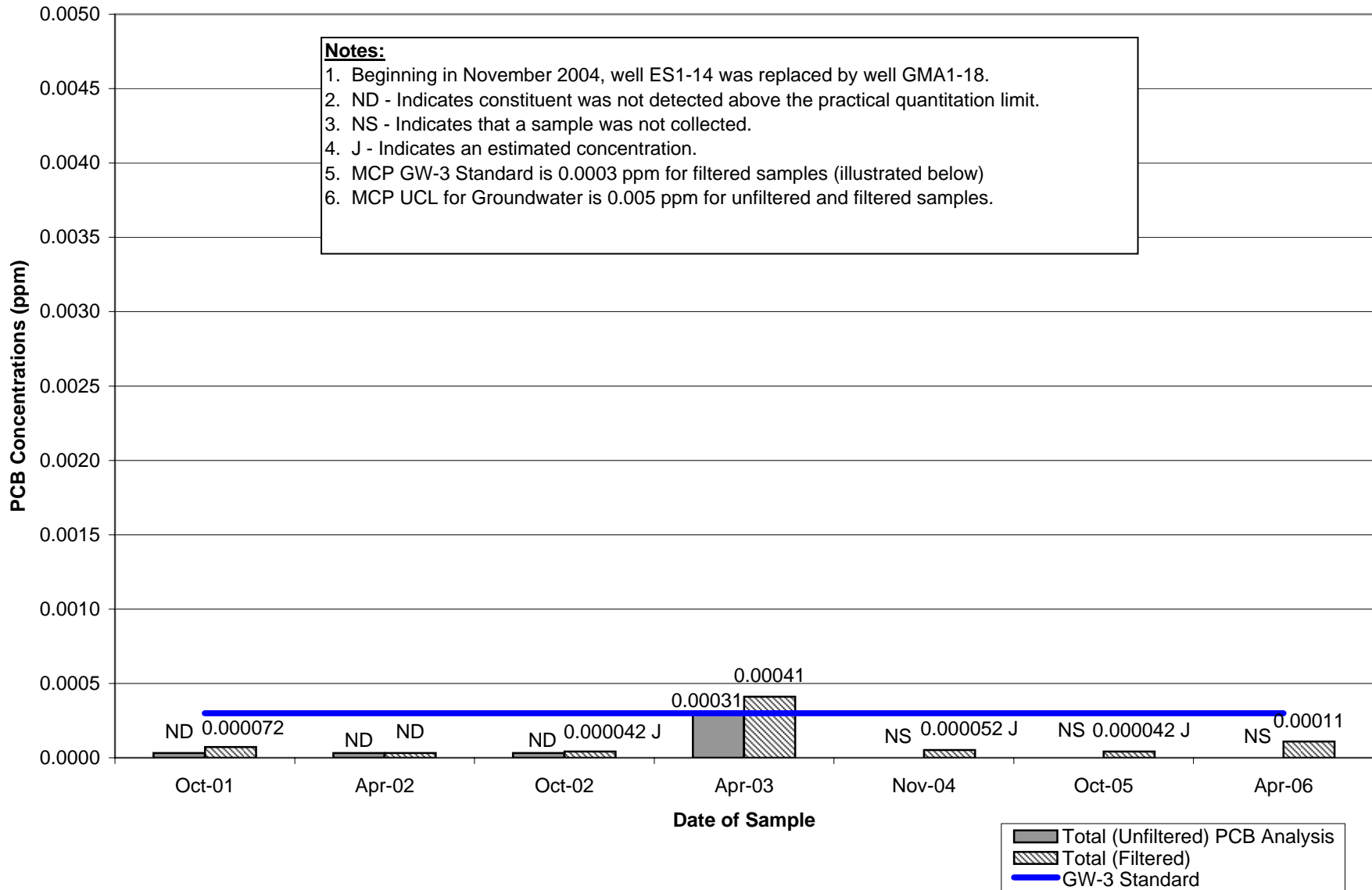
Well LS-29 Historical PCB Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

