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Transmitted Via Overnight Courier

February 27, 2009

Mr. Richard Fisher
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 4 (GECD340)
Groundwater Quality Monitoring Interim Report for Fall 2008

Dear Mr. Fisher:

Enclosed is the *Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Fall 2008.* This report summarizes activities performed at Groundwater Management Area (GMA) 4 (also known as the Plant Site 3 GMA) during fall 2008, and presents the results of the latest round of sampling and analysis of groundwater performed as part of the interim monitoring program for GMA 4. These activities also include sampling performed in conjunction with GE's operation of two On-Plant Consolidation Areas within GMA 4, as well as select sampling conducted by Pittsfield Generating Company, L.P. in association with its existing permitted program. Upgradient groundwater elevation data collected by EPA at the adjacent Allendale School property in fall 2008 are also summarized in this report.

Please contact me if you have any questions regarding this report.

Sincerely,

Richard W Gates/ash for

Richard W. Gates
Remediation Project Manager

Enclosure
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Groundwater Management Area 4
Groundwater Quality Monitoring
Interim Report for Fall 2008

February 2009

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Groundwater Management Area 4 – Groundwater Quality Monitoring Interim Report for Fall 2008

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Appendices

1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), 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 3 Groundwater Management Area, also known as and referred to herein as GMA 4.

On July 23, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 3 Groundwater Management Area* (GMA 4 Baseline Monitoring Proposal). The GMA 4 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 4 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 4 Baseline Monitoring Proposal by letter of December 28, 2001. Thereafter, certain modifications were made to the GMA 4 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 the spring of 2002, consisted of four semi-annual groundwater quality sampling events followed by the 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 4, titled *Groundwater Management Area 4 Baseline Groundwater Quality Interim Report for Fall 2003* (Fall 2003 GMA 4 Groundwater Quality Report), was submitted to EPA on February 27, 2004. 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 within 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. The approved GMA 4 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. The Fall 2003 GMA 4 Groundwater Quality Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 4 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the GMA 4 RAAs are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Fall 2003 GMA 4 Groundwater Quality Report by letter dated May 19, 2004. Under the approved interim monitoring program, semi-annual or annual water quality sampling (alternating between the spring and fall seasons) and periodic water level monitoring at selected GMA 4 wells was initiated in spring 2004.

As part of the interim 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. This *Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Fall 2008* (Fall 2008 Groundwater Quality Report) presents the results of groundwater sampling activities performed at GMA 4 during October 2008, as well as other groundwater-related activities performed at this GMA between July and December 2008.

1.2 Background Information

GMA 4 is located within the mid-eastern portion of the GE Plant Area and encompasses the Hill 78 and Building 71 On-Plant Consolidation Areas (OPCAs), the Hill 78-Remainder RAA, and the portion of the Unkamet Brook Area RAA (as defined in the CD and SOW) located to the west of Plastics Avenue. GMA 4 occupies an area of approximately 80 acres, generally bounded by Tyler Street/Tyler Street Extension to the north, Merrill Road to the south, Plastics Avenue to the east, and New York Avenue to the west, as illustrated on Figure 2. The Hill 78 and Building 71 OPCAs are located within the central portion of this GMA, which also contains a generating facility operated by Pittsfield Generating Company, L.P. (PGC) under a lease with GE. Pursuant to the Seventh CD modification entered into as of May 2008, the leased portion of this property will be subject to a new ground lease, but PGC (under new ownership) will remain operator of this facility. The eastern portion of this GMA is mostly paved or covered by Buildings OP-1 and OP-2, which contain operations of General Dynamics Corporation conducted under contract with the U.S. Department of the Navy. (GE continues to own the land beneath those buildings.)

GE has performed several activities to select, design, and utilize the Hill 78 and Building 71 OPCAs within GMA 4. Upon completion, the final cover for the Hill 78 OPCA will encompass an area of approximately 6.0 acres of the northern, central section of the site

along Tyler Street. The Building 71 OPCA lies directly east and adjacent to this area, and the final cover will occupy an area of approximately 4.4 acres. Consolidation activities and the final closure of the Building 71 OPCA were completed in October 2006, while the Hill 78 OPCA continues to be used by GE and EPA for the permanent consolidation of materials (soil, sediment, demolition debris, etc.) removed during response actions and building demolition activities conducted at the GE plant and several other areas around Pittsfield that are included within the GE-Pittsfield/Housatonic River Site. Note that the OPCA boundaries in the attached figures have been updated to reflect the consolidation area boundaries presented in GE's September 18, 2008 *Addendum to Hill 78 Remainder Final RD/RA Work Plan*, conditionally approved by EPA on October 28, 2008. The nature and scope of the required response actions at the Site, including provisions relating to use of the OPCAs, were established in the CD. In connection with the design of the OPCAs, GE developed a groundwater monitoring program consisting of a baseline groundwater investigation, groundwater monitoring during operation of the OPCAs, and future groundwater monitoring during the post-closure period. The primary objectives of the OPCA groundwater monitoring program are to:

- Periodically (on a semi-annual basis) assess groundwater conditions near the OPCAs;
- Compare current conditions with those observed during previous monitoring activities; and
- Identify potential changes in groundwater conditions that may be related to the consolidation activities.

GE performed the initial OPCA-related baseline groundwater investigations between June 14 and 17, 1999, prior to the commencement of consolidation activities. That baseline groundwater investigation originally involved sampling and analysis of 12 monitoring wells (78-1, 78-6, H78B-15, NY-4, and OPCA-MW-1 through OPCA-MW-8) to provide spatial representation on all sides of the OPCAs (i.e., upgradient, downgradient, and cross-gradient). Groundwater samples obtained from these 12 wells were analyzed for PCBs and other constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides) plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3). The analytical results from that baseline investigation, along with the results from groundwater sampling events conducted during the past year under the OPCA monitoring program, are discussed below in Section 4.3.4 of this report.

Following EPA's January 30, 2001 conditional approval of the proposed OPCA groundwater monitoring program, GE initiated the semi-annual groundwater monitoring program (performed in the spring and fall of each year) at the OPCAs. That program included groundwater level measurements, groundwater sampling, and laboratory analyses for the 12 monitoring wells utilized in the OPCA baseline investigation, followed by preparation of a

summary report. Two sampling events were conducted under the OPCA groundwater monitoring program (i.e., spring 2001 and fall 2001) prior to initiation of the overall GMA 4 baseline monitoring program, at which point the OPCA-related groundwater monitoring activities were incorporated into the other groundwater monitoring activities conducted for GMA 4.

As set forth in the GMA 4 Baseline Monitoring Proposal and Addendum, the baseline monitoring program at this GMA initially involved a total of 31 monitoring wells, including supplemental wells H78B-16, and H78B-17R. The supplemental wells were sampled solely for VOCs to assess the presence of trichloroethene (TCE) and other chlorinated compounds along the southern boundary of GMA 4. Subsequent modifications to the program approved by EPA resulted in: the decommissioning of three wells (78-7, H78B-8, and H78B-8R); the replacement of two monitoring wells (GMA4-4 for NY-4, and OPCA-MW-1R for OPCA-MW-1); and the installation and sampling of new wells GMA4-5 (designated as a GW-2 sentinel/compliance well), GMA4-6 (designated as a GW-3 perimeter/OPCA monitoring well), and the decommissioning of wells OPCA-MW-1R and OPCA-MW-2 prior to the re-routing of storm and sanitary sewer lines from beneath the Hill 78 OPCA. Following completion of the re-routing project, these wells were replaced with wells OPCA-MW-1RR and OPCA-MW-2R. The wells included in the GMA 4 baseline monitoring program were monitored for groundwater elevations on a quarterly basis and sampled on a semi-annual basis for analysis of PCBs and/or other Appendix IX+3 constituents. The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well.

Groundwater from deep bedrock wells within GMA 4 is utilized for industrial purposes at the PGC facility. Currently, personnel acting on behalf of PGC collect groundwater samples from an existing bedrock supply well (ASW-5, which serves as its primary source of cooling water) for analysis of PCBs and VOCs, in accordance with an existing permitted program. This well is located near the southwest corner of the steam turbine generator building, as illustrated on Figure 2. GE included the analytical results provided on behalf of PGC for samples collected from well ASW-5 in its OPCA groundwater monitoring program reports and continues to include those results in the GMA 4 interim monitoring program reports. The current PGC analytical results are discussed in Section 3.3 of this report.

As previously reported, wells H76B-16 and H78B-17R are sampled on an annual basis (alternating between spring and fall) and analyzed for VOCs to monitor the potential presence of TCE and other chlorinated compounds at the downgradient edge of GMA 4 (Figure 4). These wells were sampled in spring 2008, and the next scheduled sampling will be conducted in fall 2009. In addition, the surface of a dense glacial till forms a trough-like structure in this area (Figure 5), which acts as a confining layer against vertical migration of TCE and other chlorinated constituents. Based on the location of wells H76B-16 and H78B-17R at the downgradient edge of GMA 4 and within the glacial till trough, it is

anticipated that the source of the TCE and other related chlorinated constituents originated from an upgradient location relative to both groundwater flow and the slope of the till surface. If TCE-containing DNAPL were present, it would tend to migrate vertically downward, based on its density relative to water, until encountering a confining layer, at which point transport would continue along the top of till interface. However, no such DNAPL has been observed in any monitoring wells within GMA 4. As shown on Figure 5, the till trough extends northwest beneath the PGC facility toward the former Hill 78 landfill.

As discussed 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. The baseline monitoring program was initiated at GMA 4 in the spring of 2002, and the fall 2003 sampling event constituted the fourth baseline sampling event at most of the wells in GMA 4. In spring 2006, GE completed the fourth sampling round at the final baseline monitoring location (well UB-MW-5), which had been dry and unable to be sampled during several of the prior baseline sampling events, and thereby completed the required baseline sampling.

In the Fall 2003 GMA 4 Groundwater Quality Report, GE described its proposed interim groundwater quality monitoring program. EPA conditionally approved that report by letter dated May 19, 2004. GE implemented the interim monitoring program during the spring 2004 sampling event and, with certain EPA-approved modifications, has continued that program through the fall 2008 sampling event.

As discussed in Section 5.2, given that the soil-related Removal Actions at the GMA 4 RAAs are now completed, GE is proposing to conclude the interim monitoring program and submit a final baseline monitoring report for GMA 4, including a proposal for a long-term groundwater monitoring quality program, following the spring 2009 sampling event.

As of fall 2008, the interim monitoring program consists of:

- Sampling and analysis of 12 OPCA-related wells on a semi-annual basis.
- Sampling and analysis of two GW-2 wells for PCBs on a semi-annual basis.
- Annual sampling and analysis (alternating between spring and fall seasons) for select constituents at two GMA 4 wells (H78B-16 and H78B-17R) located along the downgradient edge of the GMA, where VOCs were detected in groundwater**.** The most

recent sampling event took place in spring 2008; the next sampling event will take place in fall 2009.

- Monthly, quarterly, or semi-annual groundwater elevation monitoring at the wells referenced in Table 2.

The fall 2008 sampling event was initiated by GE on October 20, 2008 and completed on October 23, 2008. The GMA 4 interim groundwater quality monitoring program activities performed in fall 2008 are summarized in Table 1.

1.3 Format of Document

The remainder of this report is presented in four sections. Section 2 describes the activities performed under the interim monitoring program at GMA 4 in summer and fall 2008. Section 3 presents the analytical results obtained during the fall 2008 groundwater sampling event and the results from PGC's bedrock supply well sampling. 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 fall 2008 activities, including a comparison to those Performance Standards. A comparison of the recent monitoring results to the prior OPCA-related monitoring data is also provided. Section 5 describes proposed program modifications, and Section 6 presents the schedule for future field and reporting activities related to groundwater quality at GMA 4, including a proposal to submit a *Baseline Assessment Final Report and Long-Term Monitoring Program Proposal for Groundwater Management Area 4* (GMA 4 LTMP Proposal).

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 measurement of groundwater levels and the collection and analysis of groundwater samples at select monitoring wells within GMA 4, as described on Tables 1 and 2, and depicted on Figure 2. The construction details of the wells that were monitored and/or sampled at GMA 4 in fall 2008 are provided in Table 3. This section discusses the field procedures used to measure site groundwater levels, check for the presence of NAPL, and collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were conducted in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

2.2 Groundwater Level Measurement and LNAPL Monitoring

Groundwater elevations were measured at the wells shown in Table 2 and all data collected during fall 2008 are summarized in Table A-1 of Appendix A. The summer groundwater elevation monitoring event was performed on July 23, 2008, and the fall 2008 groundwater elevation monitoring event at GMA 4 was conducted on October 29 and 31, 2008. The fall 2008 groundwater elevations were, on average, approximately 1.15 foot higher than the elevations measured during the prior fall monitoring round in 2007 at water table wells measured during both monitoring events. However, as discussed below, groundwater elevations were significantly lower at two monitoring wells installed closest to the two former sewer lines in this area, as compared to the original wells that were monitored while those sewer lines were in use. Table 4 summarizes the groundwater elevation monitoring data for the two monitoring events. The groundwater elevation data shown in that table were subsequently used to prepare groundwater elevation contour maps of the summer 2008 and fall 2008 groundwater monitoring events (Figures 3 and 4).

As directed in EPA's November 14, 2006 conditional approval letter for the *GMA 4 Groundwater Quality Monitoring Interim Report for Spring 2006*, and initiated in fall 2007, GE has continued to include in GMA 4 submittals any EPA-generated groundwater elevation and/or analytical data from EPA-installed monitored piezometers PZ-1, PZ-2, PZ-3, and PZ-4, along with data from existing monitoring well SCH-1 located on or adjacent to the Allendale School property. The locations of these wells and piezometers are shown on Figure 2, and the EPA-generated groundwater elevation data from these locations are shown on Figures 3 and 4. The quarterly monitoring rounds for GMA 4 were coordinated with EPA so that both EPA-monitored and GE-monitored wells were gauged on the same day.

As shown on these figures, the groundwater flow directions are generally consistent with those observed during previous seasonal monitoring events. A comparison of the groundwater contour maps with the top of till contour map (Figure 5) shows that groundwater elevations are generally correlated to changes in the elevation of the glacial till interface. Specifically, groundwater generally flows from north to south, although variations exist corresponding to changes in the topography of the ground surface and/or the glacial till interface, including a prominent groundwater depression extending from northwest to southeast across the western portion of the GMA. Well GMA4-6 is located within this depression along the northern portion of GMA 4.

After the completion of the sewer re-routing project in GMA 4 in spring 2008, wells OPCA-MW-1RR and OPCA-MW-2R were installed as replacements for wells OPCA-MW-1R and OPCA-MW-2. After installation in July 2008, these wells were monitored as part of the GMA 4 monitoring program. The groundwater elevations in both of these wells, particularly in OPCA-MW-1RR, were significantly lower than those measured in the previous year in the wells that were replaced. In July 2008, the groundwater elevations at OPCA-MW-1RR and OPCA-MW-2R were 13.14 feet and 5.62 feet lower, respectively, than those seen in the corresponding wells in July 2007. Similarly, in fall 2008, groundwater elevations at wells OPCA-MW-1RR and OPCA-MW-2R were 12.2 feet and 4.26 lower, respectively, than the elevations in the corresponding wells in fall 2007. As previously stated, despite the apparent decreases in these particular areas, the overall groundwater elevation in GMA 4 increased in fall 2008 compared to fall 2007, and overall groundwater flow patterns were consistent with prior years. GE will continue to monitor wells OPCA-MW-1RR and OPCA-MW-2R to evaluate groundwater flow conditions in the vicinity of the relocated sewer lines.

The EPA monitoring data from the Allendale School property are consistent with the GE GMA 4 data. Groundwater elevations are highest at the northernmost well adjacent to the school (SCH-1) and decrease from north to south (i.e., groundwater flows from the Allendale School property toward GMA 4). The piezometers located in the southern portion of the Allendale School property each had higher groundwater elevations than the nearest wells on the northern edge of GMA 4, providing further confirmation that GMA 4 is downgradient from the Allendale School property. This is consistent with the groundwater contours presented in the spring 2008 GMA 4 Interim Monitoring Report.

Prior to June 2003, weekly groundwater and LNAPL measurements were collected at well H78B-8R. If present, LNAPL was recovered and properly disposed. In June 2003, well H78B-8R was decommissioned in order to accommodate the expansion of the Hill 78 OPCA. This well (H78B-8R) was the only location within GMA 4 where NAPL had been encountered. Since the removal of well H78B-8R, particular attention has been given to well OPCA-MW-2 (until its decommissioning in October 2007), replacement well OCPA-MW-2R (following installation in July 2008) and well OPCA-MW-3 (located downgradient from former well H78B-8R) when groundwater measurements and samples were obtained.

In addition, well GMA4-3 has been monitored on a monthly basis since April 2005 to assess the extent of LNAPL observed at GMA 3, located to the east of GMA 4. No NAPL has ever been observed at any of these GMA 4 monitoring wells.

The results of all groundwater elevation/NAPL monitoring activities performed during fall 2008 are summarized in Appendix A. As noted above, well measurements indicate that NAPL has not been encountered in any of the GMA 4 wells monitored and/or sampled during fall 2008.

2.3 Groundwater Sampling and Analysis

2.3.1 GMA 4 Sampling

The fall 2008 interim sampling event was performed between October 20 and 23, 2008 at 14 groundwater monitoring wells, which include 12 groundwater monitoring wells associated with the OPCA monitoring program. The pump intake depth and type of pump used during the fall 2008 sampling event are identified on the sampling records contained in Appendix B. Per Condition 1 of EPA's January 27, 2009 approval letter of the Spring 2008 GMA 4 Groundwater Quality Interim Monitoring Report (GMA 4 Spring 2008 Interim Report), GE has also included the river stage of the East Branch of the Housatonic River measured at Coltsville station in Appendix A (Tables A-1 and A-2, respectively).

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. Each monitoring well that was sampled was purged utilizing low-flow sampling techniques until field parameters (including temperature, pH, specific conductivity, turbidity, dissolved oxygen, and, oxidation-reduction potential) stabilized prior to sample collection. Field parameters were measured in combination with the sampling activities at the monitoring wells. The field parameter measurements are presented in Table 5 and the field sampling records are provided in Appendix B.

A general summary of the stabilized field measurement results recorded during the fall 2008 monitoring event is provided below.

Parameter	Units	Range of Stabilized Readings
Temperature	Degrees Celsius	6.59 to 14.56
pH	pH units	6.53 to 7.71
Specific Conductivity	Millisiemens per centimeter	0.538 to 2.241
Turbidity	NTUs	2 to 28
Dissolved Oxygen	Milligrams per liter	0.13 to 8.67
Oxidation-Reduction Potential	Millivolts	-171.50 to 116.20

As shown above and in Table 5 for this sampling event, none of the groundwater samples extracted from the monitoring wells had turbidity levels greater than the target level of 50 NTU upon stabilization. These results indicate that the sampling and measurement procedures utilized during this sampling event were effective in obtaining representative groundwater samples with low turbidity. Also, the range of pH for this sampling event was from 6.53 to 7.71, which is within the range of 5 to 8.5 typically observed in groundwater.

The collected groundwater samples were submitted to SGS Environmental Services, Inc. (SGS) of Wilmington, North Carolina for laboratory analysis. All groundwater samples collected during this sampling event were submitted for analysis of the following constituents using the associated EPA methods:

Constituent	EPA Method
VOCs	8260B
SVOCs	8270C
PCBs (Filtered Samples)	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Metals (Filtered Samples)	6010B, 7000A, and 7470A
Physiologically Available Cyanide (Filtered Samples)	9014/MDEP PAC Protocol
Sulfide	9034

Following receipt of the analytical data on the GE samples 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. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site.

GE's fall 2008 interim groundwater quality sampling data were validated in accordance with the FSP/QAPP. As discussed in the validation report provided in Appendix F, 99.9% of the fall 2008 groundwater quality data are considered to be useable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. The SVOC, PCB, PCDD/PCDF, inorganic, cyanide, and sulfide sample results were found to be 100% usable. VOC sample results were found to be 99.9% usable. The only rejected datum was one VOC sample result from well 78-1, where the 2-chloroethylvinylether result was rejected due to MS/MSD recovery deviations.

2.3.2 Pittsfield Generating Company Sampling

In accordance with PGC's existing permitted program, personnel acting on behalf of PGC currently collect groundwater samples for analysis of VOCs and PCBs from PGC's deep bedrock groundwater extraction well (well ASW-5, screened at approximately 441 to 457 feet below ground surface). This well serves as the primary source of cooling water for the PGC plant. GE has included the analytical results provided on behalf of PGC for samples collected from ASW-5 on December 2, 2008 in this report, as well as a comparison of these data to historical results. A summary of well ASW-5 monitoring results is provided in Table E-1 within Appendix E. These results are discussed in Section 3.3.

3. Fall 2008 Groundwater Analytical Results

3.1 General

A description of the fall 2008 groundwater analytical results is presented in this section. Tables 6 and 7 provide a comparison of the concentrations of detected constituents with the applicable GW-2 and GW-3 groundwater quality Performance Standards established in the CD and SOW (for wells where those respective standards apply), while Table 8 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater (for all wells sampled in fall 2008). Table C-1 in Appendix C provides the complete analytical data set (constituents detected and not detected) for the groundwater samples analyzed during this sampling event. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.2 Groundwater Quality Results

The following subsections provide an overview of the fall 2008 analytical results from the GMA 4 groundwater quality monitoring wells for each constituent group that was analyzed.

3.2.1 VOC Results

A total of 12 groundwater samples were collected and analyzed for VOCs during the fall 2008 sampling event. The VOC analytical results are summarized in Table 8 and Table C-1 (within Appendix C). No VOCs were detected in wells 78-1, 78-6, GMA4-6, OPCA-MW-3, OPCA-MW-6, OPCA-MW-7, or OPCA-MW-8. At the five wells where VOCs were detected, total VOC concentrations ranged from an estimated concentration of 0.00021 ppm (at well H78B-15) to a concentration of 3.6 ppm (at well OPCA-MW-1RR). A total of six individual VOCs were detected in one or more wells. Chlorobenzene, and tetrachloroethene (PCE) were the most frequently detected VOCs (detected in two wells each). Chlorobenzene was detected in wells OPCA-MW-5R and OPCA-MW-4 in estimated concentrations of 0.00011 ppm and 0.00017 ppm, respectively. Tetrachloroethene was detected at concentrations of 0.00030 ppm (well OPCA-MW-2R) and 3.6 ppm (well OPCA-MW-1RR). 1,1,1-Trichloroethane (estimated concentration of 0.00013 ppm at well OPCA-MW-2R), chloroform (estimated concentration of 0.00021 ppm at well H78B-15), methylene chloride (estimated concentration of 0.00022 ppm at OPCA-MW-5R), and trichloroethene (concentration of 0.0016 ppm at well OPCA-MW-4) were also detected during the fall 2008 sampling round.

3.2.2 SVOC Results

A total of 12 groundwater samples were collected and analyzed for SVOCs during the fall 2008 sampling event. The SVOC analytical results are summarized in Table 8 and Table

C-1 (within Appendix C). Bis(2-ethylhexyl)phthalate, a common laboratory contaminant, was detected in three wells (GMA 4-6, H78B-15, and OPCA-MW-8) at estimated concentrations of 0.00072 to 0.001 ppm, respectively). No SVOCs were detected in any of the remaining wells analyzed for this constituent group in fall 2008.

3.2.3 PCB Results

Filtered groundwater samples from fourteen wells were analyzed for PCBs as part of the fall 2008 sampling event. The PCB analytical results are summarized in Table 8 and Table C-1 (within Appendix C). No PCBs were detected in any monitoring wells during the fall 2008 sampling round.

3.2.4 PCDD/PCDF Results

Groundwater samples collected from 12 monitoring wells were analyzed for PCDDs/PCDFs during the fall 2008 sampling event. The analytical results summarized in Table 8 and Table C-1 (within Appendix C) show that individual PCDD/PCDF compounds were detected in six monitoring wells. In addition, total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half of the analytical detection limit for those compounds, thus allowing TEQs to be developed for all wells, including the six wells where no PCDD/PCDF compounds were detected. Total TEQ concentrations ranged from 0.72×10^{-8} ppm (at wells 78-6 and H78B-15) to 1×10^{-8} ppm (at well OPCA-MW-4).

3.2.5 Inorganic Constituent Results

Filtered groundwater samples were obtained from 12 monitoring wells for analysis of metals and physiologically available cyanide during the fall 2008 sampling event. Unfiltered samples from the 12 wells were also analyzed for sulfide. The analytical results for these inorganic constituents are summarized in Table 8 and Table C-1 (within Appendix C). A total of nine inorganics were detected in the filtered samples and each location contained at least one inorganic constituent in its filtered samples. Barium was the most frequently detected inorganic (detected in nine wells), followed by lead (detected in 8 wells), and cadmium (detected in five wells). Other inorganics were detected in three or fewer wells. Sulfide was detected in seven unfiltered samples, at concentrations ranging from an estimated concentration of 1.0 ppm (OPCA-MW-7) to 1.40 ppm (at well OPCA-MW-6, though sulfide was not detected in the duplicate at this well).

3.3 Pittsfield Generating Facility Sample Results

The results of the most recent deep bedrock groundwater sampling activities performed on behalf of PGC at industrial supply well ASW-5 (conducted in December 2008), along with data from prior sampling events, are summarized in Table E-1 of Appendix E. No VOCs or PCBs were detected in this well in December 2008.

4. Assessment of Results

4.1 General

This report constitutes the tenth interim groundwater quality monitoring report for GMA 4, and is the sixteenth monitoring report submitted since commencement of the groundwater monitoring program associated with the OPCAs. The information presented herein is based on the laboratory results obtained during the fall 2008 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 4 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 4 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 below ground surface (bgs) of 15 feet or less. Under the MCP, certain constituents present within GW-2 groundwater represent a potential source of vapors to the indoor air of the overlying occupied structures.

- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to ultimately discharge to surface water. In accordance with the CD and SOW, all groundwater at GMA 4 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 4. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the fall 2008 sampling event are listed in Tables 6 and 7, respectively. 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 February 14, 2008 MDEP implemented revised Method 1 numerical standards for a number of constituents in groundwater, and those standards were utilized in the preparation of this report. In addition, in its July 30, 2008 conditional approval letter related to the *Groundwater Management Area 2 Long-Term Monitoring Program Addendum to Monitoring Event Evaluation Report for Fall 2007*, EPA specified that the low-range guidance values developed in that report for cobalt and copper should represent the Method 2 GW-3 standards for these metals at all of the GE Pittsfield GMAs. Accordingly, GE has utilized those Method 2 standards in its evaluation of the fall 2008 analytical results.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 4 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. The compliance points were initially identified in the GMA 4 Baseline Monitoring Proposal (although certain modifications were made subsequent to that proposal as a result of EPA requirements, findings during field reconnaissance of the selected wells, or replacement of certain wells during the course of the monitoring program) and are described further in Sections 4.3.1 (for GW-2 wells) and 4.3.2 (for GW-3 wells).

In addition to the Performance Standards described above, analytical results from all groundwater monitoring wells sampled during the fall 2008 sampling event were compared to the MCP UCLs for groundwater. Analytical results from wells included in the OPCA groundwater monitoring program were also compared to the 1999 baseline data and other prior OPCA-related monitoring data for those wells.

4.3 Groundwater Quality – Fall 2008

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the fall 2008 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 4. 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 and, for cobalt and copper, on the recently-developed Method 2 GW-3 standards for these two metals. The following subsections discuss the fall 2008 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 6 and 7 provide a comparison of the concentrations of the detected

constituents with the current GW-2 and GW-3 standards, respectively, while Table 8 presents a comparison of the concentrations of detected constituents with the MCP UCLs for groundwater.

With regard to constituents that in the past were analyzed as either a filtered or unfiltered sample (i.e., PCBs and inorganics), all monitoring wells were sampled and analyzed in accordance with the approved interim program protocols during the fall 2008 sampling event, which provides for the collection of filtered data only for PCB and inorganic constituent analyses (except for sulfide, which is analyzed in unfiltered samples only). The filtered results are utilized for comparison to the MCP GW-3 standards while both the filtered and any unfiltered results are compared to the MCP UCLs for groundwater.

4.3.1 Fall 2008 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were collected from three monitoring wells at GMA 4 that have been designated as GW-2 monitoring wells and will be compliance points for the GW-2 standards (H78B-15, OPCA-MW-4, and OPCA-MW-5R), and from three other wells compared to GW-2 criteria (wells GMA4-2, GMA4-3, and OPCA-MW-1RR). The fall 2008 groundwater analytical results for the detected constituents within these six wells were compared to the MCP Method 1 GW-2 standards as presented in Table 6. In light of the new MCP Method 1 GW-2 for PCBs, a comparison of the filtered PCB results from these wells to the new GW-2 PCB standard was also performed. As noted in EPA's January 27, 2009 conditional approval letter of GE's GMA 4 Interim Report for Spring 2008, MDEP has informed EPA that the use of filtered samples for evaluation of MCP GW-2 standards for PCBs is appropriate. As such, GE, with the concurrence of EPA, used the analysis of filtered PCB samples for comparison to the GW-2 standard.

During this sampling round, at well OPCA-MW-1RR, a concentration of 3.6 ppm of tetrachloroethene was detected, compared to the GW-2 standard of 0.05 ppm. At other wells compared to GW-2 standards, there were no other exceedances of those standards. None of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells within 30 feet of a school or occupied residential structure, and a potential trigger level, if seen at a well where the GW-2 standards had previously been exceeded, for the proposal of interim response actions).

OPCA-MW-1RR has a GW-2 designation based on the designation of the original wells installed at this location (OPCA-MW-1, OPCA-MW-1R), as noted in the GE's July 2001 Baseline Monitoring Proposal for Plant Site 3 Groundwater Management Area, conditionally approved by EPA on December 28, 2001. However, replacement well OPCA-MW-1RR was installed after completion of the utility re-routing project within the groundwater management area. The depth to water during summer and fall 2008 ranged from 16.8 to 17.4 feet below ground surface, and, thus, was greater than the 15 feet below the ground

surface criterion for a GW-2 well. Additionally, this well is also greater than 30 feet away from a building. Therefore, the newly installed well does not appear to meet the criteria for a GW-2 well. It should be noted that this is the first GW-2 exceedance at the OPCA-MW-1/1R/1RR location.

At well OPCA-MW-5R, no vinyl chloride was detected during this monitoring round compared to spring 2008, when a concentration of 0.012 ppm was detected at this well. This is consistent with previous events with the exception of the spring 2006 monitoring event, when concentrations of vinyl chloride had exceeded the GW-2 standard.

No PCBs were detected in wells GMA4-2 and GMA4-3 during fall 2008. These wells were added back into the interim monitoring program based on the new GW-2 standard for PCBs.

4.3.2 Fall 2008 Groundwater Results Relative to GW-3 Performance Standards

Groundwater samples were collected from 12 wells designated as GW-3 monitoring points during the fall 2008 groundwater sampling event. Four of these wells (H78B-15, OPCA-MW-1RR, OPCA-MW-4, and OPCA-MW-5R) are designated as GW-2 Sentinel/GW-3 general source area sentinel wells. Three of these wells (78-1, 78-6, and GMA 4-6) are GW-3 upgradient perimeter wells. Five wells (OPCA-MW-2R, OPCA-MW-3, and OPCA-MW-6 though OPCA-MW-8) are downgradient of the OPCA. The analytical results for the constituents detected in these wells were compared to the applicable MCP Method 1 GW-3 standards as presented in Table 7. No constituents were found at levels above their respective MCP Method 1 GW-3 standards in groundwater samples collected in fall 2008. As discussed above, Method 2 GW-3 standards for cobalt and copper have been developed and implemented at the GE-Pittsfield GMAs. Cobalt was detected at well 78-6 at an estimated concentration of 0.00372 ppm in fall 2008, which is well below the developed GW-3 standard of 0.075 ppm.

4.3.3 Comparison to Upper Concentration Limits

In addition to comparing the fall 2008 groundwater analytical results with applicable MCP Method 1 GW-2 and MCP Method 1 and 2 GW-3 standards, those results have also been compared with the MCP UCLs for groundwater specified in the MCP (310 CMR 40.0996(7)). These comparisons are presented in Table 8, which indicates that none of the constituents detected was above its respective UCL in any of the groundwater samples analyzed during the fall 2008 sampling event.

4.3.4 Comparison to OPCA Baseline and Prior Groundwater Data

Groundwater samples were collected from 12 OPCA monitoring wells during the fall 2008 interim sampling event. Analytical data from the samples collected were compared to the results of the 1999 OPCA baseline investigation and, where relevant, to the results of more recent semi-annual monitoring events. The analytical data from the initial OPCA groundwater monitoring events conducted in 1999 and 2001 are summarized in Table D-1 within Appendix D, along with data collected during the most recent year of sampling. Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB concentrations for the OPCA wells over the duration of the groundwater monitoring program are also presented in Appendix D, along with graphs of historical concentrations of individual constituents where concentrations exceeded the applicable MCP Method 1 GW-2 or GW-3 standards or UCLs during at least one OPCA monitoring program sampling event. The results of these comparisons for each analytical constituent group (i.e., VOCs, SVOCs, PCBs, PCDDs/PCDFs, and inorganics) are discussed below.

With limited exceptions, the fall 2008 groundwater sampling results from the OPCA monitoring wells were consistent with those from the baseline round and/or recent sampling events (other than the spring 2006 PCB data, which, as discussed in the Spring 2007 GMA 4 Groundwater Monitoring Interim Report, and approved by EPA on October 22, 2007, appears to have been anomalous). With the exception of the exceedance of GW-2 standard of tetrachloroethene at well OPCA-MW-1RR (where, as discussed above, the GW-2 standard actually should not apply), all constituents were below the applicable UCLs, Method 1 GW-2 standards, and/or Method 1 GW-3 standards.

VOCs

Six VOCs were detected in the fall 2008 OPCA monitoring well samples. The most frequently detected VOCs (chlorobenzene and tetrachloroethene) were detected in two wells (OPCA-MW-4 and OPCA-MW-5R for chlorobenzene, OPCA-MW-1RR and OPCA-MW-2R for tetrachloroethene). Chlorobenzene was detected at estimated concentrations ranging from 0.00011 ppm (well OPCA-MW-5R) to 0.00017 ppm (well OPCA-MW-5R), which are well below the GW-2 standard of 0.2 ppm. Tetrachloroethene was detected at a concentration of 0.0030 ppm (OPCA-MW-2R), which is below the GW-3 standard of 30 ppm. However, at well OPCA-MW-1RR, tetrachloroethene was detected at a concentration of 3.6 ppm, which exceeds the GW-2 standard for this constituent (0.050 ppm) but is well below the MCP GW-3 criteria of 30 ppm. As discussed above, given the depth to groundwater at this well and the lack of nearby buildings, this well does not meet the criteria for a GW-2 well. Other VOCs detected in OPCA wells include 1,1,1-trichloroethane, chloroform, methylene chloride, and trichloroethene. None of these constituents was detected at concentrations above its respective GW-2 or GW-3 standard. Vinyl chloride

was not detected in well OPCA-MW-5R during this monitoring round, providing further indication that the spring 2006 GW-2 exceedance for this constituent was anomalous.

These VOC results have been compared with the historical results as illustrated in the graphs provided in Appendix D and are generally consistent with the 1999 baseline sampling analytical results. As discussed below, GE plans to continue the OPCA groundwater monitoring program and to continue to monitor concentrations of these and other constituents in the OPCA wells.

SVOCs

One SVOC was detected in OPCA monitoring wells during the fall 2008 monitoring event. Bis(2-ethylhexyl)phthalate was detected in wells GMA4-6, H78B-15, and OPCA-MW-8 at estimated concentrations of 0.00072, 0.00010, and 0.00087 ppm, respectively. No other SVOCs were detected in the OPCA wells during this sampling round. This constituent, which is a common laboratory contaminant, was not detected above its applicable MCP Method 1 GW-3 standard.

PCBs

The fall 2008 analytical results for the OPCA groundwater monitoring program indicate that no PCBs were detected in any of the OPCA wells during the fall 2008 sampling event.

Other Appendix IX+3 Constituents

Low levels of PCDDs were observed in OPCA groundwater monitoring program well OPCA-MW-8, and trace levels of PCDFs were detected in seven wells (78-1, 78-6, H78B-15, OPCA-MW-4, OPCA-MW-5R, OPCA-MW-6, and OPCA-MW-8) during the fall 2008 sampling event. No PCDDs or PCDFs were detected in wells GMA4-6, OPCA-MW-1RR, OPCA-MW-2R, OPCA-MW-3, and OPCA-MW-7. As previously discussed in Section 3.2.4, TEQ values are calculated for each sample using WHO TEFs, incorporating values equal to one-half of the detection limit for non-detected PCDDs and PCDFs. The concentrations of these TEQ values are similar to those previously observed during the OPCA groundwater monitoring program and are also below the applicable UCL and GW-3 standard.

For inorganic constituents, minor variations in detected concentrations have been observed in several monitoring wells. These fluctuations have been observed during the course of the OPCA groundwater monitoring program and are considered typical for inorganic constituents in groundwater. There were no exceedances of applicable MCP Method 1 or, for copper and cobalt, Method 2 GW-3 standards observed in the OPCA wells during this sampling event for inorganic constituents.

4.3.5 Pittsfield Generating Company Supply Well

As noted above, one groundwater sample obtained from the PGC deep bedrock industrial cooling-supply well ASW-5 was analyzed on behalf of PGC for VOCs and PCBs in accordance with its approved monitoring program. No constituents were detected in the most recent sample obtained from supply well ASW-5. A table and graphs summarizing the historical analytical results for this well are provided in Appendix E. As shown on those graphs, total VOC concentrations (consisting primarily of TCE) show a generally downward trend from fall 2003. This is the first time that no TCE has been detected in this well. None of the VOCs detected in this supply well have been observed at concentrations above the MCP Method 1 GW-3 standards. In addition, PCBs have not been detected in this well in any of the samples collected during this time frame.

4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB concentrations for all wells sampled in fall 2008 are presented in Appendix D. In addition, Appendix D contains graphs of historical concentrations of individual constituents at monitoring wells where concentrations exceeded the applicable current MCP Method 1 GW-2 or GW-3 standards or UCLs during one or more of the prior baseline, interim, or OPCA monitoring program sampling events.

Based on a review of the concentration vs. time graphs presented in Appendix D, VOCs have not been detected or have remained at low levels in the majority of the wells that have been monitored, with the exception of certain wells located within the groundwater depression extending from northwest to southeast beneath the Hill 78 OPCA and PGC facility, where varying concentrations of certain chlorinated VOCs have been observed.

With the exception of tetrachloroethene at newly installed well OPCA-MW-1RR, all constituents detected in GMA 4 in fall 2008 were at levels below the applicable Method 1 GW-2 standards, Method 1 or 2 GW-3 standards, and/or UCLs for groundwater, and, as noted above, that well does not satisfy the criteria for a GW-2 well. As shown in Appendix D, with the exception noted above, the data collected in fall 2008 is consistent with prior data.

4.5 NAPL Monitoring Results

NAPL monitoring was conducted during all groundwater elevation monitoring activities conducted in fall 2008. NAPL was not observed in any of the GMA 4 monitoring wells monitored during this time period, including well OPCA-MW-3, which is located downgradient of the only known occurrence of NAPL at this GMA (i.e., at well H78B-8R, which was decommissioned as part of the OPCA construction). In addition to the semi-

annual groundwater elevation/NAPL monitoring event, GE continued monthly groundwater elevation/NAPL monitoring at well GMA4-3 to verify that LNAPL has not migrated from GMA 3 to the western side of Plastics Avenue. The results of this monitoring are provided in Appendix A (along with all other monitoring data collected in fall 2008). LNAPL has not been detected at well GMA4-3 since monthly monitoring was initiated in April 2005. GE plans to continue to monitor well GMA4-3 on a monthly basis for the presence of LNAPL and will include those results, along with any proposals to address the monitoring results, in the future groundwater quality reports for GMA 3 and GMA 4.

5. Proposed Monitoring Program Modifications

5.1 General

In fall 2008, GE conducted the tenth event of the interim groundwater monitoring program. The fall 2008 monitoring event also included the OPCA groundwater monitoring program, which will be continued until closure of the OPCAs. Monthly, quarterly, or semi-annual groundwater elevation monitoring was also conducted at specific wells, as shown in Table 2.

GE has reviewed the groundwater analytical data from this sampling event for results that would indicate the need to modify the interim monitoring program. The fall 2008 data are generally consistent with prior monitoring events, with the exception of the tetrachloroethene reading at new well OPCA-MW-1RR.

The SOW requires that interim response actions be proposed at locations where samples exceed the Method 1 GW-2 standards at GW-2 compliance wells in which: (a) such an exceedance had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-2 standard and the groundwater concentration is greater than or equal to 5 ppm total VOCs (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, soil gas sampling, desk-top modeling of potential volatilization of chemicals from groundwater to the indoor air of nearby occupied buildings, and/or sampling of the indoor air of such buildings; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and/or proposal of alternative risk-based GW-2 Performance Standards.

For monitoring well OPCA-MW-1RR, although the results are being compared to the Method 1 GW-2 standards, it appears that the well should not be classified as a GW-2 well as it is located at a distance much greater than 30 feet from an occupied building, and the groundwater elevations at the new well are greater than 15 feet below ground. Regardless, to further assess the PCE concentrations of this well, GE proposes to continue to monitor this well on a semi-annual basis under the OPCA monitoring program. In addition, groundwater elevation data will continue to be collected at this well to further evaluate depth of groundwater and GW-2 applicability.

5.2 Proposed Program Modifications

Condition 3 of EPA's January 27, 2009 conditional approval letter for GE's GMA 4 Interim Report for Spring 2008 states that the OPCA monitoring wells will be treated differently than other wells at GMA 4 for purposes of long-term groundwater monitoring. Upon receipt of EPA comments to GE's August 15, 2008 submittal of the *Hill 78 and Building 71 on-plant*

Consolidation Areas Post-Removal Site Control Plan, GE will address any differing requirements that are implemented.

Per Condition 4 of EPA's January 27, 2009 conditional approval letter for GE's GMA 4 Interim Report for Spring 2008, GE proposes to install a monitoring well couplet downgradient of GMA 4 to assess possible migration of constituents deeper in the water column. Two monitoring wells (to be designated as GMA4-7S and GMA4-7D for the shallow and deep wells, respectively) are proposed to be installed to evaluate downgradient flow from the southern portion of GMA-4 toward the Housatonic River. The approximate well locations are shown on Figure 6. The shallow well will be screened to intersect the top of the water table. The deep well will have a screened interval that reaches the till interface (if encountered) or will be screened at a depth of 10- to 20-feet below the top of the water table, if the till is greater than 20 feet below the water table. If the till interface is sufficiently shallow, such that a single well screened from the top of the groundwater table to the top of the till interface can be utilized, GE may install a single well subject to EPA approval. GE proposes to monitor groundwater elevations at the newly installed well couplet, and wells OJ-MW-1 (GMA 2) and GMA4-5 (Commercial Street Site) on a semi-annual basis. In addition, GE proposes to sample these wells on the same schedule as interim monitoring program wells H78B-16 and H78B-17R. These wells are sampled on an annual basis, alternating between spring and fall seasons each year. The most recent sampling event was conducted in spring 2008, and the next sampling round is currently scheduled for fall 2009.

Condition 3 of EPA's April 23, 2008 conditional approval letter of the *GMA 4 Groundwater Quality Monitoring Interim Report for Fall 2007* required GE to collect quarterly GMA 4 groundwater elevation data through fall 2008 synchronous with EPA's collection of groundwater elevation data at the adjacent Allendale School property. The groundwater data for summer and fall 2008 are presented in this report; the groundwater data for winter 2007/2008 and spring 2008 were presented in the *GMA 4 Groundwater Quality Monitoring Interim Report for Spring 2008.* Groundwater elevation data from all four events consistently showed that GMA 4 is downgradient of the Allendale School property and that the general groundwater flow pattern at GMA 4 is consistent from season to season. Therefore, GE proposes to discontinue all quarterly groundwater elevation monitoring events at GMA 4 and return to a semi-annual monitoring schedule. GE will continue to coordinate those semi-annual monitoring events with any future EPA monitoring events at the Allendale School property.

In fall 2008, GE completed soil removal activities at Hill 78 remainder, as proposed in GE's *Final Removal Design/Removal Action (RD/RA) Work Plan for Hill 78 Area- Remainder* and *Addendum to Final RD/RA Work Plan for Hill 78 Area-Remainder* conditionally approved by EPA on August 20, 2008 and October 28, 2008, respectively. GE's *Conceptual Removal Design/Removal Action Work Plan for Unkamet Brook Area-West,* submitted to EPA on

February 12, 2009, proposes only limited re-paving work in the portion of the Unkamet Brook Area west of Plastics Avenue, which is in part of GMA 4. Therefore, although certain site restoration activities remain to be performed, the soil-related Removal Actions are essentially complete at the RAAs that comprise GMA 4. As such, GE proposes to submit the *Baseline Assessment Final Report and Long-Term Monitoring Program Proposal for Groundwater Management Area 4* (GMA 4 LTMP Proposal) in lieu of the *Groundwater Quality Monitoring Interim Report for Spring 2009*. The GMA 4 LTMP Proposal will include the spring 2009 sampling results and OCPA related evaluations of the data, as well as an evaluation the overall groundwater quality at the GMA 4 pursuant to the requirements of Attachment H of the SOW, and a proposal for long-term groundwater quality monitoring activities.