Well ES1-14 & GMA1-18 Historical PCB Concentrations



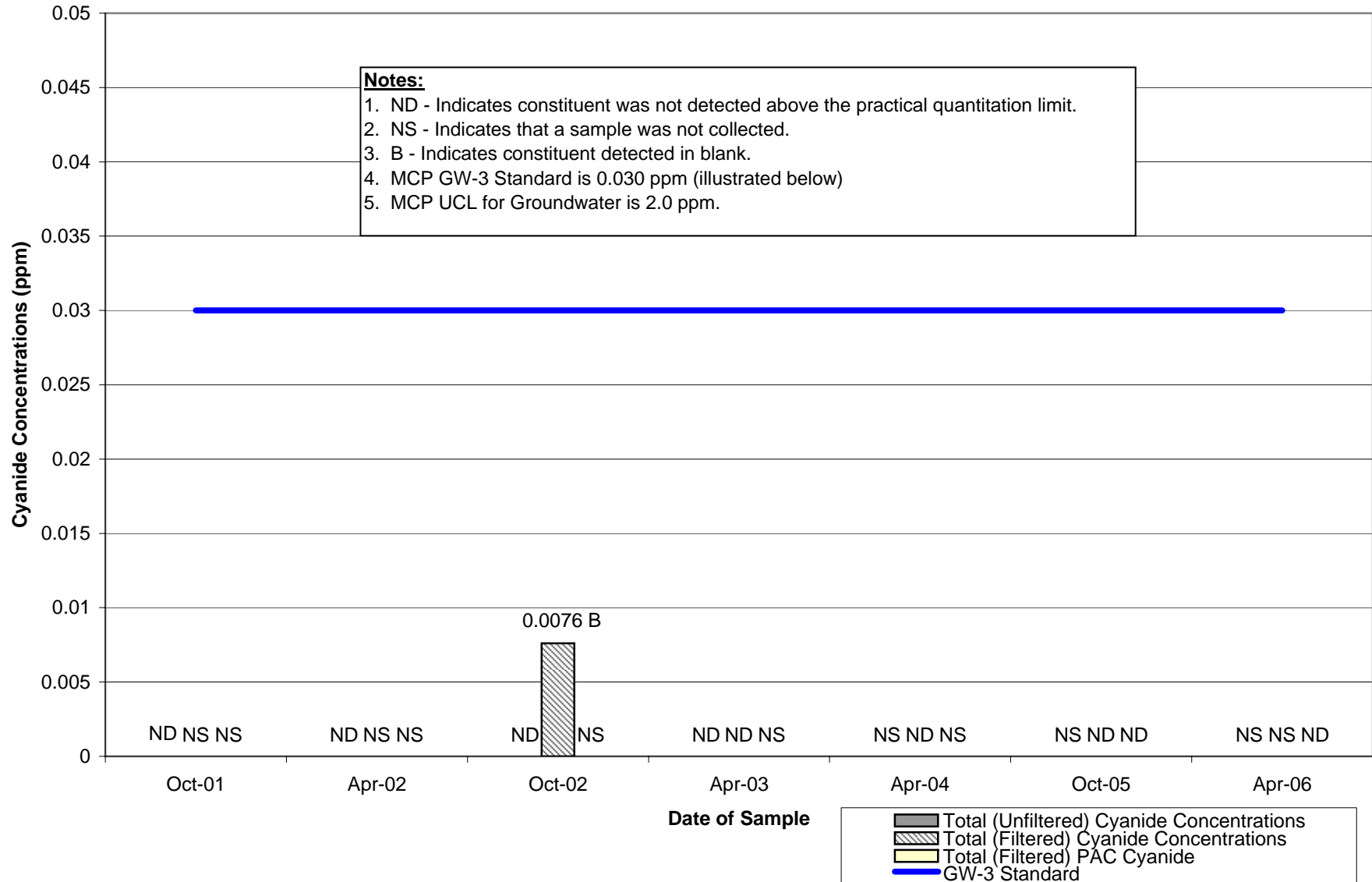
Historical Groundwater Data

Cyanide Concentrations – Wells Sampled in Spring 2006

Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

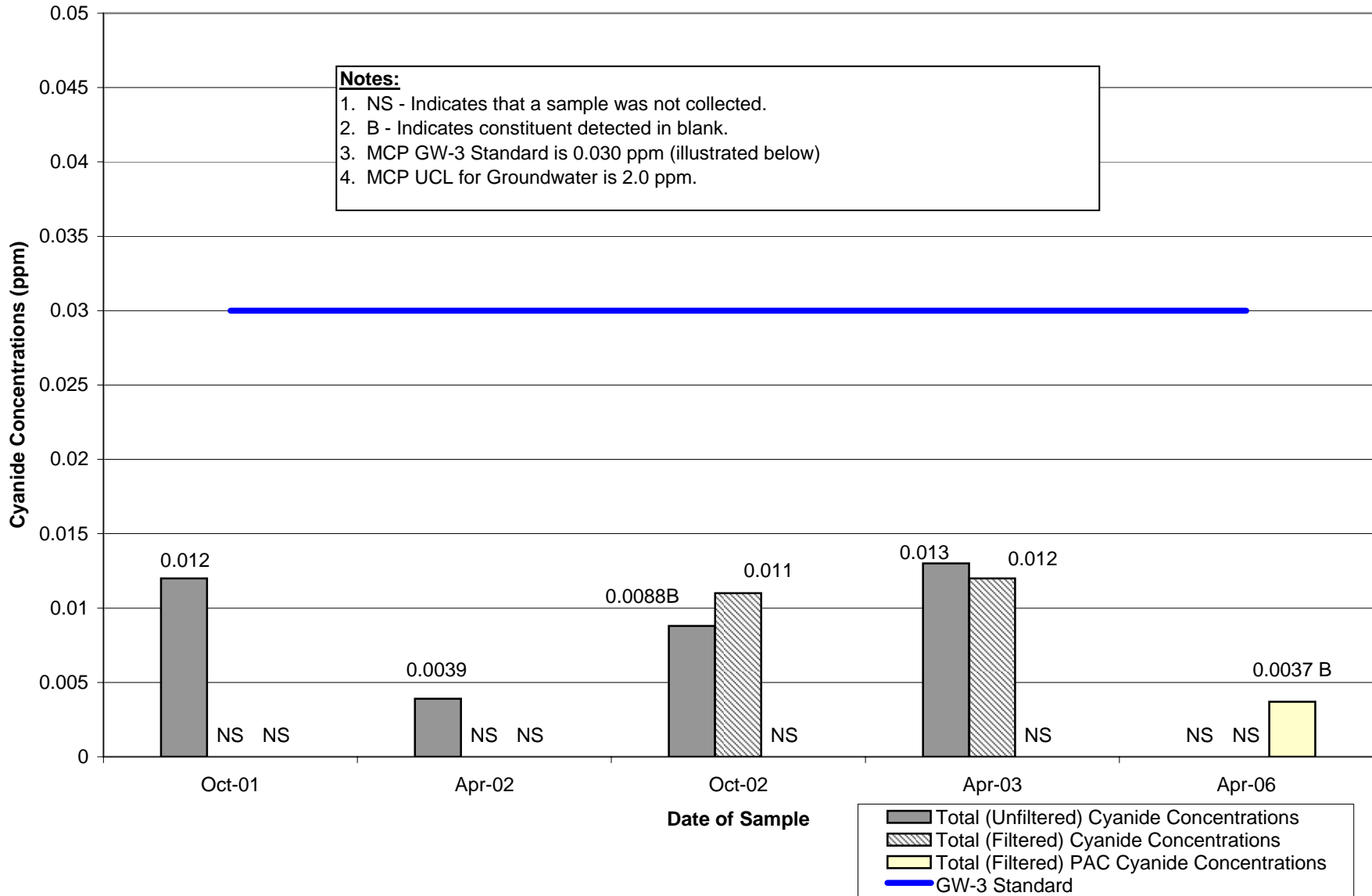
Well RF-16 Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

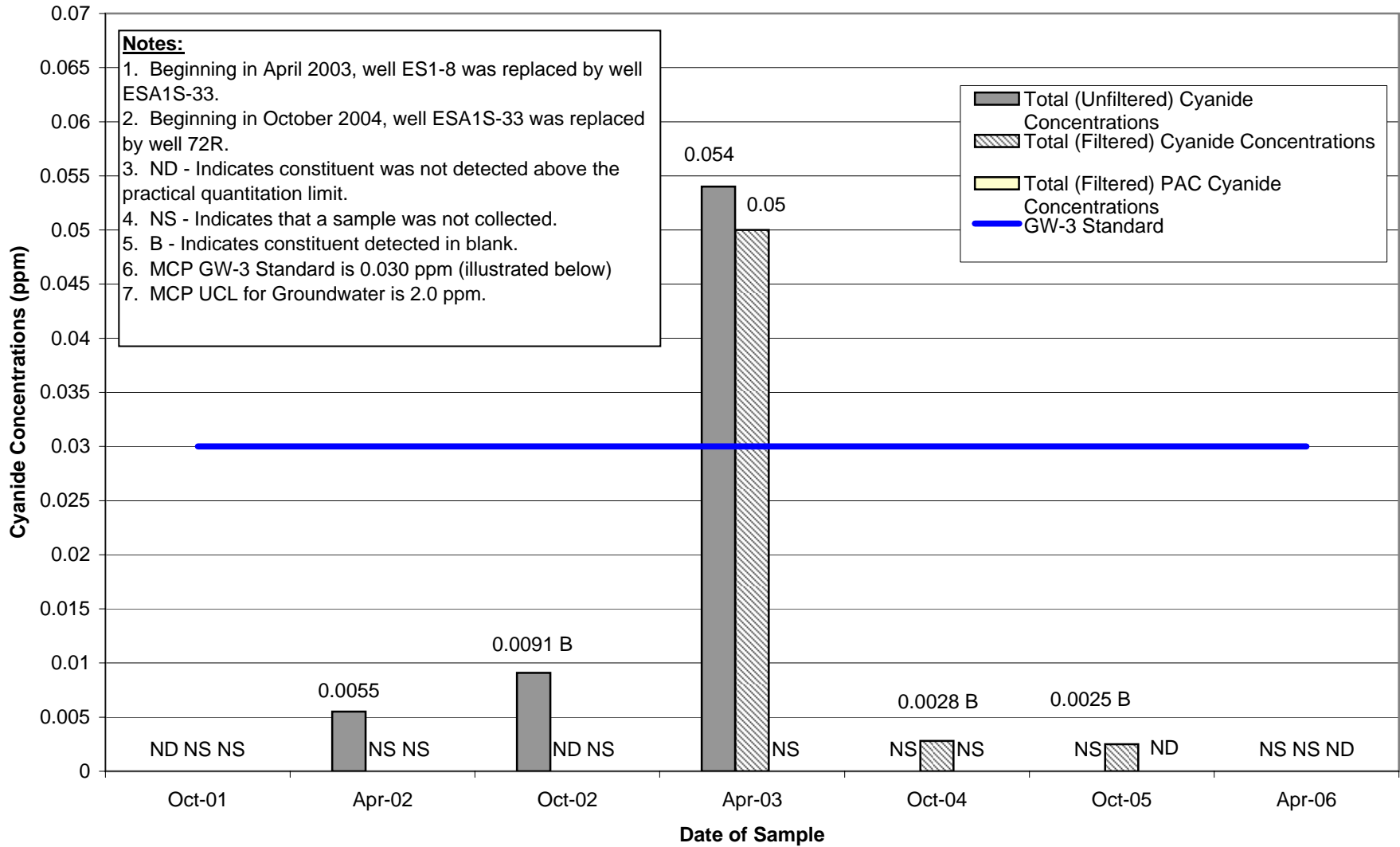
Well ESA2S-64 Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