6. Schedule of Future Activities

This section summarizes the schedule for upcoming monitoring events at GMA 4 and associated reporting activities. Specifically, this section provides a schedule for the upcoming spring 2009 interim monitoring/sampling event and proposed reporting activities. A summary of the spring 2009 interim sampling program is provided in Table 9. The wells scheduled to be monitored in spring 2009 are part of the OPCA monitoring program and will be sampled as identified in Table 9. In addition, semi-annual sampling will continue at wells GMA4-2 and GMA4-3 to evaluate compliance with the new GW-2 standard for PCBs.

6.1 Field Activities Schedule

Following EPA approval of the proposal contained in Section 5.2, GE will install well couple GMA4-7S/GMA4-7D in spring 2009 (depending on obtaining site access), and will initiate sampling activities at this location (along with wells GMA4-5 and OJ-MW-1) in fall 2009.

GE anticipates that the spring 2009 interim sampling event will take place in April 2009. Semi-annual sampling and analyses will be performed at the 12 OPCA groundwater monitoring program wells. GE will also continue its semi-annual sampling and PCB analysis of filtered samples from GW-2 monitoring wells GMA4-2 and GMA4-3. Analyses of groundwater samples will be performed according to the requirements of the OPCA groundwater monitoring program, as listed in Table 9.

Assuming EPA approval of GE's proposal to discontinue quarterly monitoring activities at GMA 4, groundwater elevations from select wells will be monitored on a semi-annual basis, with future monitoring rounds conducted during the months of April and October at all baseline wells that have been retained for semi-annual groundwater elevation monitoring. GE will include the monitoring data from GMA 2 well OJ-MW-1 and Commercial Street Site well GMA 4-5 in future reports. Well GMA4-3 will continue to be monitored for NAPL on a monthly basis throughout spring 2009.

Prior to performance of these field activities, GE will provide EPA with 7 days advance notice to allow: (1) the assignment of field oversight personnel; (2) preparations to split samples with EPA's contractor; and (3) the collection by EPA of groundwater levels at the Allendale wells in conjunction with GE's groundwater elevation monitoring activities at GMA 4 (if desired).

6.2 Reporting Schedule

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

GE proposes to submit a *Baseline Assessment Final Report and Long-Term Monitoring Program Proposal for Groundwater Management Area 4*, which will include the results of the spring 2008 sampling and monitoring events, by August 30, 2009, in accordance with the standard interim reporting schedule approved by EPA. That report will present the final, validated spring 2009 interim sampling results, including a summary of data from other groundwater-related activities conducted at GMA 4 between January 2009 and July 2009, a discussion of those results, and the GMA 4 LTMP proposal. The GMA 4 LTMP proposal will include the requirements as specified in Section 6.3.2 of Attachment H of the SOW.

ARCADIS

Tables

Table 1
Groundwater Quality Monitoring Program Summary

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Comments
78-1	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
78-6	GW-3 Perimeter/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008.
GMA4-2	GW-2 Sentinel	Semi-Annual	PCB[2]	Sampled in Fall 2008
GMA4-3	GW-2 Sentinel	Semi-Annual	PCB[2]	Sampled in Fall 2008
GMA4-6	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
H78B-15	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
H78B-16	Supplemental Well for TCE Evaluation	Annual	VOC	Sampling of these two wells is to be conducted on an annual basis, alternating between the spring and fall seasons each year. The most recent sampling event was conducted in spring 2008, and the next scheduled sampling will be fall 2009.
H78B-17R	GW-3 Perimeter (Downgradient)	Annual	VOC	
OPCA-MW-1RR	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Installed in July 2008 to replace well OPCA-MW-1R. Sampled in Fall 2008
OPCA-MW-2R	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Installed in July 2008 to replace well OPCA-MW-2. Sampled in Fall 2008
OPCA-MW-3	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
OPCA-MW-4	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
OPCA-MW-5R	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
OPCA-MW-6	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
OPCA-MW-7	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008
OPCA-MW-8	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX [1,2]	Sampled in Fall 2008

Notes:
1. Appendix IX+3 analyses consists of those non-PCB constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides) plus three constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine.
2. Per the interim monitoring program protocols, analyses for PCBs, metals, and cyanide are performed on filtered samples only.

Table 2
Groundwater Elevation Monitoring Program Summary

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Well Number	Monitoring Schedule
60B-R	Semi-Annual
78-1	Quarterly
78-2	Quarterly
78-3	Semi-Annual
78-4	Semi-Annual
78-5R	Semi-Annual
78-6	Quarterly
GMA4-1	Semi-Annual
GMA4-2	Semi-Annual
GMA4-3	Monthly
GMA4-4	Quarterly
GMA4-6	Quarterly
H78B-13R	Semi-Annual
H78B-15	Semi-Annual
H78B-16	Semi-Annual
H78B-17R	Semi-Annual
NY-3	Quarterly
NY-4	Quarterly
OPCA-MW-1RR	Quarterly
OPCA-MW-2R	Quarterly
OPCA-MW-3	Quarterly
OPCA-MW-4	Quarterly
OPCA-MW-5R	Quarterly
OPCA-MW-6	Quarterly
OPCA-MW-7	Quarterly
OPCA-MW-8	Quarterly
RF-14	Semi-Annual
RF-15	Semi-Annual
SCH-4	Quarterly
UB-MW-5	Semi-Annual
UB-MW-6	Semi-Annual
East Street Area 2 - North (Groundwater Management Area 1) Adjacent to GMA 4	
ES1-20	Semi-Annual
Allendale School Property Monitoring Wells/Piezometers Adjacent to GMA 4 (see note 2)	
PZ-1	Quarterly
PZ-2	Quarterly
PZ-3	Quarterly
PZ-4	Quarterly
SCH-1	Quarterly

Note:
1. The listed monitoring wells are monitored for groundwater elevation and NAPL presence at the frequencies shown.
2. The Allendale School Property Monitoring Wells/Piezometers are monitored by EPA.

Table 3
Monitoring Well Construction Summary

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Monitoring Well Number	Survey Coordinates		Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
78-1	536143.95	136345.00	4.00	1,027.40	1,026.32	8.0	15.0	1,019.40	1,004.40
78-6	535917.90	135919.00	4.00	1,012.33	1,012.00	3.0	15.0	1,009.33	994.33
GMA4-2	536218.10	137516.40	2.00	1,006.22	1006.06	9.6	10.00	996.63	986.63
GMA4-3	536289.60	137999.80	2.00	1,004.14	1003.95	16.1	10.00	988.05	978.05
GMA4-6	535774.20	135658.40	2.00	1,009.62	1,009.12	3.0	10.0	1,006.62	996.62
H78B-15	535408.90	136705.20	0.75	1,009.80	1,012.68	6.0	10.0	1,003.80	993.80
H78B-16	535040.80	136495.50	0.75	996.00	999.33	4.0	10.0	992.00	982.00
H78B-17R	534996.00	136659.20	4.00	999.20	1,000.31	14.3	9.2	984.90	975.70
OPCA-MW-1RR	535367.60	135561.10	2.00	1,016.80	1,016.46	18.0	10.0	998.80	988.80
OPCA-MW-2R	353176.60	135892.10	2.00	1,016.80	1,018.84	10.0	15.0	1,006.80	991.80
OPCA-MW-3	535299.60	136188.90	2.00	1,015.30	1,014.83	18.0	10.0	997.30	987.30
OPCA-MW-4	535570.22	136222.55	2.00	1,019.20	1,018.67	12.0	10.0	1,007.20	997.20
OPCA-MW-5R	535630.68	136477.98	2.00	1,016.64	1,016.34	11.25	10.0	1,005.39	995.39
OPCA-MW-7	535673.73	136835.86	2.00	1,026.90	1,026.57	14.0	10.0	1,012.90	1,002.90
OPCA-MW-8	535989.21	136679.68	2.00	1,027.90	1,027.40	13.5	10.0	1,014.40	1,004.40
SCH-4	535377.40	135573.90	2.00	1,012.27	1,014.05	7.9	10.0	1,004.37	994.37

Table 3
Monitoring Well Construction Summary

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Monitoring Well Number	Survey Coordinates		Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
East Street Area 2 - North (Groundwater Management Area 1) adjacent to GMA 4									
ES1-20	535314.82	134924.90	0.75	997.82	1,001.56	6.0	10.0	991.82	981.82
Allendale School Property Monitoring Wells/Piezometers adjacent to GMA 4									
PZ-1	535900.23	135753.22	NA	NA	1,005.60	NA	NA	NA	NA
PZ-2	536112.14	135563.58	NA	NA	1,009.89	NA	NA	NA	NA
PZ-3	536396.28	135728.63	NA	NA	1,010.43	NA	NA	NA	NA
PZ-4	536116.06	136119.15	NA	NA	1,007.96	NA	NA	NA	NA
SCH-1	536574.57	135606.24	NA	NA	1,017.11	NA	NA	NA	NA
Commercial Street Site - adjacent to GMA 4									
GMA4-5	534525.10	136816.60	2.00	993.56	993.34	8.0	10.0	985.56	975.56

Notes:
1. ft AMSL - Feet above mean sea level.
2. ft BGS - Feet below ground surface.
3. NA - Information not available.
4. ES1-20 is located in Groundwater Management Area 1, but also utilized as part of the GMA 4 groundwater elevation monitoring network.
5. GMA 4-5 is located on the Commercial Street site, but was monitored in fall 2008 and used for groundwater elevation contours.
6. OCPA-MW-1RR and OCPA-MW-2 were installed in July 2008 as replacements for wells OPCA-MW-1R and OPCA-MW-2.

Table 4
Groundwater Elevation Data - Summer/Fall 2008

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Well Number	Date Measured	Groundwater Elevation [1]
Summer 2008 Monitoring Event		
78-1	7/23/2008	1,015.48
78-2	7/23/2008	1,025.81
78-6	7/23/2008	1,004.01
GMA4-3	7/23/2008	986.15
GMA4-4	7/23/2008	986.73
GMA4-6	7/23/2008	999.40
NY-3	7/23/2008	990.06
NY-4	7/23/2008	1,013.69
OPCA-MW-1RR	7/23/2008	1,000.01
OPCA-MW-2R	7/23/2008	995.68
OPCA-MW-3	7/23/2008	994.77
OPCA-MW-4	7/23/2008	1,006.52
OPCA-MW-5R	7/23/2008	1,004.66
OPCA-MW-6	7/23/2008	1,005.30
OPCA-MW-7	7/23/2008	1,010.77
OPCA-MW-8	7/23/2008	1,015.90
SCH-4	7/23/2008	1,004.95
East Street Area 2 - North adjacent to GMA 4		
ES1-20	7/23/2008	986.96
Allendale School Property Monitoring Wells/Piezometers		
PZ-1	7/23/2008	1,001.29
PZ-2	7/23/2008	1,007.75
PZ-3	7/23/2008	1,008.04
PZ-4	7/23/2008	1,007.04
SCH-1	7/23/2008	1,011.15
Fall 2008 Monitoring Event		
060B-R	10/29/2008	986.81
78-1	10/29/2008	1016.67
78-2	10/29/2008	1024.28
78-3	10/31/2008	989.58
78-4	10/29/2008	986.01
78-5R	10/29/2008	992.66
78-6	10/29/2008	1005.91
GMA4-1	10/29/2008	989.17
GMA4-2	10/29/2008	992.73
GMA4-3	10/29/2008	986.02
GMA4-4	10/29/2008	986.89
GMA4-6	10/29/2008	1000.44
H78B-13R	10/29/2008	982.03
H78B-15	10/29/2008	998.14
H78B-16	10/29/2008	986.01
H78B-17R	10/29/2008	986.77
NY-3	10/29/2008	990.12
NY-4	10/29/2008	1015.39

Table 4
Groundwater Elevation Data - Summer/Fall 2008

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Well Number	Date Measured	Groundwater Elevation [1]
OPCA-MW-1RR	10/29/2008	999.42
OPCA-MW-2R	10/29/2008	995.73
OPCA-MW-3	10/29/2008	994.12
OPCA-MW-4	10/29/2008	1006.41
OPCA-MW-5R	10/29/2008	1004.66
OPCA-MW-6	10/29/2008	1006.43
OPCA-MW-7	10/29/2008	1007.47
OPCA-MW-8	10/29/2008	1015.2
RF-14	10/29/2008	991.56
RF-15	10/29/2008	995.46
SCH-4	10/29/2008	1007.62
UB-MW-5	10/29/2008	993.48
UB-MW-6	10/29/2008	998.73
East Street Area 2 - North adjacent to GMA 4		
ES1-20	10/29/2008	987.22
Allendale School Property Monitoring Wells/Piezometers		
PZ-1	10/29/2008	1,004.27
PZ-2	10/29/2008	1,008.38
PZ-3	10/29/2008	1,008.19
PZ-4	10/29/2008	1,007.78
SCH-1	10/29/2008	1,011.59
Commercial Street Site - adjacent to GMA 4		
GMA4-5	10/29/2008	981.49

Notes:
1. The elevation shown is in feet above mean sea level.
2. The data shown above was utilized in the preparation of the Summer 2008 and Fall 2008 groundwater elevation contour maps for GMA 4. Other groundwater elevation data collected from July to December 2008 is provided in Appendix E.

Table 5
Field Parameter Measurements - Fall 2008

Groundwater Quality Monitoring Interim Report For Fall 2008
Groundwater Mamangement Area 4
General Electric Company- Pittsfield, Massachusetts

Well Number	Temperature (deg. C)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
78-1	14.27	6.53	0.883	2	0.13	101.1
78-6	13.97	6.83	2.010	28	0.18	-50.0
GMA4-2	11.54	7.71	2.100	24	8.67	-171.3
GMA4-3	6.59	7.27	0.538	19	5.98	116.2
GMA4-6	13.48	6.75	1.240	2	0.14	80.1
H78B-15	13.53	6.53	1.681	5	4.84	-21.0
OPCA-MW-1RR	14.56	7.44	1.436	7	0.38	-63.3
OPCA-MW-2R	12.18	6.82	1.421	9	0.52	-69.0
OPCA-MW-3	11.57	6.53	0.622	4	0.51	105.0
OPCA-MW-4	14.10	6.94	1.151	3	1.16	-171.5
OPCA-MW-5R	12.64	6.62	0.97	4	0.15	7.1
OPCA-MW-6	10.57	7.09	0.565	2	2.79	-64.9
OPCA-MW-7	13.84	6.67	2.241	4	1.97	-44.6
OPCA-MW-8	12.79	7.67	0.895	3	4.83	-30.7

Notes:
1. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
2. NTU - Nephelometric Turbidity Units.
3. SU - Standard Units.
4. mS/cm - Millisiemens per centimeter.
5. mV - Millivolts.
6. mg/L - Milligrams per liter (ppm).

Table 6
Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	GMA4-2 10/22/08	GMA4-3 10/22/08	H78B-15 10/23/08	OPCA-MW-1RR 10/20/08	OPCA-MW-4 10/20/08	OPCA-MW-5R 10/21/08
Volatile Organics							
Chlorobenzene	0.2	NA	NA	ND(0.0010)	ND(0.50)	0.00017 J	0.00011 J
Chloroform	0.05	NA	NA	0.00021 J	ND(0.50)	ND(0.0010)	ND(0.0010)
Methylene Chloride	10	NA	NA	ND(0.0050)	ND(2.5)	ND(0.0050)	0.00022 J
Tetrachloroethene	0.05	NA	NA	ND(0.0010)	3.6	ND(0.0010)	ND(0.0010)
Trichloroethene	0.03	NA	NA	ND(0.0010)	ND(0.50)	0.0016	ND(0.0010)
Total VOCs	5	NA	NA	0.00021 J	3.6	0.0018 J	0.00033 J
PCBs-Filtered							
None Detected	--	--	--	--	--	--	--
Semivolatile Organics							
bis(2-Ethylhexyl)phthalate	Not Listed	NA	NA	0.0010 J	ND(0.0051)	ND(0.0052)	ND(0.0052)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. Only volatile, PCBs and semivolatile analysis is presented for the MCP Method 1 GW-2 Standards Comparison.
4. NA - Not Analyzed.
5. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
6. Only those constituents detected in one or more samples are summarized.
7. -- Indicates that all constituents for the parameter group were not detected.
8. Total VOCs are being compared to the notification level in the SOW of 5 ppm, as there are no GW-2 standards for Total VOCs.
9. Shading indicates that value exceeds the Method 1GW-2 Standards.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	78-1 10/23/08	78-6 10/22/08	GMA4-6 10/23/08
Volatile Organics				
1,1,1-Trichloroethane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	1	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	50	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	30	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	5	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered				
None Detected	--	--	--	--
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	50	ND(0.0051)	ND(0.0051)	0.00072 J
Furans				
2,3,7,8-TCDF	Not Listed	0.000000010 J	ND(0.0000000029)	ND(0.0000000035)
TCDFs (total)	Not Listed	0.000000066	0.000000020	ND(0.0000000035)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
PeCDFs (total)	Not Listed	0.000000021	0.0000000041	ND(0.0000000051)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000058)
HpCDFs (total)	Not Listed	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000058)
OCDF	Not Listed	ND(0.000000015)	ND(0.000000013)	ND(0.000000016)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000030)	ND(0.0000000025)	ND(0.0000000033)
TCDDs (total)	Not Listed	ND(0.0000000030)	ND(0.0000000025)	ND(0.0000000033)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000051)
HxCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000051)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000086)	ND(0.0000000071)	ND(0.0000000070)
HpCDDs (total)	Not Listed	ND(0.0000000086)	ND(0.0000000071)	ND(0.0000000070)
OCDD	Not Listed	ND(0.000000019)	ND(0.000000015)	ND(0.000000019)
Total TEQs (WHO TEFs)	0.0000001	0.0000000084	0.0000000072	0.0000000077
Inorganics-Unfiltered				
Sulfide	Not Listed	1.3 J	ND(1.00)	ND(1.00)
Inorganics-Filtered				
Arsenic	0.9	ND(0.0100) J	0.00517 B J	ND(0.0100) J
Barium	50	ND(0.500)	0.0574 B	ND(0.500)
Cadmium	0.004	ND(0.00500)	ND(0.00500) J	ND(0.00500)
Cobalt	0.075	ND(0.0100) J	0.00372 B J	ND(0.0100) J
Lead	0.01	ND(0.0100) J	0.00684 B J	ND(0.0100) J
Selenium	0.1	ND(0.0200) J	ND(0.0200) J	0.00962 B J
Thallium	3	ND(0.0100)	ND(0.0100) J	0.00784 B
Vanadium	4	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.9	0.00549 B	ND(0.0500)	0.0154 B

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	H78B-15 10/23/08	OPCA-MW-1RR 10/20/08	OPCA-MW-2R 10/20-10/21/08	OPCA-MW-3 10/22/08
Volatile Organics					
1,1,1-Trichloroethane	20	ND(0.0010)	ND(0.50)	0.00013 J	ND(0.0010)
Chlorobenzene	1	ND(0.0010)	ND(0.50)	ND(0.0010)	ND(0.0010)
Chloroform	20	0.00021 J	ND(0.50)	ND(0.0010)	ND(0.0010)
Methylene Chloride	50	ND(0.0050)	ND(2.5)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	30	ND(0.0010)	3.6	0.0030	ND(0.0010)
Trichloroethene	5	ND(0.0010)	ND(0.50)	ND(0.0010)	ND(0.0010)
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	50	0.0010 J	ND(0.0051)	ND(0.0053)	ND(0.0054)
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000030)	ND(0.0000000035)	ND(0.0000000036)	ND(0.0000000048)
TCDFs (total)	Not Listed	0.000000025	ND(0.0000000035)	ND(0.0000000036)	ND(0.0000000048)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
PeCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000059)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000065)	ND(0.0000000058)	ND(0.0000000076)
HpCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000065)	ND(0.0000000058)	ND(0.0000000076)
OCDF	Not Listed	ND(0.000000011)	ND(0.000000015)	ND(0.000000013)	ND(0.000000025)
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000023)	ND(0.0000000032)	ND(0.0000000032)	ND(0.0000000043)
TCDDs (total)	Not Listed	ND(0.0000000023)	ND(0.0000000032)	ND(0.0000000032)	ND(0.0000000043)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
HxCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000083)	ND(0.000000012)
HpCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000083)	ND(0.000000012)
OCDD	Not Listed	ND(0.000000013)	ND(0.000000018)	ND(0.000000016)	ND(0.000000030)
Total TEQs (WHO TEFs)	0.0000001	0.0000000072	0.0000000078	0.0000000077	0.0000000086
Inorganics-Unfiltered					
Sulfide	Not Listed	ND(1.00)	1.20	1.00	ND(1.00)
Inorganics-Filtered					
Arsenic	0.9	ND(0.0100) J	0.00195 B J	ND(0.0100) J	ND(0.0100) J
Barium	50	ND(0.500)	0.0453 B	0.0435 B	0.0519 B
Cadmium	0.004	ND(0.00500)	0.00256 B J	0.00263 B J	ND(0.00500) J
Cobalt	0.075	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Lead	0.01	ND(0.0100) J	0.00395 B J	0.00420 B J	0.00564 B J
Selenium	0.1	0.00918 B J	ND(0.0200) J	ND(0.0200) J	ND(0.0200) J
Thallium	3	ND(0.0100)	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Vanadium	4	0.00587 B	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.9	0.00439 B	ND(0.0500)	ND(0.0500)	ND(0.0500)

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	OPCA-MW-4 10/20/08	OPCA-MW-5R 10/21/08	OPCA-MW-6 10/21/08
Volatile Organics				
1,1,1-Trichloroethane	20	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene	1	0.00017 J	0.00011 J	ND(0.0010) [ND(0.0010)]
Chloroform	20	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chloride	50	ND(0.0050)	0.00022 J	ND(0.0050) [ND(0.0050)]
Tetrachloroethene	30	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichloroethene	5	0.0016	ND(0.0010)	ND(0.0010) [ND(0.0010)]
PCBs-Filtered				
None Detected	--	--	--	--
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	50	ND(0.0052)	ND(0.0052)	ND(0.0052) [ND(0.0052)]
Furans				
2,3,7,8-TCDF	Not Listed	0.0000000068 YJ	ND(0.0000000044)	0.0000000049 J [0.0000000058 J]
TCDFs (total)	Not Listed	0.00000042	0.000000018	0.000000012 [0.000000014]
1,2,3,7,8-PeCDF	Not Listed	0.000000010 J	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,7,8-PeCDF	Not Listed	0.0000000067 J	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
PeCDFs (total)	Not Listed	0.00000027	0.0000000023	0.0000000048 [0.0000000052]
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
HxCDFs (total)	Not Listed	0.000000020	0.0000000020	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000055)	ND(0.0000000057)	ND(0.0000000053) [ND(0.0000000057)]
HpCDFs (total)	Not Listed	ND(0.0000000055)	ND(0.0000000057)	ND(0.0000000053) [ND(0.0000000057)]
OCDF	Not Listed	ND(0.000000016)	ND(0.000000014)	ND(0.000000014) [ND(0.000000016)]
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000026)	ND(0.0000000033)	ND(0.0000000034) [ND(0.0000000032)]
TCDDs (total)	Not Listed	ND(0.0000000026)	ND(0.0000000033)	ND(0.0000000034) [ND(0.0000000032)]
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
PeCDDs (total)	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
HxCDDs (total)	Not Listed	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000081)	ND(0.0000000052)	ND(0.0000000069) [ND(0.0000000085)]
HpCDDs (total)	Not Listed	ND(0.0000000081)	ND(0.0000000052)	ND(0.0000000069) [ND(0.0000000085)]
OCDD	Not Listed	ND(0.000000018)	ND(0.000000015)	ND(0.000000017) [ND(0.000000019)]
Total TEQs (WHO TEFs)	0.0000001	0.000000010	0.0000000078	0.0000000082 [0.0000000080]
Inorganics-Unfiltered				
Sulfide	Not Listed	1.20	1.00	1.40 [ND(1.00)]
Inorganics-Filtered				
Arsenic	0.9	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J [0.00213 B J]
Barium	50	0.0253 B	0.0538 B	0.0168 B [0.0169 B]
Cadmium	0.004	0.00276 B J	ND(0.00500) J	ND(0.00500) J [0.00328 B J]
Cobalt	0.075	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Lead	0.01	0.00425 B J	0.00657 B J	0.00641 B J [0.00718 B J]
Selenium	0.1	ND(0.0200) J	ND(0.0200) J	ND(0.0200) J [ND(0.0200) J]
Thallium	3	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Vanadium	4	ND(0.0500)	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Zinc	0.9	0.0135 B	0.0106 B	0.0325 B [0.0273 B]

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
Volatile Organics			
1,1,1-Trichloroethane	20	ND(0.0010)	ND(0.0010)
Chlorobenzene	1	ND(0.0010)	ND(0.0010)
Chloroform	20	ND(0.0010)	ND(0.0010)
Methylene Chloride	50	ND(0.0050)	ND(0.0050)
Tetrachloroethene	30	ND(0.0010)	ND(0.0010)
Trichloroethene	5	ND(0.0010)	ND(0.0010)
PCBs-Filtered			
None Detected	--	--	--
Semivolatile Organics			
bis(2-Ethylhexyl)phthalate	50	ND(0.0052)	0.00087 J
Furans			
2,3,7,8-TCDF	Not Listed	ND(0.0000000033)	ND(0.000000014)
TCDFs (total)	Not Listed	ND(0.0000000033)	ND(0.000000083)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	0.0000000058 J
PeCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.00000012)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.000000040)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000093) X
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000053)	ND(0.0000000056)
HpCDFs (total)	Not Listed	ND(0.0000000053)	ND(0.0000000056)
OCDF	Not Listed	ND(0.000000014)	0.000000018 J
Dioxins			
2,3,7,8-TCDD	Not Listed	ND(0.0000000032)	ND(0.0000000029)
TCDDs (total)	Not Listed	ND(0.0000000032)	ND(0.0000000029)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
HxCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000078)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000074)	0.000000015 J
HpCDDs (total)	Not Listed	ND(0.0000000074)	ND(0.000000015)
OCDD	Not Listed	ND(0.000000016)	0.000000086 J
Total TEQs (WHO TEFs)	0.0000001	0.0000000076	0.0000000098
Inorganics-Unfiltered			
Sulfide	Not Listed	1.00 J	ND(1.00)
Inorganics-Filtered			
Arsenic	0.9	ND(0.0100) J	ND(0.0100) J
Barium	50	0.0368 B	0.0225 B
Cadmium	0.004	ND(0.00500) J	0.00287 B J
Cobalt	0.075	ND(0.0100) J	ND(0.0100) J
Lead	0.01	ND(0.0100) J	0.00427 B J
Selenium	0.1	ND(0.0200) J	ND(0.0200) J
Thallium	3	ND(0.0100) J	ND(0.0100) J
Vanadium	4	ND(0.0500)	ND(0.0500)
Zinc	0.9	0.00771 B	0.0610

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards
Groundwater Quality Interim Report For Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 199
5. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles,dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	78-1 10/23/08	78-6 10/22/08	GMA4-2 10/22/08	GMA4-3 10/22/08
Volatile Organics					
1,1,1-Trichloroethane	100	ND(0.0010)	ND(0.0010)	NA	NA
Chlorobenzene	10	ND(0.0010)	ND(0.0010)	NA	NA
Chloroform	100	ND(0.0010)	ND(0.0010)	NA	NA
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	NA	NA
Tetrachloroethene	100	ND(0.0010)	ND(0.0010)	NA	NA
Trichloroethene	50	ND(0.0010)	ND(0.0010)	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	ND(0.0051)	ND(0.0051)	NA	NA
Furans					
2,3,7,8-TCDF	Not Listed	0.000000010 J	ND(0.0000000029)	NA	NA
TCDFs (total)	Not Listed	0.000000066	0.000000020	NA	NA
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
PeCDFs (total)	Not Listed	0.000000021	0.0000000041	NA	NA
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000058)	ND(0.0000000051)	NA	NA
HpCDFs (total)	Not Listed	ND(0.0000000058)	ND(0.0000000051)	NA	NA
OCDF	Not Listed	ND(0.000000015)	ND(0.000000013)	NA	NA
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000030)	ND(0.0000000025)	NA	NA
TCDDs (total)	Not Listed	ND(0.0000000030)	ND(0.0000000025)	NA	NA
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000051)	NA	NA
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	NA	NA
HxCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000051)	NA	NA
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000086)	ND(0.0000000071)	NA	NA
HpCDDs (total)	Not Listed	ND(0.0000000086)	ND(0.0000000071)	NA	NA
OCDD	Not Listed	ND(0.000000019)	ND(0.000000015)	NA	NA
Total TEQs (WHO TEFs)	0.000001	0.0000000084	0.0000000072	NA	NA
Inorganics-Unfiltered					
Sulfide	Not Listed	1.3 J	ND(1.00)	NA	NA
Inorganics-Filtered					
Arsenic	9	ND(0.0100) J	0.00517 B J	NA	NA
Barium	100	ND(0.500)	0.0574 B	NA	NA
Cadmium	0.05	ND(0.00500)	ND(0.00500) J	NA	NA
Cobalt	Not Listed	ND(0.0100) J	0.00372 B J	NA	NA
Lead	0.15	ND(0.0100) J	0.00684 B J	NA	NA
Selenium	1	ND(0.0200) J	ND(0.0200) J	NA	NA
Thallium	30	ND(0.0100)	ND(0.0100) J	NA	NA
Vanadium	40	ND(0.0500)	ND(0.0500)	NA	NA
Zinc	50	0.00549 B	ND(0.0500)	NA	NA

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	GMA4-6 10/23/08	H78B-15 10/23/08	OPCA-MW-1RR 10/20/08
Volatile Organics				
1,1,1-Trichloroethane	100	ND(0.0010)	ND(0.0010)	ND(0.50)
Chlorobenzene	10	ND(0.0010)	ND(0.0010)	ND(0.50)
Chloroform	100	ND(0.0010)	0.00021 J	ND(0.50)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(2.5)
Tetrachloroethene	100	ND(0.0010)	ND(0.0010)	3.6
Trichloroethene	50	ND(0.0010)	ND(0.0010)	ND(0.50)
PCBs-Filtered				
None Detected	--	--	--	--
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	100	0.00072 J	0.0010 J	ND(0.0051)
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000035)	ND(0.0000000030)	ND(0.0000000035)
TCDFs (total)	Not Listed	ND(0.0000000035)	0.000000025	ND(0.0000000035)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
PeCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000065)
HpCDFs (total)	Not Listed	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000065)
OCDF	Not Listed	ND(0.000000016)	ND(0.000000011)	ND(0.000000015)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000033)	ND(0.0000000023)	ND(0.0000000032)
TCDDs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000023)	ND(0.0000000032)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
HxCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000070)	ND(0.0000000051)	ND(0.000000011)
HpCDDs (total)	Not Listed	ND(0.0000000070)	ND(0.0000000051)	ND(0.000000011)
OCDD	Not Listed	ND(0.000000019)	ND(0.000000013)	ND(0.000000018)
Total TEQs (WHO TEFs)	0.000001	0.0000000077	0.0000000072	0.0000000078
Inorganics-Unfiltered				
Sulfide	Not Listed	ND(1.00)	ND(1.00)	1.20
Inorganics-Filtered				
Arsenic	9	ND(0.0100) J	ND(0.0100) J	0.00195 B J
Barium	100	ND(0.500)	ND(0.500)	0.0453 B
Cadmium	0.05	ND(0.00500)	ND(0.00500)	0.00256 B J
Cobalt	Not Listed	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Lead	0.15	ND(0.0100) J	ND(0.0100) J	0.00395 B J
Selenium	1	0.00962 B J	0.00918 B J	ND(0.0200) J
Thallium	30	0.00784 B	ND(0.0100)	ND(0.0100) J
Vanadium	40	ND(0.0500)	0.00587 B	ND(0.0500)
Zinc	50	0.0154 B	0.00439 B	ND(0.0500)

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	OPCA-MW-2R 10/20-10/21/08	OPCA-MW-3 10/22/08	OPCA-MW-4 10/20/08
Volatile Organics				
1,1,1-Trichloroethane	100	0.00013 J	ND(0.0010)	ND(0.0010)
Chlorobenzene	10	ND(0.0010)	ND(0.0010)	0.00017 J
Chloroform	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	100	0.0030	ND(0.0010)	ND(0.0010)
Trichloroethene	50	ND(0.0010)	ND(0.0010)	0.0016
PCBs-Filtered				
None Detected	--	--	--	--
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	100	ND(0.0053)	ND(0.0054)	ND(0.0052)
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000036)	ND(0.0000000048)	0.0000000068 YJ
TCDFs (total)	Not Listed	ND(0.0000000036)	ND(0.0000000048)	0.00000042
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	0.000000010 J
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	0.0000000067 J
PeCDFs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000054)	0.00000027
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
HxCDFs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000054)	0.000000020
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000052)	ND(0.0000000059)	ND(0.0000000053)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000058)	ND(0.0000000076)	ND(0.0000000055)
HpCDFs (total)	Not Listed	ND(0.0000000058)	ND(0.0000000076)	ND(0.0000000055)
OCDF	Not Listed	ND(0.000000013)	ND(0.000000025)	ND(0.000000016)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000032)	ND(0.0000000043)	ND(0.0000000026)
TCDDs (total)	Not Listed	ND(0.0000000032)	ND(0.0000000043)	ND(0.0000000026)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
PeCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
HxCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000053)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000083)	ND(0.000000012)	ND(0.0000000081)
HpCDDs (total)	Not Listed	ND(0.0000000083)	ND(0.000000012)	ND(0.0000000081)
OCDD	Not Listed	ND(0.000000016)	ND(0.000000030)	ND(0.000000018)
Total TEQs (WHO TEFs)	0.000001	0.0000000077	0.0000000086	0.000000010
Inorganics-Unfiltered				
Sulfide	Not Listed	1.00	ND(1.00)	1.20
Inorganics-Filtered				
Arsenic	9	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Barium	100	0.0435 B	0.0519 B	0.0253 B
Cadmium	0.05	0.00263 B J	ND(0.00500) J	0.00276 B J
Cobalt	Not Listed	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Lead	0.15	0.00420 B J	0.00564 B J	0.00425 B J
Selenium	1	ND(0.0200) J	ND(0.0200) J	ND(0.0200) J
Thallium	30	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Vanadium	40	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	50	ND(0.0500)	ND(0.0500)	0.0135 B

Table 8
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Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	OPCA-MW-5R 10/21/08	OPCA-MW-6 10/21/08
Volatile Organics			
1,1,1-Trichloroethane	100	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene	10	0.00011 J	ND(0.0010) [ND(0.0010)]
Chloroform	100	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chloride	100	0.00022 J	ND(0.0050) [ND(0.0050)]
Tetrachloroethene	100	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichloroethene	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]
PCBs-Filtered			
None Detected	--	--	--
Semivolatile Organics			
bis(2-Ethylhexyl)phthalate	100	ND(0.0052)	ND(0.0052) [ND(0.0052)]
Furans			
2,3,7,8-TCDF	Not Listed	ND(0.0000000044)	0.0000000049 J [0.0000000058 J]
TCDFs (total)	Not Listed	0.000000018	0.000000012 [0.000000014]
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
PeCDFs (total)	Not Listed	0.0000000023	0.0000000048 [0.0000000052]
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
HxCDFs (total)	Not Listed	0.0000000020	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000057)	ND(0.0000000053) [ND(0.0000000057)]
HpCDFs (total)	Not Listed	ND(0.0000000057)	ND(0.0000000053) [ND(0.0000000057)]
OCDF	Not Listed	ND(0.000000014)	ND(0.000000014) [ND(0.000000016)]
Dioxins			
2,3,7,8-TCDD	Not Listed	ND(0.0000000033)	ND(0.0000000034) [ND(0.0000000032)]
TCDDs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000034) [ND(0.0000000032)]
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
PeCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
HxCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000052)	ND(0.0000000069) [ND(0.0000000085)]
HpCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000069) [ND(0.0000000085)]
OCDD	Not Listed	ND(0.000000015)	ND(0.000000017) [ND(0.000000019)]
Total TEQs (WHO TEFs)	0.000001	0.0000000078	0.0000000082 [0.0000000080]
Inorganics-Unfiltered			
Sulfide	Not Listed	1.00	1.40 [ND(1.00)]
Inorganics-Filtered			
Arsenic	9	ND(0.0100) J	ND(0.0100) J [0.00213 B J]
Barium	100	0.0538 B	0.0168 B [0.0169 B]
Cadmium	0.05	ND(0.00500) J	ND(0.00500) J [0.00328 B J]
Cobalt	Not Listed	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Lead	0.15	0.00657 B J	0.00641 B J [0.00718 B J]
Selenium	1	ND(0.0200) J	ND(0.0200) J [ND(0.0200) J]
Thallium	30	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Vanadium	40	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Zinc	50	0.0106 B	0.0325 B [0.0273 B]

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
Volatile Organics			
1,1,1-Trichloroethane	100	ND(0.0010)	ND(0.0010)
Chlorobenzene	10	ND(0.0010)	ND(0.0010)
Chloroform	100	ND(0.0010)	ND(0.0010)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)
Tetrachloroethene	100	ND(0.0010)	ND(0.0010)
Trichloroethene	50	ND(0.0010)	ND(0.0010)
PCBs-Filtered			
None Detected	--	--	--
Semivolatile Organics			
bis(2-Ethylhexyl)phthalate	100	ND(0.0052)	0.00087 J
Furans			
2,3,7,8-TCDF	Not Listed	ND(0.0000000033)	ND(0.000000014)
TCDFs (total)	Not Listed	ND(0.0000000033)	ND(0.000000083)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000051)	0.0000000058 J
PeCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.00000012)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000051)	ND(0.0000000052)
HxCDFs (total)	Not Listed	ND(0.0000000051)	ND(0.000000040)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000051)	ND(0.0000000093) X
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000053)	ND(0.0000000056)
HpCDFs (total)	Not Listed	ND(0.0000000053)	ND(0.0000000056)
OCDF	Not Listed	ND(0.000000014)	0.000000018 J
Dioxins			
2,3,7,8-TCDD	Not Listed	ND(0.0000000032)	ND(0.0000000029)
TCDDs (total)	Not Listed	ND(0.0000000032)	ND(0.0000000029)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
PeCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000051)	ND(0.0000000052)
HxCDDs (total)	Not Listed	ND(0.0000000051)	ND(0.0000000078)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000074)	0.000000015 J
HpCDDs (total)	Not Listed	ND(0.0000000074)	ND(0.000000015)
OCDD	Not Listed	ND(0.000000016)	0.000000086 J
Total TEQs (WHO TEFs)	0.000001	0.0000000076	0.0000000098
Inorganics-Unfiltered			
Sulfide	Not Listed	1.00 J	ND(1.00)
Inorganics-Filtered			
Arsenic	9	ND(0.0100) J	ND(0.0100) J
Barium	100	0.0368 B	0.0225 B
Cadmium	0.05	ND(0.00500) J	0.00287 B J
Cobalt	Not Listed	ND(0.0100) J	ND(0.0100) J
Lead	0.15	ND(0.0100) J	0.00427 B J
Selenium	1	ND(0.0200) J	ND(0.0200) J
Thallium	30	ND(0.0100) J	ND(0.0100) J
Vanadium	40	ND(0.0500)	ND(0.0500)
Zinc	50	0.00771 B	0.0610

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater
Groundwater Quality Interim Report for Fall 2008

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles,dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

Table 9
Proposed Spring 2009 Sampling

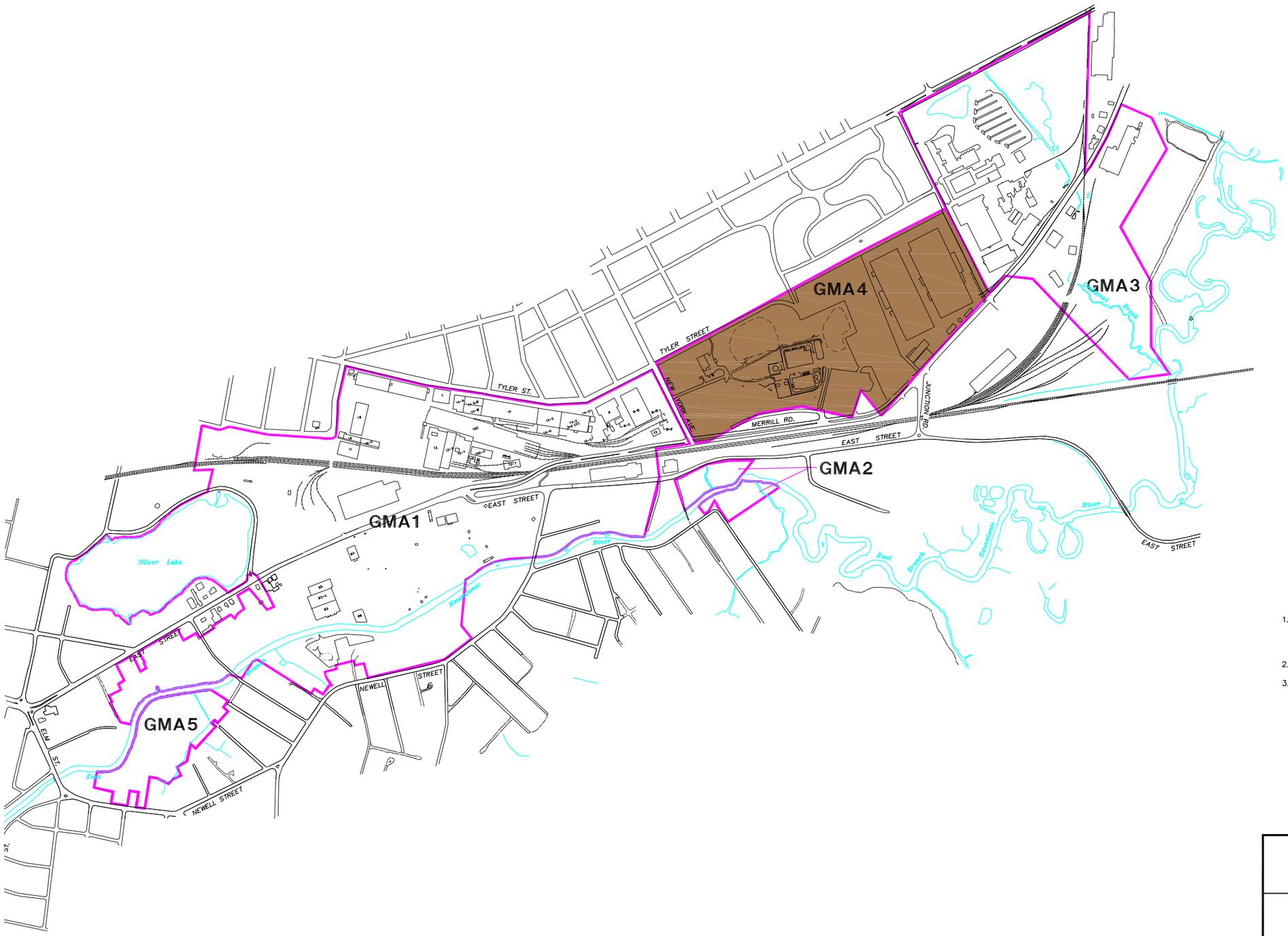
Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Current Sampling Schedule	Analyses	Basis for Inclusion/Comments
78-1	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
78-6	GW-3 Perimeter/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
GMA4-2	GW-2 Sentinel	Semi-Annual	PCB(2)	PCB analysis to evaluate compliance with new MCP GW-2 standard.
GMA4-3	GW-2 Sentinel	Semi-Annual	PCB(2)	PCB analysis to evaluate compliance with new MCP GW-2 standard.
GMA4-6	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
H78B-15	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-1RR	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-2R	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-3	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-4	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-5R	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-6	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-7	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-8	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.

Notes:
1. Appendix IX+3 analyses consists of those non-PCB constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides) plus three constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine.
2. Per the interim monitoring program protocols, analyses for PCBs, metals, and cyanide are performed on filtered samples only.

ARCADIS

Figures



LEGEND:

GMA1	GMA 1–PLANT SITE 1
GMA2	GMA 2–FORMER OXBOWS J&K
GMA3	GMA 3–PLANT SITE 2
GMA4	GMA 4–PLANT SITE 3
GMA5	GMA 5–FORMER OXBOWS A&C

GENERAL 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.

0 500' 1000'
APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

ARCADIS

FIGURE
1

NOTES:

1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.
2. ALL LOCATIONS ARE APPROXIMATE.
3. WELLS OPCA-MW-1R AND OPCA-MW-2 WERE DECOMMISSIONED IN FALL 2007. REPLACEMENT WELLS OPCA-MW-1RR AND OPCA-MW-2R WERE INSTALLED IN JULY 2008.

CONNECTICUT AVE.
CALIFORNIA AVE.
VIRGINIA AVE.
PLASTICS AVE.
TYLER STREET EXTENSION
NEW YORK AVE.
MERRILL ROAD
ALLENDALE SCHOOL
ALLENDALE SCHOOL PROPERTY
SCH-1
SCH-4
PZ-1
PZ-2
PZ-3
PZ-4
78-1
78-2
78-3
78-4
78-5R
78-6
78-7
OP-1
OP-2
BUILDING HILL 78 AND 71 OPCA (APPROXIMATE EXISTING BOUNDARY)
PARKING LOT
STORMWATER BASIN
STORMWATER BASIN
COOLING TOWER
GAS TURBINE GENERATOR BUILDING
STEAM TURBINE GENERATOR BLDG.
TANKS
SOIL STOCKPILE AREA
30" CULVERT
SWALE
SWALE A
SWALE B
SWALE C
78
78-2
73
14-E
GMA4-1
GMA4-5
GMA4-6
GMA 4-2
GMA 4-3
GMA 4-4
UB-MW-5
UB-MW-6
UB-MW-7
UB-MW-8
RF-14
RF-15
60A/B-R
NY-1
NY-2
NY-3
NY-4
ES1-6
ES1-20
H78B-8/8R
H78B-11
H78B-12
H78B-13R
H78B-15
H78B-16
H78B-17R
H78B-18
H78B-28R
OPCA-MW-1
OPCA-MW-1R
OPCA-MW-2
OPCA-MW-2R
OPCA-MW-3
OPCA-MW-4
OPCA-MW-5/5R
OPCA-MW-6
OPCA-MW-7
OPCA-MW-8
ASW-1
ASW-2
ASW-3
ASW-4
ASW-5
ASW-6

LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- H78B-15 EXISTING MONITORING WELL
- PZ-1 EXISTING WELL/PIEZOMETER MONITORED BY EPA
- H78B-28/28R DECOMMISSIONED WELL LOCATION
- ASW-4 DEEP WATER SUPPLY WELL
- GW-2 SENTINEL/COMPLIANCE WELL
- GW-3 PERIMETER WELL
- GENERAL/SOURCE AREA SENTINEL WELL (GW-3)
- OPCA GROUNDWATER MONITORING PROGRAM WELL TO BE SAMPLED SEMI-ANNUALLY
- HISTORICAL EXTENT OF LNAPL
- WELL TO BE SAMPLED ANNUALLY FOR VOCs

0 120' 240'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

SITE PLAN

ARCADIS

FIGURE
2

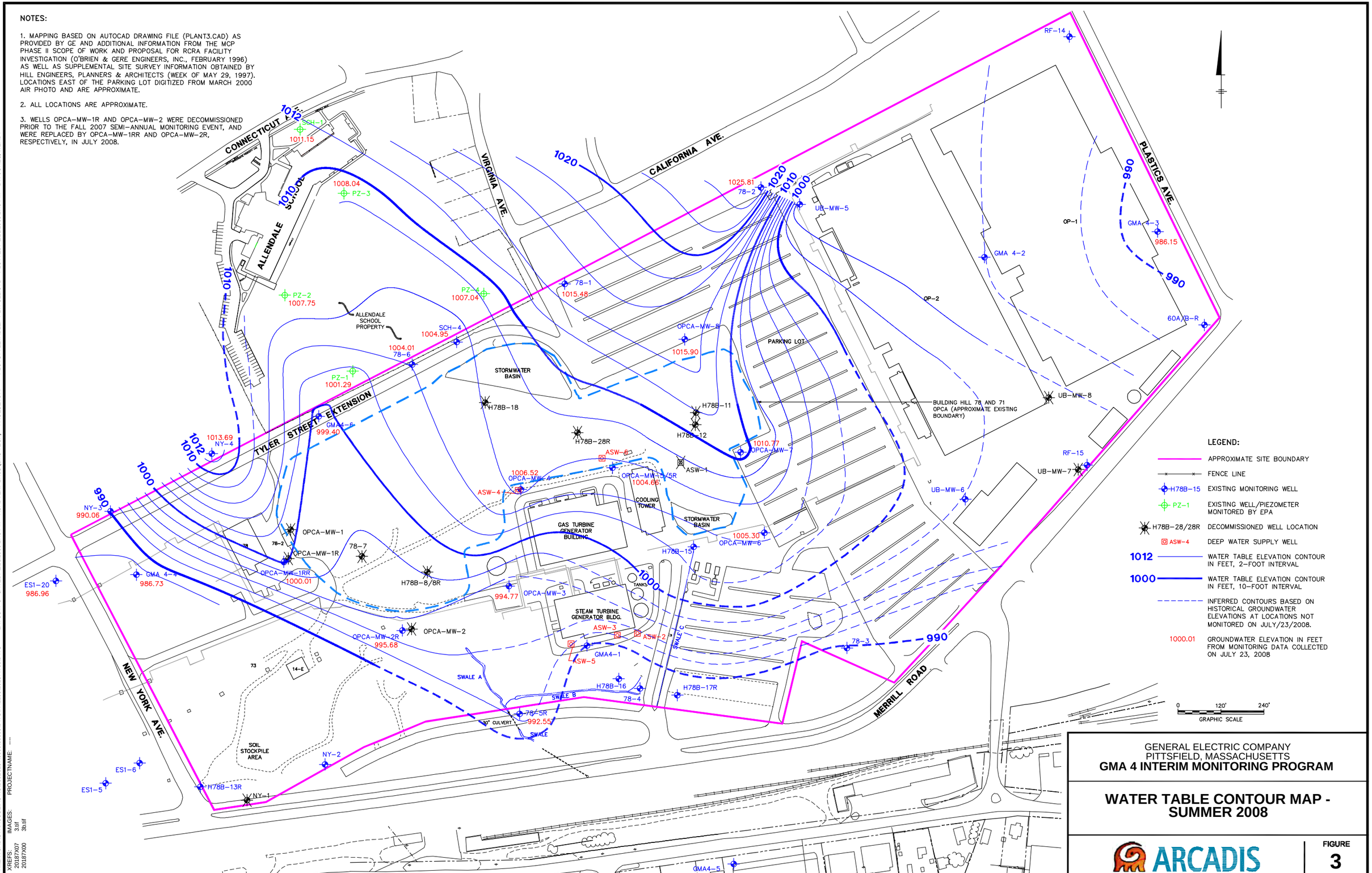
CITY: SYRACUSE, NY GROUP: ENVCAD DB: DMW WLJ RCB LD: DMW PM: R. BATES TM: R. BATES LYR: ON=*;OFF=REF; (FR2)
R:\ENVCAD\SYRACUSE\ACTIC\B0020187\0000\0000\3\DWG\FALL08\20187B04.DWG LAYOUT: 2 SAVED: 2/18/2009 11:49 AM ACADVER: 17.0S (LMS TECH)
XREFS: IMAGES: PROJECTNAME: ---
20187X07
20187X00
PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/23/2009 2:49 PM BY: JONES, WENDY

NOTES:

1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.

2. ALL LOCATIONS ARE APPROXIMATE.

3. WELLS OPCA–MW–1R AND OPCA–MW–2 WERE DECOMMISSIONED PRIOR TO THE FALL 2007 SEMI–ANNUAL MONITORING EVENT, AND WERE REPLACED BY OPCA–MW–1RR AND OPCA–MW–2R, RESPECTIVELY, IN JULY 2008.



LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- H78B–15 EXISTING MONITORING WELL
- PZ–1 EXISTING WELL/PIEZOMETER MONITORED BY EPA
- H78B–28/28R DECOMMISSIONED WELL LOCATION
- ASW–4 DEEP WATER SUPPLY WELL
- 1012 WATER TABLE ELEVATION CONTOUR IN FEET, 2–FOOT INTERVAL
- 1000 WATER TABLE ELEVATION CONTOUR IN FEET, 10–FOOT INTERVAL
- INFERRED CONTOURS BASED ON HISTORICAL GROUNDWATER ELEVATIONS AT LOCATIONS NOT MONITORED ON JULY/23/2008.
- 1000.01 GROUNDWATER ELEVATION IN FEET FROM MONITORING DATA COLLECTED ON JULY 23, 2008

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

WATER TABLE CONTOUR MAP - SUMMER 2008

ARCADIS

FIGURE 3

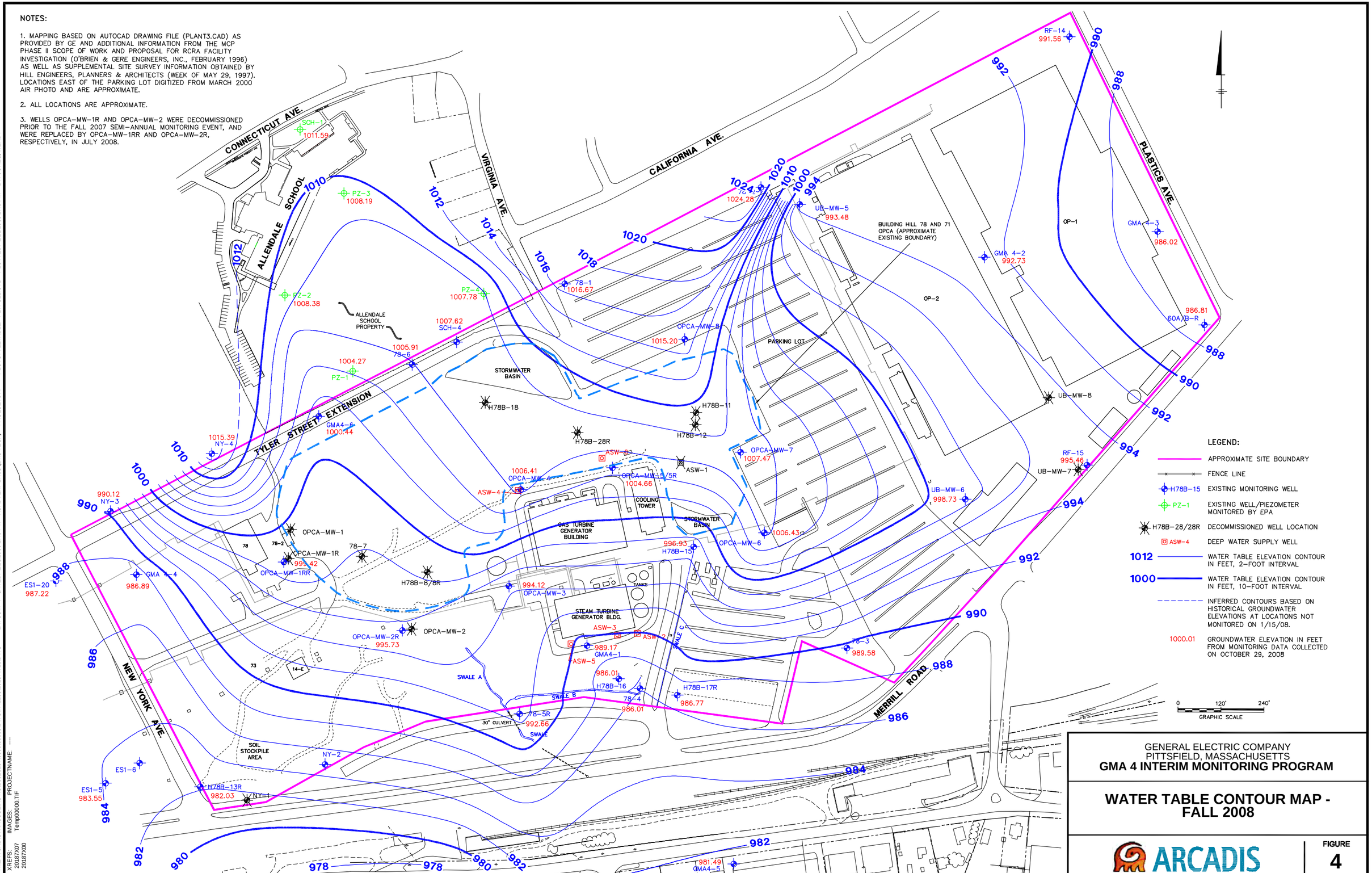
CITY:SYR DIV/GROUP:141 DB:DMW RCB LD:DMW AM: PD: TM: TR: LYRON=*OFF=*REF*
R:\ENVCAD\SYRACUSE\ACTIC\B0020187\0000\0000003\DWG\FALL08\20187W09.DWG LAYOUT: 3 SAVED: 2/23/2009 2:43 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/23/2009 2:45 PM BY: JONES, WENDY
XREFS: 20187X07 20187X00
IMAGES: 3.tif 3b.tif
PROJECTNAME: ---

NOTES:

1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.

2. ALL LOCATIONS ARE APPROXIMATE.

3. WELLS OPCA-MW-1R AND OPCA-MW-2 WERE DECOMMISSIONED PRIOR TO THE FALL 2007 SEMI-ANNUAL MONITORING EVENT, AND WERE REPLACED BY OPCA-MW-1RR AND OPCA-MW-2R, RESPECTIVELY, IN JULY 2008.



LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- H78B-15 EXISTING MONITORING WELL
- PZ-1 EXISTING WELL/PIEZOMETER MONITORED BY EPA
- H78B-28/28R DECOMMISSIONED WELL LOCATION
- ASW-4 DEEP WATER SUPPLY WELL
- 1012 WATER TABLE ELEVATION CONTOUR IN FEET, 2-FOOT INTERVAL
- 1000 WATER TABLE ELEVATION CONTOUR IN FEET, 10-FOOT INTERVAL
- INFERRED CONTOURS BASED ON HISTORICAL GROUNDWATER ELEVATIONS AT LOCATIONS NOT MONITORED ON 1/15/08.
- 1000.01 GROUNDWATER ELEVATION IN FEET FROM MONITORING DATA COLLECTED ON OCTOBER 29, 2008

0 120' 240'
GRAPHIC SCALE

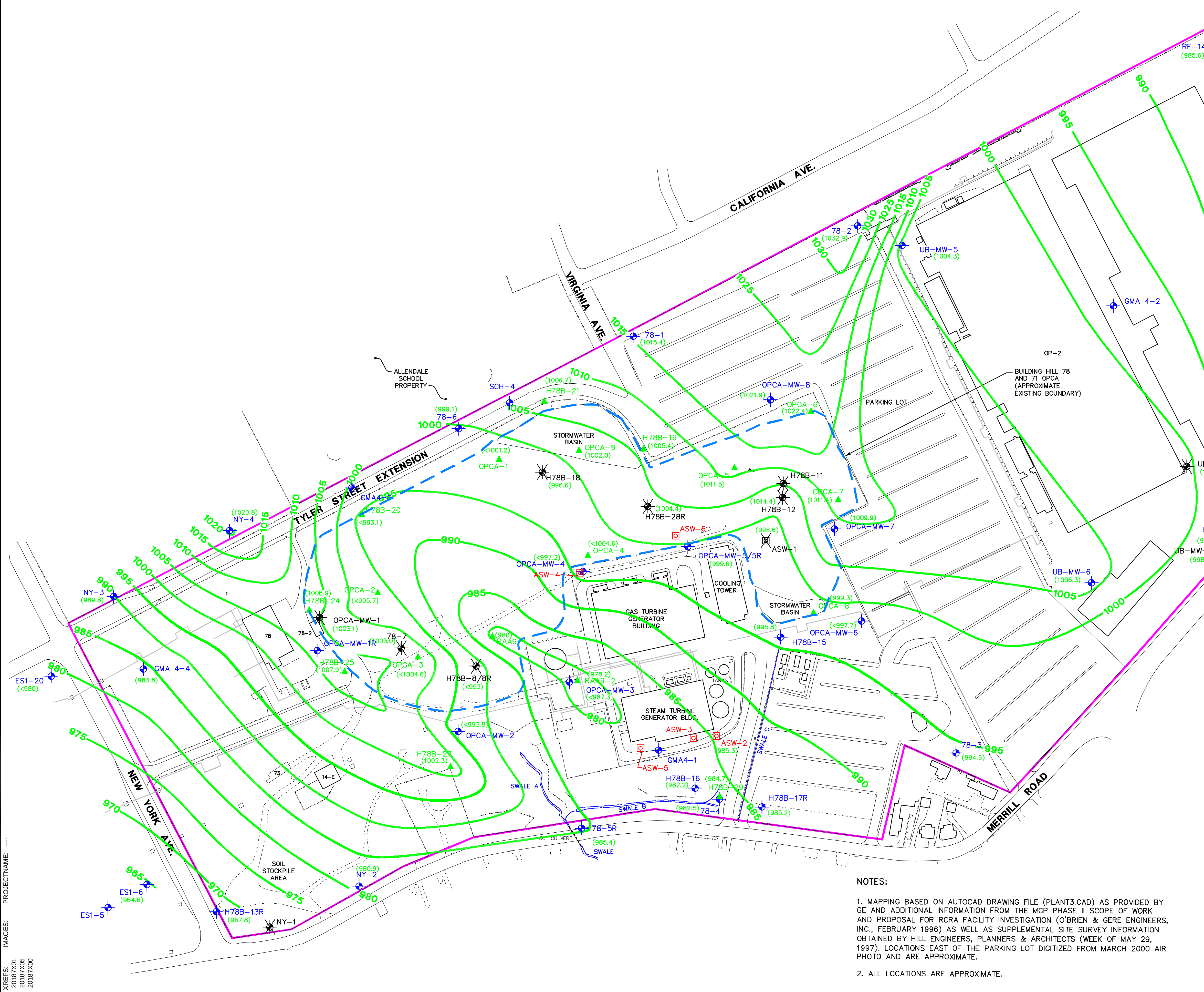
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

WATER TABLE CONTOUR MAP - FALL 2008

ARCADIS

FIGURE 4

CITY:SYR DIV/GROUP:141 DB:DMW RCB LD:DMW AM: PD: TM: TR: LYR:ON=*;OFF=*REF*
R:\ENVCAD\SYRACUSE\ACTIC\B0020187\000000003\DWG\FALL08\20187W10.DWG LAYOUT: 4 SAVED: 2/23/2009 2:46 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ----
XREFS: 20187X07 20187X00
IMAGES: PROJECTNAME: Temp000000.TIF



LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- H78B-15 EXISTING MONITORING WELL
- ASW-4 DEEP WATER SUPPLY WELL
- H78B-12 OR ASW-1 DECOMMISSIONED WELL LOCATION
- OPCA-8 EXISTING SOIL BORING LOCATION
- (995.8) TOP OF TILL ELEVATION IN FEET
- (<993) THE TILL UNIT WAS NOT ENCOUNTERED WITHIN THE TOTAL DEPTH OF THE BORING. THE ELEVATION GIVEN WITH A LESS THAN SIGN (<) IS THE ELEVATION OF THE BASE OF BORING AND THE TOP OF TILL UNIT IS INTERPRETED TO BE BELOW THAT DEPTH.
- 995 TOP OF TILL ELEVATION CONTOUR LINE IN FEET WATER TABLE ELEVATION IN FEET

NOTES:

1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.
2. ALL LOCATIONS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

TOP OF TILL CONTOUR MAP

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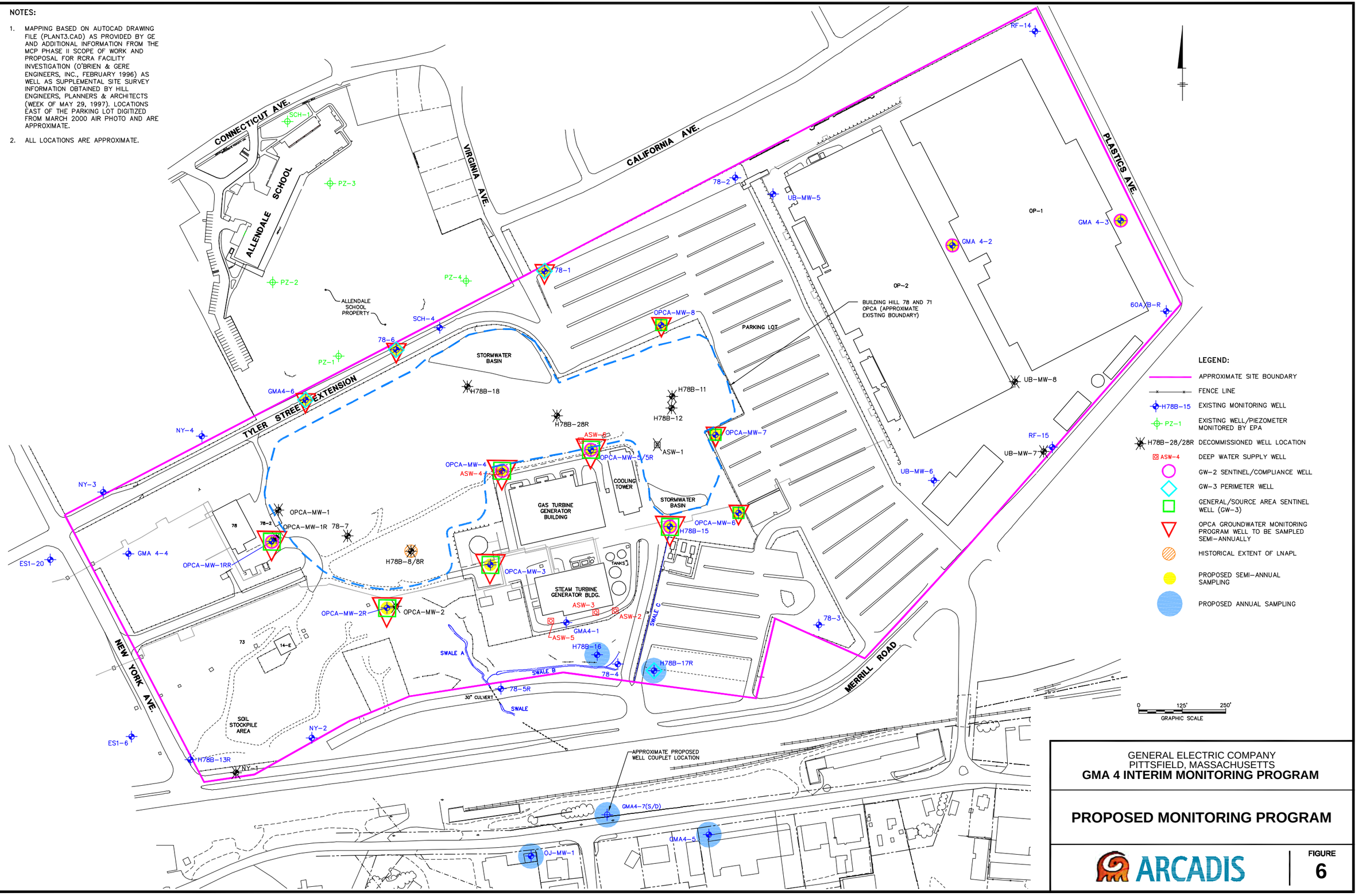
FIGURE 5

NOTES:

1. MAPPING BASED ON AUTOCAD DRAWING FILE (PLANT3.CAD) AS PROVIDED BY GE AND ADDITIONAL INFORMATION FROM THE MCP PHASE II SCOPE OF WORK AND PROPOSAL FOR RCRA FACILITY INVESTIGATION (O'BRIEN & GERE ENGINEERS, INC., FEBRUARY 1996) AS WELL AS SUPPLEMENTAL SITE SURVEY INFORMATION OBTAINED BY HILL ENGINEERS, PLANNERS & ARCHITECTS (WEEK OF MAY 29, 1997). LOCATIONS EAST OF THE PARKING LOT DIGITIZED FROM MARCH 2000 AIR PHOTO AND ARE APPROXIMATE.
2. ALL LOCATIONS ARE APPROXIMATE.



LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCE LINE
- H78B-15 EXISTING MONITORING WELL
- PZ-1 EXISTING WELL/PIEZOMETER MONITORED BY EPA
- H78B-28/28R DECOMMISSIONED WELL LOCATION
- ASW-4 DEEP WATER SUPPLY WELL
- GW-2 SENTINEL/COMPLIANCE WELL
- GW-3 PERIMETER WELL
- GENERAL/SOURCE AREA SENTINEL WELL (GW-3)
- OPCA GROUNDWATER MONITORING PROGRAM WELL TO BE SAMPLED SEMI-ANNUALLY
- HISTORICAL EXTENT OF LNAPL
- PROPOSED SEMI-ANNUAL SAMPLING
- PROPOSED ANNUAL SAMPLING

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 4 INTERIM MONITORING PROGRAM

PROPOSED MONITORING PROGRAM

ARCADIS

FIGURE
6

CITY: SYRACUSE GROUP: ENV-141 DB: DMW PGL RCB LD: DMW PM: R. BATES LYR:ON=*;OFF=REF
R:\ENV\CAD\SYRACUSE\ACTIVE\B0020187\0000\0003\DWG\FALL08\20187B05.DWG LAYOUT: 6 SAVED: 2/23/2009 3:41 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ----
XREFS: 20187X07 20187X00 IMAGES: PROJECTNAME: ----

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Appendices

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Appendix A

Groundwater Elevation/NAPL Monitoring Data – Fall 2008

Table A-1
Fall 2008 Groundwater Elevation Data

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet AMSL)	Date	Depth to Water (ft BMP)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Groundwater Elevation (feet AMSL)
060B-R	1,002.79	10/28/2008	16.02	0.00	0.00	986.77
060B-R	1,002.79	10/29/2008	15.98	0.00	0.00	986.81
78-1	1,026.32	7/23/2008	10.84	0.00	0.00	1,015.48
78-1*	1,026.32	10/23/2008	11.67	0.00	0.00	1,011.65
78-1	1,026.32	10/29/2008	9.65	0.00	0.00	1,016.67
78-2	1,033.96	7/23/2008	8.15	0.00	0.00	1,025.81
78-2	1,033.96	10/29/2008	9.68	0.00	0.00	1,024.28
78-3	1,007.13	10/31/2008	17.55	0.00	0.00	989.58
78-4	998.55	10/29/2008	12.54	0.00	0.00	986.01
78-5R	997.36	10/29/2008	4.70	0.00	0.00	992.66
78-6	1,012.00	7/23/2008	7.99	0.00	0.00	1,004.01
78-6*	1,012.00	10/22/2008	8.45	0.00	0.00	1,003.55
78-6	1,012.00	10/29/2008	6.09	0.00	0.00	1,005.91
GMA4-1	1,012.35	10/29/2008	23.18	0.00	0.00	989.17
GMA4-2	1,006.22	10/6/2008	13.59	0.00	0.00	992.63
GMA4-2*	1,006.22	10/22/2008	13.41	0.00	0.00	993.08
GMA4-2	1,006.22	10/29/2008	13.49	0.00	0.00	992.73
GMA4-3	1,003.95	7/23/2008	17.80	0.00	0.00	986.15
GMA4-3	1,003.95	8/26/2008	17.71	0.00	0.00	986.24
GMA4-3	1,003.95	9/15/2008	17.93	0.00	0.00	986.02
GMA4-3	1,003.95	10/6/2008	18.05	0.00	0.00	985.90
GMA4-3*	1,003.95	10/22/2008	18.16	0.00	0.00	985.79
GMA4-3	1,003.95	10/28/2008	17.98	0.00	0.00	985.97
GMA4-3	1,003.95	10/29/2008	17.93	0.00	0.00	986.02
GMA4-3	1,003.95	11/26/2008	17.60	0.00	0.00	986.35
GMA4-3	1,003.95	12/16/2008	16.91	0.00	0.00	987.04
GMA4-4	999.64	7/23/2008	12.91	0.00	0.00	986.73
GMA4-4	999.64	10/29/2008	12.75	0.00	0.00	986.89
GMA4-6	1,009.12	7/23/2008	9.72	0.00	0.00	999.40
GMA4-6*	1,009.12	10/23/2008	9.68	0.00	0.00	999.44
GMA4-6	1,009.12	10/29/2008	8.68	0.00	0.00	1,000.44
H78B-13R	992.93	10/29/2008	10.90	0.00	0.00	982.03
H78B-15*	1,012.68	10/23/2008	15.75	0.00	0.00	996.93
H78B-15	1,012.68	10/29/2008	14.54	0.00	0.00	998.14
H78B-16	999.33	10/29/2008	13.32	0.00	0.00	986.01
H78B-17R	1,000.31	10/29/2008	13.54	0.00	0.00	986.77

Table A-1
Fall 2008 Groundwater Elevation Data

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet AMSL)	Date	Depth to Water (ft BMP)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Groundwater Elevation (feet AMSL)
NY-3	1,005.49	7/23/2008	15.43	0.00	0.00	990.06
NY-3	1,005.49	10/29/2008	15.37	0.00	0.00	990.12
NY-4	1,024.24	7/23/2008	10.55	0.00	0.00	1,013.69
NY-4	1,024.24	10/29/2008	8.85	0.00	0.00	1,015.39
OPCA-MW-1RR	1,016.42	7/16/2008	17.02	0.00	0.00	999.40
OPCA-MW-1RR	1,016.42	7/23/2008	16.41	0.00	0.00	1,000.01
OPCA-MW-1RR*	1,016.42	10/20/2008	18.32	0.00	0.00	998.10
OPCA-MW-1RR	1,016.42	10/29/2008	17.00	0.00	0.00	999.42
OPCA-MW-2R	1,018.84	7/16/2008	23.28	0.00	0.00	995.56
OPCA-MW-2R	1,018.84	7/23/2008	23.16	0.00	0.00	995.68
OPCA-MW-2R*	1,018.84	10/20/2008	23.47	0.00	0.00	995.37
OPCA-MW-2R	1,018.84	10/29/2008	23.11	0.00	0.00	995.73
OPCA-MW-3	1,014.83	7/23/2008	20.06	0.00	0.00	994.77
OPCA-MW-3*	1,014.83	10/22/2008	20.70	0.00	0.00	994.13
OPCA-MW-3	1,014.83	10/29/2008	20.71	0.00	0.00	994.12
OPCA-MW-4	1,018.67	7/23/2008	12.15	0.00	0.00	1,006.52
OPCA-MW-4*	1,018.67	10/20/2008	12.63	0.00	0.00	1,006.04
OPCA-MW-4	1,018.67	10/29/2008	12.26	0.00	0.00	1,006.41
OPCA-MW-5R	1,016.34	7/23/2008	11.68	0.00	0.00	1,004.66
OPCA-MW-5R*	1,016.34	10/21/2008	12.63	0.00	0.00	1,003.71
OPCA-MW-5R	1,016.34	10/29/2008	11.68	0.00	0.00	1,004.66
OPCA-MW-6	1,022.31	7/23/2008	17.01	0.00	0.00	1,005.30
OPCA-MW-6*	1,022.31	10/21/2008	18.50	0.00	0.00	1,003.81
OPCA-MW-6	1,022.31	10/29/2008	15.88	0.00	0.00	1,006.43
OPCA-MW-7	1,026.57	7/23/2008	15.80	0.00	0.00	1,010.77
OPCA-MW-7*	1,026.57	10/21/2008	18.83	0.00	0.00	1,007.74
OPCA-MW-7	1,026.57	10/29/2008	19.10	0.00	0.00	1,007.47
OPCA-MW-8	1,027.40	7/23/2008	11.50	0.00	0.00	1,015.90
OPCA-MW-8*	1,027.40	10/22/2008	12.75	0.00	0.00	1,014.65
OPCA-MW-8	1,027.40	10/29/2008	12.20	0.00	0.00	1,015.20
RF-14	1,001.59	10/28/2008	10.11	0.00	0.00	991.48
RF-14	1,001.59	10/29/2008	10.03	0.00	0.00	991.56
RF-15	1,011.80	10/29/2008	16.34	0.00	0.00	995.46
SCH-4	1,014.05	7/23/2008	9.10	0.00	0.00	1,004.95
SCH-4	1,014.05	10/29/2008	6.43	0.00	0.00	1,007.62
UB-MW-5	1,006.06	10/29/2008	12.58	0.00	0.00	993.48
UB-MW-6	1,019.79	10/29/2008	21.06	0.00	0.00	998.73

Table A-1
Fall 2008 Groundwater Elevation Data

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet AMSL)	Date	Depth to Water (ft BMP)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Groundwater Elevation (feet AMSL)
Allendale School Property Monitoring Wells/Piezometers						
PZ-1	1,005.60	7/23/2008	4.31	0.00	0.00	1,001.29
PZ-1	1,005.60	10/29/2008	1.33	0.00	0.00	1,004.27
PZ-2	1,009.89	7/23/2008	2.14	0.00	0.00	1,007.75
PZ-2	1,009.89	10/29/2008	1.51	0.00	0.00	1,008.38
PZ-3	1,010.43	7/23/2008	2.39	0.00	0.00	1,008.04
PZ-3	1,010.43	10/29/2008	2.24	0.00	0.00	1,008.19
PZ-4	1,007.96	7/23/2008	0.92	0.00	0.00	1,007.04
PZ-4	1,007.96	10/29/2008	0.18	0.00	0.00	1,007.78
SCH-1	1,017.11	7/23/2008	5.96	0.00	0.00	1,011.15
SCH-1	1,017.11	10/29/2008	5.52	0.00	0.00	1,011.59
East Street Area 2 - North (Groundwater Management Area 1)						
ES1-20	1,001.56	7/23/2008	14.60	0.00	0.00	986.96
ES1-20	1,001.56	10/29/2008	14.34	0.00	0.00	987.22
Commercial Street Site - adjacent to GMA 4						
GMA4-5	993.34	10/29/2008	11.85	0.00	0.00	981.49

Notes:
1. ft AMSL - feet Above Mean Sea Level.
2. ft BMP - feet Below Measuring Point.
3. * Data taken during fall 2008 sampling round.

Table A-2
Fall 2008 Housatonic River Stage Information - Coltsville Station

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts

Date	Maximum Elevation (feet AMSL)	Minimum Elevation (feet AMSL)	Comments
20-Oct	994.20	994.16	Fall 2008 Sampling Round
21-Oct	994.24	994.17	Fall 2008 Sampling Round
22-Oct	994.38	994.21	Fall 2008 Sampling Round
23-Oct	994.40	994.36	Fall 2008 Sampling Round
29-Oct	995.80	995.60	Fall 2008 Semi-Annual Monitoring
30-Oct	995.60	995.30	
31-Oct	995.32	995.15	Fall 2008 Semi-Annual Monitoring

Notes:
1. feet AMSL - feet Above Mean Sea Level.
2. Data obtained from the USGS Housatonic River gauging station located on right bank 250 ft downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi upstream from Unkamet Brook, and 2 mi northeast of Pittsfield.
3. Wells were sampled at GMA 4 October 20-23, 2008.
4. The fall 2008 semi-annual monitoring took place on October 29 and 31, 2008.

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Appendix B

Field Sampling Data

Table B-1
Groundwater Sampling Methods

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Type of Pump	Average Fall Depth to Water (ft-bgs)	Depth to Till (ft-bgs)	Well Screen Interval (ft-bgs)	Approximate Pump Intake Placement [1] (ft-bgs)
78-1	Peristaltic	11.9	12	8-23	14
78-6	Peristaltic	9.2	13	3-18	12
GMA4-6	Peristaltic	8.9	>13	3-13	11
H78B-15	Peristaltic	11.3	14	6-16	14
H78B-16	Peristaltic	8.7	14	4-14	12
H78B-17R	Bladder	12.2	14	14.3-23.5	20
OPCA-MW-1RR	Peristaltic	8.3	28	18-28	23
OPCA-MW-2R	Bladder	16.4	>23	10-25	17.5
OPCA-MW-3	Bladder	21.0	>28	18-28	25
OPCA-MW-4	Peristaltic	13.4	>22	12-22	17
OPCA-MW-5R	Peristaltic	12.8	17	11.25-21.25	17
OPCA-MW-6	Submersible	18.6	>25	15-25	22
OPCA-MW-7	Peristaltic	19.6	18	14-24	18
OPCA-MW-8	Bladder	13.1	7	13.5-23.5	19

NOTE:

1. Pump intake is generally placed at the center of the saturated well screen in a typical 10-foot screen length well that intersects the water table. Modifications may be required when the water table is above the top of the well screen, for wells with saturated screened lengths greater than 10 feet, and for wells screened across the till interface. The five pump placement categories for GMA 4 are listed below. If the actual depth to water varies significantly from the average values provided above, the pump intake depth is re-assessed in the field and placed accordingly.

Mid-Column Well screen straddles water table and is placed entirely above or below till interface, and less than 10 feet of water is typically present. Therefore, pump intake is located at mid-point between water surface and base of well.

Mid-Screen: Well screen is positioned below the water table and is placed entirely above or below till interface. Therefore, pump intake is to be located at mid-point of the well screen.

<5 ft Below Water Table: Well screen straddles water table and is placed entirely above or below till interface, and greater than 10 feet of water is typically present. Therefore, the pump intake is located five feet or less below the water surface.

Above Till Interface: Well screen crosses till interface and water table is present above till surface. Therefore, pump intake is located just above till interface to facilitate pumping from more permeable upper unit.

Near Till Interface: Well screen crosses till interface and water table is present near till surface. Therefore, pump intake is to be located just above till interface (if sufficient water is present), or as close to till interface as possible if water levels draw down to below that depth during pumping.

Table B-2
Summary Of Historical Groundwater Sampling Methods

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Sampling Method													
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Spring 2005	Fall 2005	Spring 2006	Fall 2006	Spring 2007	Fall 2007	Spring 2008	Fall 2008
78-1	PP/BA	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2002: Water became more turbid during sample collection.													
78-6	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2007: Lowered tubing as water level dropped, adjusted flow through cell/YSI setup while filling Fall 2002: PCDD/F sample bottle was damaged during shipment (re-collected next day).													
GMA4-2	PP/BA	PP	PP	PP	NS	NS	NS	NS	NS	NS	NS	NS	NS	BP
	Spring 2004: Well removed from program after completion of baseline monitoring program. Fall 2008: Well added back into program to evaluate compliance with new MCP GW-2 standard for PCBs.													
GMA4-3	PP/BA	PP	PP	PP	NS	NS	NS	NS	NS	NS	NS	NS	NS	BP
	Spring 2004: Well removed from program after completion of baseline monitoring program. Fall 2008: Well added back into program to evaluate compliance with new MCP GW-2 standard for PCBs.													
GMA4-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	PP	PP	PP	PP	PP
	Fall 2006: Initiated sampling after installation in spring 2006.													
H78B-15	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2007: Tubing dropped to just off bottom of well Spring 2006: SVOC sample not collected. Fall 2002: Turbidity meter malfunction. Samples visually clear.													
OPCA-MW-1/ OPCA-MW-1R/ OPA-MW-1RR	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	NS	PP
	Spring 2005: pH meter malfunctioned, corrected in field and recalibrated. Spring 2008: Not sampled due to well decomissioned during sewer re-rerouting project. OPCA-MW-1RR installed summer 2008.													
OPCA-MW-2/ OPCA-MW-2R	PP/BA	BP	BP	BP	BP	BP	BP	BP	BP	BP	PP	BP	NS	PP
	Fall 2007: Water level probe hits top of bladder pump Spring 2003: Bladder pump to be used instead of submersible pump. Fall 2002: Very low flow rate needed to maintain water levels. Spring 2008: Not sampled due to well decomissioned during sewer re-rerouting project. OPCA-MW-2R installed summer 2008.													
OPCA-MW-3	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
OPCA-MW-4	PP	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2002: Well dried during sample collection. Sampling completed after recharge.													
OPCA-MW-5R	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	BP	PP
	Fall 2002: Well dried during purging. Sample collected after recharge.													
OPCA-MW-6	PP/BA	PP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
	Fall 2007: Not enough water in well to operate bladder pump, switched to geopump Spring 2003: Proposed to use a submersible pump; however, the depth to water allowed for the use of a bladder pump. Fall 2002: Very low flow rate needed to maintain water levels (two days needed to collect samples).													

Table B-2
Summary Of Historical Groundwater Sampling Methods

Groundwater Management Area 4
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Sampling Method													
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Spring 2005	Fall 2005	Spring 2006	Fall 2006	Spring 2007	Fall 2007	Spring 2008	Fall 2008
OPCA-MW-7	PP/BA	NS	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2007: Well went dry multiple times, sampled over multiple day period Fall 2006: Extended tubing length to near bottom after water level went below 19.5', well purged dry Spring 2006: Water level dropping during purging. Pump lowered approx. 1 foot to complete sampling. Fall 2005: Well ran dry during purging. Several visits over six different days were required to collect the appropriate sample volume for each parameter Fall 2002: Well dry - no sample collected.													
OPCA-MW-8	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
	Fall 2007: Pump off due to battery. Well went dry, sampled after recharging the following day.													

NOTES:

1. BP - Bladder Pump
2. PP - Peristaltic Pump
3. BA - Bailer
4. PP/BA - Peristaltic Pump with bailer used for VOC sample collection
5. NS - Not Sampled

GROUNDWATER SAMPLING LOG

Well No. 78-1
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA 4
Sampling Personnel ~~DB~~ DA / EMC
Date 10/23/08
Weather Sunny - HIGH 40's

WELL INFORMATION

Reference Point Marked? Y (N)
Height of Reference Point ____ Meas. From ____
Well Diameter 4"
Screen Interval Depth 8-23' Meas. From TIC
Water Table Depth 11.67 Meas. From TIC
Well Depth 23.16 Meas. From TIC
Length of Water Column 10.49
Volume of Water in Well 6.84 gallons
Intake Depth of Pump/Tubing 16.91 Meas. From TIC

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

Redevelop? Y (N)

Sample Time 14:20
Sample ID 78-1
Duplicate ID ____
MS/MSD 78-1 MS / 78-1 MSD
Split Sample ID ____

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

EVACUATION INFORMATION

Pump Start Time 13:20
Pump Stop Time 16:20
Minutes of Pumping 180
Volume of Water Removed ~~8.5~~ 8.5 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS # 03M0230AE
HACH 2100P # 46580-00

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]*
13:20	150	Initial	~~11.80~~	—	—	—	4	—	—
13:25	180	750	11.91	13.87	5.68	0.832	3	4.48	305.8
13:30	"	1650	11.98	13.95	6.50	0.855	3	0.70	230.8
13:35	"	2550	12.01	14.07	6.52	0.857	3	0.58	203.8
13:40	"	3450	12.10	14.13	6.46	0.861	2	0.54	183.6
13:45	"	4350	12.20	14.14	6.49	0.865	2	0.22	163.2
13:50	"	5250	12.30	14.18	6.49	0.869	2	0.21	149.7
13:55	"	6150	12.40	14.23	6.53	0.873	2	0.16	137.2

* 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 - clear - ~~No odor~~ (Sl) Light odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. 78-1

Site/GMA Name GMA 4

Sampling Personnel FMC/DA

Date 10/23/08

Weather Sunny - High 40's

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]*
14:00	180	6900	12.40	14.22	6.52	0.876	2	0.15	126.2
14:05	180	7800	12.47	14.29	6.52	0.877	2	0.14	119.8
14:10	"	8700	12.61	14.27	6.52	0.880	2	0.13	110.8
14:13	"	9600	12.77	14.29	6.54	0.881	2	0.12	105.8
14:16	"	10500	12.87	14.27	6.53	0.883	2	0.13	101.1
	SAMPLE								

* 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 Final purge - clear - slight odor

GROUNDWATER SAMPLING LOG

Well No. 78-6
Key No. N/A
PID Background (ppm) N/A
Well Headspace (ppm) N/A

Site/GMA Name GMA 4
Sampling Personnel K.C. / D.Z.
Date 10/22/08
Weather Cold & 37°F Overcast

WELL INFORMATION

Reference Point Marked? Y (N)
Height of Reference Point ___ Meas. From BLS
Well Diameter 4"
Screen Interval Depth 8-23 Meas. From BLS
Water Table Depth 8.45 Meas. From TIC
Well Depth 17.17 Meas. From TIC
Length of Water Column 8.72
Volume of Water in Well ~~13.94~~ 5.69 gallons
Intake Depth of Pump/Tubing 12.8' Meas. From TIC

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

Redevelop? (Y) N

Sample Time 1545
Sample ID 78-6
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1430
Pump Stop Time 1625
Minutes of Pumping 115
Volume of Water Removed 5.70 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS (#3), HACH 2100P Turb.