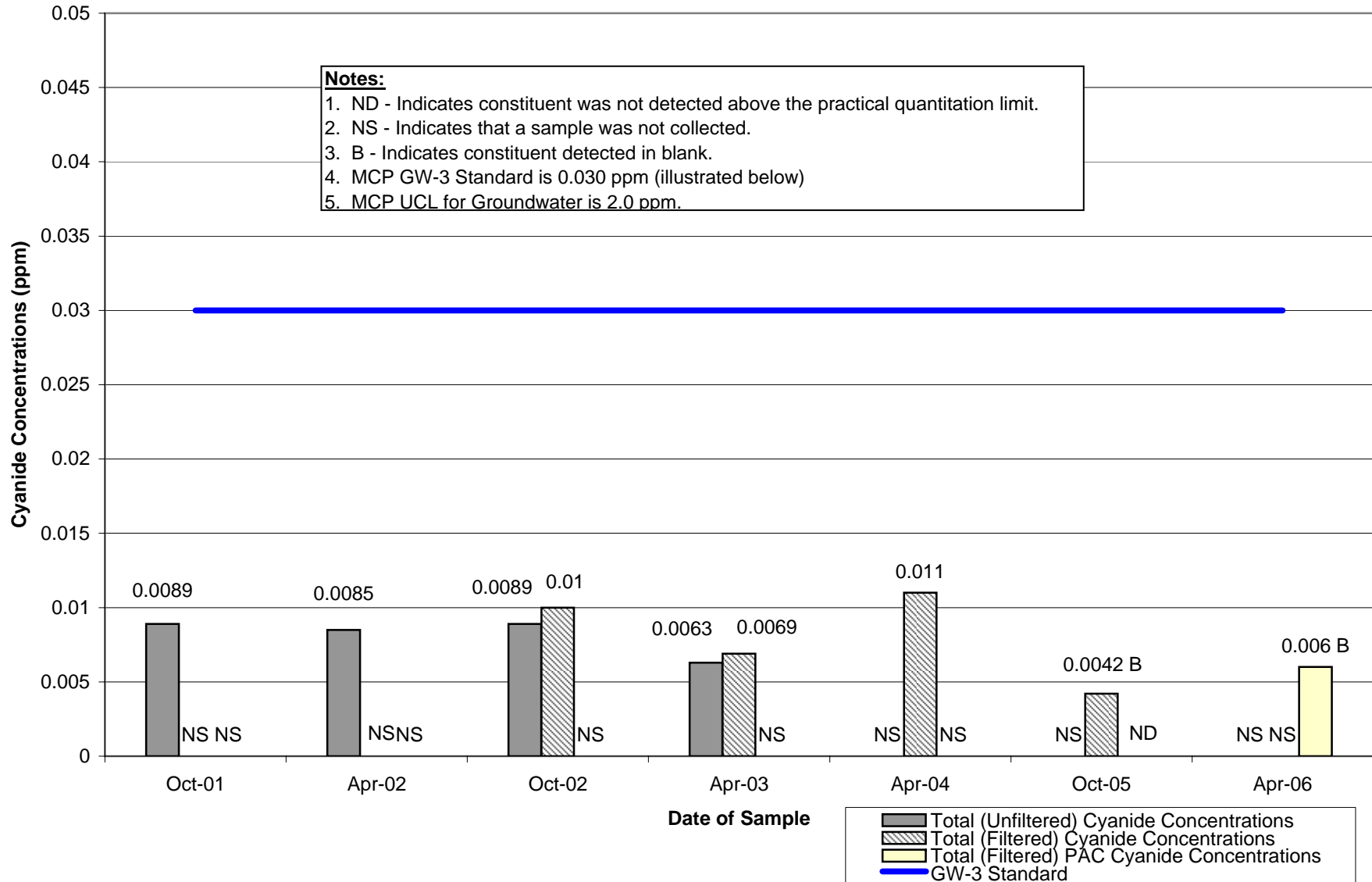
Well ES1-8, ESA1S-33, & 72R Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

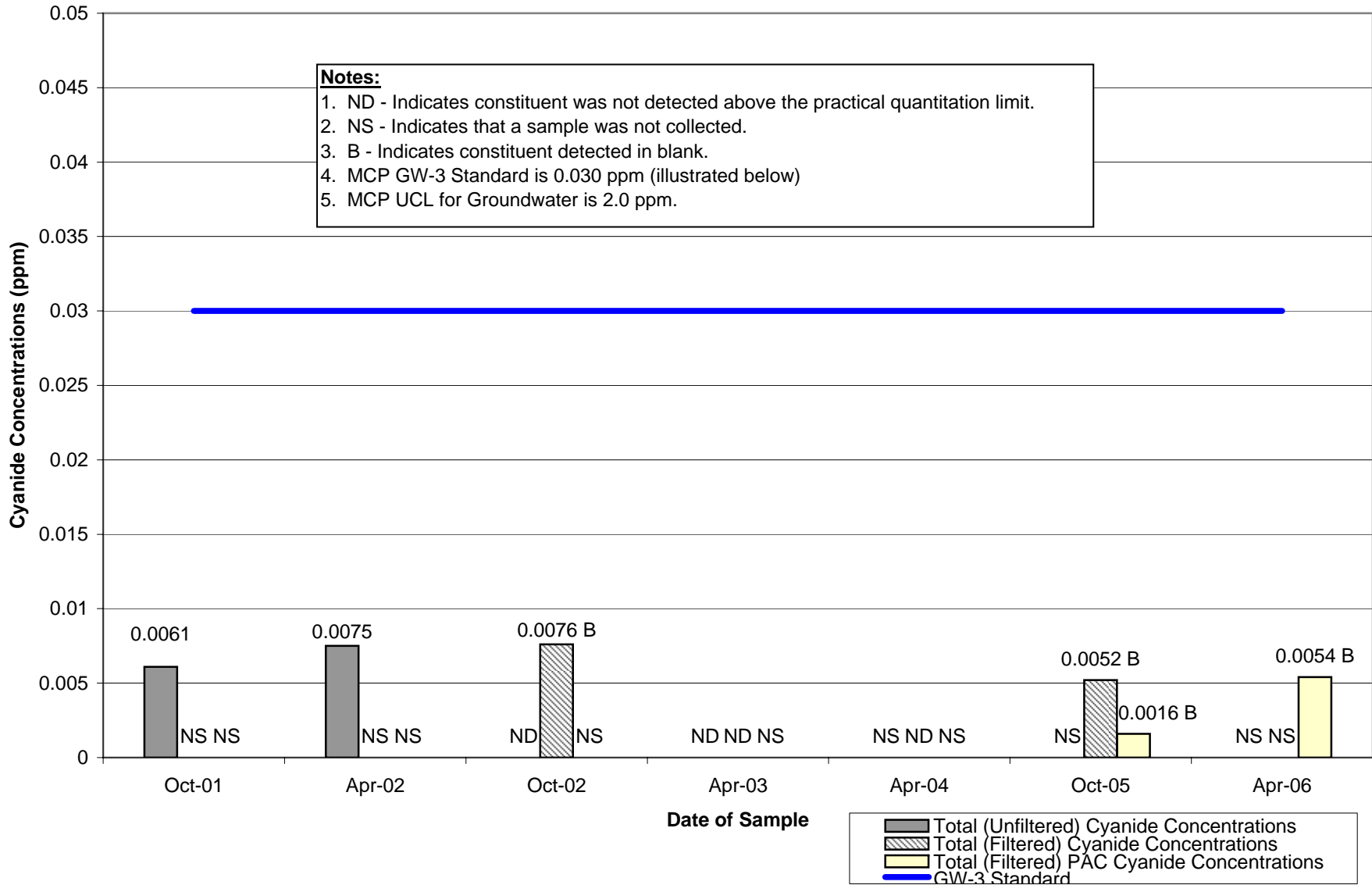
Well HR-G1-MW-3 Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