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]*
1440	200	~~0.53~~	8.45				82		
1443		0.69					86		
1446		0.85					88		
1449	180	~~0.99~~	9.12				74		
1452		1.14					71		
1455		1.28					65		
1458	180	1.42	9.15				67		
1501		1.56					64		

* 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
Footbridge: 10/21/08
10/22/08
Slight odor & Cloudy

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

C:\WORKGEO\[illegible]

GROUNDWATER SAMPLING LOG

Well No. 78-b

Site/GMA Name GMA-4
Sampling Personnel D.Z. / K.C.
Date 10/22/09
Weather cold 37°F overcast

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]*
1504		1.50	9.17				58		
1507		1.85					57		
1510		1.99					49		
1515	210	2.27	9.18	14.25	6.96	2.128	45	1.02	-61.2
1520		2.54		13.91	6.87	2.130	39	0.34	-74.3
1525		2.82	9.19	13.96	6.85	2.092	41	0.26	-85.4
1530		3.10		14.04	6.85	2.070	36	0.22	-85.4
1533		3.27	9.19	13.95	6.85	2.068	36	0.34	-82.3
1536	180	3.41		13.91	6.86	2.056	33	0.25	-78.0
1539		3.56		13.88	6.84	2.026	28	0.17	-54.8
1542		3.70	9.20	13.99	6.82	2.016	26	0.16	-48.0
1545		3.84		13.97	6.83	2.010	28	0.18	-50.0
Sampled @ 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

GROUNDWATER SAMPLING LOG

Well No. GMW4-2
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMW4
Sampling Personnel SMC
Date 10/22/08
Weather 42°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -3" Meas. From Ground
Well Diameter 2"
Screen Interval Depth 9.59-19.59 Meas. From TIC
Water Table Depth 13.41 Meas. From TIC
Well Depth 19.40 Meas. From TIC
Length of Water Column 5.99
Volume of Water in Well ~~0.98~~ 0.98 gallons
Intake Depth of Pump/Tubing 16.40 Meas. From TIC

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

Redevelop? Y (N)

Sample Time 13:05
Sample ID GMW4-2
Duplicate ID —
MS/MSD —
Split Sample ID —

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 11:30
Pump Stop Time 13:10
Minutes of Pumping 100
Volume of Water Removed ~~3.2~~ 3.2 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 ~~03~~ # 03C0392 AE
ft TIC + 2400 P = 46500-00

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]*
11:30	150	~~750~~	14.05	10.99	7.62	1.954	42	11.26	-158.8
11:35	125	750	14.15	9.71	7.81	2.084	46	11.40	-12.8
11:40	125	1375	14.10	9.78	7.71	2.110	32	10.50	-154.2
11:45	"	2000	14.32	10.04	7.67	2.118	47	10.63	-169.9
11:50	"	2625	14.25	9.91	7.67	2.150	43	10.36	-174.2
11:55	"	3250	14.25	9.60	7.74	2.099	40	11.11	-138.5
12:00	"	3875	"	9.61	7.73	2.113	38	11.08	-149.7
12:05	"	4500	"	9.40	7.66	2.121	37	11.08	-151.7

* 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 - turbid, no odor

SAMPLE DESTINATION

Laboratory: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. CMW4-2

Site/GMA Name GMA 1

Sampling Personnel SMC

Date 10/22/08

Weather Overcast, mid 50's

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]*
12:10	125	5125	14.25	9.14	7.63	2.125	38	11.10	-152.1
12:15	"	5750	14.35	9.07	7.63	2.129	36	11.07	-152.9
12:20	"	6375	14.25	9.03	7.64	2.135	32	11.10	-153.0
12:25	"	7000	14.25	8.72	7.64	2.160	27	11.18	-166.1
12:30	"	7625	"	8.73	7.65	2.161	26	10.89	-170.6
12:35	"	8250	"	8.66	7.65	2.154	24	10.86	-172.3
12:40	"	8875	"	8.75	7.67	2.135	25	10.17	-172.2
12:45	100	9500	14.05	11.55	7.68	2.123	27	9.83	-170.3
12:50	"	10000	"	11.80	7.70	2.097	28	9.48	-169.3
12:55	"	10500	"	11.61	7.71	2.086	24	9.22	-176.5
13:00	"	11000	"	11.54	7.71	2.100	24	8.67	-171.3
	SAMPLE								

* 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. GMW4-3
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMW4
Sampling Personnel DRA
Date 10/22/08
Weather Sunny, 35°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 16.09-26.0 Meas. From Ground
Water Table Depth 18.16 Meas. From TIC
Well Depth 26.20 Meas. From TIC
Length of Water Column 8.04
Volume of Water in Well 1.31 gallons
Intake Depth of Pump/Tubing 22' Meas. From TIC

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

Redevelop? Y (N)

Sample Time ~~GMW4-3~~ 12:30
Sample ID GMW4-3
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	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 10:40
Pump Stop Time 12:40
Minutes of Pumping 120
Volume of Water Removed ~~3.8 mL~~ 2.75 gallons
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 #4, Hach 2100P

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]*
10:40	100mL	—	18.16	-	-	-	20	-	-
10:45	150mL	0.20	18.16	-	-	-	-	-	-
10:50	150mL	0.40	18.16	10.06	7.19	0.525	~~5.06~~ 19	3.06	154.9
10:55	125mL	0.57	18.16	10.26	7.23	0.533	26	5.95	148.5
11:00	125mL	0.74	18.16	10.26	7.23	0.539	25	5.88	142.3
11:05	100mL	0.87	18.16	10.12	7.29	0.540	46	5.16	137.3
11:10	100mL	1.00	18.16	9.61	7.26	0.540	56	5.99	134.8
11:15	100mL	1.14	18.16	8.78	7.25	0.541	52	6.03	131.9

* 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 Initial purge slightly turbid, no odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

C:\WORK\QEG\Groundwater\554198\Attachment\D-2

GROUNDWATER SAMPLING LOG

Well No. GMAH-3

Site/GMA Name GMAH
Sampling Personnel ORA
Date 10/22/03
Weather Sunny, 35°

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]*
11:20	100 mL	1.27	18.16	8.88	7.26	0.539	50	5.85	127.9
11:25	75 mL	1.37	18.16	8.58	7.27	0.540	49	6.03	123.5
11:30	75 mL	1.47	18.16	7.98	7.25	0.539	45	6.02	121.6
11:35	75 mL	1.57	18.16	7.50	7.24	0.539	49	6.24	120.7
11:40	75 mL	1.67	18.16	6.91	7.24	0.539	49	6.35	117.4
11:45	FLOW THROUGH CELL CLEANED DUE TO TURBIDITY READINGS								~~119~~
11:55	75 mL	1.86	18.16	6.67	7.26	0.538	47	6.08	119.0
12:00	75 mL	1.96	18.16	6.51	7.26	0.538	46	6.06	116.5
12:05	75 mL	2.06	18.16	6.40	7.23	0.539	39	6.21	118.3
12:10	75 mL	2.16	18.16	6.45	7.23	0.538	35	5.95	118.1
12:15	75 mL	2.26	18.16	6.41	7.23	0.537	27	6.01	117.3
12:18	75 mL	2.32	18.16	6.50	7.23	0.539	25	5.99	116.9
12:21	75 mL	2.38	18.16	6.43	7.25	0.537	19	5.98	117.2
12:24	75 mL	2.44	18.16	6.60	7.28	0.538	20	5.93	116.5
12:27	75 mL	2.50	18.16	6.59	7.27	0.538	19	5.98	116.2

* 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

GROUNDWATER SAMPLING LOG

Well No. GMA4-6
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4
Sampling Personnel EMC / D.A
Date 10/23/08
Weather Sunny - 40°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -.5" Meas. From Ground
Well Diameter 2"
Screen Interval Depth 3-13' Meas. From TIC
Water Table Depth 9.68 Meas. From TIC
Well Depth 12.45 Meas. From TIC
Length of Water Column 2.77
Volume of Water in Well 0.45
Intake Depth of Pump/Tubing 11.06 Meas. From TIC

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

Redevelop? Y (N)

Sample Time 11:20
Sample ID GMA4-6
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 10:30
Pump Stop Time ~~12:05~~ 12:05
Minutes of Pumping ~~95~~ 95
Volume of Water Removed ~~3750~~ 3750 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS # 03M0230AC
1 HACH 2100P # 46500-00

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]*
10:30	150	~~976~~	9.76	—	—	—	13	—	—
10:35	"	750	9.78	12.85	6.76	1.216	7	3.71	105.0
10:40	"	1500	9.79	13.03	6.73	1.228	5	0.51	99.2
10:45	"	2250	9.79	13.12	6.71	1.234	3	0.29	95.1
10:50	"	3000	9.79	13.33	6.96	1.233	3	0.23	90.5
10.55	"	3750	9.79	13.39	6.75	1.235	2	0.19	87.6
11.00	"	4500	9.79	13.42	6.62	1.234	2	0.16	84.7
11:05	"	5250	9.79	13.44	6.75	1.239	2	0.16	83.1

* 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, no odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. GMW4-6

Site/GMA Name GMA 4
Sampling Personnel EMC/DA
Date 10/23/08
Weather Sunny - Mid 40's

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]*
11:10	150	6000	9.79	13.46	6.74	1.240	2	0.16	81.8
11:15	150	6750	9.79	13.48	6.75	1.240	2	0.14	80.1
	SAMPLE								

* 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 Final purge - clear, no odor

GROUNDWATER SAMPLING LOG

Well No. H88-15
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4 GE Pittsfield
Sampling Personnel EIC / DAZ
Date 10/23/08
Weather Sunny high 30's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point —
Meas. From —
Well Diameter 0.75"
Screen Interval Depth 5-16
Meas. From Ground
Water Table Depth 15.75
Meas. From TIC
Well Depth 15.30
Meas. From TIC
Length of Water Column 2.45
Volume of Water in Well 0.06 gallon
Intake Depth of Pump/Tubing 17.0'
Meas. From TIC

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

Redevelop? Y N

Sample Time 1130
Sample ID H88B-15
Duplicate ID —
MS/MSD —
Split Sample ID —

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

Sulfide

EVACUATION INFORMATION

Pump Start Time 1025
Pump Stop Time 1240
Minutes of Pumping 135
Volume of Water Removed 3.60 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]*
1035	110	0.15	15.75	—	—	—	36	—	—
1040	↓	0.44	—	10.94	6.61	1641		5.52	19.0
1050		0.73	—	11.63	6.61	1.603	(6)	6.37	0.1
1055	↓	0.88	—	11.62	6.53	1.603	(4)	5.63	-4.1
1100	100	1.01	—	11.73	6.51	1.603	3	5.17	-9.8
1105	↓	1.14	—	12.25	6.50	1.599	3	5.00	-13.1
1110		1.28	—	12.54	6.50	1.598	5	4.92	-14.4
1115	↓	1.41	—	12.75	6.45	1.663	9	4.96	-17.3

* 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

* Connected flow through cell @ 1030. First Reading @ 1040, Refitted flow through cell Due to leaking @ 1041 first sample collected @ 1050

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. +76B-15

Site/GMA Name GMA-4
Sampling Personnel D. Fuch
Date 10/23/06
Weather Clear 57°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]*
1118	100	1.49	–	12.90	6.45	1.663	4	4.91	-16.9
1121	100	1.57	–	13.42	6.44	1.663	5	4.93	-18.2
1124	100	1.65	–	13.79	6.47	1.666	5	4.87	-18.1
1127	100	1.73	–	13.53	6.53	1.681	5	4.84	-21.0

* 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. OPCA-MW-1RR
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4 GE Pittsfield
Sampling Personnel KIC, DAZ
Date 10/30/08
Weather high 30's sunny

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 18-28 Meas. From Ground
Water Table Depth 18.32 Meas. From TIC
Well Depth 28.09 Meas. From TIC
Length of Water Column 9.77'
Volume of Water in Well 1.59 gallons
Intake Depth of Pump/Tubing ~23' Meas. From TIC

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

Redevelop? Y N

Sample Time 15:25
Sample ID OPCA-MW-1RR
Duplicate ID —
MS/MSD —
Spill Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1415
Pump Stop Time 15:50
Minutes of Pumping 95
Volume of Water Removed 8.0 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]*
1418	320	0.25 ~~8.36~~	18.36	—	—	—	153	—	—
1420	320	0.42 ~~8.39~~	18.39	—	—	—	104	—	—
1425	320	0.8 ~~18.64~~	18.64	14.91	7.79	1.428	33	0.59	-66.5
1430	~~320~~ 500	1.27 ~~18.75~~	18.75	14.70	7.63	1.437	22	0.49	-65.9
1435	~~500~~ 320	1.69	18.90	14.63	7.48	1.436	16	0.58	-62.4
1440	~~500~~ 320	2.12	18.97	14.77	7.56	1.443	12	0.68	-69.1
1445	~~500~~ 320	2.54	18.99	14.62	7.46	1.445	14	0.65	-64.8
1450	~~500~~ 320	2.96	19.09	14.64	7.44	1.446	13	0.62	-62.3

* 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: (flow through cell) Solid bottom, initial purge clear, no odor. 1420 inhaled YSI to clean out sediment, 1425, hooked up YSI and flow through cell.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-1RR

Site/GMA Name GMA-4
Sampling Personnel D. Zack / K. Cormell
Date 10/20/05
Weather Sunny 50°

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	320	3.38	19.15	14.57	7.43	1.450	9	0.57	-56.9
1500	320	3.81	19.17	14.51	7.41	1.452	7	0.51	-58.9
1505	↓	4.23	19.23	14.54	7.58	1.438	8	0.43	-82.4
1510		4.65	19.27	14.58	7.54	1.437	8	0.43	-70.3
1515		5.07	19.29	14.52	7.44	1.437	8	0.40	-64.0
1520	↓	5.50	19.32	14.56	7.44	1.436	7	0.38	-63.3
1525	———	———	→	Sampled					

* 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. OPOA-MW-2
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 6 (PHS Reid)
Sampling Personnel KIC / DAZ
Date 10/20/09
Weather 50's, sunny

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ~~AMA~~ 2.5' Meas. From BLS
Well Diameter 2"
Screen Interval Depth 25 >10' Meas. From BLS
Water Table Depth 23.47 Meas. From TIC
Well Depth 27.15 Meas. From TIC
Length of Water Column 3.68 x.16=
Volume of Water in Well 0.60 gallons
Intake Depth of Pump/Tubing 25.5 Meas. From TIC

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

Redevelop? Y N

Sample Time 1755 (10/20) 1410 @ 10/2
Sample ID OPOA-MW-2R
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X) 10/20
( )	VOCs (Exp. list)	( )
(X)	SVOCs	(Y) 10/21
( )	PCBs (Total)	( )
(X)	PCBs (Dissolved)	(X) 10/21
( )	Metals/Inorganics (Total)	( )
(X)	Metals/Inorganics (Dissolved)	(X) 10/20
( )	EPA Cyanide (Dissolved)	( )
(X)	PAC Cyanide (Dissolved)	(X) 10/20
(X)	PCDDs/PCDFs	(Y) 10/21
( )	Pesticides/Herbicides	( )
( )	Natural Attenuation	( )
(X)	Other (Specify) SulFide	(X) 10/20

EVACUATION INFORMATION

Pump Start Time 1605
Pump Stop Time —
Minutes of Pumping 145
Volume of Water Removed 6.60 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

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]*
1608	220	0.17	23.78	—	—	—	85	—	—
1610		0.29	24.16	—	—	—	62	—	—
* 1615		0.58	24.31	—	—	—	47	—	—
1620		0.87	24.45	13.06	7.00	1.142	16	0.99	-22.1
1625		1.16	24.68	13.01	7.01	1.151	15	0.92	-37.8
1630		1.45	24.87	12.96	6.87	1.162	12	1.07	-39.1
1635	↓	1.74	25.02	12.94	6.99	1.200	13	1.09	-36.6
1640	200	2.00	25.23	12.94	7.04	1.333	19	0.77	-64.8

* 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

* Hooked up flow through cell 1640. lowered the tubing in

SAMPLE DESTINATION

Laboratory: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-2R

Site/GMA Name GMA-4

Sampling Personnel D. Zyn / K. Cornwell

Date 10/20/08

Weather P/C - 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]*
1645	200	2.26	25.34	13.05	7.07	1.314	13	0.82	-55.0
1650	—	~~2.55~~	25.46	12.90	7.03	1.315	13	0.75	~~-55.1~~ -45.5
1655		2.80	25.61	12.81	7.04	1.333	15	0.61	-46.2
1658	200	2.96	25.70	12.80	7.06	1.339	16	0.56	-47.4
1701	—	3.12	25.61	12.80	7.06	1.346	29	0.51	-51.1
1704	—	3.28	25.91	12.77	7.06	1.358	33	0.50	-51.9
1707	200	3.43	25.95	12.78	7.07	1.367	29	0.52	-56.4
1710	—	3.59	26.00	12.68	7.04	1.376	41	0.44	-57.0
1713	—	3.75	26.08	12.60	7.02	1.383	55	0.41	-66.1
1716	100	3.83	26.21	12.53	7.02	1.390	71	0.37	-68.4
1729		4.12	26.31	12.51	6.84	1.429	34	0.64	-67.8
1732		4.20	26.30	12.46	6.83	1.428	20	0.55	-68.2
1735		4.28	26.25	12.46	6.84	1.426	14	0.60	-67.3
1738		4.36	26.27	12.36	6.83	1.424	14	0.55	-66.6
1741		4.44	26.24	12.30	6.84	1.421	16	0.55	-63.0
1744		4.52	26.22	12.25	6.83	1.423	14	0.51	-65.7
1747		4.60	26.21	12.21	6.83	1.422	9	0.51	-65.3
1750		4.67	26.20	12.18	6.82	1.421	8	0.55	-64.8
1753		4.75	26.19	12.18	6.82	1.421	9	0.52	-64.0
1755	→			Sampled @ 1755					
10/21/08 1410	200			15.71	7.00	1.431	3	2.76	-34.5

* 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

* Flow through cell bypassed out, then refilled after flow rate change.

* Sampled PCBs / PCDDs / PCDFs + SVOCs @ 10/21/08 @ 1345

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-3
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name OPCA
Sampling Personnel GMC/DA
Date 10/22/08
Weather Cloudy - Low 50's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -5.5" Meas. From Grnd
Well Diameter 2"
Screen Interval Depth 18-28 Meas. From TIC
Water Table Depth 20.70 Meas. From TIC
Well Depth 27.33 Meas. From TIC
Length of Water Column 6.63
Volume of Water in Well 1.08
Intake Depth of Pump/Tubing 24.01 Meas. From TIC

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

Redevelop? Y (N)

Sample Time 15:10
Sample ID OPCA-MW-3
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 14:30
Pump Stop Time ~~15:09~~ 16:40
Minutes of Pumping ~~37~~ 130
Volume of Water Removed ~~2.46~~ ~~3.69~~ 3.0 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 MPS 556 # 03M0230AC
HACH 2100P 4650-00

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]*
14:30	125	Initial	20.75	—	—	—	39	—	—
14:35	125	625	20.83	—	—	—	421	—	—
14:40	125	1250	20.98	—	—	—	25	—	—
14:45	"	1875	21.05	10.93	6.57	0.645	19	3.81	114.6
14:50	75	2250	21.12	11.08	6.54	0.650	12	0.84	115.9
14:55	75	2625	21.20	11.23	6.52	0.646	8	0.65	114.4
14:58	75	3000	21.21	11.39	6.52	0.639	6	0.61	111.4
15:01	75	3375	21.26	11.48	6.54	0.632	5	0.52	109.2

* 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 - no odor

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-3

Site/GMA Name OPCA
Sampling Personnel EMC/DH
Date 10/22/08
Weather Overcast Low 50's

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]*
15:04	75	3750	21.29	11.58	6.54	0.625	4	0.55	106.6
15:07	75	4125	21.32	11.57	6.53	0.622	4	0.51	105.0
	SAMPLE								

* 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 Field page: No color.

GROUNDWATER SAMPLING LOG

Well No. ~~GMA4~~ OPCA-MW-4
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4
Sampling Personnel EMC / DM
Date 10/20/08
Weather Sunny - 58°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -.7" Meas. From GROUND
Well Diameter 2"
Screen Interval Depth 12-22 Meas. From TIC
Water Table Depth 12.63 Meas. From TIC
Well Depth ~~25.58~~ 25.58 Meas. From TIC
Length of Water Column 12.75
Volume of Water in Well 2.08 gallons
Intake Depth of Pump/Tubing 19.0 Meas. From TIC

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

Redevelop? Y (N)

Sample Time 15:15
Sample ID OPCA-MW-4
Duplicate ID N/A
MS/MSD ~~OPCA-MW-4MS/OPCA-MW-4MSD~~
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 13:40
Pump Stop Time 15:15
Minutes of Pumping 95
Volume of Water Removed ~~3.5~~ 4.4 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS # 06J0394AE
HACH 2100P # 46500-00

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	175	Initial	12.96	—	—	—	28	—	—
13:45	"	875	13.11	14.06	6.75	1.178	25	11.70	-151.7
13:50	175	1750	13.28	14.15	6.96	1.177	19	7.99	-156.9
13:55	"	2625	13.38	14.12	6.98	1.180	15	6.64	-158.2
14:00	"	3500	13.62	14.19	6.97	1.173	7	6.96	-160.2
14:05	"	4375	13.91	14.22	6.95	1.161	4	6.95	-163.4
14:10	"	5250	14.21	14.22	6.95	1.157	3	1.64	-165.7
14:15	"	6125	14.49	14.19	6.94	1.156	3	1.56	-166.1

* 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, no odor

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-4

Site/GMA Name GMA 4

Sampling Personnel EMC/DM

Date 10/20/08

Weather Sunny - 60°

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]*
14:20	175	7000	14.61	14.14	6.98	1.156	3	1.28	-168.8
14:25	"	7875	14.72	14.12	6.94	1.155	3	1.23	-164.8
14:30	"	8750	17.80	14.10	6.94	1.151	3	1.16	-171.5
~~14:35~~ (EC)	~~"~~	~~9625~~							
~~14:40~~ (EC)	~~"~~	~~10500~~							
14:35	- SAMPLE								

* 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 Final Purge - clear, no odor.

GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-5R
Key No.
PID Background (ppm)
Well Headspace (ppm)

Site/GMA Name GM174
Sampling Personnel EMC/DA
Date 10/21/08
Weather PC 46°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -3 Meas. From GROUND
Well Diameter 2 in
Screen Interval Depth 11.25 - 21.25 Meas. From TIC
Water Table Depth 12.63 Meas. From TIC
Well Depth 24.51 Meas. From TIC
Length of Water Column 11.88
Volume of Water in Well 1.93
Intake Depth of Pump/Tubing 18.57' Meas. From TIC

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

Redevelop? Y (N)

Sample Time 11:45
Sample ID OPAC-MW-5R
Duplicate ID N/A
(Y) MS/MSD ~~OPAC-MW-5R MS / OPAC-MW-5R MSD~~
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 10:10
Pump Stop Time 15:00
Minutes of Pumping ~~1 hrs 50 min~~ 290
Volume of Water Removed ~~2.77~~ 9.5 gallons
Did Well Go Dry? (Y) ~~(N)~~

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS # 03M0230AC
HACH 2100P 46500-00

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]*
10:10	125	INITIAL	12.59	—	—	—	20	—	—
10:15	"	625	13.13	12.52	6.43	0.540	17	0.88	-6.2
10:20	"	1250	13.30	12.71	6.51	0.520	14	0.85	-13.7
10:25	"	1875	13.46	12.94	6.45	0.578	12	0.96	-11.0
10:30	"	2500	13.62	13.02	6.49	0.692	9	1.28	-6.6
10:35	"	3125	13.91	13.29	6.65	0.784	8	1.52	-5.1
10:40	"	3750	14.06	13.36	6.69	0.884	7	1.81	-0.5
10:45	"	4375	14.27	13.28	6.74	0.933	6	2.09	1.8

* 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 - clear, no odor. Final purge - clear, no odor. Well ran dry. Unable to complete QA/QC. QA/QC will be taken from another well.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-5R

Site/GMA Name GMA 4

Sampling Personnel EMC / DA

Date 10/21/08

Weather P/C - RAIN ; 55°

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]*
10:50	125	5000	14.61	13.05	6.63	0.971	5	2.63	6.2
10:55	"	5625	14.70	13.42	6.70	0.965	4	1.83	7.1
11:00	"	6250	14.81	13.63	6.73	0.968	4	1.45	6.6
11:05	"	6875	15.05	13.44	6.74	0.975	4	1.10	1.0
11:10	"	7500	15.29	13.34	6.65	0.980	4	0.88	1.0
11:15	"	8125	15.54	13.13	6.64	0.977	4	0.60	0.0
11:20	"	8750	15.70	13.28	6.81	0.965	4	0.38	-3.1
11:25	"	9375	15.81	12.92	6.56	0.952	4	0.31	-0.5
11:30	"	10000	15.96	12.80	6.59	0.950	4	0.20	-1.8
11:35	"	10625	16.07	12.55	6.60	0.962	4	0.17	2.5
11:40	"	11250	16.27	12.64	6.62	0.974	4	0.15	7.1
SAMPLE									

* 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 Final purge - clear - no odor

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA4 GE Pittsfield
Sampling Personnel KC/DAZ
Date 10/21/08
Weather 40s raing

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 15-25 Meas. From Ground
Water Table Depth 18.5 Meas. From TIC
Well Depth 23.9 Meas. From TIC
Length of Water Column 5.4'
Volume of Water in Well 0.88 gallons
Intake Depth of Pump/Tubing ~21.5 Meas. From TIC

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

Redevelop? (Y) N

Sample Time 1120
Sample ID OPCA-MW-6
Duplicate ID GMA4 DUP 01
MS/MSD —
Split Sample ID —

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

Sulfide.

EVACUATION INFORMATION

Pump Start Time 1015
Pump Stop Time 1210
Minutes of Pumping 115
Volume of Water Removed 4.0 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 Turbidimeter

Time	Pump Rate (mL/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]*
1020	60	0.08	18.71	—	—	—	492	—	—
1025	140	0.26	18.82	—	—	—	237	—	—
1030	120	0.42	18.79	—	—	—	138	—	—
1035	90	0.54	18.80	—	—	—	71	—	—
1038	140	0.65	18.85	—	—	—	51	—	—
1043	145	0.84	18.80	10.48	7.11	0.576	22	4.26	-71.2
1048	145	1.03	18.89	10.66	7.07	0.572	18	2.98	-71.1
1053	145	1.22	18.89	10.68	7.07	0.569	12	2.73	-68.8

* 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 clear, pump became clogged with organic material, pulled up pump freed clog. Initial purge had slight methane odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

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GROUNDWATER SAMPLING LOG

Well No. OPRA-MW-60

Site/GMA Name GMA4 GE Pittsfield

Sampling Personnel KJC / DAZ

Date 10/2/08

Weather 60's 30's Overcast

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]*
1058	145	1.41	18.91	10.74	7.09	0.568	7	2.79	-66.5
1103	140	1.59	18.91	10.71	7.10	0.567	6	2.76	-67.6
1108	1.35	1.77	18.91	10.63	7.09	0.567	5	2.68	-66.9
1113	↓	1.95	18.91	10.60	7.09	0.567	3	2.76	-66.4
1116	↓	2.06	18.92	10.52	7.09	0.567	3	2.60	-65.4
1119	↓	2.17		10.67	7.09	0.565	2	2.79	-64.9
1120	Sampled	@		1120					

KJC.

* 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. OPCA-MW-37
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4 GE Pittsfield
Sampling Personnel KLC/DAZ
Date 10/21/08
Weather 40's, rainy

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 14'-24' Meas. From Ground
Water Table Depth 18.83 Meas. From TIC
Well Depth 23.60 Meas. From TIC
Length of Water Column 4.77'
Volume of Water in Well 0.78 gallon
Intake Depth of Pump/Tubing ~21.00 Meas. From TIC

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

Redevelop? Y N

Sample Time 1545
Sample ID OPCA-MW-8
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1450
Pump Stop Time 1645
Minutes of Pumping 115
Volume of Water Removed 3.25 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]*
* 1455	120	0.16	18.91	—	—	—	43	—	—
1505	100	0.42	19.35	13.67	6.72	2.080	16	3.26	-13.8
1510	100	0.55	19.62	13.52	6.70	2.060	12	2.55	-26.0
1515		0.68	19.75	13.47	6.71	2.035	8	2.58	-28.6
1520		0.81	19.81	13.56	6.70	2.027	6	2.21	-35.7
1525		0.95	19.93	13.76	6.69	2.086	5	2.07	-42.7
1530		1.08	20.04	13.83	6.69	2.139	5	2.01	-44.2
1535	↓	1.21	20.21	13.83	6.68	2.207	4	1.99	-44.3

* 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

* hooked up through flow thru cell.
* Samples are effervescing in HCl.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-7

Site/GMA Name GMA4-GE Pittsfield
Sampling Personnel KIC/DAZ
Date 10/21/09
Weather 40s rainy

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~~1538	100	1.29	20.31	13.83	6.68	2.225	4	1.99	-44.6
1541	100	1.37	20.48	13.84	6.67	2.241	4	1.97	-44.6
				Sampled @ 1545 (FD)					

* 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. OPCA-MW-8
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA4 GE Pittsfield
Sampling Personnel KIC/DAZ
Date 10/22/08
Weather 30s, snow

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter 2"
Screen Interval Depth 13.5-23.5 Meas. From Ground
Water Table Depth 12.75 Meas. From TIC
Well Depth 21.80 Meas. From TIC
Length of Water Column 9.05'
Volume of Water in Well 1.48 gallons
Intake Depth of Pump/Tubing 18.5' Meas. From TIC

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

Redevelop? (Y) N

Sample Time 1240
Sample ID OPCA-MW-8
Duplicate ID —
MS/MSD —
Split Sample ID —

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

•SURR

EVACUATION INFORMATION

Pump Start Time 1100
Pump Stop Time 1320
Minutes of Pumping 140
Volume of Water Removed 5.5 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 (#3), HACH 2100P turb

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	0-20	13.64	—	—	—	252	—	—
1110	/	0-40	13.73	—	—	—	310	—	—
1115	/	0.59	/	—	—	—	160	—	—
1120	/	0.79	13.75	—	—	—	107	—	—
1125	/	0.99	13.71	—	—	—	49	—	—
1135	100	1.42	13.68	10.03	7.58	0.821	27	5.87	29.2
1140	/	1.25	13.73	10.19	7.59	0.828	19	5.26	2.1
1145	/	1.39	13.77	9.98	7.62	0.847	15	5.52	-10.4

* 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 brown/cloudy no odor
* connected to flow through cell @ 1125, first reading @ 1135

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

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GROUNDWATER SAMPLING LOG

Well No. OPCA-MW-8

Site/GMA Name GE Pittsfield / GMA-4
Sampling Personnel KIC / DAZ
Date 10/22/08
Weather 30°s, snow

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]*
1150	100	1.52	13.82	10.11	7.60	0.854	21	5.38	-19.2
1155	100	1.65	13.89	9.93	7.60	0.856	10	5.37	-22.0
1200	100	1.78	14.01	11.43	7.61	0.846	12	5.55	-22.9
1205	185	2.02	14.29	12.30	7.67	0.858	8	5.23	-25.1
1210	|	2.27	14.50	12.39	7.68	0.875	7	5.38	-25.0
1215	|	2.51	14.68	12.59	7.69	0.876	6	5.33	-28.6
1220	|	2.76	14.89	12.39	7.68	0.882	5	5.18	-27.0
1225	|	3.00	15.08	12.63	7.67	0.888	5	5.38	-27.6
1230	|	3.25	15.21	12.81	7.68	0.889	5	5.00	-29.1
1233	|	3.40	15.39	12.87	7.68	0.889	4	4.99	-29.4
1236	|	3.54	15.51	12.83	7.67	0.891	3	4.90	-29.6
1239	↓	3.69	15.59	12.79	7.67	0.895	3	4.83	-30.7
1240 ~~1300~~	Sampled @ 1300								

* 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

ARCADIS

Appendix C

Groundwater Analytical Results – Fall 2008

Table C-1
Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 10/22/08	GMA4-2 10/22/08	GMA4-3 10/22/08
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,1,2,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,1,2-Trichloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	NA	NA
1,2,3-Trichloropropane	ND(0.0010)	ND(0.0010)	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.0050) J	ND(0.0050) J	NA	NA
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	NA	NA
1,2-Dichloroethane	ND(0.0010)	ND(0.0010)	NA	NA
1,2-Dichloropropane	ND(0.0010)	ND(0.0010)	NA	NA
1,4-Dioxane	ND(0.10) J	ND(0.10) J	NA	NA
2-Butanone	ND(0.0050) J	ND(0.0050) J	NA	NA
2-Chloro-1,3-butadiene	ND(0.0010)	ND(0.0010)	NA	NA
2-Chloroethylvinylether	R	ND(0.013) J	NA	NA
2-Hexanone	ND(0.0050) J	ND(0.0050) J	NA	NA
3-Chloropropene	ND(0.0010)	ND(0.0010)	NA	NA
4-Methyl-2-pentanone	ND(0.0050)	ND(0.0050)	NA	NA
Acetone	ND(0.0050) J	ND(0.0050) J	NA	NA
Acetonitrile	ND(0.020) J	ND(0.020) J	NA	NA
Acrolein	ND(0.025) J	ND(0.025) J	NA	NA
Acrylonitrile	ND(0.025) J	ND(0.025) J	NA	NA
Benzene	ND(0.0010)	ND(0.0010)	NA	NA
Bromodichloromethane	ND(0.0010)	ND(0.0010)	NA	NA
Bromoform	ND(0.0010)	ND(0.0010)	NA	NA
Bromomethane	ND(0.0010)	ND(0.0010)	NA	NA
Carbon Disulfide	ND(0.0010)	ND(0.0010)	NA	NA
Carbon Tetrachloride	ND(0.0010)	ND(0.0010)	NA	NA
Chlorobenzene	ND(0.0010)	ND(0.0010)	NA	NA
Chloroethane	ND(0.0010)	ND(0.0010)	NA	NA
Chloroform	ND(0.0010)	ND(0.0010)	NA	NA
Chloromethane	ND(0.0010)	ND(0.0010)	NA	NA
cis-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	NA	NA
Dibromochloromethane	ND(0.0010)	ND(0.0010)	NA	NA
Dibromomethane	ND(0.0010)	ND(0.0010)	NA	NA
Dichlorodifluoromethane	ND(0.0010)	ND(0.0010)	NA	NA
Ethyl Methacrylate	ND(0.0010)	ND(0.0010)	NA	NA
Ethylbenzene	ND(0.0010)	ND(0.0010)	NA	NA
Iodomethane	ND(0.0010)	ND(0.0010)	NA	NA
Isobutanol	ND(0.050) J	ND(0.050) J	NA	NA
Methacrylonitrile	ND(0.010)	ND(0.010)	NA	NA
Methyl Methacrylate	ND(0.0010)	ND(0.0010)	NA	NA
Methylene Chloride	ND(0.0050)	ND(0.0050)	NA	NA
Propionitrile	ND(0.020) J	ND(0.020) J	NA	NA
Styrene	ND(0.0010)	ND(0.0010)	NA	NA
Tetrachloroethene	ND(0.0010)	ND(0.0010)	NA	NA
Toluene	ND(0.0010)	ND(0.0010)	NA	NA
trans-1,2-Dichloroethene	ND(0.0010)	ND(0.0010)	NA	NA
trans-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	NA	NA
trans-1,4-Dichloro-2-butene	ND(0.0050) J	ND(0.0050) J	NA	NA
Trichloroethene	ND(0.0010)	ND(0.0010)	NA	NA
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	NA	NA
Vinyl Acetate	ND(0.0025)	ND(0.0025)	NA	NA
Vinyl Chloride	ND(0.0010)	ND(0.0010)	NA	NA
Xylenes (total)	ND(0.0010)	ND(0.0010)	NA	NA
Total VOCs	ND(0.10)	ND(0.10)	NA	NA

Table C-1
Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 10/22/08	GMA4-2 10/22/08	GMA4-3 10/22/08
PCBs-Filtered				
Aroclor-1016	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1221	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1232	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1242	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1248	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1254	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Aroclor-1260	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Total PCBs	ND(0.00010) J	ND(0.00010)	ND(0.00010)	ND(0.00011)
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,2,4-Trichlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,2-Dichlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,2-Diphenylhydrazine	ND(0.0051)	ND(0.0051)	NA	NA
1,3,5-Trinitrobenzene	ND(0.026)	ND(0.026)	NA	NA
1,3-Dichlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,3-Dinitrobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,4-Dichlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
1,4-Naphthoquinone	ND(0.0051)	ND(0.0051)	NA	NA
1-Naphthylamine	ND(0.026)	ND(0.026)	NA	NA
2,3,4,6-Tetrachlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2,4,5-Trichlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2,4,6-Trichlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2,4-Dichlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2,4-Dimethylphenol	ND(0.0051)	ND(0.0051)	NA	NA
2,4-Dinitrophenol	ND(0.026)	ND(0.026)	NA	NA
2,4-Dinitrotoluene	ND(0.0051)	ND(0.0051)	NA	NA
2,6-Dichlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2,6-Dinitrotoluene	ND(0.0051)	ND(0.0051)	NA	NA
2-Acetylaminofluorene	ND(0.010)	ND(0.010)	NA	NA
2-Chloronaphthalene	ND(0.0051)	ND(0.0051)	NA	NA
2-Chlorophenol	ND(0.0051)	ND(0.0051)	NA	NA
2-Methylnaphthalene	ND(0.0051)	ND(0.0051)	NA	NA
2-Methylphenol	ND(0.0051)	ND(0.0051)	NA	NA
2-Naphthylamine	ND(0.026)	ND(0.026)	NA	NA
2-Nitroaniline	ND(0.0051)	ND(0.0051)	NA	NA
2-Nitrophenol	ND(0.0051)	ND(0.0051)	NA	NA
2-Picoline	ND(0.0051)	ND(0.0051)	NA	NA
3&4-Methylphenol	ND(0.0051)	ND(0.0051)	NA	NA
3,3'-Dichlorobenzidine	ND(0.010)	ND(0.010)	NA	NA
3,3'-Dimethylbenzidine	ND(0.026)	ND(0.026)	NA	NA
3-Methylcholanthrene	ND(0.0051)	ND(0.0051)	NA	NA
3-Nitroaniline	ND(0.026)	ND(0.026)	NA	NA
4,6-Dinitro-2-methylphenol	ND(0.026)	ND(0.026)	NA	NA
4-Aminobiphenyl	ND(0.0051)	ND(0.0051)	NA	NA
4-Bromophenyl-phenylether	ND(0.0051)	ND(0.0051)	NA	NA
4-Chloro-3-Methylphenol	ND(0.0051)	ND(0.0051)	NA	NA
4-Chloroaniline	ND(0.026)	ND(0.026)	NA	NA
4-Chlorobenzilate	ND(0.0051)	ND(0.0051)	NA	NA
4-Chlorophenyl-phenylether	ND(0.0051)	ND(0.0051)	NA	NA
4-Nitroaniline	ND(0.026)	ND(0.026)	NA	NA
4-Nitrophenol	ND(0.026)	ND(0.026)	NA	NA
4-Nitroquinoline-1-oxide	ND(0.026)	ND(0.026)	NA	NA
4-Phenylenediamine	ND(0.010)	ND(0.010)	NA	NA
5-Nitro-o-toluidine	ND(0.0051)	ND(0.0051)	NA	NA
7,12-Dimethylbenz(a)anthracene	ND(0.0051)	ND(0.0051)	NA	NA
a,a'-Dimethylphenethylamine	ND(0.026) J	ND(0.026) J	NA	NA
Acenaphthene	ND(0.0051)	ND(0.0051)	NA	NA
Acenaphthylene	ND(0.0051)	ND(0.0051)	NA	NA

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Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
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Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 10/22/08	GMA4-2 10/22/08	GMA4-3 10/22/08
Semivolatile Organics (continued)				
Acetophenone	ND(0.0051)	ND(0.0051)	NA	NA
Aniline	ND(0.0051)	ND(0.0051)	NA	NA
Anthracene	ND(0.0051)	ND(0.0051)	NA	NA
Aramite	ND(0.0051)	ND(0.0051)	NA	NA
Benzidine	ND(0.010)	ND(0.010)	NA	NA
Benzo(a)anthracene	ND(0.0051)	ND(0.0051)	NA	NA
Benzo(a)pyrene	ND(0.0051)	ND(0.0051)	NA	NA
Benzo(b)fluoranthene	ND(0.0051)	ND(0.0051)	NA	NA
Benzo(g,h,i)perylene	ND(0.0051)	ND(0.0051)	NA	NA
Benzo(k)fluoranthene	ND(0.0051)	ND(0.0051)	NA	NA
Benzyl Alcohol	ND(0.010)	ND(0.010)	NA	NA
bis(2-Chloroethoxy)methane	ND(0.0051)	ND(0.0051)	NA	NA
bis(2-Chloroethyl)ether	ND(0.0051)	ND(0.0051)	NA	NA
bis(2-Chloroisopropyl)ether	ND(0.0051)	ND(0.0051)	NA	NA
bis(2-Ethylhexyl)phthalate	ND(0.0051)	ND(0.0051)	NA	NA
Butylbenzylphthalate	ND(0.0051)	ND(0.0051)	NA	NA
Chrysene	ND(0.0051)	ND(0.0051)	NA	NA
Diallate	ND(0.0051)	ND(0.0051)	NA	NA
Dibenzo(a,h)anthracene	ND(0.0051)	ND(0.0051)	NA	NA
Dibenzofuran	ND(0.0051)	ND(0.0051)	NA	NA
Diethylphthalate	ND(0.0051)	ND(0.0051)	NA	NA
Dimethylphthalate	ND(0.0051)	ND(0.0051)	NA	NA
Di-n-Butylphthalate	ND(0.0051)	ND(0.0051)	NA	NA
Di-n-Octylphthalate	ND(0.0051)	ND(0.0051)	NA	NA
Diphenylamine	ND(0.0051)	ND(0.0051)	NA	NA
Ethyl Methanesulfonate	ND(0.0051)	ND(0.0051)	NA	NA
Fluoranthene	ND(0.0051)	ND(0.0051)	NA	NA
Fluorene	ND(0.0051)	ND(0.0051)	NA	NA
Hexachlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
Hexachlorobutadiene	ND(0.0051)	ND(0.0051)	NA	NA
Hexachlorocyclopentadiene	ND(0.010) J	ND(0.010) J	NA	NA
Hexachloroethane	ND(0.0051)	ND(0.0051)	NA	NA
Hexachlorophene	ND(0.0051) J	ND(0.0051) J	NA	NA
Hexachloropropene	ND(0.010)	ND(0.010)	NA	NA
Indeno(1,2,3-cd)pyrene	ND(0.0051)	ND(0.0051)	NA	NA
Isodrin	ND(0.0051)	ND(0.0051)	NA	NA
Isophorone	ND(0.0051)	ND(0.0051)	NA	NA
Isosafrole	ND(0.0051)	ND(0.0051)	NA	NA
Methapyrilene	ND(0.0051) J	ND(0.0051) J	NA	NA
Methyl Methanesulfonate	ND(0.0051)	ND(0.0051)	NA	NA
Naphthalene	ND(0.0051)	ND(0.0051)	NA	NA
Nitrobenzene	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosodiethylamine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosodimethylamine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitroso-di-n-butylamine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitroso-di-n-propylamine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosomethylethylamine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosomorpholine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosopiperidine	ND(0.0051)	ND(0.0051)	NA	NA
N-Nitrosopyrrolidine	ND(0.0051)	ND(0.0051)	NA	NA
o,o,o-Triethylphosphorothioate	ND(0.0051)	ND(0.0051)	NA	NA
o-Toluidine	ND(0.0051)	ND(0.0051)	NA	NA
p-Dimethylaminoazobenzene	ND(0.0051)	ND(0.0051)	NA	NA
Pentachlorobenzene	ND(0.0051)	ND(0.0051)	NA	NA
Pentachloroethane	ND(0.0051)	ND(0.0051)	NA	NA
Pentachloronitrobenzene	ND(0.0051)	ND(0.0051)	NA	NA
Pentachlorophenol	ND(0.026)	ND(0.026)	NA	NA
Phenacetin	ND(0.0051)	ND(0.0051)	NA	NA

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Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 10/22/08	GMA4-2 10/22/08	GMA4-3 10/22/08
Semivolatile Organics (continued)				
Phenanthrene	ND(0.0051)	ND(0.0051)	NA	NA
Phenol	ND(0.0051)	ND(0.0051)	NA	NA
Pronamide	ND(0.0051)	ND(0.0051)	NA	NA
Pyrene	ND(0.0051)	ND(0.0051)	NA	NA
Pyridine	ND(0.0051)	ND(0.0051)	NA	NA
Safrole	ND(0.0051)	ND(0.0051)	NA	NA
Thionazin	ND(0.010)	ND(0.010)	NA	NA
Furans				
2,3,7,8-TCDF	0.000000010 J	ND(0.0000000029)	NA	NA
TCDFs (total)	0.000000066	0.000000020	NA	NA
1,2,3,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
2,3,4,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
PeCDFs (total)	0.000000021	0.0000000041	NA	NA
1,2,3,4,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,7,8,9-HxCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
2,3,4,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
HxCDFs (total)	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,6,7,8-HpCDF	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000000058)	ND(0.0000000051)	NA	NA
HpCDFs (total)	ND(0.0000000058)	ND(0.0000000051)	NA	NA
OCDF	ND(0.000000015)	ND(0.000000013)	NA	NA
Dioxins				
2,3,7,8-TCDD	ND(0.0000000030)	ND(0.0000000025)	NA	NA
TCDDs (total)	ND(0.0000000030)	ND(0.0000000025)	NA	NA
1,2,3,7,8-PeCDD	ND(0.0000000051)	ND(0.0000000051)	NA	NA
PeCDDs (total)	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000051)	NA	NA
1,2,3,6,7,8-HxCDD	ND(0.0000000051)	ND(0.0000000051)	NA	NA
1,2,3,7,8,9-HxCDD	ND(0.0000000051)	ND(0.0000000051)	NA	NA
HxCDDs (total)	ND(0.0000000052)	ND(0.0000000051)	NA	NA
1,2,3,4,6,7,8-HpCDD	ND(0.0000000086)	ND(0.0000000071)	NA	NA
HpCDDs (total)	ND(0.0000000086)	ND(0.0000000071)	NA	NA
OCDD	ND(0.000000019)	ND(0.000000015)	NA	NA
Total TEQs (WHO TEFs)	0.0000000084	0.0000000072	NA	NA
Inorganics-Unfiltered				
Sulfide	1.3 J	ND(1.00)	NA	NA
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	NA	NA
Arsenic	ND(0.0100) J	0.00517 B J	NA	NA
Barium	ND(0.500)	0.0574 B	NA	NA
Beryllium	ND(0.0100)	ND(0.0100) J	NA	NA
Cadmium	ND(0.00500)	ND(0.00500) J	NA	NA
Chromium	ND(0.0100) J	ND(0.0100) J	NA	NA
Cobalt	ND(0.0100) J	0.00372 B J	NA	NA
Copper	ND(0.200) J	ND(0.200) J	NA	NA
Cyanide-MADEP (PAC)	ND(0.00600)	ND(0.00600)	NA	NA
Lead	ND(0.0100) J	0.00684 B J	NA	NA
Mercury	ND(0.000570)	ND(0.000570)	NA	NA
Nickel	ND(0.0500) J	ND(0.0500)	NA	NA
Selenium	ND(0.0200) J	ND(0.0200) J	NA	NA
Silver	ND(0.0100) J	ND(0.0100)	NA	NA
Thallium	ND(0.0100)	ND(0.0100) J	NA	NA
Tin	ND(0.100) J	ND(0.100) J	NA	NA
Vanadium	ND(0.0500)	ND(0.0500)	NA	NA
Zinc	0.00549 B	ND(0.0500)	NA	NA

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Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA4-6 10/23/08	H78B-15 10/23/08	OPCA-MW-1RR 10/20/08	OPCA-MW-2R 10/20-10/21/08
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	0.00013 J
1,1,2,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.0050) J	ND(0.0050) J	ND(2.5) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,2-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,2-Dichloropropane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
1,4-Dioxane	ND(0.10) J	ND(0.10) J	ND(50) J	ND(0.10) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	ND(2.5) J	ND(0.0050) J
2-Chloro-1,3-butadiene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
2-Chloroethylvinylether	ND(0.013) J	ND(0.013) J	ND(6.3) J	ND(0.013) J
2-Hexanone	ND(0.0050) J	ND(0.0050) J	ND(2.5)	ND(0.0050)
3-Chloropropene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.0050)	ND(0.0050)	ND(2.5)	ND(0.0050)
Acetone	ND(0.0050) J	ND(0.0050) J	ND(2.5) J	ND(0.0050) J
Acetonitrile	ND(0.020) J	ND(0.020) J	ND(10) J	ND(0.020) J
Acrolein	ND(0.025) J	ND(0.025) J	ND(13) J	ND(0.025) J
Acrylonitrile	ND(0.025) J	ND(0.025) J	ND(13) J	ND(0.025) J
Benzene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Bromodichloromethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Bromomethane	ND(0.0010)	ND(0.0010)	ND(0.50) J	ND(0.0010) J
Carbon Disulfide	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Carbon Tetrachloride	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Chloroethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Chloroform	ND(0.0010)	0.00021 J	ND(0.50)	ND(0.0010)
Chloromethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
cis-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Dibromomethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Dichlorodifluoromethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Ethyl Methacrylate	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Ethylbenzene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Iodomethane	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Isobutanol	ND(0.050) J	ND(0.050) J	ND(25) J	ND(0.050) J
Methacrylonitrile	ND(0.010)	ND(0.010)	ND(5.0) J	ND(0.010) J
Methyl Methacrylate	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(2.5)	ND(0.0050)
Propionitrile	ND(0.020) J	ND(0.020) J	ND(10) J	ND(0.020) J
Styrene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	3.6	0.0030
Toluene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.0050) J	ND(0.0050) J	ND(2.5) J	ND(0.0050) J
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	ND(0.50) J	ND(0.0010) J
Vinyl Acetate	ND(0.0025)	ND(0.0025)	ND(1.3)	ND(0.0025)
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.50) J	ND(0.0010) J
Xylenes (total)	ND(0.0010)	ND(0.0010)	ND(0.50)	ND(0.0010)
Total VOCs	ND(0.10)	0.00021 J	3.6	0.0031 J

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Parameter / Sample ID: / Date Collected:	GMA4-6 10/23/08	H78B-15 10/23/08	OPCA-MW-1RR 10/20/08	OPCA-MW-2R 10/20-10/21/08
PCBs-Filtered				
Aroclor-1016	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1221	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1232	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1242	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1248	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1254	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Aroclor-1260	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Total PCBs	ND(0.00010) J	ND(0.00010) J	ND(0.00010) J	ND(0.000072) J
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,2,4-Trichlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,2-Dichlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,2-Diphenylhydrazine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,3,5-Trinitrobenzene	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
1,3-Dichlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,3-Dinitrobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,4-Dichlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1,4-Naphthoquinone	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
1-Naphthylamine	ND(0.026)	ND(0.026)	ND(0.025) J	ND(0.026)
2,3,4,6-Tetrachlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,4,5-Trichlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,4,6-Trichlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,4-Dichlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,4-Dimethylphenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,4-Dinitrophenol	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
2,4-Dinitrotoluene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,6-Dichlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2,6-Dinitrotoluene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Acetylaminofluorene	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
2-Chloronaphthalene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Chlorophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Methylnaphthalene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Methylphenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Naphthylamine	ND(0.026)	ND(0.026)	ND(0.025) J	ND(0.026)
2-Nitroaniline	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Nitrophenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
2-Picoline	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
3&4-Methylphenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
3,3'-Dichlorobenzidine	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
3,3'-Dimethylbenzidine	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
3-Methylcholanthrene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
3-Nitroaniline	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
4,6-Dinitro-2-methylphenol	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
4-Aminobiphenyl	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
4-Bromophenyl-phenylether	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
4-Chloro-3-Methylphenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
4-Chloroaniline	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
4-Chlorobenzilate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
4-Chlorophenyl-phenylether	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
4-Nitroaniline	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
4-Nitrophenol	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
4-Nitroquinoline-1-oxide	ND(0.026)	ND(0.026)	ND(0.025) J	ND(0.026)
4-Phenylenediamine	ND(0.010)	ND(0.011)	ND(0.010) J	ND(0.011)
5-Nitro-o-toluidine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
7,12-Dimethylbenz(a)anthracene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
a,a'-Dimethylphenethylamine	ND(0.026) J	ND(0.026) J	ND(0.025) J	ND(0.026)
Acenaphthene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Acenaphthylene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)

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Semivolatile Organics (continued)				
Acetophenone	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Aniline	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Anthracene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Aramite	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzidine	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
Benzo(a)anthracene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzo(a)pyrene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzo(b)fluoranthene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzo(g,h,i)perylene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzo(k)fluoranthene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Benzyl Alcohol	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
bis(2-Chloroethoxy)methane	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
bis(2-Chloroethyl)ether	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
bis(2-Chloroisopropyl)ether	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
bis(2-Ethylhexyl)phthalate	0.00072 J	0.0010 J	ND(0.0051)	ND(0.0053)
Butylbenzylphthalate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Chrysene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Diallate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Dibenzo(a,h)anthracene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Dibenzofuran	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Diethylphthalate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Dimethylphthalate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Di-n-Butylphthalate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Di-n-Octylphthalate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Diphenylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Ethyl Methanesulfonate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Fluoranthene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Fluorene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Hexachlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Hexachlorobutadiene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Hexachlorocyclopentadiene	ND(0.010) J	ND(0.011) J	ND(0.010) J	ND(0.011)
Hexachloroethane	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Hexachlorophene	ND(0.0051) J	ND(0.0053) J	ND(0.0051) J	ND(0.0053) J
Hexachloropropene	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
Indeno(1,2,3-cd)pyrene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Isodrin	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Isophorone	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Isosafrole	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Methapyrilene	ND(0.0051) J	ND(0.0053) J	ND(0.0051) J	ND(0.0053)
Methyl Methanesulfonate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Naphthalene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Nitrobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosodiethylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosodimethylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitroso-di-n-butylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitroso-di-n-propylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosomethylethylamine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosomorpholine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosopiperidine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
N-Nitrosopyrrolidine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
o,o,o-Triethylphosphorothioate	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
o-Toluidine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
p-Dimethylaminoazobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pentachlorobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pentachloroethane	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pentachloronitrobenzene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pentachlorophenol	ND(0.026)	ND(0.026)	ND(0.025)	ND(0.026)
Phenacetin	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)

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Semivolatile Organics (continued)				
Phenanthrene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Phenol	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pronamide	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pyrene	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Pyridine	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Safrole	ND(0.0051)	ND(0.0053)	ND(0.0051)	ND(0.0053)
Thionazin	ND(0.010)	ND(0.011)	ND(0.010)	ND(0.011)
Furans				
2,3,7,8-TCDF	ND(0.0000000035)	ND(0.0000000030)	ND(0.0000000035)	ND(0.0000000036)
TCDFs (total)	ND(0.0000000035)	0.000000025	ND(0.0000000035)	ND(0.0000000036)
1,2,3,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
PeCDFs (total)	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000065)	ND(0.0000000058)
HpCDFs (total)	ND(0.0000000058)	ND(0.0000000051)	ND(0.0000000065)	ND(0.0000000058)
OCDF	ND(0.000000016)	ND(0.000000011)	ND(0.000000015)	ND(0.000000013)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000033)	ND(0.0000000023)	ND(0.0000000032)	ND(0.0000000032)
TCDDs (total)	ND(0.0000000033)	ND(0.0000000023)	ND(0.0000000032)	ND(0.0000000032)
1,2,3,7,8-PeCDD	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000051)	ND(0.0000000051)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000070)	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000083)
HpCDDs (total)	ND(0.0000000070)	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000083)
OCDD	ND(0.000000019)	ND(0.000000013)	ND(0.000000018)	ND(0.000000016)
Total TEQs (WHO TEFs)	0.0000000077	0.0000000072	0.0000000078	0.0000000077
Inorganics-Unfiltered				
Sulfide	ND(1.00)	ND(1.00)	1.20	1.00
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100) J	ND(0.0100) J	0.00195 B J	ND(0.0100) J
Barium	ND(0.500)	ND(0.500)	0.0453 B	0.0435 B
Beryllium	ND(0.0100)	ND(0.0100)	ND(0.0100) J	ND(0.0100) J
Cadmium	ND(0.00500)	ND(0.00500)	0.00256 B J	0.00263 B J
Chromium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Cobalt	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Copper	ND(0.200) J	ND(0.200) J	ND(0.200) J	ND(0.200) J
Cyanide-MADEP (PAC)	ND(0.00600)	ND(0.00600)	ND(0.00600)	ND(0.00600)
Lead	ND(0.0100) J	ND(0.0100) J	0.00395 B J	0.00420 B J
Mercury	ND(0.000570)	ND(0.000570)	ND(0.000570)	ND(0.000570)
Nickel	ND(0.0500) J	ND(0.0500) J	ND(0.0500)	ND(0.0500)
Selenium	0.00962 B J	0.00918 B J	ND(0.0200) J	ND(0.0200) J
Silver	ND(0.0100) J	ND(0.0100) J	ND(0.0100)	ND(0.0100)
Thallium	0.00784 B	ND(0.0100)	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.100) J	ND(0.100) J	ND(0.100) J	ND(0.100) J
Vanadium	ND(0.0500)	0.00587 B	ND(0.0500)	ND(0.0500)
Zinc	0.0154 B	0.00439 B	ND(0.0500)	ND(0.0500)

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Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-3 10/22/08	OPCA-MW-4 10/20/08	OPCA-MW-5R 10/21/08
Volatile Organics			
1,1,1,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(0.10) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Chloro-1,3-butadiene	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(0.013) J	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(0.0050) J	ND(0.0050)	ND(0.0050)
3-Chloropropene	ND(0.0010)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.0050)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(0.020) J	ND(0.020) J	ND(0.020) J
Acrolein	ND(0.025) J	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(0.025) J	ND(0.025) J	ND(0.025) J
Benzene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.0010)	ND(0.0010) J	ND(0.0010) J
Carbon Disulfide	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	0.00017 J	0.00011 J
Chloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	ND(0.050) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(0.010)	ND(0.010) J	ND(0.010) J
Methyl Methacrylate	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	0.00022 J
Propionitrile	ND(0.020) J	ND(0.020) J	ND(0.020) J
Styrene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Trichloroethene	ND(0.0010)	0.0016	ND(0.0010)
Trichlorofluoromethane	ND(0.0010)	ND(0.0010) J	ND(0.0010) J
Vinyl Acetate	ND(0.0025)	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.0010)	ND(0.0010) J	ND(0.0010) J
Xylenes (total)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs	ND(0.10)	0.0018 J	0.00033 J

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Parameter / Sample ID: / Date Collected:	OPCA-MW-3 10/22/08	OPCA-MW-4 10/20/08	OPCA-MW-5R 10/21/08
PCBs-Filtered			
Aroclor-1016	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1221	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1232	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1242	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1248	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1254	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Aroclor-1260	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Total PCBs	ND(0.00011)	ND(0.000070) J	ND(0.000069) J
Semivolatile Organics			
1,2,4,5-Tetrachlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,2,4-Trichlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,2-Dichlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,2-Diphenylhydrazine	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,3,5-Trinitrobenzene	ND(0.027)	ND(0.026)	ND(0.026)
1,3-Dichlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,3-Dinitrobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,4-Dichlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
1,4-Naphthoquinone	ND(0.0054)	ND(0.0052)	ND(0.0052)
1-Naphthylamine	ND(0.027)	ND(0.026) J	ND(0.026) J
2,3,4,6-Tetrachlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,4,5-Trichlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,4,6-Trichlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,4-Dichlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,4-Dimethylphenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,4-Dinitrophenol	ND(0.027)	ND(0.026)	ND(0.026)
2,4-Dinitrotoluene	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,6-Dichlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2,6-Dinitrotoluene	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Acetylaminofluorene	ND(0.011)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Chlorophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Methylnaphthalene	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Methylphenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Naphthylamine	ND(0.027)	ND(0.026) J	ND(0.026) J
2-Nitroaniline	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Nitrophenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
2-Picoline	ND(0.0054)	ND(0.0052)	ND(0.0052)
3&4-Methylphenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
3,3'-Dichlorobenzidine	ND(0.011)	ND(0.010)	ND(0.010)
3,3'-Dimethylbenzidine	ND(0.027)	ND(0.026)	ND(0.026)
3-Methylcholanthrene	ND(0.0054)	ND(0.0052)	ND(0.0052)
3-Nitroaniline	ND(0.027)	ND(0.026)	ND(0.026)
4,6-Dinitro-2-methylphenol	ND(0.027)	ND(0.026)	ND(0.026)
4-Aminobiphenyl	ND(0.0054)	ND(0.0052)	ND(0.0052)
4-Bromophenyl-phenylether	ND(0.0054)	ND(0.0052)	ND(0.0052)
4-Chloro-3-Methylphenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
4-Chloroaniline	ND(0.027)	ND(0.026)	ND(0.026)
4-Chlorobenzilate	ND(0.0054)	ND(0.0052)	ND(0.0052)
4-Chlorophenyl-phenylether	ND(0.0054)	ND(0.0052)	ND(0.0052)
4-Nitroaniline	ND(0.027)	ND(0.026)	ND(0.026)
4-Nitrophenol	ND(0.027)	ND(0.026)	ND(0.026)
4-Nitroquinoline-1-oxide	ND(0.027)	ND(0.026) J	ND(0.026) J
4-Phenylenediamine	ND(0.011)	ND(0.010) J	ND(0.010) J
5-Nitro-o-toluidine	ND(0.0054)	ND(0.0052)	ND(0.0052)
7,12-Dimethylbenz(a)anthracene	ND(0.0054)	ND(0.0052)	ND(0.0052)
a,a'-Dimethylphenethylamine	ND(0.027) J	ND(0.026) J	ND(0.026) J
Acenaphthene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Acenaphthylene	ND(0.0054)	ND(0.0052)	ND(0.0052)

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Semivolatile Organics (continued)			
Acetophenone	ND(0.0054)	ND(0.0052)	ND(0.0052)
Aniline	ND(0.0054)	ND(0.0052)	ND(0.0052)
Anthracene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Aramite	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzidine	ND(0.011)	ND(0.010)	ND(0.010)
Benzo(a)anthracene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzo(a)pyrene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzo(b)fluoranthene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzo(g,h,i)perylene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzo(k)fluoranthene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Benzyl Alcohol	ND(0.011)	ND(0.010)	ND(0.010)
bis(2-Chloroethoxy)methane	ND(0.0054)	ND(0.0052)	ND(0.0052)
bis(2-Chloroethyl)ether	ND(0.0054)	ND(0.0052)	ND(0.0052)
bis(2-Chloroisopropyl)ether	ND(0.0054)	ND(0.0052)	ND(0.0052)
bis(2-Ethylhexyl)phthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Butylbenzylphthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Chrysene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Diallate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Dibenzo(a,h)anthracene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Dibenzofuran	ND(0.0054)	ND(0.0052)	ND(0.0052)
Diethylphthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Dimethylphthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Di-n-Butylphthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Di-n-Octylphthalate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Diphenylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
Ethyl Methanesulfonate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Fluoranthene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Fluorene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Hexachlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Hexachlorobutadiene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Hexachlorocyclopentadiene	ND(0.011) J	ND(0.010) J	ND(0.010) J
Hexachloroethane	ND(0.0054)	ND(0.0052)	ND(0.0052)
Hexachlorophene	ND(0.0054) J	ND(0.0052) J	ND(0.0052) J
Hexachloropropene	ND(0.011)	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Isodrin	ND(0.0054)	ND(0.0052)	ND(0.0052)
Isophorone	ND(0.0054)	ND(0.0052)	ND(0.0052)
Isosafrole	ND(0.0054)	ND(0.0052)	ND(0.0052)
Methapyrilene	ND(0.0054) J	ND(0.0052) J	ND(0.0052) J
Methyl Methanesulfonate	ND(0.0054)	ND(0.0052)	ND(0.0052)
Naphthalene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Nitrobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosodiethylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosodimethylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitroso-di-n-butylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitroso-di-n-propylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosomethylethylamine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosomorpholine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosopiperidine	ND(0.0054)	ND(0.0052)	ND(0.0052)
N-Nitrosopyrrolidine	ND(0.0054)	ND(0.0052)	ND(0.0052)
o,o,o-Triethylphosphorothioate	ND(0.0054)	ND(0.0052)	ND(0.0052)
o-Toluidine	ND(0.0054)	ND(0.0052)	ND(0.0052)
p-Dimethylaminoazobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pentachlorobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pentachloroethane	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pentachloronitrobenzene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pentachlorophenol	ND(0.027)	ND(0.026)	ND(0.026)
Phenacetin	ND(0.0054)	ND(0.0052)	ND(0.0052)

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Semivolatile Organics (continued)			
Phenanthrene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Phenol	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pronamide	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pyrene	ND(0.0054)	ND(0.0052)	ND(0.0052)
Pyridine	ND(0.0054)	ND(0.0052)	ND(0.0052)
Safrole	ND(0.0054)	ND(0.0052)	ND(0.0052)
Thionazin	ND(0.011)	ND(0.010)	ND(0.010)
Furans			
2,3,7,8-TCDF	ND(0.0000000048)	0.0000000068 YJ	ND(0.0000000044)
TCDFs (total)	ND(0.0000000048)	0.00000042	0.000000018
1,2,3,7,8-PeCDF	ND(0.0000000054)	0.000000010 J	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000054)	0.0000000067 J	ND(0.0000000052)
PeCDFs (total)	ND(0.0000000054)	0.00000027	0.0000000023
1,2,3,4,7,8-HxCDF	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000054)	0.000000020	0.0000000020
1,2,3,4,6,7,8-HpCDF	ND(0.0000000059)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000076)	ND(0.0000000055)	ND(0.0000000057)
HpCDFs (total)	ND(0.0000000076)	ND(0.0000000055)	ND(0.0000000057)
OCDF	ND(0.000000025)	ND(0.000000016)	ND(0.000000014)
Dioxins			
2,3,7,8-TCDD	ND(0.0000000043)	ND(0.0000000026)	ND(0.0000000033)
TCDDs (total)	ND(0.0000000043)	ND(0.0000000026)	ND(0.0000000033)
1,2,3,7,8-PeCDD	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000054)	ND(0.0000000053)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	ND(0.000000012)	ND(0.0000000081)	ND(0.0000000052)
HpCDDs (total)	ND(0.000000012)	ND(0.0000000081)	ND(0.0000000052)
OCDD	ND(0.000000030)	ND(0.000000018)	ND(0.000000015)
Total TEQs (WHO TEFs)	0.0000000086	0.000000010	0.0000000078
Inorganics-Unfiltered			
Sulfide	ND(1.00)	1.20	1.00
Inorganics-Filtered			
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Barium	0.0519 B	0.0253 B	0.0538 B
Beryllium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Cadmium	ND(0.00500) J	0.00276 B J	ND(0.00500) J
Chromium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Cobalt	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Copper	ND(0.200) J	ND(0.200) J	ND(0.200) J
Cyanide-MADEP (PAC)	ND(0.00600)	ND(0.00600)	ND(0.00600)
Lead	0.00564 B J	0.00425 B J	0.00657 B J
Mercury	ND(0.000570)	ND(0.000570)	ND(0.000570)
Nickel	ND(0.0500)	ND(0.0500)	ND(0.0500)
Selenium	ND(0.0200) J	ND(0.0200) J	ND(0.0200) J
Silver	ND(0.0100)	ND(0.0100)	ND(0.0100)
Thallium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.100) J	ND(0.100) J	ND(0.100) J
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	ND(0.0500)	0.0135 B	0.0106 B

Table C-1
Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/21/08	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
Volatile Organics			
1,1,1,2-Tetrachloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050) J
2-Chloro-1,3-butadiene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(0.013) J [ND(0.013) J]	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050) J
3-Chloropropene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(0.020) J [ND(0.020) J]	ND(0.020) J	ND(0.020) J
Acrolein	ND(0.025) J [ND(0.025) J]	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(0.025) J [ND(0.025) J]	ND(0.025) J	ND(0.025) J
Benzene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Bromodichloromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.0010) J [ND(0.0010) J]	ND(0.0010) J	ND(0.0010)
Carbon Disulfide	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Ethylbenzene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Isobutanol	ND(0.050) J [ND(0.050) J]	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
Methyl Methacrylate	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.020) J [ND(0.020) J]	ND(0.020) J	ND(0.020) J
Styrene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050) J
Trichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010) J [ND(0.0010) J]	ND(0.0010) J	ND(0.0010)
Vinyl Acetate	ND(0.0025) [ND(0.0025)]	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.0010) J [ND(0.0010) J]	ND(0.0010) J	ND(0.0010)
Xylenes (total)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Total VOCs	ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)

Table C-1
Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/21/08	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
PCBs-Filtered			
Aroclor-1016	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1221	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1232	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1242	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1248	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1254	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Aroclor-1260	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Total PCBs	ND(0.00011) J [ND(0.000068) J]	ND(0.000067) J	ND(0.00010)
Semivolatile Organics			
1,2,4,5-Tetrachlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,2,4-Trichlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,2-Dichlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,2-Diphenylhydrazine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,3,5-Trinitrobenzene	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
1,3-Dichlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,3-Dinitrobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,4-Dichlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1,4-Naphthoquinone	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
1-Naphthylamine	ND(0.026) J [ND(0.026) J]	ND(0.026) J	ND(0.026)
2,3,4,6-Tetrachlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,4,5-Trichlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,4,6-Trichlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,4-Dichlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,4-Dimethylphenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,4-Dinitrophenol	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
2,4-Dinitrotoluene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,6-Dichlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2,6-Dinitrotoluene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Acetylaminofluorene	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Chlorophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Methylnaphthalene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Methylphenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Naphthylamine	ND(0.026) J [ND(0.026) J]	ND(0.026) J	ND(0.026)
2-Nitroaniline	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Nitrophenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
2-Picoline	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
3&4-Methylphenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
3,3'-Dichlorobenzidine	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
3,3'-Dimethylbenzidine	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
3-Methylcholanthrene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
3-Nitroaniline	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
4,6-Dinitro-2-methylphenol	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
4-Aminobiphenyl	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
4-Bromophenyl-phenylether	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
4-Chloro-3-Methylphenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
4-Chloroaniline	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
4-Chlorobenzilate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
4-Chlorophenyl-phenylether	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
4-Nitroaniline	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
4-Nitrophenol	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
4-Nitroquinoline-1-oxide	ND(0.026) J [ND(0.026) J]	ND(0.026) J	ND(0.026)
4-Phenylenediamine	ND(0.011) J [ND(0.010) J]	ND(0.010) J	ND(0.010)
5-Nitro-o-toluidine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
7,12-Dimethylbenz(a)anthracene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
a,a'-Dimethylphenethylamine	ND(0.026) J [ND(0.026) J]	ND(0.026) J	ND(0.026) J
Acenaphthene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Acenaphthylene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)

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Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
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Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/21/08	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
Semivolatile Organics (continued)			
Acetophenone	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Aniline	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Anthracene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Aramite	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzidine	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
Benzo(a)anthracene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzo(a)pyrene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzo(b)fluoranthene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzo(g,h,i)perylene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzo(k)fluoranthene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Benzyl Alcohol	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
bis(2-Chloroethoxy)methane	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
bis(2-Chloroethyl)ether	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
bis(2-Chloroisopropyl)ether	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
bis(2-Ethylhexyl)phthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	0.00087 J
Butylbenzylphthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Chrysene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Diallate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Dibenzo(a,h)anthracene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Dibenzofuran	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Diethylphthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Dimethylphthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Di-n-Butylphthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Di-n-Octylphthalate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Diphenylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Ethyl Methanesulfonate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Fluoranthene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Fluorene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Hexachlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Hexachlorobutadiene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Hexachlorocyclopentadiene	ND(0.011) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J
Hexachloroethane	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Hexachlorophene	ND(0.0052) J [ND(0.0052) J]	ND(0.0052) J	ND(0.0051) J
Hexachloropropene	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Isodrin	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Isophorone	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Isosafrole	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Methapyrilene	ND(0.0052) J [ND(0.0052) J]	ND(0.0052) J	ND(0.0051) J
Methyl Methanesulfonate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Naphthalene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Nitrobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosodiethylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosodimethylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitroso-di-n-butylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitroso-di-n-propylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosomethylethylamine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosomorpholine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosopiperidine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
N-Nitrosopyrrolidine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
o,o,o-Triethylphosphorothioate	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
o-Toluidine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
p-Dimethylaminoazobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pentachlorobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pentachloroethane	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pentachloronitrobenzene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pentachlorophenol	ND(0.026) [ND(0.026)]	ND(0.026)	ND(0.026)
Phenacetin	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)

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Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/21/08	OPCA-MW-7 10/21/08	OPCA-MW-8 10/22/08
Semivolatile Organics (continued)			
Phenanthrene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Phenol	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pronamide	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pyrene	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Pyridine	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Safrole	ND(0.0052) [ND(0.0052)]	ND(0.0052)	ND(0.0051)
Thionazin	ND(0.011) [ND(0.010)]	ND(0.010)	ND(0.010)
Furans			
2,3,7,8-TCDF	0.0000000049 J [0.0000000058 J]	ND(0.0000000033)	ND(0.000000014)
TCDFs (total)	0.000000012 [0.000000014]	ND(0.0000000033)	ND(0.000000083)
1,2,3,7,8-PeCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	0.0000000058 J
PeCDFs (total)	0.0000000048 [0.0000000052]	ND(0.0000000051)	ND(0.00000012)
1,2,3,4,7,8-HxCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.000000040)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000093) X
1,2,3,4,7,8,9-HpCDF	ND(0.0000000053) [ND(0.0000000057)]	ND(0.0000000053)	ND(0.0000000056)
HpCDFs (total)	ND(0.0000000053) [ND(0.0000000057)]	ND(0.0000000053)	ND(0.0000000056)
OCDF	ND(0.000000014) [ND(0.000000016)]	ND(0.000000014)	0.000000018 J
Dioxins			
2,3,7,8-TCDD	ND(0.0000000034) [ND(0.0000000032)]	ND(0.0000000032)	ND(0.0000000029)
TCDDs (total)	ND(0.0000000034) [ND(0.0000000032)]	ND(0.0000000032)	ND(0.0000000029)
1,2,3,7,8-PeCDD	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000053) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000078)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000069) [ND(0.0000000085)]	ND(0.0000000074)	0.000000015 J
HpCDDs (total)	ND(0.0000000069) [ND(0.0000000085)]	ND(0.0000000074)	ND(0.000000015)
OCDD	ND(0.000000017) [ND(0.000000019)]	ND(0.000000016)	0.000000086 J
Total TEQs (WHO TEFs)	0.0000000082 [0.0000000080]	0.0000000076	0.0000000098
Inorganics-Unfiltered			
Sulfide	1.40 [ND(1.00)]	1.00 J	ND(1.00)
Inorganics-Filtered			
Antimony	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100) J [0.00213 B J]	ND(0.0100) J	ND(0.0100) J
Barium	0.0168 B [0.0169 B]	0.0368 B	0.0225 B
Beryllium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J
Cadmium	ND(0.00500) J [0.00328 B J]	ND(0.00500) J	0.00287 B J
Chromium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J
Cobalt	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J
Copper	ND(0.200) J [ND(0.200) J]	ND(0.200) J	ND(0.200) J
Cyanide-MADEP (PAC)	ND(0.00600) [ND(0.00600)]	ND(0.00600)	ND(0.00600)
Lead	0.00641 B J [0.00718 B J]	ND(0.0100) J	0.00427 B J
Mercury	ND(0.000570) [ND(0.000570)]	ND(0.000570)	ND(0.000570)
Nickel	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Selenium	ND(0.0200) J [ND(0.0200) J]	ND(0.0200) J	ND(0.0200) J
Silver	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Thallium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.100) J [ND(0.100) J]	ND(0.100) J	ND(0.100) J
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	0.0325 B [0.0273 B]	0.00771 B	0.0610

Table C-1
Fall 2008 Groundwater Analytical Results

Groundwater Quality Interim Report For Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles,dioxin/furans)
- J - Indicates that the associated numerical value is an estimated concentration.
- R - Data was rejected due to a deficiency in the data generation process.
- X - Estimated maximum possible concentration.
- Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics
- B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J - Indicates that the associated numerical value is an estimated concentration.

ARCADIS

Appendix D

Historical Groundwater Data

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 06/14/99	78-1 05/01/01	78-1 10/09/07	78-1 04/22/08
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Acetone	ND(0.10)	ND(0.010)	0.0023 J	ND(0.0050) J
Bromoform	ND(0.0050)	ND(0.0050)	0.00048 J	ND(0.0010)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0050)	ND(0.0020)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0050)	0.0047 J	ND(0.0010)	ND(0.0010) J
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Vinyl Chloride	ND(0.010)	ND(0.0020)	ND(0.0010)	ND(0.0010) J
Total VOCs	ND(0.20)	0.0047 J	0.0028 J	ND(0.10)
PCBs-Unfiltered				
Aroclor-1254	ND(0.00010)	ND(0.000065)	NA	NA
Aroclor-1260	ND(0.00010)	ND(0.000065)	NA	NA
Total PCBs	ND(0.00010)	ND(0.000065)	NA	NA
PCBs-Filtered				
Aroclor-1254	NA	ND(0.000065)	ND(0.00010)	ND(0.000066)
Aroclor-1260	NA	ND(0.000065)	ND(0.00010)	ND(0.000066)
Total PCBs	NA	ND(0.000065)	ND(0.00010)	ND(0.000066)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
bis(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.0060)	ND(0.010)	0.00094 J
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Furans				
2,3,7,8-TCDF	ND(0.00000000060)	ND(0.0000000011)	ND(0.0000000018)	0.0000000045 J
TCDFs (total)	ND(0.00000000060)	ND(0.000000010) X	0.00000012 J	0.000000027
1,2,3,7,8-PeCDF	ND(0.0000000021)	ND(0.0000000013) XB	ND(0.0000000050)	0.0000000056 J
2,3,4,7,8-PeCDF	ND(0.0000000020)	ND(0.0000000012)	ND(0.0000000050)	ND(0.0000000051)
PeCDFs (total)	ND(0.0000000021)	ND(0.000000024)	0.000000034 J	0.0000000056 J
1,2,3,4,7,8-HxCDF	ND(0.0000000060)	ND(0.0000000021)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,6,7,8-HxCDF	ND(0.0000000062)	ND(0.00000000080)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,7,8,9-HxCDF	ND(0.0000000059)	ND(0.00000000090)	ND(0.0000000050)	ND(0.0000000051)
2,3,4,6,7,8-HxCDF	ND(0.0000000064)	ND(0.00000000080)	ND(0.0000000050)	ND(0.0000000051)
HxCDFs (total)	ND(0.0000000064)	ND(0.0000000044)	0.000000010 J	ND(0.0000000051)
1,2,3,4,6,7,8-HpCDF	ND(0.000000011)	ND(0.0000000013)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,4,7,8,9-HpCDF	ND(0.000000011)	ND(0.0000000017)	ND(0.0000000050)	ND(0.0000000051)
HpCDFs (total)	ND(0.000000011)	ND(0.0000000015)	ND(0.0000000050)	ND(0.0000000051)
OCDF	ND(0.000000011)	ND(0.0000000032)	ND(0.000000010)	ND(0.000000010)
Dioxins				
2,3,7,8-TCDD	ND(0.00000000090)	ND(0.0000000014)	ND(0.0000000012)	ND(0.0000000012)
TCDDs (total)	ND(0.00000000090)	ND(0.0000000014)	ND(0.0000000012)	ND(0.0000000012)
1,2,3,7,8-PeCDD	ND(0.0000000071)	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000051)
PeCDDs (total)	ND(0.0000000071)	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,4,7,8-HxCDD	ND(0.0000000069)	ND(0.0000000014)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,6,7,8-HxCDD	ND(0.0000000086)	ND(0.0000000014)	ND(0.0000000050)	ND(0.0000000051)
1,2,3,7,8,9-HxCDD	ND(0.0000000077)	ND(0.0000000013)	ND(0.0000000050)	ND(0.0000000051)
HxCDDs (total)	ND(0.0000000086)	ND(0.000000012) X	ND(0.0000000050)	ND(0.0000000051)
1,2,3,4,6,7,8-HpCDD	ND(0.000000013)	ND(0.0000000026)	ND(0.0000000050)	ND(0.0000000051)
HpCDDs (total)	ND(0.000000013)	ND(0.0000000026)	ND(0.0000000050)	ND(0.0000000051)
OCDD	ND(0.000000017)	ND(0.0000000038) XB	ND(0.000000010)	ND(0.000000010)
Total TEQs (WHO TEFs)	0.0000000071	0.0000000024	0.0000000064	0.0000000070

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 06/14/99	78-1 05/01/01	78-1 10/09/07	78-1 04/22/08
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	NA	NA
Arsenic	ND(0.00600)	ND(0.0100)	NA	NA
Barium	0.0250	0.0330 B	NA	NA
Beryllium	ND(0.00600)	ND(0.00100)	NA	NA
Cadmium	ND(0.00600)	ND(0.00500)	NA	NA
Chromium	ND(0.0130)	ND(0.0100)	NA	NA
Cobalt	ND(0.0600)	ND(0.0500)	NA	NA
Copper	ND(0.0330)	0.00550 J	NA	NA
Lead	ND(0.130) J	ND(0.00500)	NA	NA
Nickel	ND(0.0600)	ND(0.0400)	NA	NA
Selenium	ND(0.00600) J	ND(0.00500) J	NA	NA
Silver	ND(0.0130)	ND(0.00500)	NA	NA
Sulfide	ND(5.00)	ND(5.00)	R	1.10 J
Thallium	ND(0.0130)	ND(0.0100) J	NA	NA
Tin	ND(0.300)	ND(0.100)	NA	NA
Vanadium	ND(0.0600)	ND(0.0500)	NA	NA
Zinc	0.0290	0.0200	NA	NA
Inorganics-Filtered				
Antimony	NA	ND(0.0600)	ND(0.0400)	ND(0.0400)
Arsenic	NA	ND(0.0100)	ND(0.0100) J	ND(0.0100)
Barium	NA	0.0260 J	0.0172 B	0.0174 B
Beryllium	NA	ND(0.00100)	ND(0.0100) J	ND(0.0100) J
Cadmium	NA	ND(0.00500)	ND(0.00500) J	ND(0.00500) J
Chromium	NA	ND(0.0100)	ND(0.0100)	0.00118 B
Cobalt	NA	ND(0.0500)	ND(0.0100)	ND(0.0100) J
Copper	NA	0.00420 J	ND(0.0100)	ND(0.0100) J
Lead	NA	ND(0.00500)	ND(0.0100)	ND(0.0100)
Nickel	NA	ND(0.0400)	ND(0.0100)	ND(0.0100) J
Selenium	NA	ND(0.00500) J	ND(0.0200) J	ND(0.0200)
Thallium	NA	ND(0.0100) J	ND(0.0100)	ND(0.0100) J
Tin	NA	ND(0.100)	ND(0.0100)	ND(0.0100) J
Vanadium	NA	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	NA	0.0160 B	0.00586 B	ND(0.0200)

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 06/16/99	78-6 05/03/01	78-6 11/13/07
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Acetone	ND(0.0050) J	ND(0.10)	ND(0.010)	0.0014 J
Bromoform	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chlorobenzene	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chloroform	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0050)	ND(0.0020)	ND(0.0010) J
Toluene	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichloroethene	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride	ND(0.0010)	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs	ND(0.10)	ND(0.20)	ND(0.20)	0.0014 J
PCBs-Unfiltered				
Aroclor-1254	NA	ND(0.000050)	ND(0.000065)	NA
Aroclor-1260	NA	ND(0.000050)	ND(0.000065)	NA
Total PCBs	NA	ND(0.000050)	ND(0.000065)	NA
PCBs-Filtered				
Aroclor-1254	ND(0.00010) J	NA	ND(0.000065)	ND(0.000065)
Aroclor-1260	ND(0.00010) J	NA	ND(0.000065)	ND(0.000065)
Total PCBs	ND(0.00010) J	NA	ND(0.000065)	ND(0.000065)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.0051)	ND(0.010)	ND(0.010)	ND(0.0050)
Acenaphthene	ND(0.0051)	ND(0.010)	ND(0.010)	ND(0.0050)
bis(2-Ethylhexyl)phthalate	ND(0.0051)	ND(0.010)	ND(0.0060)	ND(0.0050)
Dibenzofuran	ND(0.0051)	ND(0.010)	ND(0.010)	ND(0.0050)
Dimethylphthalate	ND(0.0051)	ND(0.010)	ND(0.010)	0.00060 J
Naphthalene	ND(0.0051)	ND(0.010)	ND(0.010)	0.0016 J
Furans				
2,3,7,8-TCDF	0.000000010 J	ND(0.0000000032)	ND(0.00000000085) XB	ND(0.0000000042)
TCDFs (total)	0.000000066	ND(0.0000000032)	ND(0.0000000020)	0.0000000076 J
1,2,3,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000079)	ND(0.00000000030)	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000083)	ND(0.00000000066)	ND(0.0000000052)
PeCDFs (total)	0.000000021	ND(0.0000000083)	ND(0.0000000017)	ND(0.0000000052)
1,2,3,4,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000042)	ND(0.00000000083) XB	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000043)	ND(0.00000000030)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000051)	ND(0.0000000051)	ND(0.00000000030)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000044)	ND(0.00000000030)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000051)	ND(0.0000000051)	ND(0.00000000083) X	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000051)	ND(0.000000029)	ND(0.00000000050)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000058)	ND(0.000000029)	ND(0.00000000060)	ND(0.0000000052)
HpCDFs (total)	ND(0.0000000058)	ND(0.000000029)	ND(0.00000000050)	ND(0.0000000052)
OCDF	ND(0.000000015)	ND(0.000000017)	ND(0.00000000090)	ND(0.000000011)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000030)	ND(0.0000000035)	ND(0.00000000040)	ND(0.0000000037)
TCDDs (total)	ND(0.0000000030)	ND(0.0000000035)	ND(0.0000000010) X	ND(0.0000000037)
1,2,3,7,8-PeCDD	ND(0.0000000051)	ND(0.000000034)	ND(0.00000000040)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000051)	ND(0.000000034)	ND(0.0000000019) X	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.000000014)	ND(0.00000000060)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000051)	ND(0.000000017)	ND(0.00000000060)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000051)	ND(0.000000015)	ND(0.00000000050)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000052)	ND(0.000000017)	ND(0.0000000060) X	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000086)	ND(0.000000029)	ND(0.00000000080)	ND(0.0000000052)
HpCDDs (total)	ND(0.0000000086)	ND(0.000000029)	ND(0.00000000080)	ND(0.0000000052)
OCDD	ND(0.000000019)	ND(0.000000020)	ND(0.0000000079)	ND(0.000000011)
Total TEQs (WHO TEFs)	0.0000000084	0.000000025	0.00000000080	0.0000000080

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-1 10/23/08	78-6 06/16/99	78-6 05/03/01	78-6 11/13/07
Inorganics-Unfiltered				
Antimony	NA	ND(0.0600)	0.00250 J	NA
Arsenic	NA	0.0320	0.0160	NA
Barium	NA	0.0830	0.0960 B	NA
Beryllium	NA	ND(0.00600)	ND(0.00100)	NA
Cadmium	NA	ND(0.00600) J	ND(0.00500)	NA
Chromium	NA	ND(0.0130)	0.00250 B	NA
Cobalt	NA	ND(0.0600)	0.00480 B	NA
Copper	NA	ND(0.0330)	ND(0.0100) J	NA
Lead	NA	ND(0.130) J	ND(0.00500) J	NA
Nickel	NA	ND(0.0600)	ND(0.0400)	NA
Selenium	NA	ND(0.00600)	0.00490 B	NA
Silver	NA	ND(0.0130)	0.0110 J	NA
Sulfide	1.3 J	ND(5.00)	ND(5.00)	ND(1.00) J
Thallium	NA	ND(0.0130)	ND(0.0100)	NA
Tin	NA	ND(0.300) j	ND(0.0300)	NA
Vanadium	NA	ND(0.0600)	ND(0.0500)	NA
Zinc	NA	0.0330	0.0110 B	NA
Inorganics-Filtered				
Antimony	ND(0.0400)	NA	0.00370 J	ND(0.0400)
Arsenic	ND(0.0100) J	NA	ND(0.0100)	0.00588 J
Barium	ND(0.500)	NA	0.0450 B	0.0667 B
Beryllium	ND(0.0100)	NA	ND(0.00100)	0.000850 J
Cadmium	ND(0.00500)	NA	ND(0.00500)	ND(0.00500)
Chromium	ND(0.0100) J	NA	0.00370 B	ND(0.0100)
Cobalt	ND(0.0100) J	NA	0.00370 B	ND(0.0100)
Copper	ND(0.200) J	NA	ND(0.0250)	ND(0.0100) J
Lead	ND(0.0100) J	NA	ND(0.00500) J	ND(0.0100)
Nickel	ND(0.0500) J	NA	ND(0.0400)	ND(0.0100)
Selenium	ND(0.0200) J	NA	ND(0.00500)	ND(0.0200) J
Thallium	ND(0.0100)	NA	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.100) J	NA	ND(0.0300)	ND(0.0100) J
Vanadium	ND(0.0500)	NA	ND(0.0500)	ND(0.0500)
Zinc	0.00549 B	NA	0.0180 J	ND(0.0200)

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-6 04/21/08	78-6 10/22/08	GMA4-6 10/08/07
Volatile Organics			
1,1,1-Trichloroethane	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
Acetone	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.0050) J
Bromoform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
Vinyl Chloride	ND(0.0010) J [ND(0.0010) J]	ND(0.0010)	ND(0.0010)
Total VOCs	ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)
PCBs-Unfiltered			
Aroclor-1254	NA	NA	NA
Aroclor-1260	NA	NA	NA
Total PCBs	NA	NA	NA
PCBs-Filtered			
Aroclor-1254	ND(0.000066) [ND(0.000067)]	ND(0.00010)	ND(0.00010)
Aroclor-1260	ND(0.000066) [ND(0.000067)]	ND(0.00010)	ND(0.00010)
Total PCBs	ND(0.000066) [ND(0.000067)]	ND(0.00010)	ND(0.00010)
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
Acenaphthene	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
Dibenzofuran	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
Dimethylphthalate	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
Naphthalene	ND(0.0051) [ND(0.0052)]	ND(0.0051)	ND(0.010)
Furans			
2,3,7,8-TCDF	0.0000000019 J [0.0000000032 J]	ND(0.0000000029)	ND(0.0000000026)
TCDFs (total)	0.000000028 [0.000000050]	0.000000020	0.000000023 J
1,2,3,7,8-PeCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
2,3,4,7,8-PeCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
PeCDFs (total)	0.0000000052 J [0.0000000059 J]	0.0000000041	0.0000000076 J
1,2,3,4,7,8-HxCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,6,7,8-HxCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,7,8,9-HxCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
2,3,4,6,7,8-HxCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
HxCDFs (total)	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
HpCDFs (total)	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
OCDF	ND(0.000000010) [ND(0.000000010)]	ND(0.000000013)	ND(0.000000010)
Dioxins			
2,3,7,8-TCDD	ND(0.0000000014) [ND(0.0000000010)]	ND(0.0000000025)	ND(0.0000000034)
TCDDs (total)	ND(0.0000000014) [ND(0.0000000010)]	ND(0.0000000025)	ND(0.0000000034)
1,2,3,7,8-PeCDD	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
PeCDDs (total)	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,4,7,8-HxCDD	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,6,7,8-HxCDD	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,7,8,9-HxCDD	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
HxCDDs (total)	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000051)	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000071)	ND(0.0000000050)
HpCDDs (total)	ND(0.0000000051) [ND(0.0000000051)]	ND(0.0000000071)	ND(0.0000000050)
OCDD	ND(0.000000010) [ND(0.000000010)]	ND(0.000000015)	ND(0.000000010)
Total TEQs (WHO TEFs)	0.0000000067 [0.0000000067]	0.0000000072	0.0000000075