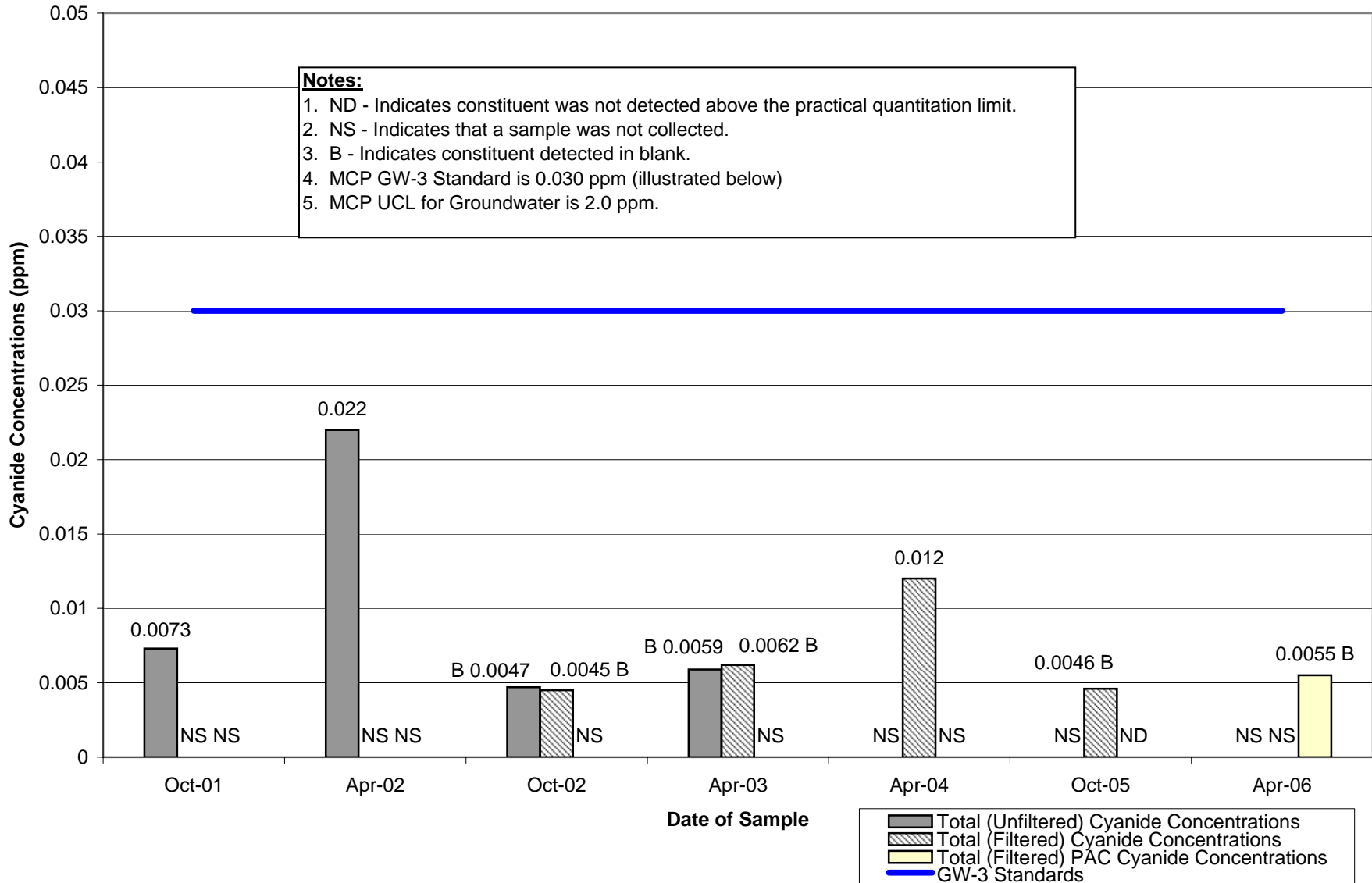
Well ES2-2A Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

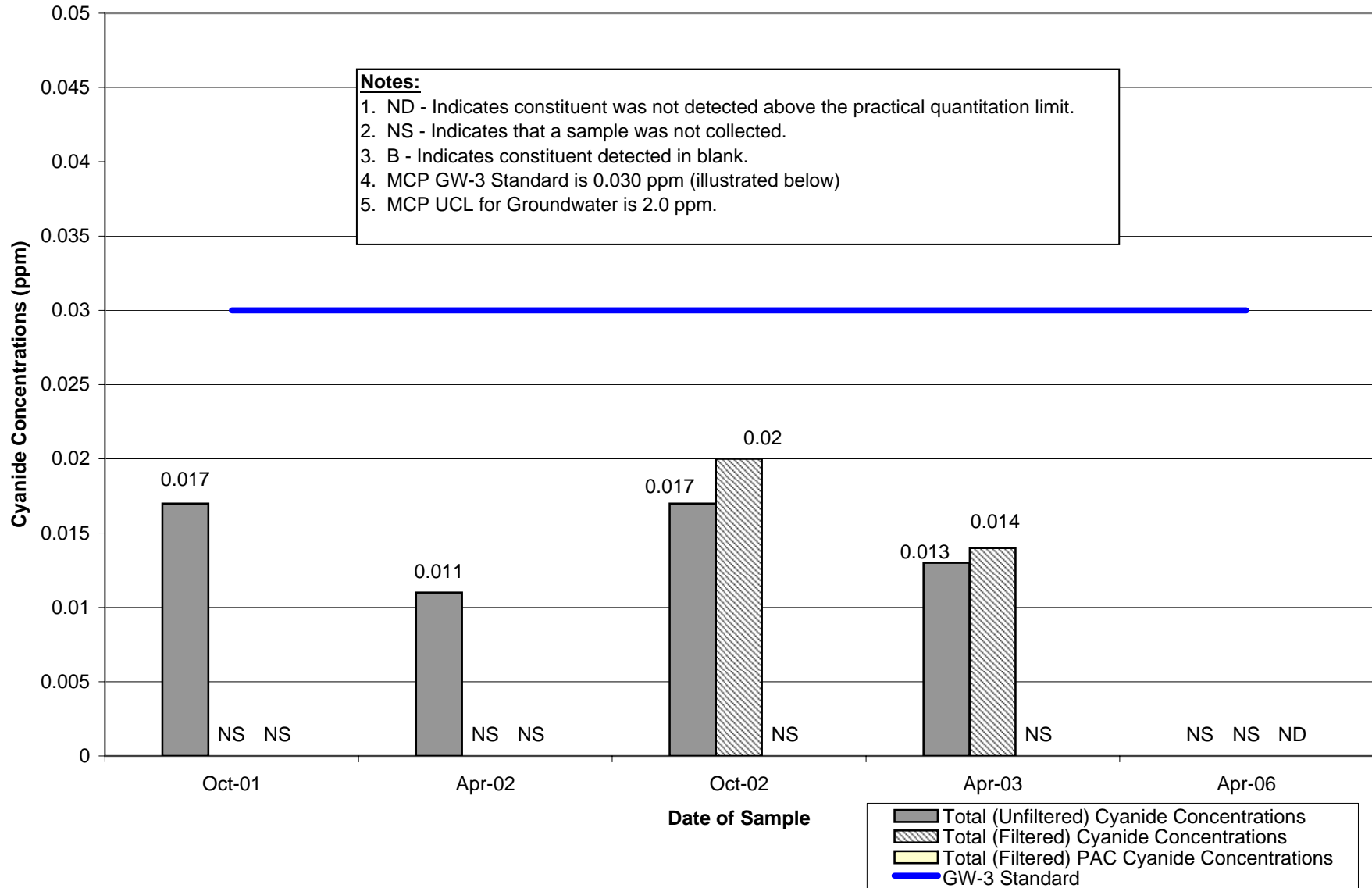
Well ESA2S-52 Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