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78-6 04/21/08	78-6 10/22/08	GMA4-6 10/08/07
Inorganics-Unfiltered			
Antimony	NA	NA	NA
Arsenic	NA	NA	NA
Barium	NA	NA	NA
Beryllium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Cobalt	NA	NA	NA
Copper	NA	NA	NA
Lead	NA	NA	NA
Nickel	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Sulfide	ND(1.00) J [ND(1.00) J]	ND(1.00)	ND(1.00) J
Thallium	NA	NA	NA
Tin	NA	NA	NA
Vanadium	NA	NA	NA
Zinc	NA	NA	NA
Inorganics-Filtered			
Antimony	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100) [ND(0.0100)]	0.00517 B J	ND(0.0100) J
Barium	0.0340 B [0.0353 B]	0.0574 B	0.00701 B
Beryllium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Cadmium	ND(0.00500) J	ND(0.00500) J	ND(0.00500) J
Chromium	0.00209 B [ND(0.0100)]	ND(0.0100) J	ND(0.0100)
Cobalt	ND(0.0100) J	0.00372 B J	ND(0.0100)
Copper	ND(0.0100) J	ND(0.200) J	ND(0.0100)
Lead	ND(0.0100) [ND(0.0100)]	0.00684 B J	ND(0.0100)
Nickel	ND(0.0100) J	ND(0.0500)	0.00564 B
Selenium	ND(0.0200) [ND(0.0200)]	ND(0.0200) J	ND(0.0200) J
Thallium	0.00625 J	ND(0.0100) J	0.00652 B
Tin	ND(0.0100) J	ND(0.100) J	ND(0.0100)
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	ND(0.0200) [ND(0.0200)]	ND(0.0500)	0.0123 B

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA4-6 04/21/08	GMA4-6 10/23/08	H78B-15 06/16/99	H78B-15 05/03/01
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.10)	ND(0.010)
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chloroform	0.0030	ND(0.0010)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0020)
Toluene	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0010) J	ND(0.0010)	ND(0.010)	ND(0.0020)
Total VOCs	0.0030	ND(0.10)	ND(0.20)	ND(0.20)
PCBs-Unfiltered				
Aroclor-1254	NA	NA	0.000035 J	ND(0.000065)
Aroclor-1260	NA	NA	ND(0.000050)	ND(0.000065)
Total PCBs	NA	NA	0.000035 J	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	ND(0.000068)	ND(0.00010) J	NA	ND(0.000065)
Aroclor-1260	ND(0.000068)	ND(0.00010) J	NA	ND(0.000065)
Total PCBs	ND(0.000068)	ND(0.00010) J	NA	ND(0.000065)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.0052)	ND(0.0051)	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.0052)	ND(0.0051)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0052)	0.00072 J	ND(0.010)	ND(0.0060)
Dibenzofuran	ND(0.0052)	ND(0.0051)	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.0052)	ND(0.0051)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.0052)	ND(0.0051)	ND(0.010)	ND(0.010)
Furans				
2,3,7,8-TCDF	ND(0.000000010)	ND(0.0000000035)	ND(0.0000000015)	ND(0.00000000040)
TCDFs (total)	ND(0.000000010)	ND(0.0000000035)	ND(0.0000000015)	ND(0.0000000012)
1,2,3,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000036)	ND(0.00000000038)
2,3,4,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000034)	ND(0.00000000055) XB
PeCDFs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000036)	ND(0.0000000013)
1,2,3,4,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000017)	ND(0.0000000015) XB
1,2,3,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000017)	ND(0.00000000040)
1,2,3,7,8,9-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000023)	ND(0.00000000050)
2,3,4,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000018)	ND(0.00000000040)
HxCDFs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000023)	ND(0.00000000058)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000032)	ND(0.00000000060)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000052)	ND(0.0000000058)	ND(0.000000015)	ND(0.00000000086) XB
HpCDFs (total)	ND(0.0000000052)	ND(0.0000000058)	ND(0.000000032)	ND(0.00000000086) X
OCDF	ND(0.000000011)	ND(0.000000016)	ND(0.0000000076)	ND(0.0000000026)
Dioxins				
2,3,7,8-TCDD	ND(0.000000010)	ND(0.0000000033)	ND(0.0000000035)	ND(0.0000000017) XB
TCDDs (total)	ND(0.000000010)	ND(0.0000000033)	ND(0.0000000035)	ND(0.0000000031) X
1,2,3,7,8-PeCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000071)	ND(0.00000000060)
PeCDDs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000071)	ND(0.0000000018) X
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000056)	ND(0.00000000080)
1,2,3,6,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000070)	ND(0.0000000012)
1,2,3,7,8,9-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000062)	ND(0.00000000095) XB
HxCDDs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000070)	0.0000000032
1,2,3,4,6,7,8-HpCDD	ND(0.0000000077)	ND(0.0000000070)	ND(0.000000011)	0.0000000052 JB
HpCDDs (total)	ND(0.0000000077)	ND(0.0000000070)	ND(0.000000011)	ND(0.0000000052)
OCDD	ND(0.000000012)	ND(0.000000019)	ND(0.0000000090)	ND(0.0000000077)
Total TEQs (WHO TEFs)	0.000000011	0.0000000077	0.0000000079	0.0000000017

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA4-6 04/21/08	GMA4-6 10/23/08	H78B-15 06/16/99	H78B-15 05/03/01
Inorganics-Unfiltered				
Antimony	NA	NA	ND(0.0600)	0.00290 J
Arsenic	NA	NA	ND(0.00600)	ND(0.0100)
Barium	NA	NA	0.0570	0.00430 B
Beryllium	NA	NA	ND(0.00600)	ND(0.00100)
Cadmium	NA	NA	ND(0.00600) J	ND(0.00500)
Chromium	NA	NA	ND(0.0130)	0.00290 B
Cobalt	NA	NA	ND(0.0600)	ND(0.0500)
Copper	NA	NA	ND(0.0330)	0.00910 B
Lead	NA	NA	ND(0.130) J	ND(0.00500) J
Nickel	NA	NA	ND(0.0600)	ND(0.0400)
Selenium	NA	NA	ND(0.00600)	ND(0.00500)
Silver	NA	NA	ND(0.0130)	ND(0.00500)
Sulfide	1.00 J	ND(1.00)	ND(5.00)	ND(5.00)
Thallium	NA	NA	ND(0.0130)	ND(0.0100) J
Tin	NA	NA	ND(0.300) j	ND(0.0300)
Vanadium	NA	NA	ND(0.0600)	ND(0.0500)
Zinc	NA	NA	0.0830	0.0110 J
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	NA	ND(0.0100) J
Arsenic	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100)
Barium	ND(0.100)	ND(0.500)	NA	0.00460 B
Beryllium	ND(0.0100) J	ND(0.0100)	NA	ND(0.00100)
Cadmium	ND(0.00500) J	ND(0.00500)	NA	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100)
Cobalt	ND(0.0100) J	ND(0.0100) J	NA	ND(0.0500)
Copper	ND(0.0100) J	ND(0.200) J	NA	0.00610 B
Lead	ND(0.0100)	ND(0.0100) J	NA	ND(0.00500) J
Nickel	ND(0.0100) J	ND(0.0500) J	NA	ND(0.0400)
Selenium	ND(0.0200)	0.00962 B J	NA	ND(0.00500)
Thallium	ND(0.0100) J	0.00784 B	NA	ND(0.0100) J
Tin	ND(0.0100) J	ND(0.100) J	NA	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)
Zinc	0.00957 B	0.0154 B	NA	0.0180 J

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	H78B-15 10/10/07	H78B-15 04/23/08	H78B-15 10/23/08	NY-4 06/14/99
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,1-Dichloroethane	0.00010 J	ND(0.0010)	ND(0.0010)	ND(0.0050)
Acetone	0.0031 J	ND(0.0050) J	ND(0.0050) J	ND(0.10)
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chloroform	ND(0.0010)	ND(0.0010)	0.00021 J	ND(0.0050)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050) J	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Toluene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichloroethene	0.00023 J	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.010)
Total VOCs	0.0034 J	ND(0.10)	0.00021 J	ND(0.20)
PCBs-Unfiltered				
Aroclor-1254	NA	NA	NA	0.00012
Aroclor-1260	NA	NA	NA	ND(0.00010)
Total PCBs	NA	NA	NA	0.00012
PCBs-Filtered				
Aroclor-1254	ND(0.000065)	ND(0.000067) J	ND(0.00010) J	NA
Aroclor-1260	ND(0.000065)	ND(0.000067) J	ND(0.00010) J	NA
Total PCBs	ND(0.000065)	ND(0.000067) J	ND(0.00010) J	NA
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.0052)	ND(0.0053)	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.0052)	ND(0.0053)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.0052)	0.0010 J	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.0052)	ND(0.0053)	ND(0.010)
Dimethylphthalate	ND(0.010)	ND(0.0052)	ND(0.0053)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.0052)	ND(0.0053)	ND(0.010)
Furans				
2,3,7,8-TCDF	ND(0.0000000017)	ND(0.0000000033)	ND(0.0000000030)	ND(0.0000000020)
TCDFs (total)	ND(0.0000000017)	ND(0.0000000033)	0.000000025	ND(0.0000000020)
1,2,3,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000074)
2,3,4,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000069)
PeCDFs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000074)
1,2,3,4,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000021)
1,2,3,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000022)
1,2,3,7,8,9-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000021)
2,3,4,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000023)
HxCDFs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000023)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000054)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000052)	ND(0.0000000063)	ND(0.0000000051)	ND(0.000000054)
HpCDFs (total)	ND(0.0000000052)	ND(0.0000000056)	ND(0.0000000051)	ND(0.000000054)
OCDF	ND(0.000000011)	ND(0.000000031)	ND(0.000000011)	ND(0.000000067)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000020)	ND(0.0000000043)	ND(0.0000000023)	ND(0.0000000030)
TCDDs (total)	ND(0.0000000020)	ND(0.0000000043)	ND(0.0000000023)	ND(0.0000000030)
1,2,3,7,8-PeCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000031)
PeCDDs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000051)	ND(0.000000031)
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000051)	ND(0.000000032)
1,2,3,6,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000051)	ND(0.000000040)
1,2,3,7,8,9-HxCDD	ND(0.0000000052)	ND(0.0000000055)	ND(0.0000000051)	ND(0.000000036)
HxCDDs (total)	ND(0.0000000052)	ND(0.0000000054)	ND(0.0000000051)	ND(0.000000040)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000052)	ND(0.0000000074)	ND(0.0000000051)	ND(0.000000082)
HpCDDs (total)	ND(0.0000000052)	ND(0.0000000074)	ND(0.0000000051)	ND(0.000000082)
OCDD	ND(0.000000011)	ND(0.000000037)	ND(0.000000013)	ND(0.000000084)
Total TEQs (WHO TEFs)	0.0000000070	0.0000000083	0.0000000072	0.000000029

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	H78B-15 10/10/07	H78B-15 04/23/08	H78B-15 10/23/08	NY-4 06/14/99
Inorganics-Unfiltered				
Antimony	NA	NA	NA	ND(0.0600)
Arsenic	NA	NA	NA	ND(0.00600)
Barium	NA	NA	NA	0.0200
Beryllium	NA	NA	NA	ND(0.00600)
Cadmium	NA	NA	NA	ND(0.00600)
Chromium	NA	NA	NA	ND(0.0130)
Cobalt	NA	NA	NA	ND(0.0600)
Copper	NA	NA	NA	ND(0.0330)
Lead	NA	NA	NA	ND(0.130) J
Nickel	NA	NA	NA	ND(0.0600)
Selenium	NA	NA	NA	ND(0.00600) J
Silver	NA	NA	NA	ND(0.0130)
Sulfide	ND(1.00) J	ND(1.00)	ND(1.00)	ND(5.00)
Thallium	NA	NA	NA	ND(0.0130)
Tin	NA	NA	NA	ND(0.300)
Vanadium	NA	NA	NA	ND(0.0600)
Zinc	NA	NA	NA	ND(0.0260)
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)	NA
Arsenic	0.00346 B	ND(0.0100)	ND(0.0100) J	NA
Barium	0.0546 B	ND(0.100)	ND(0.500)	NA
Beryllium	ND(0.0100)	0.000940 J	ND(0.0100)	NA
Cadmium	ND(0.00500) J	ND(0.00500) J	ND(0.00500)	NA
Chromium	ND(0.0100) J	0.00134 B	ND(0.0100) J	NA
Cobalt	ND(0.0100)	ND(0.0100) J	ND(0.0100) J	NA
Copper	ND(0.0100)	ND(0.0100) J	ND(0.200) J	NA
Lead	ND(0.0100)	ND(0.0100)	ND(0.0100) J	NA
Nickel	ND(0.0100)	ND(0.0100) J	ND(0.0500) J	NA
Selenium	ND(0.0200)	ND(0.0200)	0.00918 B J	NA
Thallium	ND(0.0100) J	ND(0.0100) J	ND(0.0100)	NA
Tin	ND(0.0100)	ND(0.0100) J	ND(0.100) J	NA
Vanadium	ND(0.0500)	ND(0.0500)	0.00587 B	NA
Zinc	0.194	ND(0.0200)	0.00439 B	NA

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	NY-4 04/30/01	OPCA-MW-1 06/16/99	OPCA-MW-1 05/02/01	OPCA-MW-1R 10/05/07
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Acetone	ND(0.010)	ND(0.10)	ND(0.010)	ND(0.0050) J
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0050)	ND(0.0020)	0.015
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride	ND(0.0020)	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs	ND(0.20)	ND(0.20)	ND(0.20)	0.015
PCBs-Unfiltered				
Aroclor-1254	0.00023	0.000054	ND(0.000065)	NA
Aroclor-1260	0.000080	ND(0.000050)	ND(0.000065)	NA
Total PCBs	0.00031	0.000054	ND(0.000065)	NA
PCBs-Filtered				
Aroclor-1254	0.00011	NA	ND(0.000065)	ND(0.00010)
Aroclor-1260	ND(0.000065)	NA	ND(0.000065)	ND(0.00010)
Total PCBs	0.00011	NA	ND(0.000065)	ND(0.00010)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.012)	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Furans				
2,3,7,8-TCDF	ND(0.0000000011)	ND(0.0000000011)	ND(0.0000000013)	0.0000000025 J
TCDFs (total)	ND(0.000000018) X	0.0000000090 J	ND(0.0000000013)	0.00000035 J
1,2,3,7,8-PeCDF	ND(0.000000012)	ND(0.0000000025)	ND0.0000000037)	ND(0.0000000050)
2,3,4,7,8-PeCDF	0.0000000034 J	ND(0.0000000024)	ND(0.0000000015)	ND(0.0000000050)
PeCDFs (total)	0.000000044	ND(0.0000000025)	ND(0.0000000037)	0.00000031 J
1,2,3,4,7,8-HxCDF	ND(0.000000013)	ND(0.0000000011)	ND(0.0000000025)	ND(0.0000000050)
1,2,3,6,7,8-HxCDF	ND(0.0000000032)	ND(0.0000000011)	ND(0.0000000015)	ND(0.0000000050)
1,2,3,7,8,9-HxCDF	ND(0.0000000010)	ND(0.0000000016)	ND(0.0000000021)	ND(0.0000000050)
2,3,4,6,7,8-HxCDF	ND(0.0000000017)	ND(0.0000000012)	ND(0.00000000090)	ND(0.0000000050)
HxCDFs (total)	ND(0.000000027)	ND(0.0000000016)	ND(0.0000000046)	0.00000014
1,2,3,4,6,7,8-HpCDF	ND(0.0000000066)	ND(0.0000000073)	ND(0.0000000025)	ND(0.0000000050)
1,2,3,4,7,8,9-HpCDF	0.0000000034 JB	ND(0.0000000090)	ND(0.0000000015)	ND(0.0000000050)
HpCDFs (total)	ND(0.000000014)	0.0000000078 J	ND(0.0000000025)	ND(0.0000000050)
OCDF	0.000000023 J	ND(0.0000000037)	ND(0.0000000046)	ND(0.000000010)
Dioxins				
2,3,7,8-TCDD	0.000000017	ND(0.0000000012)	ND(0.0000000018)	ND(0.0000000013)
TCDDs (total)	0.000000017	ND(0.0000000012)	ND(0.0000000018)	ND(0.0000000013)
1,2,3,7,8-PeCDD	ND(0.0000000018)	ND(0.0000000046)	ND(0.0000000015)	ND(0.0000000050)
PeCDDs (total)	ND(0.0000000093)	ND(0.0000000046)	ND(0.0000000015)	ND(0.0000000050)
1,2,3,4,7,8-HxCDD	ND(0.0000000016)	ND(0.0000000034)	ND(0.0000000012)	ND(0.0000000050)
1,2,3,6,7,8-HxCDD	ND(0.000000017)	ND(0.0000000042)	ND(0.0000000013)	ND(0.0000000050)
1,2,3,7,8,9-HxCDD	ND(0.000000012)	ND(0.0000000038)	ND(0.0000000012)	ND(0.0000000050)
HxCDDs (total)	ND(0.000000062)	ND(0.0000000042)	ND(0.0000000025)	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDD	0.000000084 B	ND(0.0000000070)	ND(0.0000000045)	ND(0.0000000050)
HpCDDs (total)	0.00000012	ND(0.0000000070)	ND(0.0000000045)	ND(0.0000000050)
OCDD	ND(0.000000048)	ND(0.0000000044)	ND(0.000000029)	ND(0.000000010)
Total TEQs (WHO TEFs)	0.000000023	0.0000000046	0.0000000028	0.0000000066

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	NY-4 04/30/01	OPCA-MW-1 06/16/99	OPCA-MW-1 05/02/01	OPCA-MW-1R 10/05/07
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	ND(0.0600)	NA
Arsenic	0.00450 B	ND(0.00600)	0.00450 B	NA
Barium	0.0300 B	0.0620	0.0240 B	NA
Beryllium	ND(0.00100)	ND(0.00600)	ND(0.00100)	NA
Cadmium	ND(0.00500)	ND(0.00600) J	ND(0.00500)	NA
Chromium	0.00460 B	ND(0.0130)	ND(0.025) J	NA
Cobalt	ND(0.0500)	ND(0.0600)	0.000350 B	NA
Copper	0.0100 B	ND(0.0330)	ND(0.0250)	NA
Lead	ND(0.00500)	ND(0.130) J	ND(0.0050) J	NA
Nickel	ND(0.0400)	ND(0.0600)	ND(0.0400)	NA
Selenium	0.0080 J	ND(0.00600)	ND(0.00500)	NA
Silver	ND(0.00500)	ND(0.0130)	ND(0.00500)	NA
Sulfide	ND(5.00)	ND(5.00)	ND(5.00)	ND(1.00)
Thallium	ND(0.0100)	ND(0.0130)	ND(0.010) J	NA
Tin	ND(0.0300)	ND(0.300) j	ND(0.0300)	NA
Vanadium	ND(0.0500)	ND(0.0600)	ND(0.0500)	NA
Zinc	0.0350	ND(0.0260)	0.028 J	NA
Inorganics-Filtered				
Antimony	ND(0.0600)	NA	ND(0.0600)	ND(0.0400)
Arsenic	ND(0.0100)	NA	ND(0.0100)	ND(0.0100)
Barium	0.0170 B	NA	0.0230 B	ND(0.107)
Beryllium	ND(0.00100)	NA	ND(0.00100)	ND(0.0100) J
Cadmium	ND(0.00500)	NA	ND(0.00500)	ND(0.0050) J
Chromium	ND(0.0100)	NA	ND(0.025) J	ND(0.0100) J
Cobalt	ND(0.0500)	NA	ND(0.0500)	ND(0.0100)
Copper	0.00410 B	NA	0.00420 B	ND(0.0100) J
Lead	ND(0.00500)	NA	ND(0.0050) J	ND(0.0100) J
Nickel	ND(0.0400)	NA	ND(0.0400)	ND(0.0100) J
Selenium	0.0075 J	NA	ND(0.00500)	ND(0.0200) J
Thallium	ND(0.0100)	NA	ND(0.010) J	ND(0.0100)
Tin	ND(0.0300)	NA	ND(0.0300)	ND(0.100) J
Vanadium	ND(0.0500)	NA	ND(0.0500)	ND(0.0500)
Zinc	0.0180 B	NA	0.028 J	ND(0.0200)

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-1RR 10/20/08	OPCA-MW-2 06/15/99	OPCA-MW-2 05/02/01
Volatile Organics			
1,1,1-Trichloroethane	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1-Dichloroethane	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Acetone	ND(2.5) J	ND(0.10) [ND(0.10)]	ND(0.010)
Bromoform	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chlorobenzene	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chloroform	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibromochloromethane	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Methylene Chloride	ND(2.5)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroethene	3.6	ND(0.0050) [ND(0.0050)]	ND(0.0020)
Toluene	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichloroethene	ND(0.50)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichlorofluoromethane	ND(0.50) J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vinyl Chloride	ND(0.50) J	ND(0.010) [ND(0.010)]	ND(0.0020)
Total VOCs	3.6	ND(0.20) [ND(0.20)]	ND(0.20)
PCBs-Unfiltered			
Aroclor-1254	NA	ND(0.000050) [ND(0.000050)]	ND(0.000065)
Aroclor-1260	NA	ND(0.000050) [ND(0.000050)]	ND(0.000065)
Total PCBs	NA	ND(0.000050) [ND(0.000050)]	ND(0.000065)
PCBs-Filtered			
Aroclor-1254	ND(0.00010) J	NA	ND(0.000065)
Aroclor-1260	ND(0.00010) J	NA	ND(0.000065)
Total PCBs	ND(0.00010) J	NA	ND(0.000065)
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.010)
Acenaphthene	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.0060)
Dibenzofuran	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.010)
Dimethylphthalate	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.010)
Naphthalene	ND(0.0051)	ND(0.010) [ND(0.010)]	ND(0.010)
Furans			
2,3,7,8-TCDF	ND(0.0000000035)	ND(0.00000000080) [ND(0.00000000060)]	ND(0.0000000013)
TCDFs (total)	ND(0.0000000035)	ND(0.00000000080) [ND(0.00000000060)]	ND(0.0000000013)
1,2,3,7,8-PeCDF	ND(0.0000000053)	ND(0.0000000038) [ND(0.0000000021)]	ND(0.0000000020)
2,3,4,7,8-PeCDF	ND(0.0000000053)	ND(0.0000000040) [ND(0.0000000023)]	ND(0.0000000020)
PeCDFs (total)	ND(0.0000000053)	ND(0.0000000040) [ND(0.0000000023)]	ND(0.0000000020)
1,2,3,4,7,8-HxCDF	ND(0.0000000053)	ND(0.000000011) [ND(0.0000000051)]	ND(0.0000000022)
1,2,3,6,7,8-HxCDF	ND(0.0000000053)	ND(0.000000011) [ND(0.0000000052)]	ND(0.0000000010)
1,2,3,7,8,9-HxCDF	ND(0.0000000053)	ND(0.000000017) [ND(0.0000000049)]	ND(0.0000000014)
2,3,4,6,7,8-HxCDF	ND(0.0000000053)	ND(0.000000011) [ND(0.0000000054)]	ND(0.0000000012)
HxCDFs (total)	ND(0.0000000053)	ND(0.000000017) [ND(0.0000000054)]	ND(0.0000000022)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000053)	ND(0.000000048) [ND(0.000000011)]	ND(0.0000000018)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000065)	ND(0.000000031) [ND(0.000000013)]	ND(0.0000000022)
HpCDFs (total)	ND(0.0000000065)	ND(0.000000048) [0.000000013 J]	ND(0.0000000020)
OCDF	ND(0.000000015)	ND(0.000000022) [ND(0.000000010)]	ND(0.0000000043)
Dioxins			
2,3,7,8-TCDD	ND(0.0000000032)	ND(0.0000000015) [ND(0.0000000011)]	ND(0.0000000017)
TCDDs (total)	ND(0.0000000032)	ND(0.0000000015) [ND(0.0000000011)]	ND(0.0000000017)
1,2,3,7,8-PeCDD	ND(0.0000000053)	ND(0.000000015) [ND(0.0000000076)]	ND(0.0000000018)
PeCDDs (total)	ND(0.0000000053)	ND(0.000000015) [ND(0.0000000076)]	ND(0.0000000018)
1,2,3,4,7,8-HxCDD	ND(0.0000000053)	ND(0.000000014) [ND(0.0000000068)]	ND(0.0000000017)
1,2,3,6,7,8-HxCDD	ND(0.0000000053)	ND(0.000000017) [ND(0.0000000085)]	ND(0.0000000017)
1,2,3,7,8,9-HxCDD	ND(0.0000000053)	ND(0.000000015) [ND(0.0000000076)]	ND(0.0000000017)
HxCDDs (total)	ND(0.0000000053)	ND(0.000000017) [ND(0.0000000085)]	ND(0.0000000017)
1,2,3,4,6,7,8-HpCDD	ND(0.000000011)	ND(0.000000036) [ND(0.000000013)]	ND(0.0000000031)
HpCDDs (total)	ND(0.000000011)	ND(0.000000036) [ND(0.000000013)]	ND(0.0000000031)
OCDD	ND(0.000000018)	ND(0.000000033) [ND(0.000000015)]	ND(0.000000012)
Total TEQs (WHO TEFs)	0.0000000078	0.000000015 [0.0000000074]	0.0000000029

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-1RR 10/20/08	OPCA-MW-2 06/15/99	OPCA-MW-2 05/02/01
Inorganics-Unfiltered			
Antimony	NA	ND(0.0600) [ND(0.0600)]	ND(0.0600)
Arsenic	NA	ND(0.00600) [ND(0.00600)]	ND(0.0100)
Barium	NA	0.0320 [0.0340]	0.0190 B
Beryllium	NA	ND(0.00600) [ND(0.00600)]	ND(0.00100)
Cadmium	NA	ND(0.00600) [ND(0.00600)]	ND(0.00500)
Chromium	NA	ND(0.0130) [ND(0.0130)]	ND(0.025) J
Cobalt	NA	ND(0.0600) [ND(0.0600)]	ND(0.0500)
Copper	NA	ND(0.0330) [ND(0.0330)]	ND(0.0250)
Lead	NA	ND(0.130) J [ND(0.130) J]	ND(0.0050) J
Nickel	NA	ND(0.0600) [ND(0.0600)]	ND(0.0400)
Selenium	NA	ND(0.00600) J [ND(0.00600) J]	0.00890
Silver	NA	ND(0.0130) [ND(0.0130)]	ND(0.00500)
Sulfide	1.20	ND(5.00) [ND(5.00)]	ND(5.00)
Thallium	NA	ND(0.0130) [ND(0.0130)]	ND(0.010) J
Tin	NA	ND(0.300) [ND(0.300)]	ND(0.0300)
Vanadium	NA	ND(0.0600) [ND(0.0600)]	ND(0.0500)
Zinc	NA	ND(0.0260) [ND(0.0260)]	0.016 BJ
Inorganics-Filtered			
Antimony	ND(0.0400)	NA	ND(0.0600)
Arsenic	0.00195 B J	NA	ND(0.0100)
Barium	0.0453 B	NA	0.0180 B
Beryllium	ND(0.0100) J	NA	ND(0.00100)
Cadmium	0.00256 B J	NA	ND(0.00500)
Chromium	ND(0.0100) J	NA	ND(0.025) J
Cobalt	ND(0.0100) J	NA	ND(0.0500)
Copper	ND(0.200) J	NA	ND(0.0250)
Lead	0.00395 B J	NA	ND(0.0050) J
Nickel	ND(0.0500)	NA	ND(0.0400)
Selenium	ND(0.0200) J	NA	ND(0.00500)
Thallium	ND(0.0100) J	NA	ND(0.010) J
Tin	ND(0.100) J	NA	ND(0.0300)
Vanadium	ND(0.0500)	NA	ND(0.0500)
Zinc	ND(0.0500)	NA	0.020 BJ

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-2 10/08/07	OPCA-MW-2R 10/20-10/21/08	OPCA-MW-3 06/16/99
Volatile Organics			
1,1,1-Trichloroethane	0.00013 J [0.00013 J]	0.00013 J	ND(0.0050)
1,1-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Acetone	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J	ND(0.10)
Bromoform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Chlorobenzene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Chloroform	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Dibromochloromethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Methylene Chloride	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010) [ND(0.0010)]	0.0030	ND(0.0050)
Toluene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Trichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Trichlorofluoromethane	0.00040 J [0.00041 J]	ND(0.0010) J	ND(0.0050)
Vinyl Chloride	ND(0.0010) [ND(0.0010)]	ND(0.0010) J	ND(0.010)
Total VOCs	0.00053 J [0.00054 J]	0.0031 J	ND(0.20)
PCBs-Unfiltered			
Aroclor-1254	NA	NA	0.000040 J
Aroclor-1260	NA	NA	ND(0.000051)
Total PCBs	NA	NA	0.000040 J
PCBs-Filtered			
Aroclor-1254	ND(0.00010) [ND(0.00010)]	ND(0.000072) J	NA
Aroclor-1260	ND(0.00010) [ND(0.00010)]	ND(0.000072) J	NA
Total PCBs	ND(0.00010) [ND(0.00010)]	ND(0.000072) J	NA
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
Acenaphthene	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
bis(2-Ethylhexyl)phthalate	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
Dibenzofuran	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
Dimethylphthalate	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
Naphthalene	ND(0.010) [ND(0.010)]	ND(0.0053)	ND(0.011)
Furans			
2,3,7,8-TCDF	ND(0.0000000014) [ND(0.0000000015) X]	ND(0.0000000036)	ND(0.0000000035)
TCDFs (total)	0.000000036 J [0.000000050 J]	ND(0.0000000036)	ND(0.0000000035)
1,2,3,7,8-PeCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000041)
2,3,4,7,8-PeCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000039)
PeCDFs (total)	0.000000016 J [0.000000049 J]	ND(0.0000000052)	ND(0.0000000041)
1,2,3,4,7,8-HxCDF	ND(0.0000000050) [0.0000000055 J]	ND(0.0000000052)	ND(0.0000000013)
1,2,3,6,7,8-HxCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000013)
1,2,3,7,8,9-HxCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000018)
2,3,4,6,7,8-HxCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000013)
HxCDFs (total)	ND(0.0000000050) [0.000000017 J]	ND(0.0000000052)	ND(0.0000000018)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000080)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000058)	ND(0.0000000099)
HpCDFs (total)	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000058)	ND(0.0000000099)
OCDF	ND(0.000000010) [ND(0.000000010)]	ND(0.000000013)	ND(0.0000000041)
Dioxins			
2,3,7,8-TCDD	ND(0.0000000014) [ND(0.0000000018) X]	ND(0.0000000032)	ND(0.0000000020)
TCDDs (total)	ND(0.0000000014) [ND(0.0000000012)]	ND(0.0000000032)	ND(0.0000000020)
1,2,3,7,8-PeCDD	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000089)
PeCDDs (total)	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000089)
1,2,3,4,7,8-HxCDD	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000058)
1,2,3,6,7,8-HxCDD	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000072)
1,2,3,7,8,9-HxCDD	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000064)
HxCDDs (total)	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000052)	ND(0.0000000072)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000083)	ND(0.0000000077)
HpCDDs (total)	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000083)	ND(0.0000000077)
OCDD	ND(0.000000010) [0.000000015 J]	ND(0.000000016)	ND(0.0000000048)
Total TEQs (WHO TEFs)	0.0000000065 [0.0000000071]	0.0000000077	0.0000000081

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-2 10/08/07	OPCA-MW-2R 10/20-10/21/08	OPCA-MW-3 06/16/99
Inorganics-Unfiltered			
Antimony	NA	NA	ND(0.0600)
Arsenic	NA	NA	ND(0.00600)
Barium	NA	NA	0.00950
Beryllium	NA	NA	ND(0.00600)
Cadmium	NA	NA	ND(0.00600) J
Chromium	NA	NA	ND(0.0130)
Cobalt	NA	NA	ND(0.0600)
Copper	NA	NA	ND(0.0330)
Lead	NA	NA	ND(0.130) J
Nickel	NA	NA	ND(0.0600)
Selenium	NA	NA	ND(0.00600)
Silver	NA	NA	ND(0.0130)
Sulfide	ND(1.00) J [ND(1.00) J]	1.00	ND(5.00)
Thallium	NA	NA	ND(0.0130)
Tin	NA	NA	ND(0.300) j
Vanadium	NA	NA	ND(0.0600)
Zinc	NA	NA	0.0880
Inorganics-Filtered			
Antimony	ND(0.0400) [ND(0.0400)]	ND(0.0400)	NA
Arsenic	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	NA
Barium	0.0144 B [0.0128 B]	0.0435 B	NA
Beryllium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	NA
Cadmium	ND(0.00500) J [ND(0.00500) J]	0.00263 B J	NA
Chromium	ND(0.0100) [ND(0.0100)]	ND(0.0100) J	NA
Cobalt	ND(0.0100) [ND(0.0100)]	ND(0.0100) J	NA
Copper	ND(0.0100) [ND(0.0100)]	ND(0.200) J	NA
Lead	ND(0.0100) [ND(0.0100)]	0.00420 B J	NA
Nickel	0.00638 B [ND(0.0100)]	ND(0.0500)	NA
Selenium	ND(0.0200) J [ND(0.0200) J]	ND(0.0200) J	NA
Thallium	ND(0.0100) [ND(0.0100)]	ND(0.0100) J	NA
Tin	ND(0.0100) [ND(0.0100)]	ND(0.100) J	NA
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	NA
Zinc	ND(0.0200) [ND(0.0200)]	ND(0.0500)	NA

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-3 05/02/01	OPCA-MW-3 10/09/07	OPCA-MW-3 04/23/08	OPCA-MW-3 10/22/08
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	ND(0.010)	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs	ND(0.20)	ND(0.10)	ND(0.10)	ND(0.10)
PCBs-Unfiltered				
Aroclor-1254	ND(0.000065)	NA	NA	NA
Aroclor-1260	ND(0.000065)	NA	NA	NA
Total PCBs	ND(0.000065)	NA	NA	NA
PCBs-Filtered				
Aroclor-1254	ND(0.000065)	ND(0.000065)	ND(0.000066) J	ND(0.00011)
Aroclor-1260	ND(0.000065)	ND(0.000065)	ND(0.000066) J	ND(0.00011)
Total PCBs	ND(0.000065)	ND(0.000065)	ND(0.000066) J	ND(0.00011)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.0053)	ND(0.0054)
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.0053)	ND(0.0054)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.010)	ND(0.0053)	ND(0.0054)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.0053)	ND(0.0054)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.0053)	ND(0.0054)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.0053)	ND(0.0054)
Furans				
2,3,7,8-TCDF	ND(0.0000000011)	ND(0.0000000015)	ND(0.0000000049)	ND(0.0000000048)
TCDFs (total)	ND(0.0000000011)	ND(0.0000000015)	ND(0.0000000049)	ND(0.0000000048)
1,2,3,7,8-PeCDF	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
2,3,4,7,8-PeCDF	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
PeCDFs (total)	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,7,8-HxCDF	ND(0.0000000010)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,6,7,8-HxCDF	ND(0.0000000010)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,7,8,9-HxCDF	ND(0.0000000013)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
2,3,4,6,7,8-HxCDF	ND(0.0000000011)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
HxCDFs (total)	ND(0.0000000011)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000014)	ND(0.0000000050)	ND(0.0000000053)	ND(0.0000000059)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000017)	ND(0.0000000050)	ND(0.0000000067)	ND(0.0000000076)
HpCDFs (total)	ND(0.0000000015)	ND(0.0000000050)	ND(0.0000000059)	ND(0.0000000076)
OCDF	ND(0.0000000031)	ND(0.000000010)	ND(0.000000012)	ND(0.000000025)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000016)	ND(0.0000000017)	ND(0.0000000054)	ND(0.0000000043)
TCDDs (total)	ND(0.0000000016)	ND(0.0000000017)	ND(0.0000000054)	ND(0.0000000043)
1,2,3,7,8-PeCDD	ND(0.0000000018)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
PeCDDs (total)	ND(0.0000000018)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,7,8-HxCDD	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,6,7,8-HxCDD	ND(0.0000000017)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,7,8,9-HxCDD	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
HxCDDs (total)	ND(0.0000000016)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000025)	ND(0.0000000050)	ND(0.0000000077)	ND(0.000000012)
HpCDDs (total)	ND(0.0000000025)	ND(0.0000000050)	ND(0.0000000077)	ND(0.000000012)
OCDD	ND(0.000000010)	ND(0.000000010)	ND(0.000000012)	ND(0.000000030)
Total TEQs (WHO TEFs)	0.0000000027	0.0000000067	0.0000000089	0.0000000086

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-3 05/02/01	OPCA-MW-3 10/09/07	OPCA-MW-3 04/23/08	OPCA-MW-3 10/22/08
Inorganics-Unfiltered				
Antimony	ND(0.0600)	NA	NA	NA
Arsenic	0.00420 B	NA	NA	NA
Barium	0.0760 B	NA	NA	NA
Beryllium	ND(0.00100)	NA	NA	NA
Cadmium	ND(0.00500)	NA	NA	NA
Chromium	ND(0.025) J	NA	NA	NA
Cobalt	ND(0.0500)	NA	NA	NA
Copper	0.00610 B	NA	NA	NA
Lead	ND(0.0050) J	NA	NA	NA
Nickel	ND(0.0400)	NA	NA	NA
Selenium	0.00540	NA	NA	NA
Silver	ND(0.00500)	NA	NA	NA
Sulfide	ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00)
Thallium	ND(0.010) J	NA	NA	NA
Tin	ND(0.0300)	NA	NA	NA
Vanadium	ND(0.0500)	NA	NA	NA
Zinc	0.035 J	NA	NA	NA
Inorganics-Filtered				
Antimony	ND(0.0600)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100) J
Barium	0.0700 B	0.0620 B	0.0277 B	0.0519 B
Beryllium	ND(0.00100)	0.000330 B	0.00548 J	ND(0.0100) J
Cadmium	ND(0.00500)	ND(0.00500) J	ND(0.00500) J	ND(0.00500) J
Chromium	ND(0.025) J	ND(0.0100) J	0.00224 B	ND(0.0100) J
Cobalt	ND(0.0500)	ND(0.0100)	ND(0.0100) J	ND(0.0100) J
Copper	0.00660 B	ND(0.0100)	ND(0.0100) J	ND(0.200) J
Lead	ND(0.0050) J	ND(0.0100)	ND(0.0100)	0.00564 B J
Nickel	ND(0.0400)	ND(0.0100)	ND(0.0100) J	ND(0.0500)
Selenium	ND(0.00500)	ND(0.0200)	ND(0.0200)	ND(0.0200) J
Thallium	ND(0.010) J	ND(0.0100) J	0.00638 J	ND(0.0100) J
Tin	ND(0.0300)	ND(0.0100)	ND(0.0100) J	ND(0.100) J
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.017 J	ND(0.0200)	ND(0.0200)	ND(0.0500)

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-4 06/15/99	OPCA-MW-4 05/02/01	OPCA-MW-4 10/09/07	OPCA-MW-4 04/22/08
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Acetone	ND(0.10)	ND(0.010)	ND(0.0050) J	ND(0.0050) J
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0010)	0.00012 J
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0050)	ND(0.0020)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0050)	ND(0.0050)	0.00032 J	ND(0.0010) J
Trichloroethene	ND(0.0050)	ND(0.0050)	0.0017	0.0014 J
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Vinyl Chloride	ND(0.010)	ND(0.0020)	ND(0.0010)	0.00032 J
Total VOCs	ND(0.20)	ND(0.20)	0.0020 J	0.0018 J
PCBs-Unfiltered				
Aroclor-1254	0.00089	0.000093	NA	NA
Aroclor-1260	ND(0.000050)	ND(0.000065)	NA	NA
Total PCBs	0.00089	0.000093	NA	NA
PCBs-Filtered				
Aroclor-1254	NA	0.00015	ND(0.000065)	ND(0.000068)
Aroclor-1260	NA	ND(0.000065)	ND(0.000065)	ND(0.000068)
Total PCBs	NA	0.00015	ND(0.000065)	ND(0.000068)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	0.0016 J
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
bis(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.0060)	ND(0.010)	ND(0.0052)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0052)
Furans				
2,3,7,8-TCDF	ND(0.00000000070)	ND(0.0000000012)	ND(0.0000000020)	0.0000000094 J
TCDFs (total)	ND(0.00000000070)	0.000000016	ND(0.0000000020)	0.00000022
1,2,3,7,8-PeCDF	ND(0.0000000043)	ND(0.0000000083)	ND(0.0000000052)	0.0000000074 J
2,3,4,7,8-PeCDF	ND(0.0000000040)	ND(0.000000011)	ND(0.0000000052)	ND(0.0000000066)
PeCDFs (total)	ND(0.0000000043)	ND(0.000000063)	ND(0.0000000056)	0.000000042 J
1,2,3,4,7,8-HxCDF	ND(0.0000000090)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000051)
1,2,3,6,7,8-HxCDF	ND(0.0000000092)	ND(0.0000000045)	ND(0.0000000052)	ND(0.0000000051)
1,2,3,7,8,9-HxCDF	ND(0.0000000087)	ND(0.0000000056)	ND(0.0000000052)	ND(0.0000000053)
2,3,4,6,7,8-HxCDF	ND(0.0000000095)	ND(0.0000000032)	ND(0.0000000052)	ND(0.0000000051)
HxCDFs (total)	ND(0.0000000095)	ND(0.000000019)	ND(0.0000000052)	0.000000011 J
1,2,3,4,6,7,8-HpCDF	ND(0.000000020)	ND(0.0000000046)	ND(0.0000000052)	ND(0.0000000051)
1,2,3,4,7,8,9-HpCDF	ND(0.000000020)	ND(0.0000000037)	ND(0.0000000052)	ND(0.0000000063)
HpCDFs (total)	ND(0.000000020)	ND(0.0000000084)	ND(0.0000000052)	ND(0.0000000055)
OCDF	ND(0.000000020)	ND(0.0000000090)	ND(0.000000010)	ND(0.000000013)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000013)	ND(0.0000000047)	ND(0.0000000025)	ND(0.0000000041)
TCDDs (total)	ND(0.0000000013)	ND(0.0000000047)	ND(0.0000000025)	ND(0.0000000041)
1,2,3,7,8-PeCDD	ND(0.000000018)	ND(0.0000000065)	ND(0.0000000052)	ND(0.0000000051)
PeCDDs (total)	ND(0.000000018)	ND(0.0000000065)	ND(0.0000000052)	ND(0.0000000051)
1,2,3,4,7,8-HxCDD	ND(0.000000013)	ND(0.0000000043)	ND(0.0000000052)	ND(0.0000000054)
1,2,3,6,7,8-HxCDD	ND(0.000000016)	ND(0.0000000016)	ND(0.0000000052)	ND(0.0000000055)
1,2,3,7,8,9-HxCDD	ND(0.000000014)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000056)
HxCDDs (total)	ND(0.000000016)	ND(0.0000000094)	ND(0.0000000052)	ND(0.0000000055)
1,2,3,4,6,7,8-HpCDD	ND(0.000000027)	ND(0.0000000064)	ND(0.0000000052)	ND(0.0000000085)
HpCDDs (total)	ND(0.000000027)	ND(0.0000000064)	ND(0.0000000052)	ND(0.0000000085)
OCDD	ND(0.000000030)	ND(0.000000029)	ND(0.000000010)	ND(0.000000016)
Total TEQs (WHO TEFs)	0.000000015	0.000000010	0.0000000073	0.0000000095

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Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-4 06/15/99	OPCA-MW-4 05/02/01	OPCA-MW-4 10/09/07	OPCA-MW-4 04/22/08
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	NA	NA
Arsenic	ND(0.00600)	ND(0.0100)	NA	NA
Barium	0.0370	0.0270 B	NA	NA
Beryllium	ND(0.00600)	ND(0.00100)	NA	NA
Cadmium	ND(0.00600)	ND(0.00500)	NA	NA
Chromium	ND(0.0130)	ND(0.0100) J	NA	NA
Cobalt	ND(0.0600)	ND(0.0500)	NA	NA
Copper	ND(0.0330)	ND(0.0250)	NA	NA
Lead	ND(0.130) J	ND(0.00500) J	NA	NA
Nickel	ND(0.0600)	ND(0.0400)	NA	NA
Selenium	ND(0.00600) J	ND(0.00500)	NA	NA
Silver	ND(0.0130)	ND(0.00500)	NA	NA
Sulfide	ND(5.00)	ND(5.00)	ND(1.00)	1.00 J
Thallium	ND(0.0130)	ND(0.0100) J	NA	NA
Tin	ND(0.300)	ND(0.0300)	NA	NA
Vanadium	ND(0.0600)	ND(0.0500)	NA	NA
Zinc	ND(0.0260)	0.0130 J	NA	NA
Inorganics-Filtered				
Antimony	NA	0.00800 B	ND(0.0400)	ND(0.0400)
Arsenic	NA	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	NA	0.0260 B	0.0270 B	0.00975 B
Beryllium	NA	ND(0.00100)	0.00373 B	ND(0.0100) J
Cadmium	NA	ND(0.00500)	ND(0.00500) J	ND(0.00500) J
Chromium	NA	ND(0.0100) J	ND(0.0100) J	0.00150 B
Cobalt	NA	ND(0.0500)	ND(0.0100)	ND(0.0100) J
Copper	NA	ND(0.0250)	ND(0.0100)	ND(0.0100) J
Lead	NA	ND(0.00500) J	ND(0.0100)	ND(0.0100)
Nickel	NA	ND(0.0400)	ND(0.0100)	ND(0.0100) J
Selenium	NA	0.00650	ND(0.0200)	ND(0.0200)
Thallium	NA	ND(0.0100) J	ND(0.0100) J	0.00936 J
Tin	NA	ND(0.0300)	ND(0.0100)	ND(0.0100) J
Vanadium	NA	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	NA	0.0150 J	0.0100 B	0.0112 B

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-4 10/20/08	OPCA-MW-5 06/15/99	OPCA-MW-5R 06/28/01	OPCA-MW-5R 10/09/07
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Acetone	ND(0.0050) J	ND(0.10)	ND(0.010) J	ND(0.0050) J
Bromoform	ND(0.0010)	ND(0.0050)	ND(0.0050) J	ND(0.0010)
Chlorobenzene	0.00017 J	ND(0.0050)	ND(0.0050)	0.00024 J
Chloroform	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0050)	ND(0.0020)	ND(0.0010)
Toluene	ND(0.0010)	ND(0.0050)	ND(0.0050)	0.00011 J
Trichloroethene	0.0016	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010) J	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride	ND(0.0010) J	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs	0.0018 J	ND(0.20)	ND(0.20)	0.00035 J
PCBs-Unfiltered				
Aroclor-1254	NA	ND(0.000051)	ND(0.000065)	NA
Aroclor-1260	NA	ND(0.000051)	ND(0.000065)	NA
Total PCBs	NA	ND(0.000051)	ND(0.000065)	NA
PCBs-Filtered				
Aroclor-1254	ND(0.000070) J	NA	ND(0.000065)	ND(0.00010)
Aroclor-1260	ND(0.000070) J	NA	ND(0.000065)	ND(0.00010)
Total PCBs	ND(0.000070) J	NA	ND(0.000065)	ND(0.00010)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.0052)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.0052)	ND(0.010)	0.011	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0052)	ND(0.010)	ND(0.0060) J	ND(0.010)
Dibenzofuran	ND(0.0052)	ND(0.010)	0.0038 J	ND(0.010)
Dimethylphthalate	ND(0.0052)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.0052)	ND(0.010)	0.062	ND(0.010)
Furans				
2,3,7,8-TCDF	0.0000000068 YJ	ND(0.00000000080)	ND(0.0000000000015)	0.0000000076 J
TCDFs (total)	0.00000042	ND(0.00000000080)	ND(0.0000000000015)	0.00000069 J
1,2,3,7,8-PeCDF	0.000000010 J	ND(0.0000000028)	ND(0.00000000000080)	ND(0.0000000052) J
2,3,4,7,8-PeCDF	0.0000000067 J	ND(0.0000000027)	ND(0.00000000000080)	ND(0.0000000052)
PeCDFs (total)	0.00000027	ND(0.0000000028)	ND(0.00000000000080)	0.00000090 J
1,2,3,4,7,8-HxCDF	ND(0.0000000053)	ND(0.0000000050)	ND(0.0000000000020)	0.000000053
1,2,3,6,7,8-HxCDF	ND(0.0000000053)	ND(0.0000000051)	ND(0.0000000000019)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000053)	ND(0.0000000049)	ND(0.0000000000024)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000053)	ND(0.0000000053)	ND(0.0000000000022)	ND(0.0000000052)
HxCDFs (total)	0.000000020	ND(0.0000000053)	ND(0.0000000000021)	0.00000042 J
1,2,3,4,6,7,8-HpCDF	ND(0.0000000053)	ND(0.0000000088)	ND(0.0000000000019)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000055)	ND(0.0000000088)	ND(0.0000000000023)	ND(0.0000000052)
HpCDFs (total)	ND(0.0000000055)	ND(0.0000000088)	ND(0.0000000000021)	ND(0.0000000052)
OCDF	ND(0.000000016)	ND(0.0000000078)	ND(0.000000000010)	ND(0.000000010)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000026)	ND(0.0000000012)	ND(0.0000000000031)	ND(0.0000000014)
TCDDs (total)	ND(0.0000000026)	ND(0.0000000012)	ND(0.0000000000031)	ND(0.0000000014)
1,2,3,7,8-PeCDD	ND(0.0000000053)	ND(0.000000014)	ND(0.0000000000015)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000053)	ND(0.000000014)	ND(0.0000000000044)	ND(0.0000000052) J
1,2,3,4,7,8-HxCDD	ND(0.0000000053)	ND(0.0000000062)	ND(0.0000000000029)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000053)	ND(0.0000000077)	ND(0.0000000000031)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000053)	ND(0.0000000068)	ND(0.0000000000028)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000053)	ND(0.0000000077)	ND(0.0000000000033)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000081)	ND(0.000000012)	ND(0.0000000000028)	ND(0.0000000052)
HpCDDs (total)	ND(0.0000000081)	ND(0.000000012)	ND(0.0000000000040)	ND(0.0000000052)
OCDD	ND(0.000000018)	ND(0.000000012)	ND(0.000000000016) X	0.000000018 J
Total TEQs (WHO TEFs)	0.000000010	0.000000011	0.0000000000035	0.000000012

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-4 10/20/08	OPCA-MW-5 06/15/99	OPCA-MW-5R 06/28/01	OPCA-MW-5R 10/09/07
Inorganics-Unfiltered				
Antimony	NA	ND(0.0600)	ND(0.0600)	NA
Arsenic	NA	ND(0.00600)	0.00790 B	NA
Barium	NA	0.0290	0.0590 B	NA
Beryllium	NA	ND(0.00600)	ND(0.00100)	NA
Cadmium	NA	ND(0.00600)	ND(0.00500)	NA
Chromium	NA	ND(0.0130)	0.00430 B	NA
Cobalt	NA	ND(0.0600)	0.00620 B	NA
Copper	NA	ND(0.0330)	ND(0.0250)	NA
Lead	NA	ND(0.130) J	ND(0.00500)	NA
Nickel	NA	ND(0.0600)	ND(0.0400)	NA
Selenium	NA	ND(0.00600) J	ND(0.00500)	NA
Silver	NA	ND(0.0130)	ND(0.00500)	NA
Sulfide	1.20	ND(5.00)	8.00	ND(1.00) J
Thallium	NA	ND(0.0130)	ND(0.0100)	NA
Tin	NA	ND(0.300)	ND(0.0300)	NA
Vanadium	NA	ND(0.0600)	ND(0.0500)	NA
Zinc	NA	ND(0.0260)	0.0150 B	NA
Inorganics-Filtered				
Antimony	ND(0.0400)	NA	ND(0.0600)	ND(0.0400)
Arsenic	ND(0.0100) J	NA	ND(0.0100)	ND(0.0100)
Barium	0.0253 B	NA	0.0440 B	0.0536 B
Beryllium	ND(0.0100) J	NA	0.000860 B	0.000330 B
Cadmium	0.00276 B J	NA	0.00140 B	ND(0.00500) J
Chromium	ND(0.0100) J	NA	ND(0.0100)	ND(0.0100) J
Cobalt	ND(0.0100) J	NA	0.00660 B	ND(0.0100)
Copper	ND(0.200) J	NA	ND(0.0250)	ND(0.0100)
Lead	0.00425 B J	NA	ND(0.00500)	ND(0.0100)
Nickel	ND(0.0500)	NA	ND(0.0400)	ND(0.0100)
Selenium	ND(0.0200) J	NA	ND(0.00500)	ND(0.0200)
Thallium	ND(0.0100) J	NA	ND(0.0100)	ND(0.0100) J
Tin	ND(0.100) J	NA	ND(0.0300)	ND(0.0100)
Vanadium	ND(0.0500)	NA	ND(0.0500)	ND(0.0500)
Zinc	0.0135 B	NA	0.0110 B	0.00813 B

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Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-5R 04/24/08	OPCA-MW-5R 10/21/08	OPCA-MW-6 06/15/99	OPCA-MW-6 05/02/01
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.10)	ND(0.010)
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chlorobenzene	0.00048 J	0.00011 J	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	0.00022 J	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0020)
Toluene	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0010) J	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0010) J	ND(0.0010) J	ND(0.0050)	ND(0.0050)
Vinyl Chloride	0.0012 J	ND(0.0010) J	ND(0.010)	ND(0.0020)
Total VOCs	0.0017 J	0.00033 J	ND(0.20)	ND(0.20)
PCBs-Unfiltered				
Aroclor-1254	NA	NA	0.00012	ND(0.000065)
Aroclor-1260	NA	NA	ND(0.000050)	ND(0.000065)
Total PCBs	NA	NA	0.00012	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	ND(0.000068) J	ND(0.000069) J	NA	ND(0.000065)
Aroclor-1260	ND(0.000068) J	ND(0.000069) J	NA	ND(0.000065)
Total PCBs	ND(0.000068) J	ND(0.000069) J	NA	ND(0.000065)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.0060)
Dibenzofuran	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.0051)	ND(0.0052)	ND(0.010)	ND(0.010)
Furans				
2,3,7,8-TCDF	0.0000000042 J	ND(0.0000000044)	ND(0.00000000090)	ND(0.0000000012)
TCDFs (total)	0.000000020	0.000000018	ND(0.00000000090)	ND(0.0000000012)
1,2,3,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000033)	ND(0.0000000016)
2,3,4,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000031)	ND(0.0000000016)
PeCDFs (total)	ND(0.0000000052)	0.0000000023	ND(0.0000000033)	ND(0.0000000016)
1,2,3,4,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000089)	ND(0.0000000015)
1,2,3,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000092)	ND(0.0000000011)
1,2,3,7,8,9-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000087)	ND(0.0000000014)
2,3,4,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000096)	ND(0.0000000012)
HxCDFs (total)	ND(0.0000000052)	0.0000000020	ND(0.0000000095)	ND(0.0000000015)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000020)	ND(0.0000000017)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000052)	ND(0.0000000057)	ND(0.000000020)	ND(0.0000000020)
HpCDFs (total)	ND(0.0000000052)	ND(0.0000000057)	ND(0.000000020)	ND(0.0000000018)
OCDF	ND(0.000000010)	ND(0.000000014)	ND(0.000000020)	ND(0.0000000039)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000010)	ND(0.0000000033)	ND(0.0000000012)	ND(0.0000000017)
TCDDs (total)	ND(0.0000000010)	ND(0.0000000033)	ND(0.0000000012)	ND(0.0000000017)
1,2,3,7,8-PeCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000012)	ND(0.0000000019)
PeCDDs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000012)	ND(0.0000000019)
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000012)	ND(0.0000000016)
1,2,3,6,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000015)	ND(0.0000000016)
1,2,3,7,8,9-HxCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000013)	ND(0.0000000016)
HxCDDs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000015)	ND(0.0000000016)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000026)	ND(0.0000000026)
HpCDDs (total)	ND(0.0000000052)	ND(0.0000000052)	ND(0.000000026)	ND(0.0000000026)
OCDD	ND(0.000000010)	ND(0.000000015)	ND(0.000000029)	ND(0.0000000047)
Total TEQs (WHO TEFs)	0.0000000068	0.0000000078	0.000000012	0.0000000028

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Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-5R 04/24/08	OPCA-MW-5R 10/21/08	OPCA-MW-6 06/15/99	OPCA-MW-6 05/02/01
Inorganics-Unfiltered				
Antimony	NA	NA	ND(0.0600)	ND(0.0600)
Arsenic	NA	NA	ND(0.00600)	ND(0.0100)
Barium	NA	NA	0.0300	0.0170 B
Beryllium	NA	NA	ND(0.00600)	ND(0.00100)
Cadmium	NA	NA	ND(0.00600)	ND(0.00500)
Chromium	NA	NA	ND(0.0130)	ND(0.0100) J
Cobalt	NA	NA	ND(0.0600)	ND(0.0500)
Copper	NA	NA	ND(0.0330)	0.00400 B
Lead	NA	NA	ND(0.130) J	ND(0.00500) J
Nickel	NA	NA	ND(0.0600)	ND(0.0400)
Selenium	NA	NA	ND(0.00600) J	0.00570
Silver	NA	NA	ND(0.0130)	ND(0.00500)
Sulfide	ND(1.00) J	1.00	ND(5.00)	ND(5.00)
Thallium	NA	NA	ND(0.0130)	ND(0.0100) J
Tin	NA	NA	ND(0.300)	ND(0.0300)
Vanadium	NA	NA	ND(0.0600)	ND(0.0500)
Zinc	NA	NA	ND(0.0260)	0.0210 J
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	NA	ND(0.0600)
Arsenic	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100)
Barium	0.0609 B	0.0538 B	NA	0.0160 B
Beryllium	0.00251 J	ND(0.0100) J	NA	ND(0.00100)
Cadmium	ND(0.00500) J	ND(0.00500) J	NA	ND(0.00500)
Chromium	0.00134 B	ND(0.0100) J	NA	ND(0.0100) J
Cobalt	ND(0.0100) J	ND(0.0100) J	NA	ND(0.0500)
Copper	ND(0.0100) J	ND(0.200) J	NA	ND(0.0250)
Lead	ND(0.0100)	0.00657 B J	NA	ND(0.00500) J
Nickel	ND(0.0100) J	ND(0.0500)	NA	ND(0.0400)
Selenium	ND(0.0200)	ND(0.0200) J	NA	0.00590
Thallium	ND(0.0100) J	ND(0.0100) J	NA	ND(0.0100) J
Tin	ND(0.0100) J	ND(0.100) J	NA	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)
Zinc	0.00643 B	0.0106 B	NA	0.0150 J

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Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/15/07	OPCA-MW-6 04/23/08	OPCA-MW-6 10/21/08
Volatile Organics			
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Acetone	ND(0.0050) J	0.0015 J	ND(0.0050) J [ND(0.0050) J]
Bromoform	ND(0.0010) J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroform	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chloride	ND(0.0050)	ND(0.0050) J	ND(0.0050) [ND(0.0050)]
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Toluene	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	ND(0.0010) J [ND(0.0010) J]
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.0010) J [ND(0.0010) J]
Total VOCs	ND(0.10)	0.0015 J	ND(0.10) [ND(0.10)]
PCBs-Unfiltered			
Aroclor-1254	NA	NA	NA
Aroclor-1260	NA	NA	NA
Total PCBs	NA	NA	NA
PCBs-Filtered			
Aroclor-1254	ND(0.000065)	0.00017 J	ND(0.00011) J [ND(0.000068) J]
Aroclor-1260	ND(0.000065)	ND(0.000066) J	ND(0.00011) J [ND(0.000068) J]
Total PCBs	ND(0.000065)	0.00017 J	ND(0.00011) J [ND(0.000068) J]
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
Acenaphthene	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
bis(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
Dibenzofuran	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
Dimethylphthalate	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
Naphthalene	ND(0.010)	ND(0.0051)	ND(0.0052) [ND(0.0052)]
Furans			
2,3,7,8-TCDF	ND(0.0000000021)	0.0000000044 J	0.0000000049 J [0.0000000058 J]
TCDFs (total)	ND(0.0000000021)	0.0000000073 J	0.000000012 [0.000000014]
1,2,3,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,7,8-PeCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
PeCDFs (total)	ND(0.0000000052)	ND(0.0000000051)	0.0000000048 [0.0000000052]
1,2,3,4,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
2,3,4,6,7,8-HxCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
HxCDFs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDF	0.0000000052 J	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8,9-HpCDF	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000057)]
HpCDFs (total)	0.0000000052 J	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000057)]
OCDF	0.000000013 J	ND(0.000000010)	ND(0.000000014) [ND(0.000000016)]
Dioxins			
2,3,7,8-TCDD	ND(0.0000000028)	ND(0.0000000022)	ND(0.0000000034) [ND(0.0000000032)]
TCDDs (total)	ND(0.0000000028)	ND(0.0000000022)	ND(0.0000000034) [ND(0.0000000032)]
1,2,3,7,8-PeCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
PeCDDs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,7,8,9-HxCDD	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
HxCDDs (total)	ND(0.0000000052)	ND(0.0000000051)	ND(0.0000000053) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpCDD	ND(0.0000000052)	ND(0.0000000060)	ND(0.0000000069) [ND(0.0000000085)]
HpCDDs (total)	ND(0.0000000052)	ND(0.0000000060)	ND(0.0000000069) [ND(0.0000000085)]
OCDD	0.000000016 J	ND(0.000000010)	ND(0.000000017) [ND(0.000000019)]
Total TEQs (WHO TEFs)	0.0000000074	0.0000000073	0.0000000082 [0.0000000080]

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-6 10/15/07	OPCA-MW-6 04/23/08	OPCA-MW-6 10/21/08
Inorganics-Unfiltered			
Antimony	NA	NA	NA
Arsenic	NA	NA	NA
Barium	NA	NA	NA
Beryllium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Cobalt	NA	NA	NA
Copper	NA	NA	NA
Lead	NA	NA	NA
Nickel	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Sulfide	ND(1.00)	ND(1.00)	1.40 [ND(1.00)]
Thallium	NA	NA	NA
Tin	NA	NA	NA
Vanadium	NA	NA	NA
Zinc	NA	NA	NA
Inorganics-Filtered			
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400) [ND(0.0400)]
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100) J [0.00213 B J]
Barium	ND(0.500)	0.00804 B	0.0168 B [0.0169 B]
Beryllium	0.00366 J	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Cadmium	ND(0.00500)	ND(0.00500) J	ND(0.00500) J [0.00328 B J]
Chromium	ND(0.0100)	0.00179 B	ND(0.0100) J [ND(0.0100) J]
Cobalt	ND(0.0100)	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Copper	ND(0.200)	ND(0.0100) J	ND(0.200) J [ND(0.200) J]
Lead	ND(0.0100)	ND(0.0100)	0.00641 B J [0.00718 B J]
Nickel	ND(0.0500)	ND(0.0100) J	ND(0.0500) [ND(0.0500)]
Selenium	ND(0.0200)	ND(0.0200)	ND(0.0200) J [ND(0.0200) J]
Thallium	ND(0.0100) J	0.00656 J	ND(0.0100) J [ND(0.0100) J]
Tin	0.00939 J	ND(0.0100) J	ND(0.100) J [ND(0.100) J]
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Zinc	0.0196 B	ND(0.0200)	0.0325 B [0.0273 B]

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-7 06/15/99	OPCA-MW-7 05/01/01	OPCA-MW-7 10/11-10/18/07	OPCA-MW-7 04/21/08
Volatile Organics				
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Acetone	ND(0.10)	ND(0.010)	ND(0.0050) J	ND(0.0050) J
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0010) J	ND(0.0010)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	0.00014 J
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0050)	ND(0.0020)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0050)	ND(0.0050)	0.00029 J	ND(0.0010) J
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0010) J
Vinyl Chloride	ND(0.010)	ND(0.0020)	ND(0.0010)	ND(0.0010) J
Total VOCs	ND(0.20)	ND(0.20)	0.00029 J	0.00014 J
PCBs-Unfiltered				
Aroclor-1254	ND(0.000051)	ND(0.000065)	NA	NA
Aroclor-1260	ND(0.000051)	ND(0.000065)	NA	NA
Total PCBs	ND(0.000051)	ND(0.000065)	NA	NA
PCBs-Filtered				
Aroclor-1254	NA	ND(0.000065)	0.0012	ND(0.000068)
Aroclor-1260	NA	ND(0.000065)	0.00091	ND(0.000068)
Total PCBs	NA	ND(0.000065)	0.00211	ND(0.000068)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.011)	ND(0.010)	ND(0.010)	ND(0.0052)
Acenaphthene	ND(0.011)	ND(0.010)	ND(0.010)	ND(0.0052)
bis(2-Ethylhexyl)phthalate	ND(0.011)	ND(0.0060)	ND(0.010)	ND(0.0052)
Dibenzofuran	ND(0.011)	ND(0.010)	ND(0.010)	ND(0.0052)
Dimethylphthalate	ND(0.011)	ND(0.010)	ND(0.010)	ND(0.0052)
Naphthalene	ND(0.011)	ND(0.010)	ND(0.010)	ND(0.0052)
Furans				
2,3,7,8-TCDF	ND(0.00000000080)	ND(0.0000000014)	ND(0.0000000035)	ND(0.0000000012)
TCDFs (total)	ND(0.00000000080)	ND(0.0000000014)	ND(0.0000000035)	ND(0.0000000012)
1,2,3,7,8-PeCDF	ND(0.0000000030)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000028)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
PeCDFs (total)	ND(0.0000000030)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,7,8-HxCDF	ND(0.0000000069)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000070)	ND(0.00000000090)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000067)	ND(0.0000000011)	ND(0.0000000054)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000073)	ND(0.0000000010)	ND(0.0000000054)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000073)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDF	ND(0.000000013)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	ND(0.000000013)	ND(0.0000000020)	ND(0.0000000054)	ND(0.0000000052)
HpCDFs (total)	ND(0.000000013)	ND(0.0000000018)	ND(0.0000000054)	ND(0.0000000052)
OCDF	ND(0.000000012)	ND(0.0000000038)	ND(0.000000011)	ND(0.000000010)
Dioxins				
2,3,7,8-TCDD	ND(0.0000000013)	ND(0.0000000020)	ND(0.0000000045)	ND(0.0000000014)
TCDDs (total)	ND(0.0000000013)	ND(0.0000000020)	ND(0.0000000045)	ND(0.0000000014)
1,2,3,7,8-PeCDD	ND(0.000000010)	ND(0.0000000021)	ND(0.0000000054)	ND(0.0000000052)
PeCDDs (total)	ND(0.000000010)	ND(0.0000000021)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000097)	ND(0.0000000017)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.000000012)	ND(0.0000000017)	ND(0.0000000054)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.000000011)	ND(0.0000000016)	ND(0.0000000054)	ND(0.0000000052)
HxCDDs (total)	ND(0.000000012)	ND(0.000000010) X	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	ND(0.000000017)	ND(0.0000000030)	ND(0.0000000054)	ND(0.0000000052)
HpCDDs (total)	ND(0.000000017)	ND(0.0000000030)	ND(0.0000000054)	ND(0.0000000052)
OCDD	ND(0.000000018)	ND(0.0000000048)	0.000000015 J	ND(0.000000010)
Total TEQs (WHO TEFs)	0.0000000098	0.0000000031	0.0000000086	0.0000000067

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OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-7 06/15/99	OPCA-MW-7 05/01/01	OPCA-MW-7 10/11-10/18/07	OPCA-MW-7 04/21/08
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	NA	NA
Arsenic	ND(0.00600)	ND(0.0100)	NA	NA
Barium	0.0270	0.0600 B	NA	NA
Beryllium	ND(0.00600)	ND(0.00100)	NA	NA
Cadmium	ND(0.00600)	ND(0.00500)	NA	NA
Chromium	ND(0.0130)	ND(0.0100)	NA	NA
Cobalt	ND(0.0600)	ND(0.0500)	NA	NA
Copper	ND(0.0330)	0.00790 J	NA	NA
Lead	ND(0.130) J	ND(0.00500)	NA	NA
Nickel	ND(0.0600)	ND(0.0400)	NA	NA
Selenium	ND(0.00600) J	ND(0.00500) J	NA	NA
Silver	ND(0.0130)	ND(0.00500)	NA	NA
Sulfide	ND(5.00)	ND(5.00)	ND(1.00) J	1.00 J
Thallium	ND(0.0130)	ND(0.0100) J	NA	NA
Tin	ND(0.300)	ND(0.100)	NA	NA
Vanadium	ND(0.0600)	ND(0.0500)	NA	NA
Zinc	ND(0.0260)	0.0200 B	NA	NA
Inorganics-Filtered				
Antimony	NA	ND(0.0600)	ND(0.0400)	ND(0.0400)
Arsenic	NA	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	NA	0.0570 J	0.0869 B	0.0276 B
Beryllium	NA	ND(0.00100)	ND(0.0100) J	ND(0.0100) J
Cadmium	NA	ND(0.00500)	ND(0.00500)	ND(0.00500) J
Chromium	NA	ND(0.0100)	ND(0.0100)	0.00134 B
Cobalt	NA	ND(0.0500)	ND(0.0100)	ND(0.0100) J
Copper	NA	0.00730 J	ND(0.0100) J	ND(0.0100) J
Lead	NA	ND(0.00500)	ND(0.0100)	ND(0.0100)
Nickel	NA	ND(0.0400)	ND(0.0100)	ND(0.0100) J
Selenium	NA	ND(0.00500) J	ND(0.0200)	ND(0.0200)
Thallium	NA	ND(0.0100) J	ND(0.0100) J	0.0148 J
Tin	NA	ND(0.100)	ND(0.100) J	ND(0.0100) J
Vanadium	NA	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	NA	0.0200 B	0.0208	0.0178 B

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-7 10/21/08	OPCA-MW-8 06/14/99	OPCA-MW-8 05/01/01
Volatile Organics			
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
1,1-Dichloroethane	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetone	ND(0.0050) J	ND(0.10)	ND(0.010) [ND(0.010)]
Bromoform	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chlorobenzene	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chloroform	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Dibromochloromethane	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Tetrachloroethene	ND(0.0010)	ND(0.0050)	ND(0.0020) [ND(0.0020)]
Toluene	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichloroethene	ND(0.0010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichlorofluoromethane	ND(0.0010) J	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Vinyl Chloride	ND(0.0010) J	ND(0.010)	ND(0.0020) [ND(0.0020)]
Total VOCs	ND(0.10)	ND(0.20)	ND(0.20) [ND(0.20)]
PCBs-Unfiltered			
Aroclor-1254	NA	ND(0.00010)	ND(0.000065) [ND(0.000065)]
Aroclor-1260	NA	ND(0.00010)	ND(0.000065) [ND(0.000065)]
Total PCBs	NA	ND(0.00010)	ND(0.000065) [ND(0.000065)]
PCBs-Filtered			
Aroclor-1254	ND(0.000067) J	NA	ND(0.000065) [ND(0.000065)]
Aroclor-1260	ND(0.000067) J	NA	ND(0.000065) [ND(0.000065)]
Total PCBs	ND(0.000067) J	NA	ND(0.000065) [ND(0.000065)]
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.0052)	ND(0.010)	ND(0.010) [ND(0.010)]
Acenaphthene	ND(0.0052)	ND(0.010)	ND(0.010) [ND(0.010)]
bis(2-Ethylhexyl)phthalate	ND(0.0052)	ND(0.010)	ND(0.0060) [ND(0.0060)]
Dibenzofuran	ND(0.0052)	ND(0.010)	ND(0.010) [ND(0.010)]
Dimethylphthalate	ND(0.0052)	ND(0.010)	ND(0.010) [ND(0.010)]
Naphthalene	ND(0.0052)	ND(0.010)	ND(0.010) [ND(0.010)]
Furans			
2,3,7,8-TCDF	ND(0.0000000033)	ND(0.00000000070)	ND(0.0000000010) [ND(0.0000000018) X]
TCDFs (total)	ND(0.0000000033)	ND(0.00000000070)	ND(0.0000000010) [ND(0.0000000032) X]
1,2,3,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000029)	ND(0.0000000028) [ND(0.000000026)]
2,3,4,7,8-PeCDF	ND(0.0000000051)	ND(0.0000000027)	ND(0.0000000011) [0.0000000034 J]
PeCDFs (total)	ND(0.0000000051)	ND(0.0000000029)	ND(0.0000000028) [0.000000040]
1,2,3,4,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000097)	ND(0.0000000014) [ND(0.0000000045)]
1,2,3,6,7,8-HxCDF	ND(0.0000000051)	ND(0.0000000099)	ND(0.00000000070) [ND(0.0000000028)]
1,2,3,7,8,9-HxCDF	ND(0.0000000051)	ND(0.0000000094)	ND(0.00000000090) [0.0000000018 JB]
2,3,4,6,7,8-HxCDF	ND(0.0000000051)	ND(0.000000010)	ND(0.00000000080) [ND(0.0000000023)]
HxCDFs (total)	ND(0.0000000051)	ND(0.000000010)	ND(0.0000000014) [0.000000025]
1,2,3,4,6,7,8-HpCDF	ND(0.0000000051)	ND(0.000000022)	ND(0.0000000013) [ND(0.0000000036) XB]
1,2,3,4,7,8,9-HpCDF	ND(0.0000000053)	ND(0.000000022)	ND(0.0000000016) [0.0000000040 JB]
HpCDFs (total)	ND(0.0000000053)	ND(0.000000022)	ND(0.0000000014) [0.0000000058]
OCDF	ND(0.000000014)	ND(0.000000025)	ND(0.0000000031) [0.0000000095 J]
Dioxins			
2,3,7,8-TCDD	ND(0.0000000032)	ND(0.0000000011)	ND(0.0000000013) [ND(0.0000000014)]
TCDDs (total)	ND(0.0000000032)	ND(0.0000000011)	ND(0.0000000013) [ND(0.0000000014)]
1,2,3,7,8-PeCDD	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000016) [ND(0.0000000040)]
PeCDDs (total)	ND(0.0000000051)	ND(0.000000011)	ND(0.0000000016) [0.0000000040]
1,2,3,4,7,8-HxCDD	ND(0.0000000051)	ND(0.000000013)	ND(0.0000000013) [ND(0.0000000024)]
1,2,3,6,7,8-HxCDD	ND(0.0000000051)	ND(0.000000016)	ND(0.0000000013) [ND(0.0000000019) XB]
1,2,3,7,8,9-HxCDD	ND(0.0000000051)	ND(0.000000014)	ND(0.0000000012) [ND(0.0000000038)]
HxCDDs (total)	ND(0.0000000051)	ND(0.000000016)	ND(0.000000012) [0.0000000062]
1,2,3,4,6,7,8-HpCDD	ND(0.0000000074)	ND(0.000000030)	ND(0.0000000024) [ND(0.0000000081)]
HpCDDs (total)	ND(0.0000000074)	ND(0.000000030)	ND(0.0000000014) X [0.000000012]
OCDD	ND(0.000000016)	ND(0.000000037)	ND(0.0000000051) XB [ND(0.000000043)]
Total TEQs (WHO TEFs)	0.0000000076	0.000000011	0.0000000023 [0.0000000063]

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-7 10/21/08	OPCA-MW-8 06/14/99	OPCA-MW-8 05/01/01
Inorganics-Unfiltered			
Antimony	NA	ND(0.0600)	ND(0.0600) [ND(0.0600)]
Arsenic	NA	ND(0.00600)	ND(0.0100) J [ND(0.0100) J]
Barium	NA	0.0860	0.0290 B [0.0300 B]
Beryllium	NA	ND(0.00600)	ND(0.00100) [ND(0.00100)]
Cadmium	NA	ND(0.00600)	ND(0.00500) [ND(0.00500)]
Chromium	NA	ND(0.0130)	0.00600 B [0.00520 B]
Cobalt	NA	ND(0.0600)	ND(0.0500) [ND(0.0500)]
Copper	NA	ND(0.0330)	ND(0.0250) [ND(0.0250)]
Lead	NA	ND(0.130) J	ND(0.00500) J [ND(0.00500) J]
Nickel	NA	ND(0.0600)	ND(0.0400) [ND(0.0400)]
Selenium	NA	ND(0.00600) J	ND(0.00500) [ND(0.00500)]
Silver	NA	ND(0.0130)	ND(0.00500) [ND(0.00500)]
Sulfide	1.00 J	ND(5.00)	ND(5.00) [ND(5.00)]
Thallium	NA	ND(0.0130)	ND(0.0100) J [ND(0.0100) J]
Tin	NA	ND(0.300)	ND(0.100) [ND(0.100)]
Vanadium	NA	ND(0.0600)	ND(0.0500) [ND(0.0500)]
Zinc	NA	ND(0.0260)	0.0970 [0.120]
Inorganics-Filtered			
Antimony	ND(0.0400)	NA	ND(0.0600) [ND(0.0600)]
Arsenic	ND(0.0100) J	NA	ND(0.0100) J [ND(0.0100) J]
Barium	0.0368 B	NA	0.0280 J [0.0280 J]
Beryllium	ND(0.0100) J	NA	ND(0.00100) [ND(0.00100)]
Cadmium	ND(0.00500) J	NA	ND(0.00500) [ND(0.00500)]
Chromium	ND(0.0100) J	NA	0.00290 B [0.00370 B]
Cobalt	ND(0.0100) J	NA	ND(0.0500) [ND(0.0500)]
Copper	ND(0.200) J	NA	ND(0.0250) [0.00420 B]
Lead	ND(0.0100) J	NA	ND(0.00500) J [ND(0.00500) J]
Nickel	ND(0.0500)	NA	ND(0.0400) [0.00410 B]
Selenium	ND(0.0200) J	NA	ND(0.00500) [ND(0.00500)]
Thallium	ND(0.0100) J	NA	ND(0.0100) J [ND(0.0100) J]
Tin	ND(0.100) J	NA	ND(0.100) [ND(0.100)]
Vanadium	ND(0.0500)	NA	ND(0.0500) [ND(0.0500)]
Zinc	0.00771 B	NA	0.0540 [0.0560]

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-8 10/11/07	OPCA-MW-8 04/23/08	OPCA-MW-8 10/22/08
Volatile Organics			
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform	ND(0.0010) J	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Tetrachloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs	ND(0.10)	ND(0.10)	ND(0.10)
PCBs-Unfiltered			
Aroclor-1254	NA	NA	NA
Aroclor-1260	NA	NA	NA
Total PCBs	NA	NA	NA
PCBs-Filtered			
Aroclor-1254	ND(0.00010)	0.00019 J	ND(0.00010)
Aroclor-1260	ND(0.00010)	ND(0.000069) J	ND(0.00010)
Total PCBs	ND(0.00010)	0.00019 J	ND(0.00010)
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.0051)	ND(0.0051)
Acenaphthene	ND(0.010)	ND(0.0051)	ND(0.0051)
bis(2-Ethylhexyl)phthalate	0.0017 J	0.0011 J	0.00087 J
Dibenzofuran	ND(0.010)	ND(0.0051)	ND(0.0051)
Dimethylphthalate	ND(0.010)	ND(0.0051)	ND(0.0051)
Naphthalene	ND(0.010)	ND(0.0051)	ND(0.0051)
Furans			
2,3,7,8-TCDF	ND(0.0000000026)	ND(0.0000000050)	ND(0.000000014)
TCDFs (total)	ND(0.0000000026)	0.000000017	ND(0.000000083)
1,2,3,7,8-PeCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
2,3,4,7,8-PeCDF	ND(0.0000000050)	ND(0.0000000052)	0.0000000058 J
PeCDFs (total)	ND(0.0000000050)	ND(0.0000000052)	ND(0.00000012)
1,2,3,4,7,8-HxCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,6,7,8-HxCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-HxCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
HxCDFs (total)	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000040)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000093) X
1,2,3,4,7,8,9-HpCDF	ND(0.0000000050)	ND(0.0000000060)	ND(0.0000000056)
HpCDFs (total)	ND(0.0000000050)	ND(0.0000000053)	ND(0.0000000056)
OCDF	ND(0.000000010)	ND(0.000000011)	0.000000018 J
Dioxins			
2,3,7,8-TCDD	ND(0.0000000032)	ND(0.0000000044)	ND(0.0000000029)
TCDDs (total)	ND(0.0000000032)	ND(0.0000000044)	ND(0.0000000029)
1,2,3,7,8-PeCDD	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
PeCDDs (total)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)
HxCDDs (total)	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000078)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000059)	ND(0.0000000085)	0.000000015 J
HpCDDs (total)	ND(0.0000000059)	ND(0.0000000085)	ND(0.000000015)
OCDD	0.000000020 J	0.000000017 J	0.000000086 J
Total TEQs (WHO TEFs)	0.0000000075	0.0000000084	0.0000000098

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	OPCA-MW-8 10/11/07	OPCA-MW-8 04/23/08	OPCA-MW-8 10/22/08
Inorganics-Unfiltered			
Antimony	NA	NA	NA
Arsenic	NA	NA	NA
Barium	NA	NA	NA
Beryllium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Cobalt	NA	NA	NA
Copper	NA	NA	NA
Lead	NA	NA	NA
Nickel	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Sulfide	ND(1.00)	ND(1.00)	ND(1.00)
Thallium	NA	NA	NA
Tin	NA	NA	NA
Vanadium	NA	NA	NA
Zinc	NA	NA	NA
Inorganics-Filtered			
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100) J
Barium	ND(0.100)	0.00521 B	0.0225 B
Beryllium	ND(0.0100) J	0.00141 J	ND(0.0100) J
Cadmium	ND(0.00500)	ND(0.00500) J	0.00287 B J
Chromium	ND(0.0100)	0.00210 B	ND(0.0100) J
Cobalt	ND(0.0100)	ND(0.0100) J	ND(0.0100) J
Copper	ND(0.0100) J	ND(0.0100) J	ND(0.200) J
Lead	ND(0.0100)	ND(0.0100)	0.00427 B J
Nickel	ND(0.0100)	ND(0.0100) J	ND(0.0500)
Selenium	ND(0.0200)	ND(0.0200)	ND(0.0200) J
Thallium	ND(0.0100) J	0.00674 J	ND(0.0100) J
Tin	ND(0.100) J	ND(0.0100) J	ND(0.100) J
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.00726 B	0.298	0.0610

Table D-1
OPCA Monitoring Program

Baseline Groundwater Quality Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. and Northeast Analytical, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.
7. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)
- B - Analyte was also detected in the associated method blank.
- J - Indicates that the associated numerical value is an estimated concentration.
- R - Data was rejected due to a deficiency in the data generation process.
- X - Estimated maximum possible concentration.
- Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics
- B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J - Indicates that the associated numerical value is an estimated concentration.
- R - Data was rejected due to a deficiency in the data generation process.

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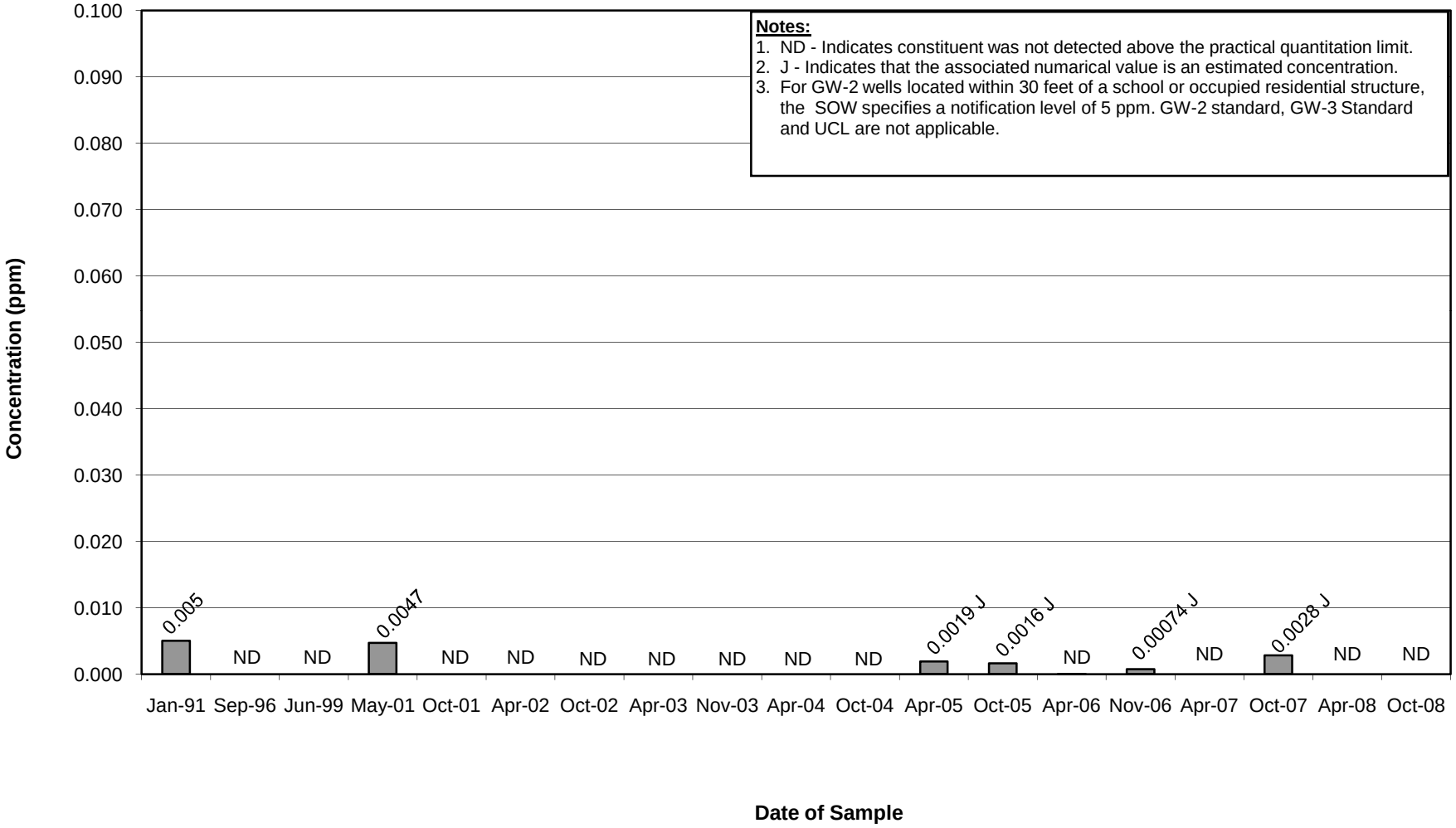
Historical Groundwater Data

Total VOC Concentrations –
Wells Sampled in Fall 2008

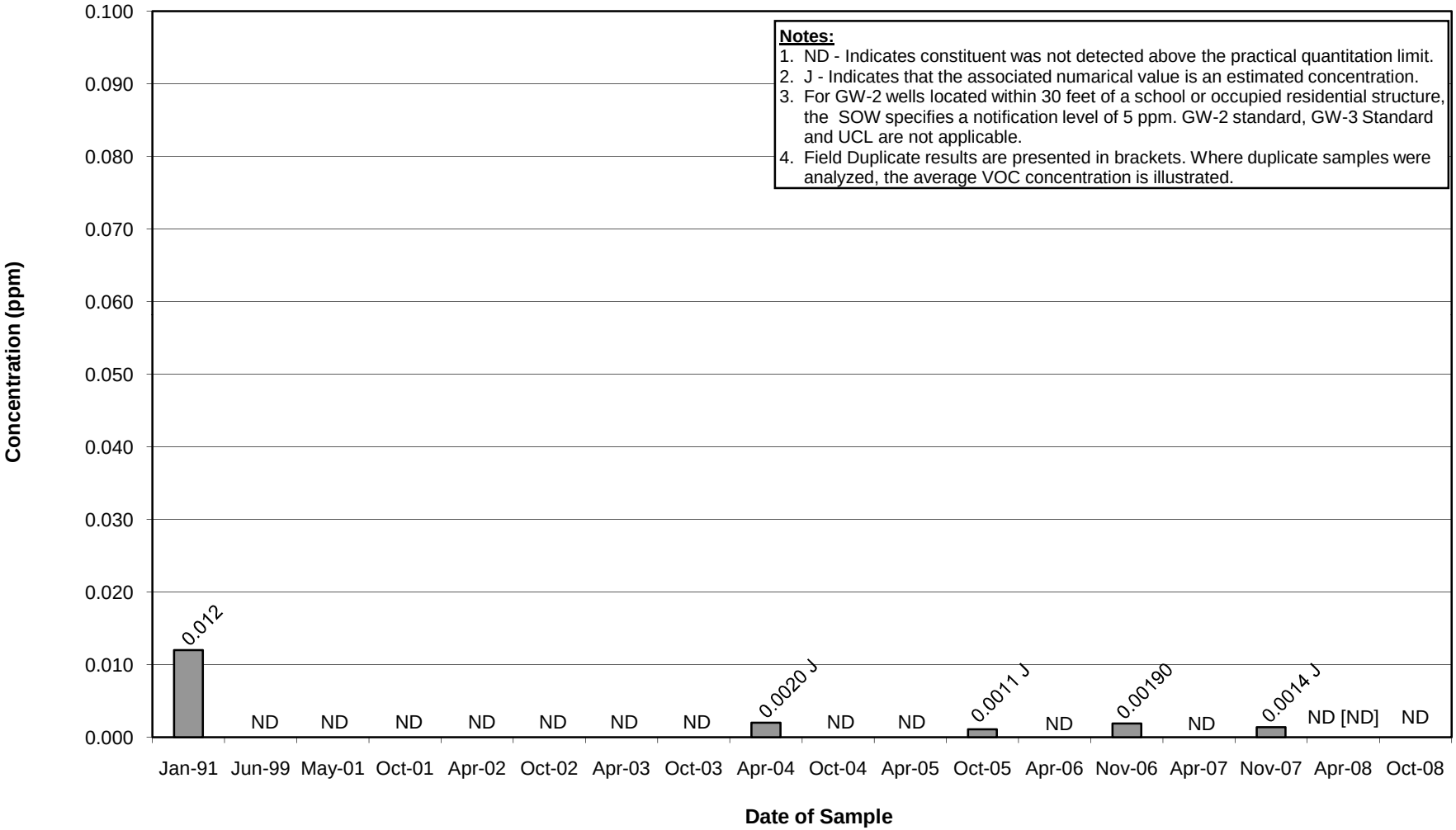
Appendix D
Well 78-1 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