Well E2SC-24 Unfiltered and Filtered Total and Physiologically Available Cyanide Concentrations



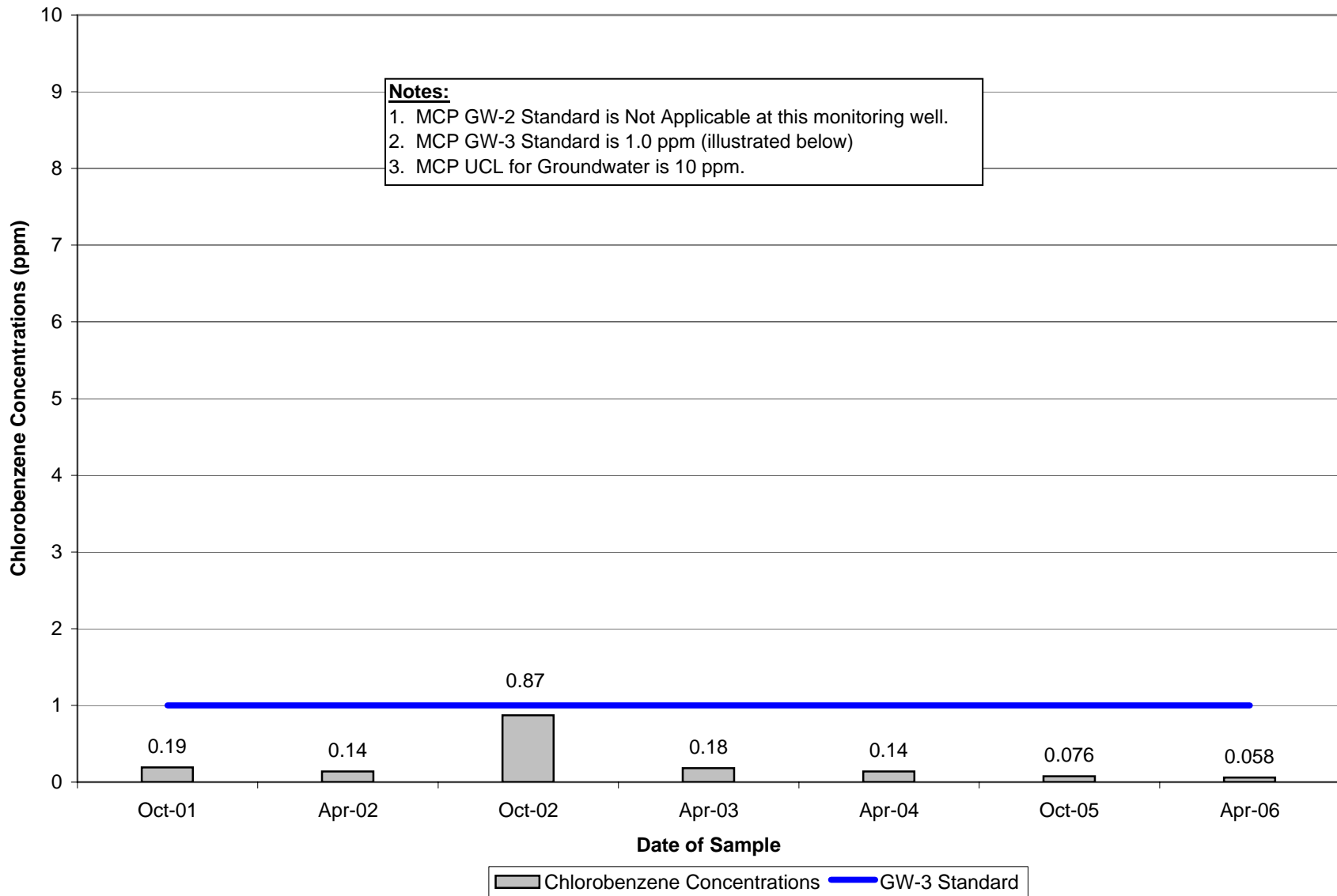
Historical Groundwater Data

Chlorobenzene Concentrations – Selected Wells

Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

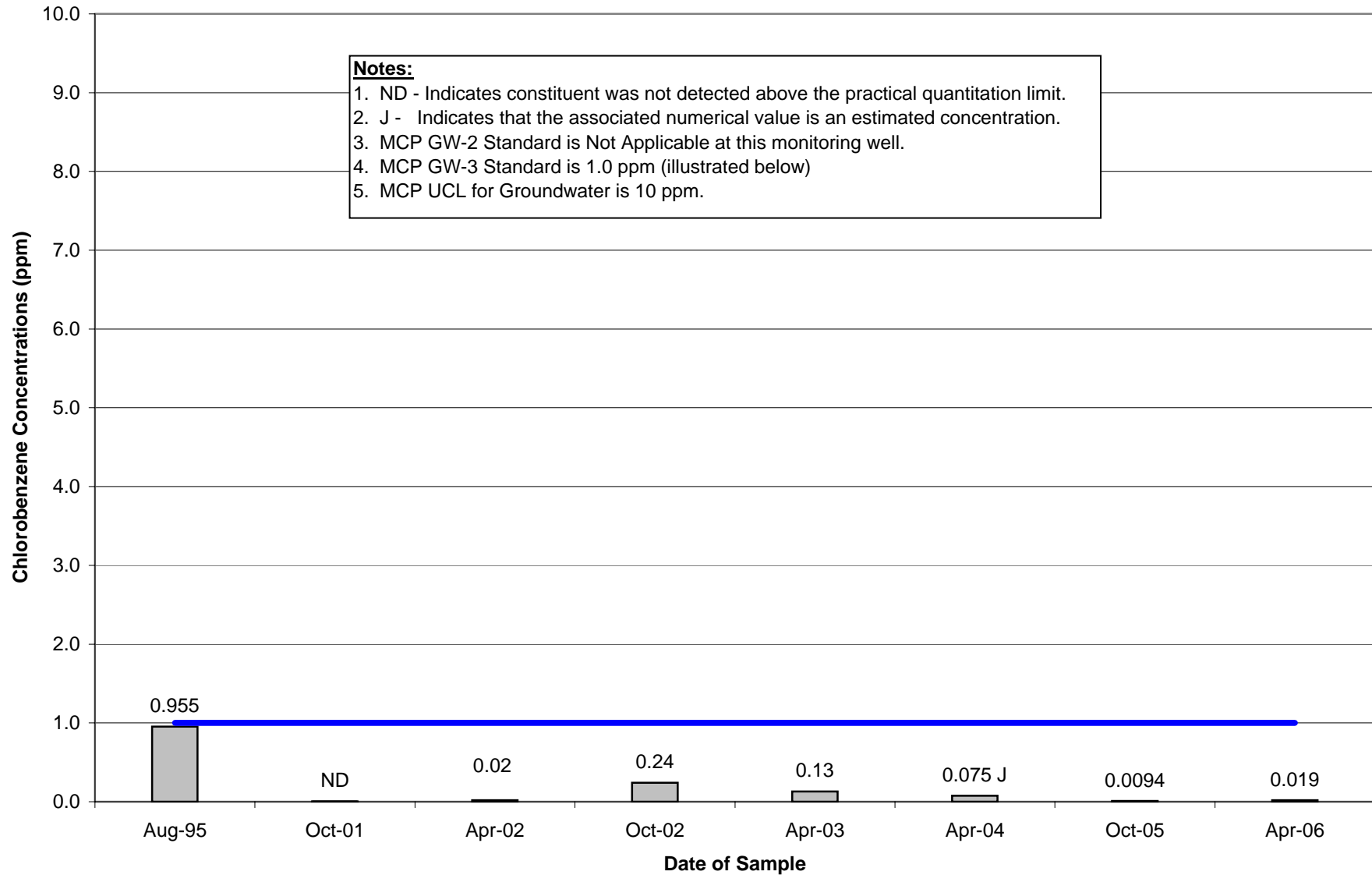
Well N2SC-07S Chlorobenzene Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

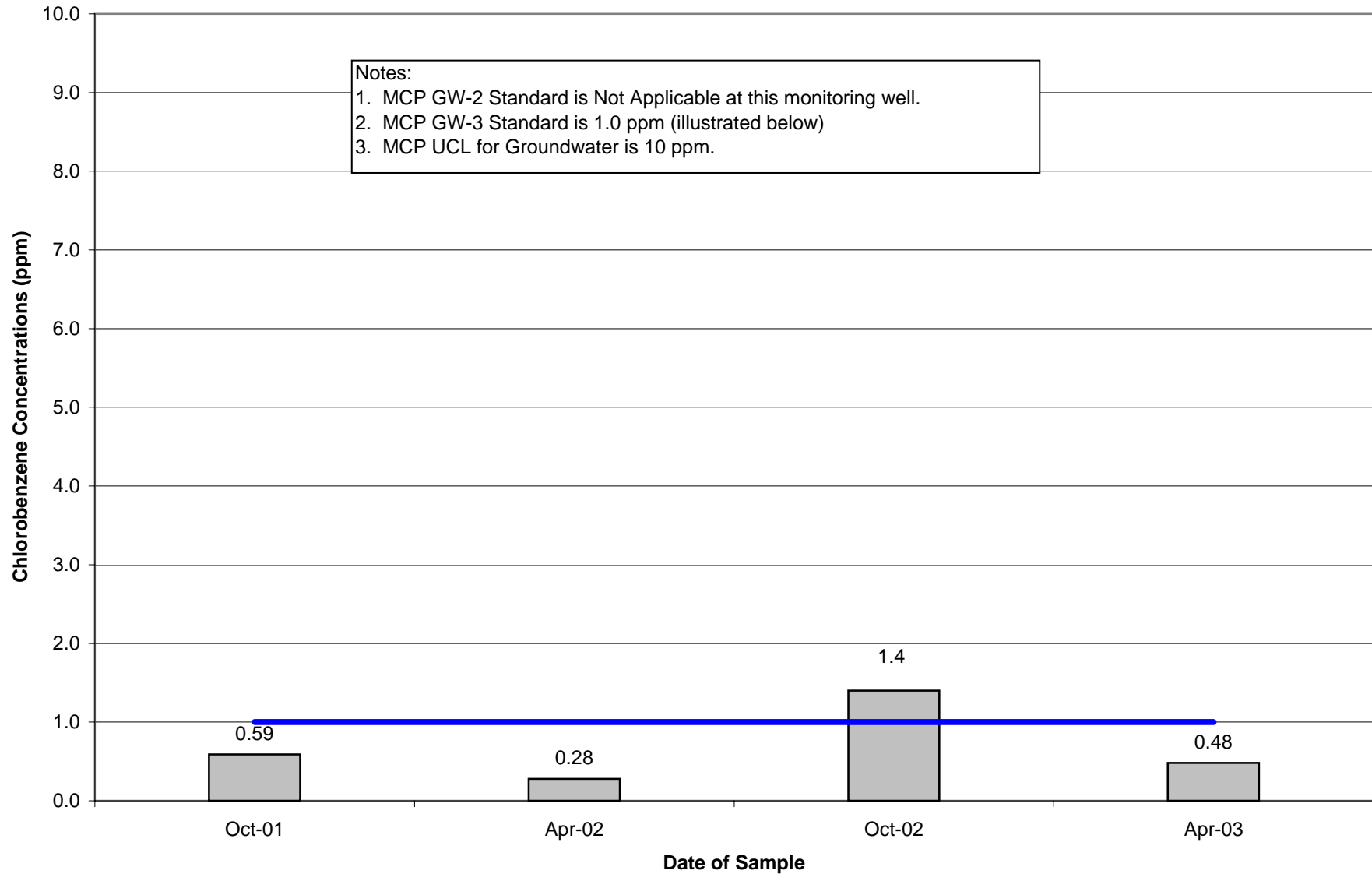
Well NS-17 Chlorobenzene Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

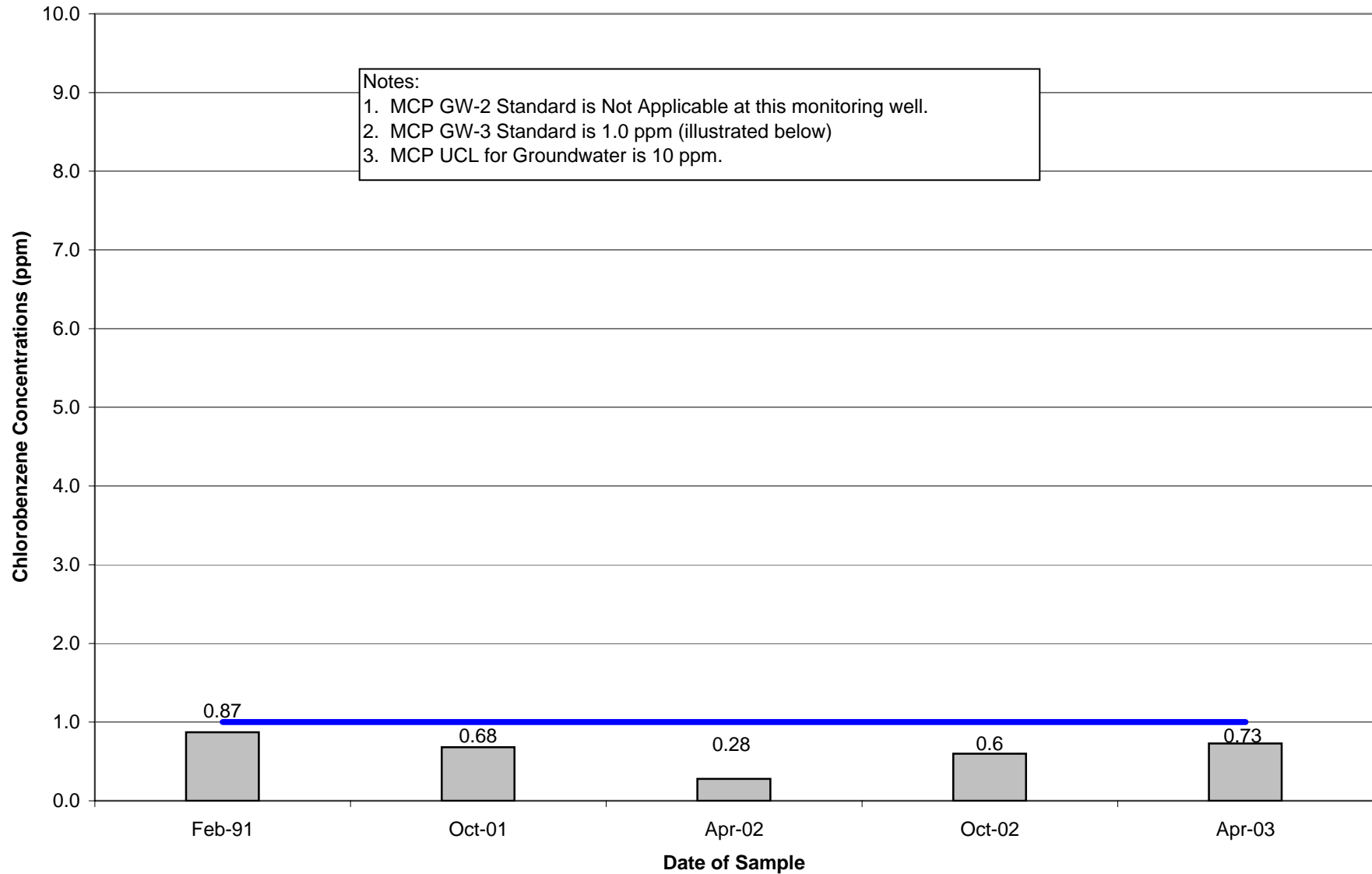
Well 3-6C-EB-14 Chlorobenzene Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

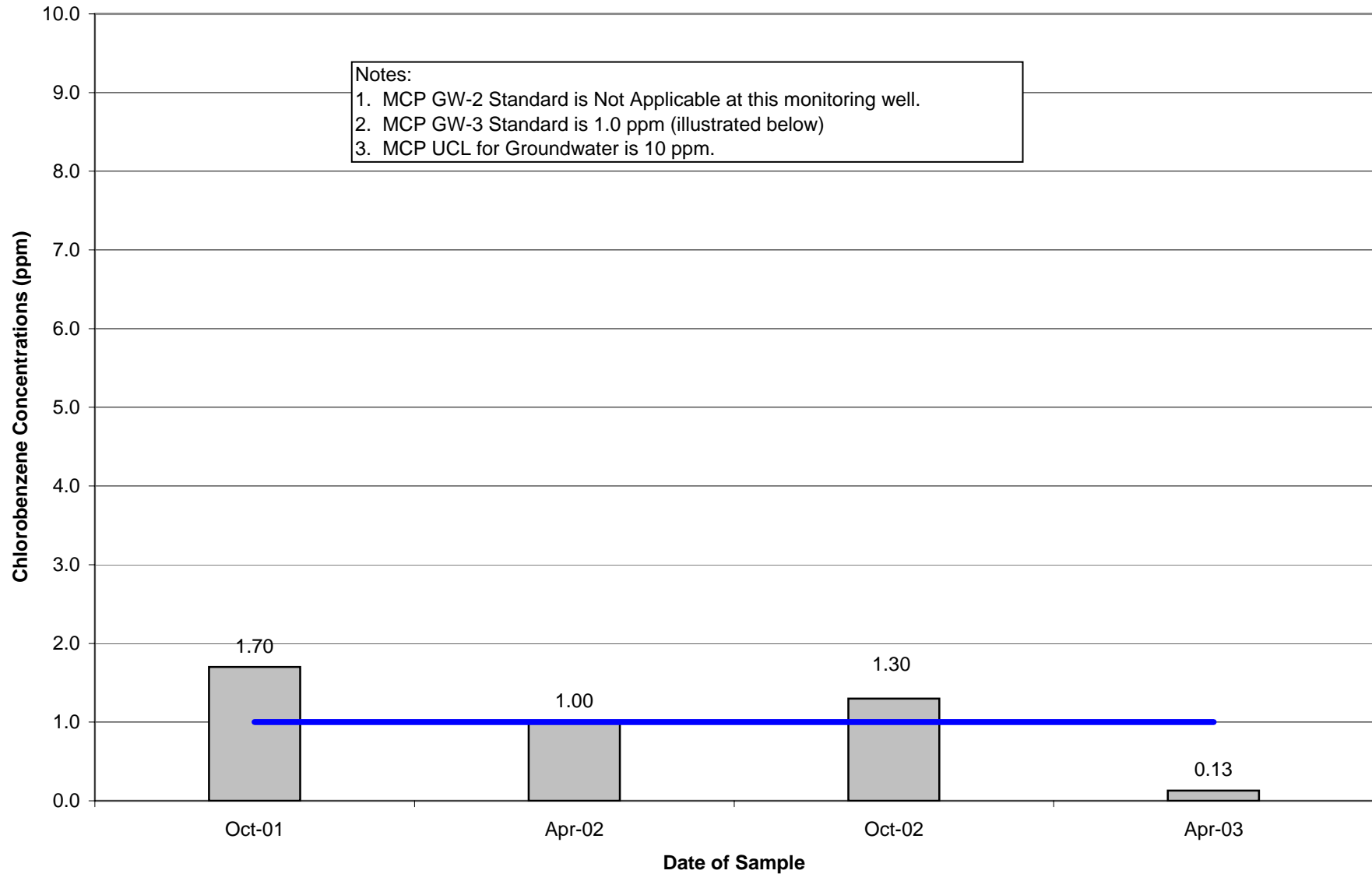
Well ESA2S-64 Chlorobenzene Concentrations



Appendix C

Groundwater Management Area 1 General Electric Company Pittsfield, Massachusetts

Well ES2-2A Chlorobenzene Concentrations



Appendix D

Data Validation Report

APPENDIX D
GROUNDWATER SAMPLING DATA VALIDATION REPORT
GROUNDWATER MANAGEMENT AREA 1 (GMA 1)

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

1.0 General

This appendix summarizes the Tier I and Tier II data reviews performed for groundwater samples collected during Remedial Investigation activities at Groundwater Management Area 1 (GMA 1) located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus one additional constituent -- 2-chloroethyl vinyl ether (hereafter referred to as Appendix IX+1) by SGS Environmental Services, Inc. (formerly CT&E) of Charleston, West Virginia. Data validation was performed for 18 polychlorinated biphenyl (PCB) samples, ten volatile organic compound (VOC) samples, and nine cyanide/sulfide samples.

2.0 Data Evaluation Procedures

This appendix 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. (BBL; FSP/QAPP, approved May 25, 2004 and resubmitted June 15, 2004);
- *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); and
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996).

A tabulated summary of the Tier I and Tier II data evaluations 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 were used in this data evaluation.

- J The compound 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 is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).

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

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. In the event 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, all of the laboratory sample delivery group packages were randomly chosen to be subjected to Tier II review. A Tier II review was also performed to resolve data usability limitations 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. 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. A tabulated summary of the samples subjected to Tier I and Tier II data evaluations is presented in the following table.

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

Parameter	Tier I Only			Tier I & Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	0	0	0	17	1	1	19
VOCs	0	0	0	6	1	3	10
Cyanides	0	0	0	7	1	1	9
Total	0	0	0	30	3	5	38

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 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

The continuing calibration criterion for organic analyses requires that the continuing calibration RRF have a value greater than 0.05. Sample data for detect and non-detect compounds with RRF values less than 0.05 were qualified as estimated (J). The compound that did not meet the continuing calibration criterion and the number of samples qualified are presented in the following table.

Compound Qualified Due to Continuing Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	10	J
	Acetonitrile	10	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument response factors (RFs) 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-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs be less than 25%. Sample data for detect and non-detect compounds with %D values that exceeded the continuing calibration criteria were qualified as estimated (J). A summary of the compounds that exceeded the continuing calibration criterion and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Bromomethane	4	J
	Carbon Tetrachloride	6	J
	Dichlorodifluoromethane	10	J
	Ethyl Methacrylate	4	J
	Trichlorofluoromethane	10	J

Blank action levels for organic compounds detected in the associated blanks were calculated at five times the blank concentrations (blank action levels were calculated at 10 times the blank concentration for common laboratory contaminants). Detected sample results that were below the blank action level were qualified with a "U." The compounds detected in the associated blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	Aroclor-1254	4	U
	Total PCBs	4	U

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. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analysis. 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 in the following table.

Data Usability		
Parameter	Percent Usability	Rejected Data
Cyanides	100	None
VOCs	100	None
PCBs	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, and MS/MSD samples. None of the data required qualification due to laboratory duplicates RPD, MS/MSD RPD, or field duplicates RPD deviations.

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, CRDL samples, and surrogate compound recoveries. For this analytical program, 7.6% of the data required qualification due to calibration deviations. None of the data required qualification due to internal standards recovery deviations, LCS recovery deviations, MS/MSD recovery deviations, CRDL samples recovery deviations or surrogate compound standard recovery deviations.

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 MDEP-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 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. None of the data required qualification for 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-846¹ 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 (e.g., sample extraction/preparation, instrument calibration, QA/QC procedures). 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. 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. This analytical data set had an overall usability of 100%.

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

TABLE D - 1
ANALYTICAL DATA VALIDATION SUMMARY

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
6D0P033	ES1-27R (Filtered)	4/3/2006	Water	Tier II	No						
6D0P033	ES1-5 (Filtered)	4/3/2006	Water	Tier II	No						
6D0P033	GMA1-13 (Filtered)	4/3/2006	Water	Tier II	No						
6D0P033	72R (Filtered)	4/4/2006	Water	Tier II	No						
6D0P033	E2SC-23 (Filtered)	4/4/2006	Water	Tier II	No						
6D0P033	GMA-DUP-1 (Filtered)	4/4/2006	Water	Tier II	No						72R (Filtered)
6D0P033	GMA1-6 (Filtered)	4/4/2006	Water	Tier II	No						
6D0P063	E2SC-24 (Filtered)	4/5/2006	Water	Tier II	No						
6D0P063	ESA1N-52 (Filtered)	4/5/2006	Water	Tier II	No						
6D0P063	GMA1-18 (Filtered)	4/5/2006	Water	Tier II	No						
6D0P063	LS-29 (Filtered)	4/5/2006	Water	Tier II	No						
6D0P063	LSSC-08S (Filtered)	4/5/2006	Water	Tier II	No						
6D0P068	GMA-1-RB-1 (Filtered)	4/6/2006	Water	Tier II	No						
6D0P068	HR-G3-MW-1 (Filtered)	4/6/2006	Water	Tier II	Yes	Aroclor-1254	Rinse Blank	-	-	ND(0.00046)	
						Total PCBs	Rinse Blank	-	-	0.00042	
6D0P068	RF-02 (Filtered)	4/6/2006	Water	Tier II	Yes	Aroclor-1254	Rinse Blank	-	-	ND(0.000089)	
						Total PCBs	Rinse Blank	-	-	ND(0.000089)	
6D0P068	LS-MW-4R (Filtered)	4/7/2006	Water	Tier II	Yes	Aroclor-1254	Rinse Blank	-	-	ND(0.000065)	
						Total PCBs	Rinse Blank	-	-	ND(0.000065)	
6D0P068	LSSC-18 (Filtered)	4/7/2006	Water	Tier II	No						
6D0P068	N2SC-07S (Filtered)	4/7/2006	Water	Tier II	Yes	Aroclor-1254	Rinse Blank	-	-	ND(0.000084)	
						Total PCBs	Rinse Blank	-	-	ND(0.000084)	
6D0P131	MW-139R (Filtered)	4/14/2006	Water	Tier II	No						
VOCs											
6D0P033	72R	4/4/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	28.8%	<25%	ND(0.0020) J	
						Dichlorodifluoromethane	CCAL %D	72.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	25.2%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	34.4%	<25%	ND(0.0050) J	
6D0P033	GMA-DUP-1	4/4/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	72R
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	28.8%	<25%	ND(0.0020) J	
						Dichlorodifluoromethane	CCAL %D	72.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	25.2%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	34.4%	<25%	ND(0.0050) J	
6D0P033	GMA1-6	4/4/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	28.8%	<25%	ND(0.0020) J	
						Dichlorodifluoromethane	CCAL %D	72.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	25.2%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	34.4%	<25%	ND(0.0050) J	
6D0P033	TRIP BLANK	4/4/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	28.8%	<25%	ND(0.0020) J	
						Dichlorodifluoromethane	CCAL %D	72.4%	<25%	ND(0.0050) J	
						Ethyl Methacrylate	CCAL %D	25.2%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	34.4%	<25%	ND(0.0050) J	
6D0P068	GMA-1-RB-1	4/6/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	
6D0P068	LSSC-16S	4/6/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	

TABLE D - 1
ANALYTICAL DATA VALIDATION SUMMARY

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA
GROUNDWATER QUALITY MONITORING INTERIM REPORT FOR SPRING 2006
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
6D0P068	LS-MW-4R	4/7/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	
6D0P068	N2SC-07S	4/7/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	
6D0P068	NS-17	4/7/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	
6D0P068	TRIP BLANK	4/7/2006	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.003	>0.05	ND(0.20) J	
						Acetonitrile	CCAL RRF	0.033	>0.05	ND(0.10) J	
						Carbon Tetrachloride	CCAL %D	36.4%	<25%	ND(0.0050) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	41.6%	<25%	ND(0.0050) J	
Cyanides											
6D0P033	72R (Filtered)	4/4/2006	Water	Tier II	No						
6D0P033	ESA2S-52 (Filtered)	4/4/2006	Water	Tier II	No						
6D0P033	ESA2S-64 (Filtered)	4/4/2006	Water	Tier II	No						
6D0P033	GMA-DUP-1 (Filtered)	4/4/2006	Water	Tier II	No						72R (Filtered)
6D0P063	E2SC-24 (Filtered)	4/5/2006	Water	Tier II	No						
6D0P063	ES2-02A (Filtered)	4/5/2006	Water	Tier II	No						
6D0P068	GMA-1-RB-1 (Filtered)	4/6/2006	Water	Tier II	No						
6D0P068	HR-G1-MW-3 (Filtered)	4/6/2006	Water	Tier II	No						
6D0P068	RF-16 (Filtered)	4/6/2006	Water	Tier II	No						