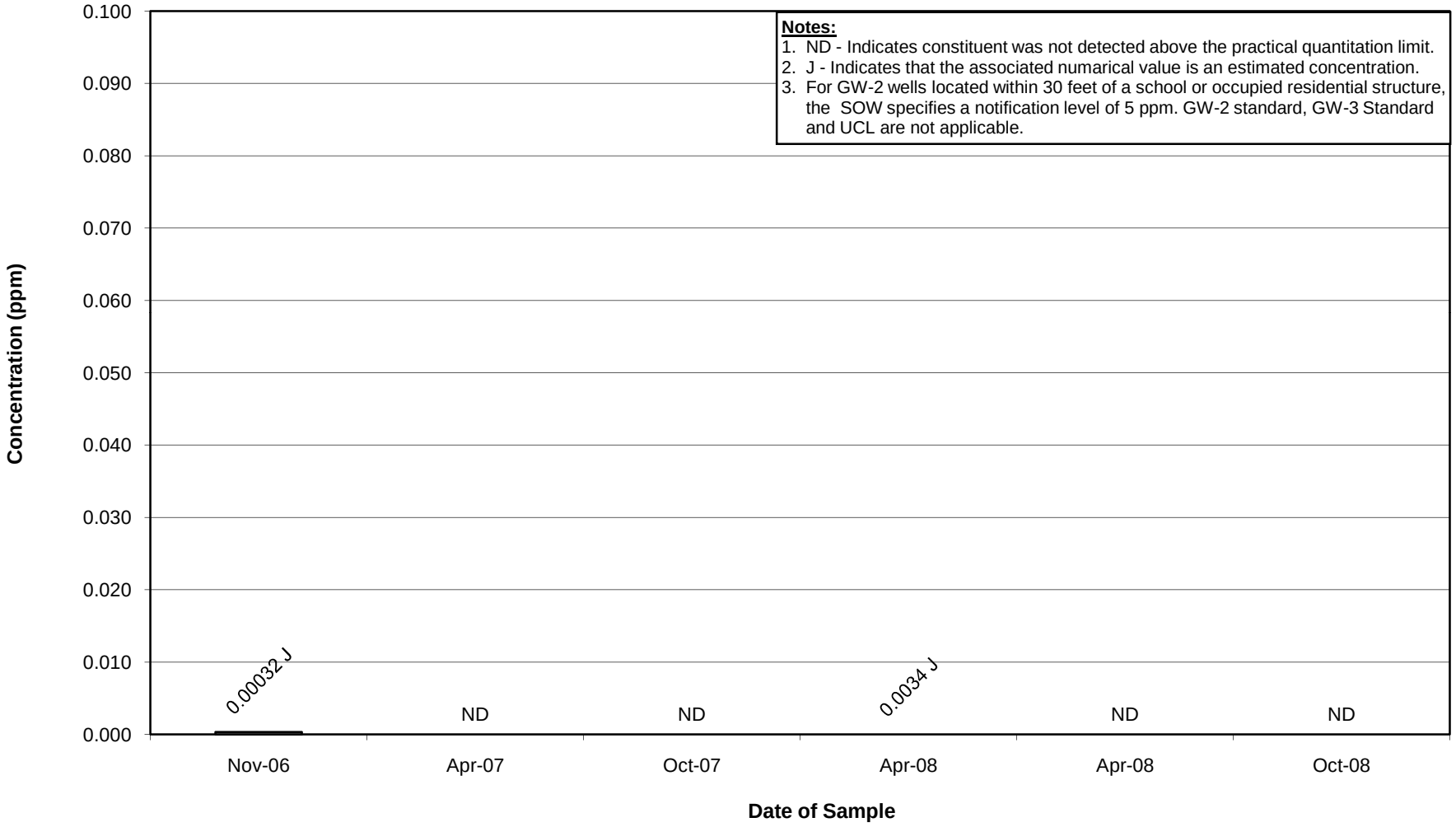
Appendix D
Well 78-6 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



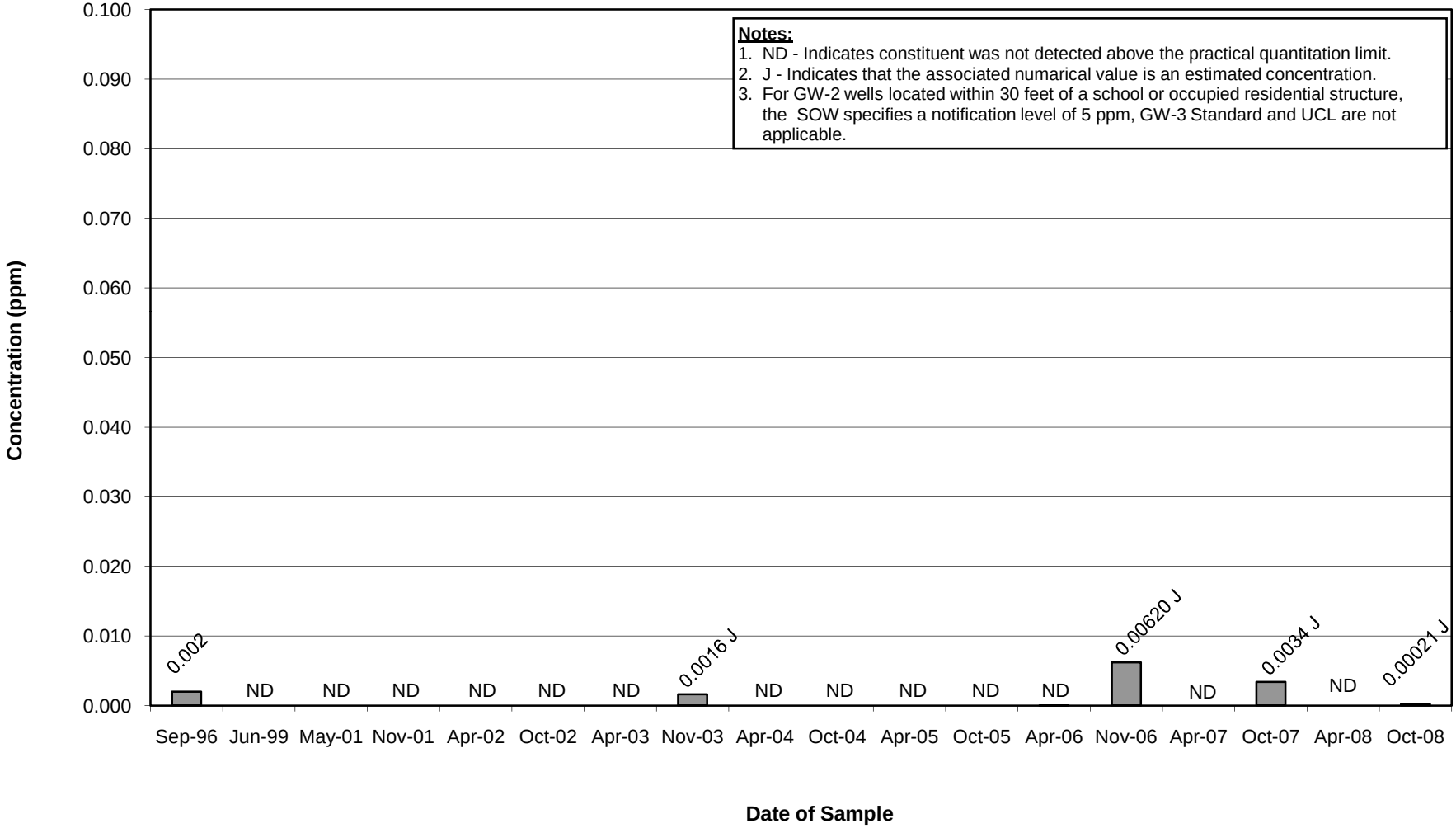
Appendix D
Well GMA4-6 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



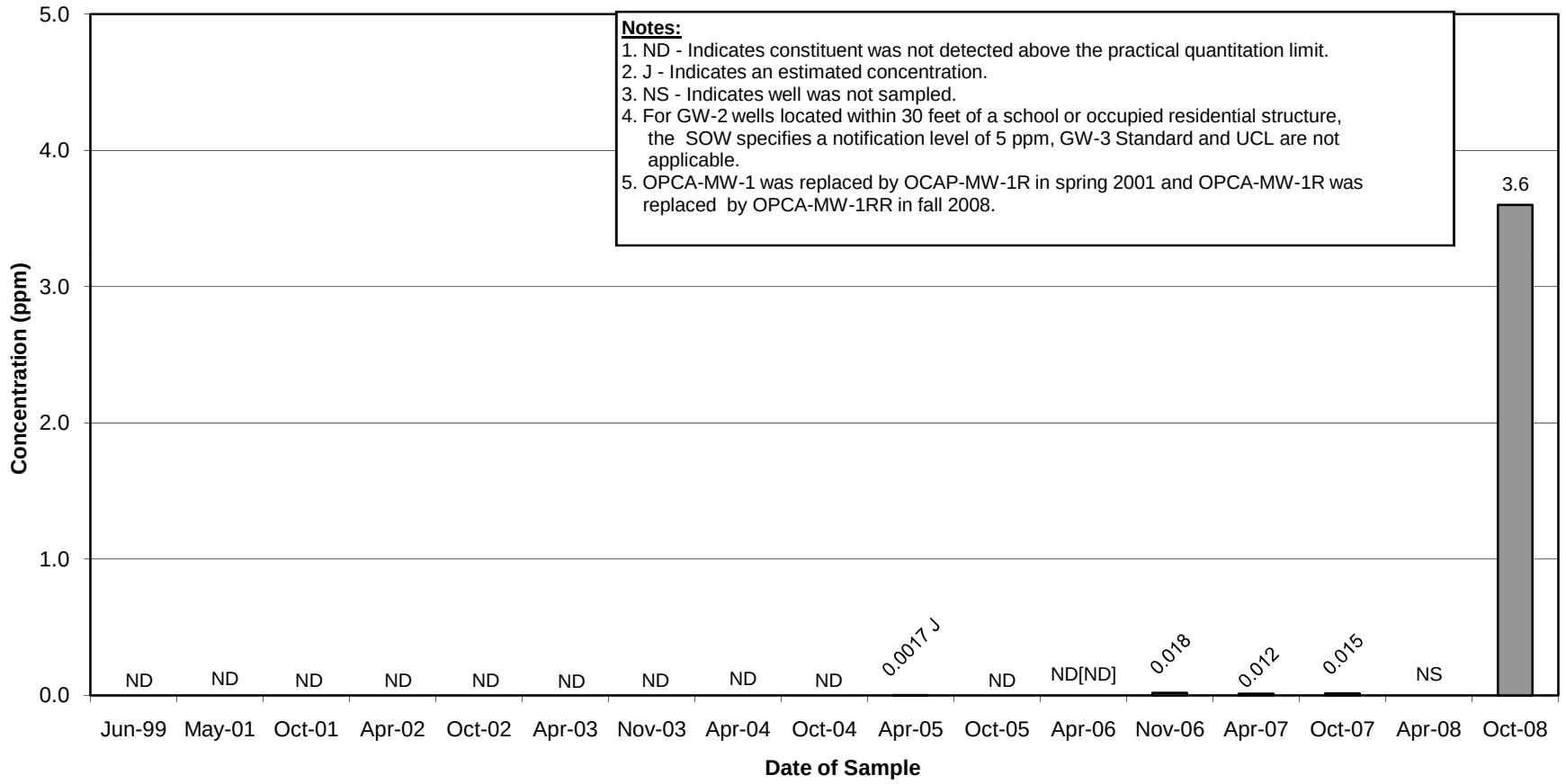
Appendix D
Well H78B-15 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



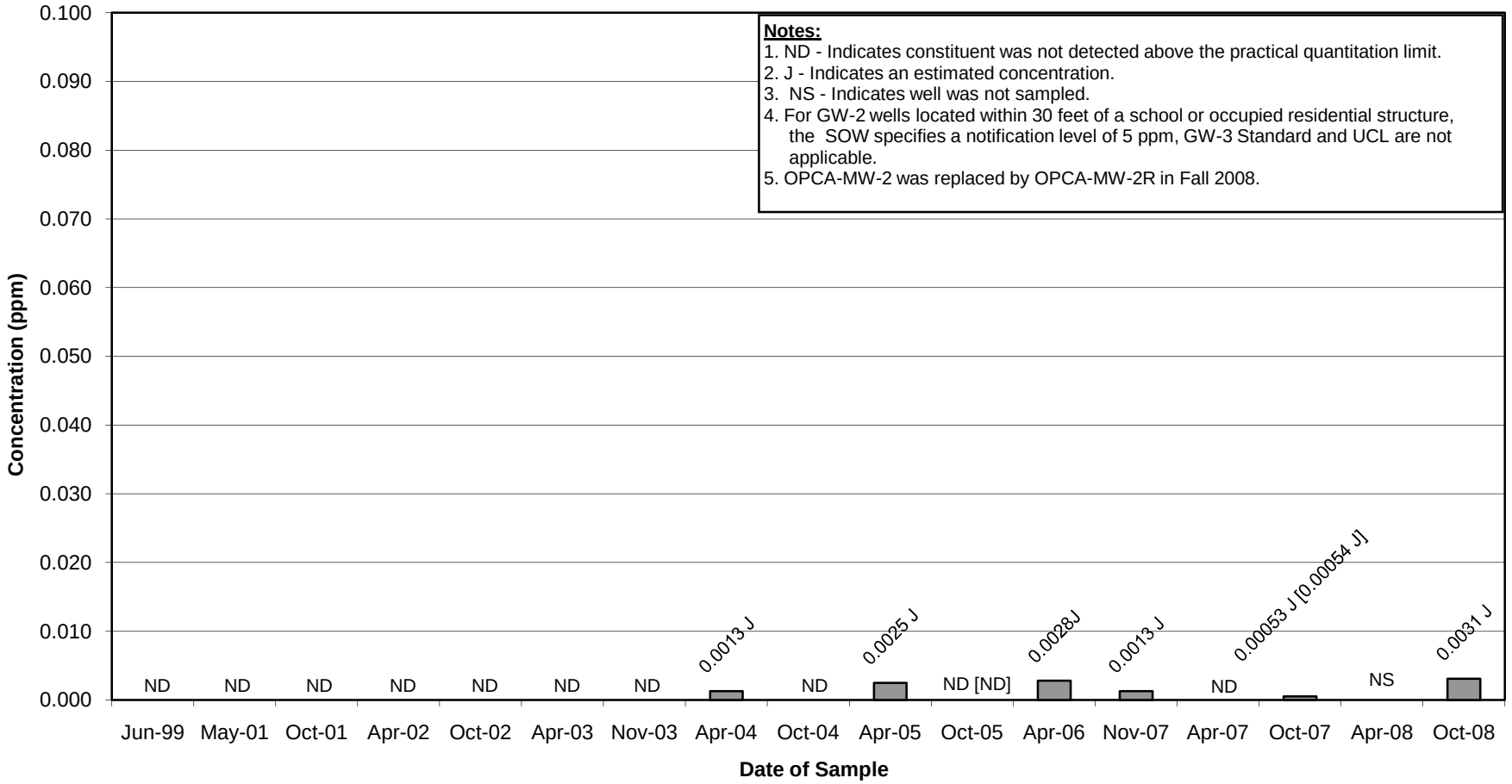
Appendix D
Well OPCA-MW-1/OPCA-MW-1R/OPCA-MW-1RR Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



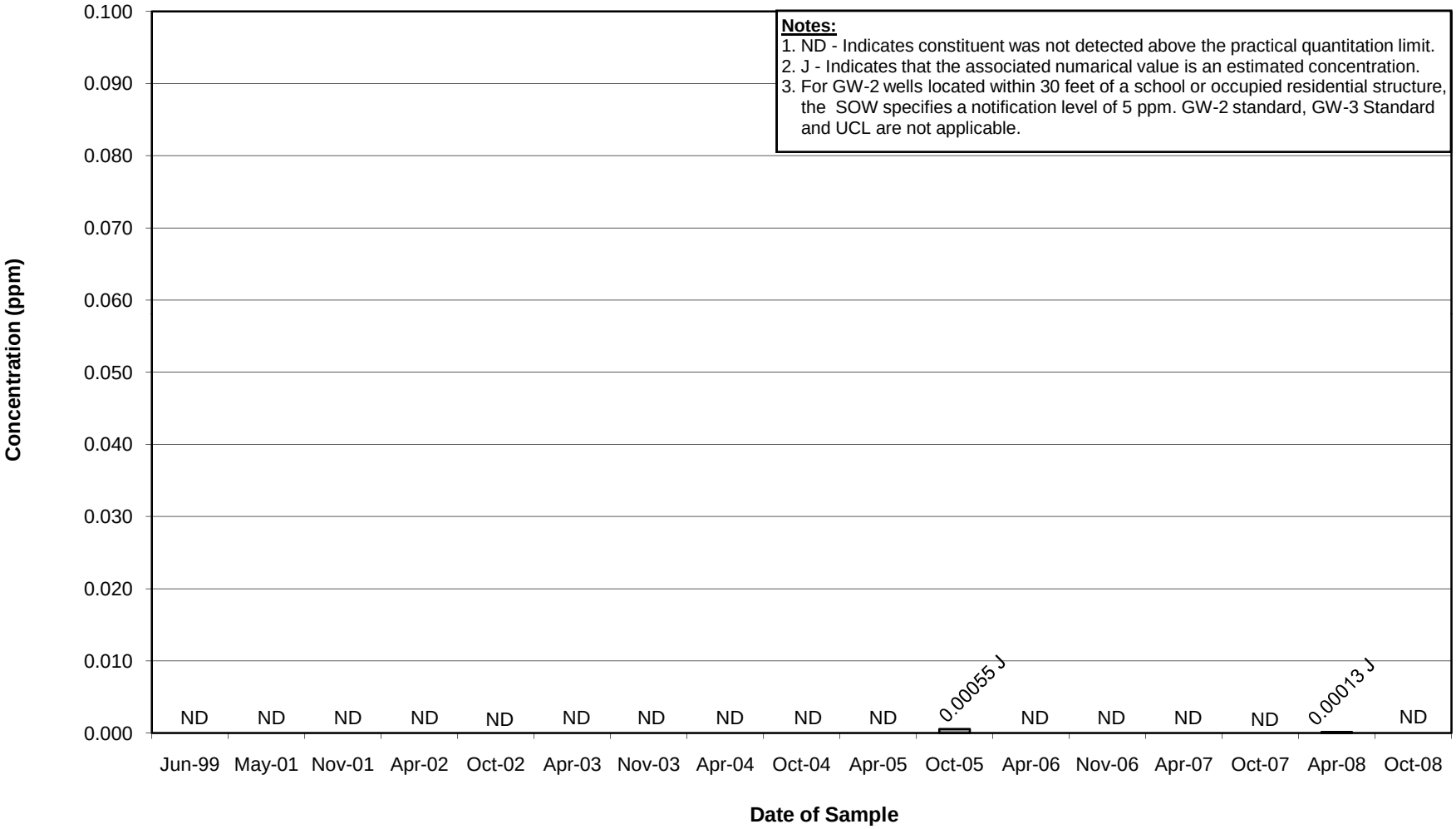
Appendix D
Well OPCA-MW-2/OPCA-MW-2R Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



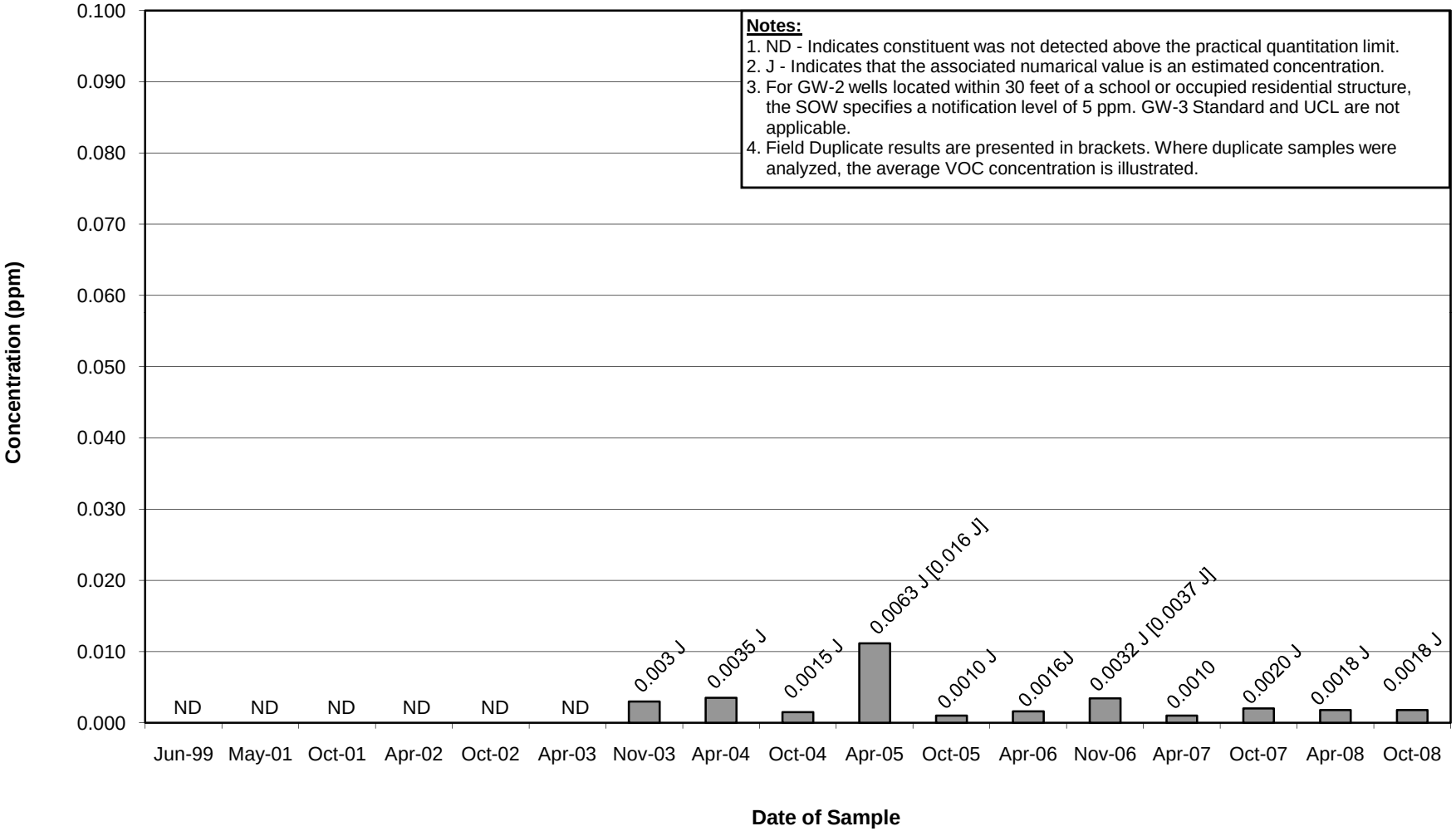
Appendix D
Well OPCA-MW-3 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



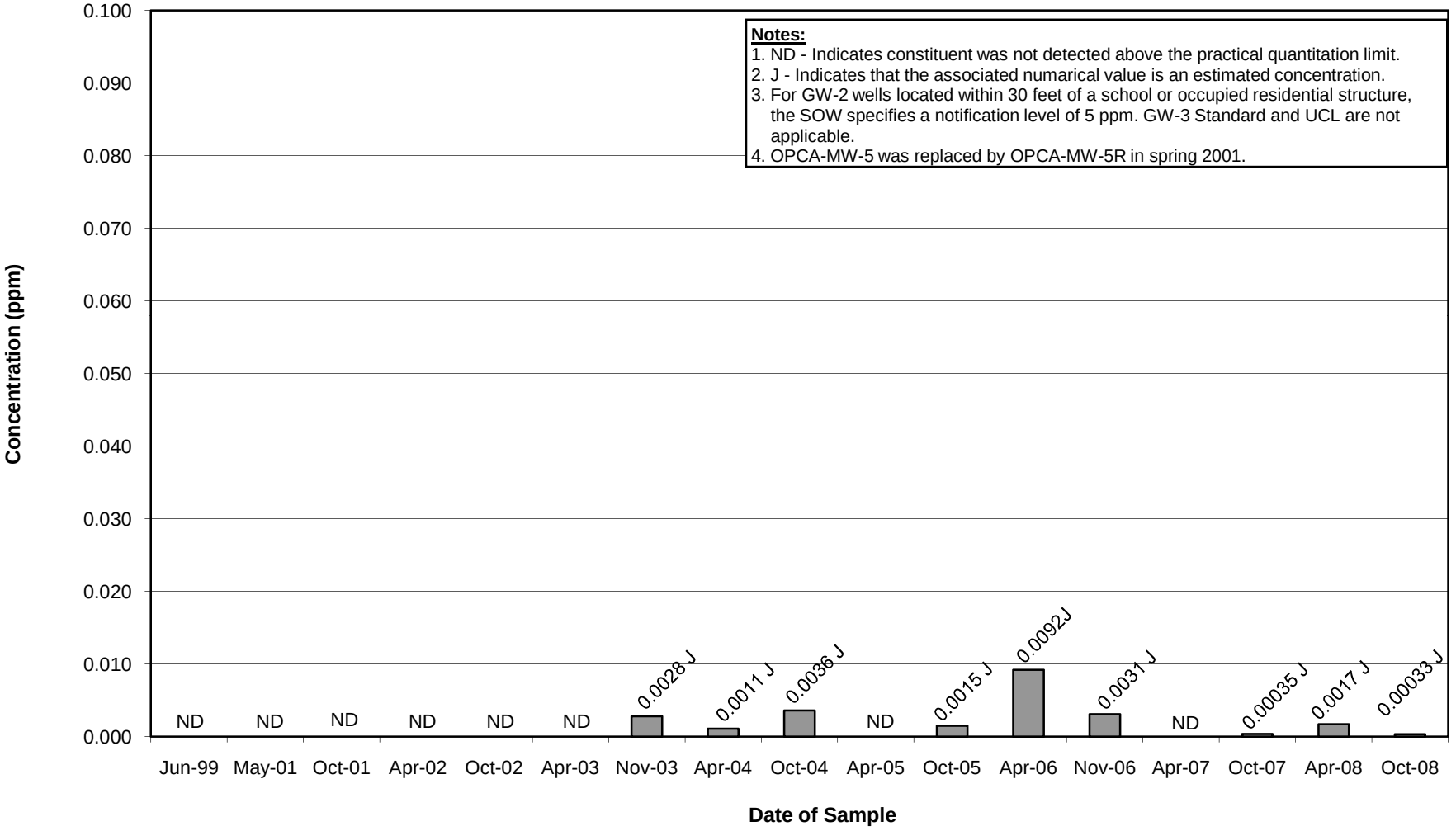
Appendix D
Well OPCA-MW-4 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



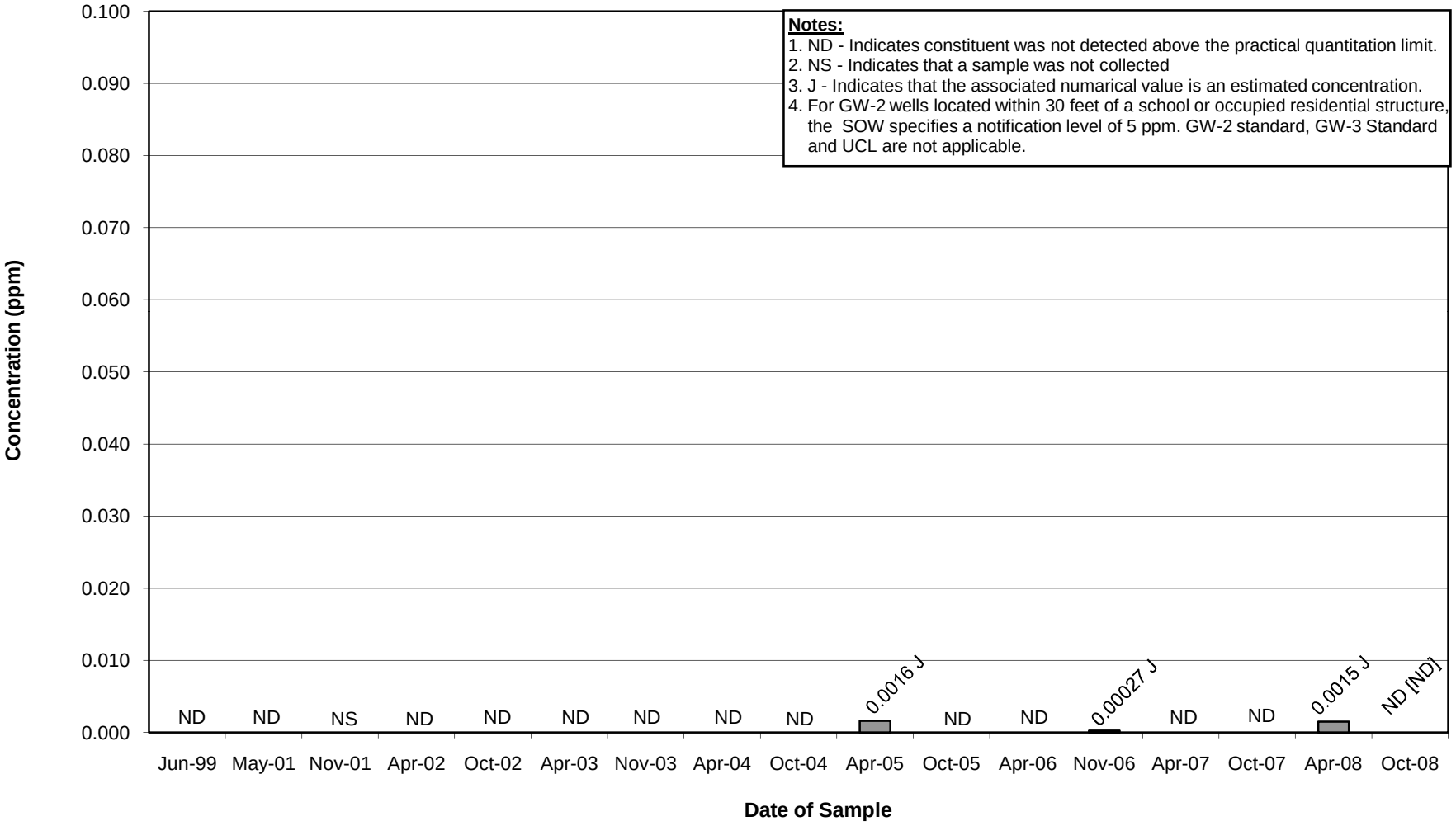
Appendix D
Well OPCA-MW-5R Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



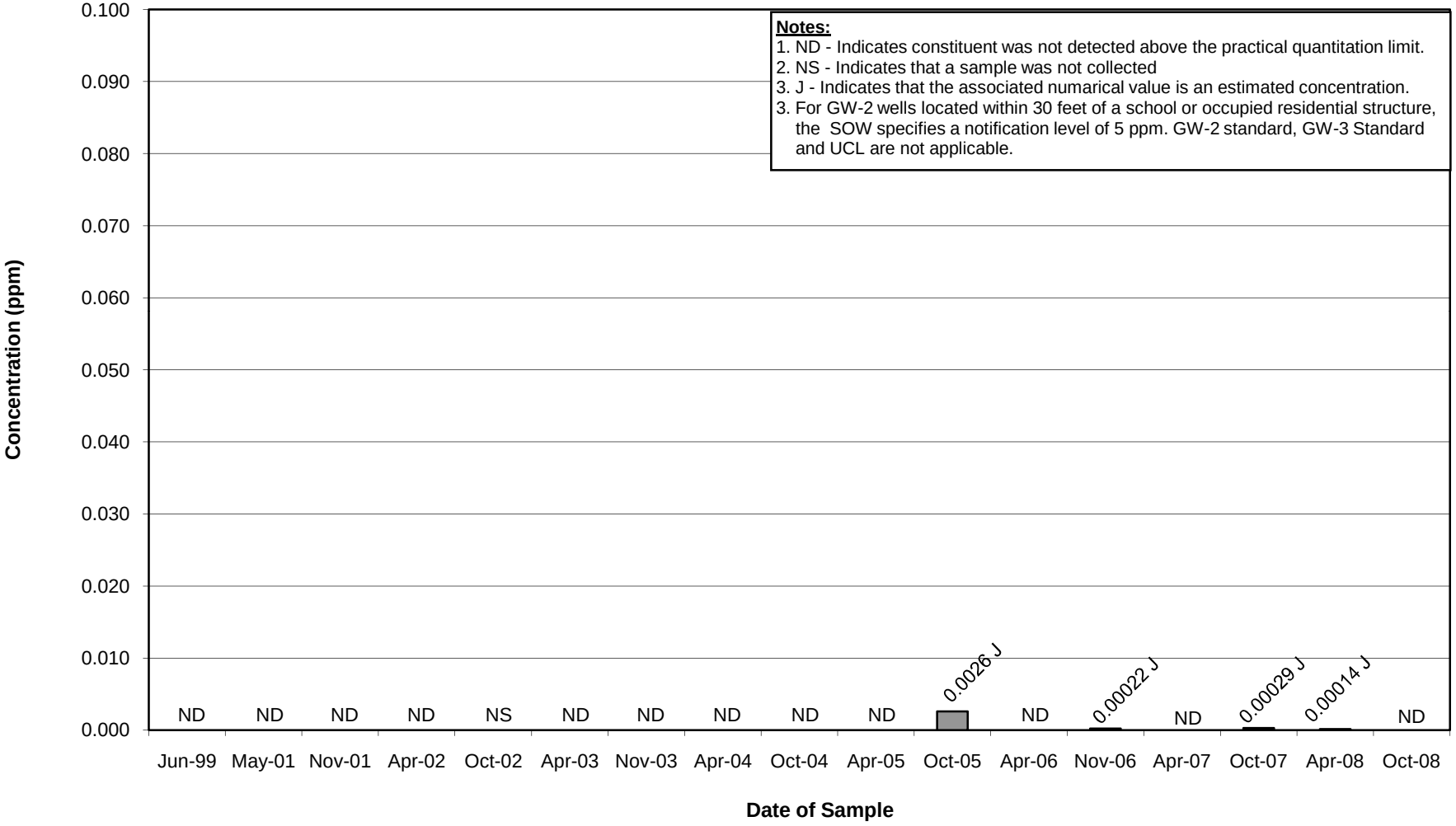
Appendix D
Well OPCA-MW-6 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



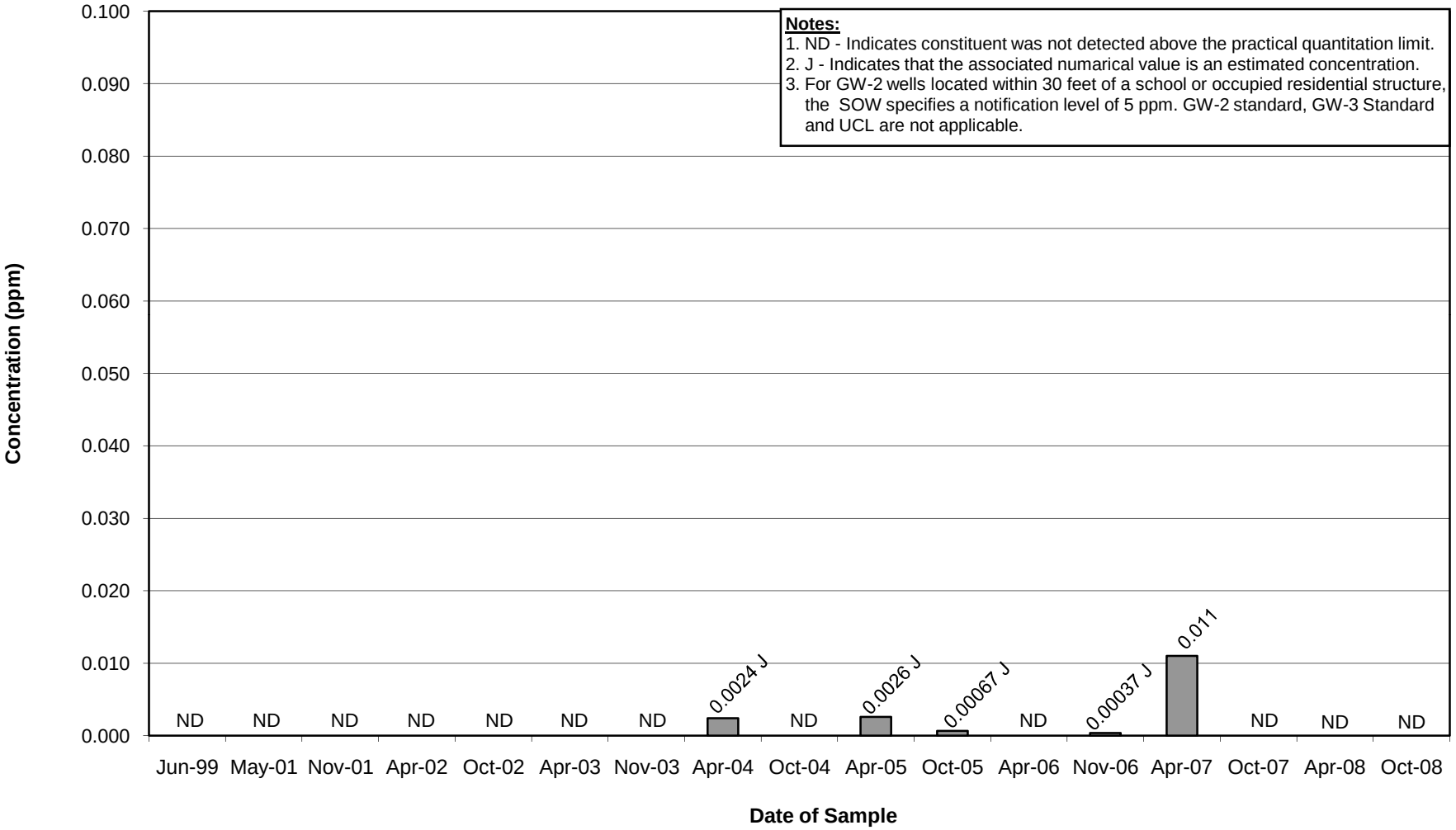
Appendix D
Well OPCA-MW-7 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



Appendix D
Well OPCA-MW-8 Historical Total VOC Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



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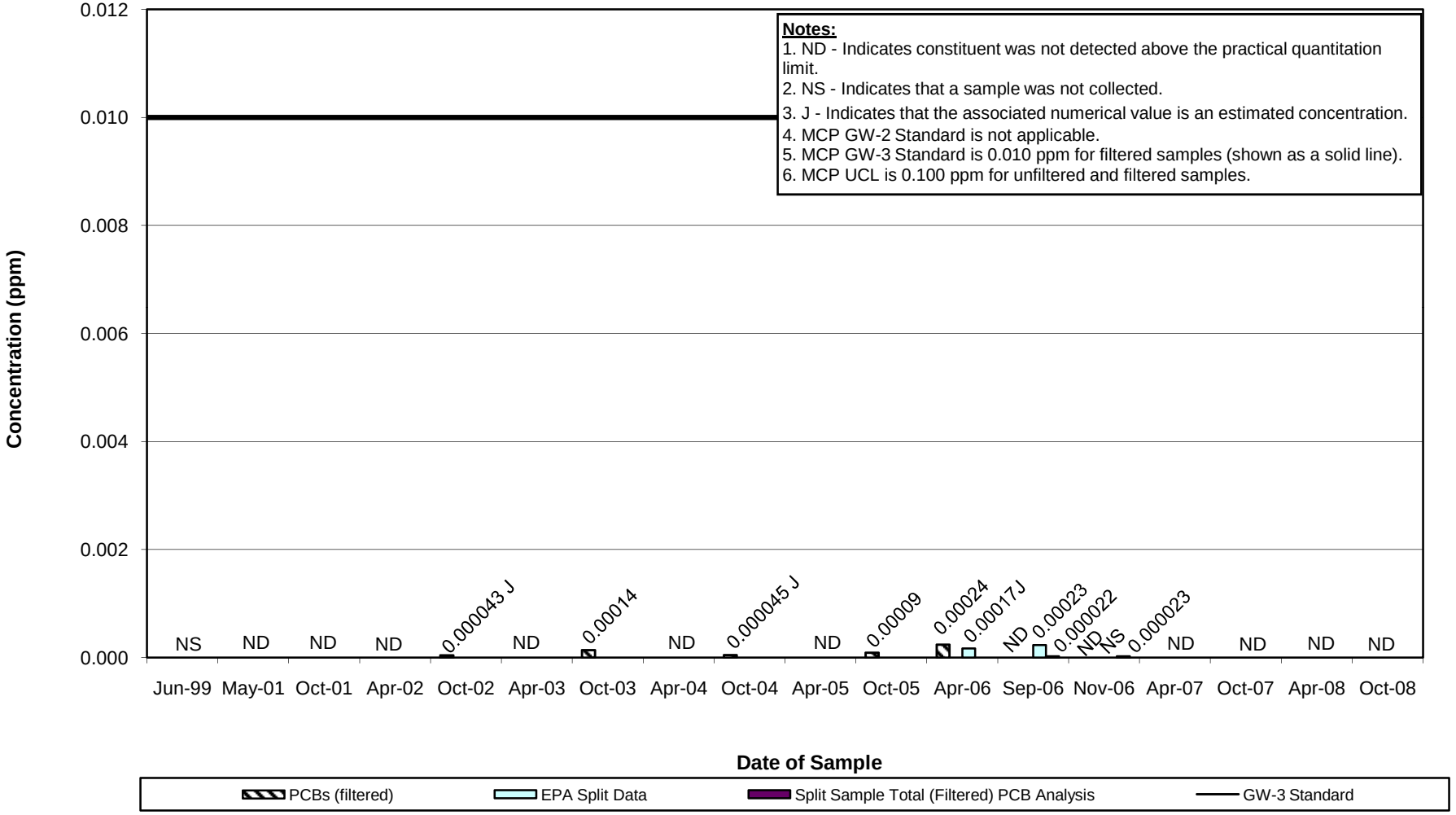
Historical Groundwater Data

Total PCB Concentrations –
Wells Sampled in Fall 2008

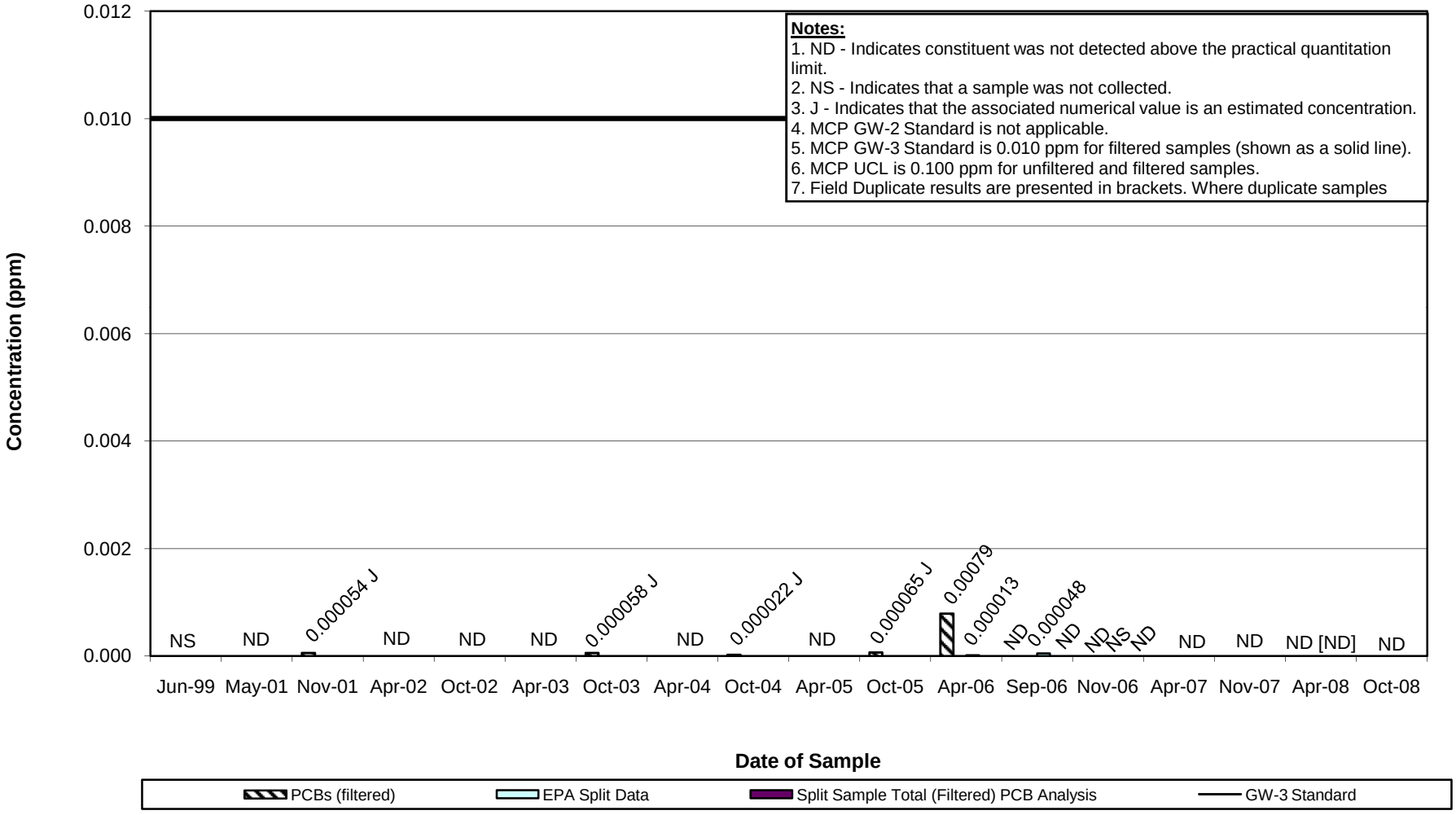
Appendix D
Well 78-1 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



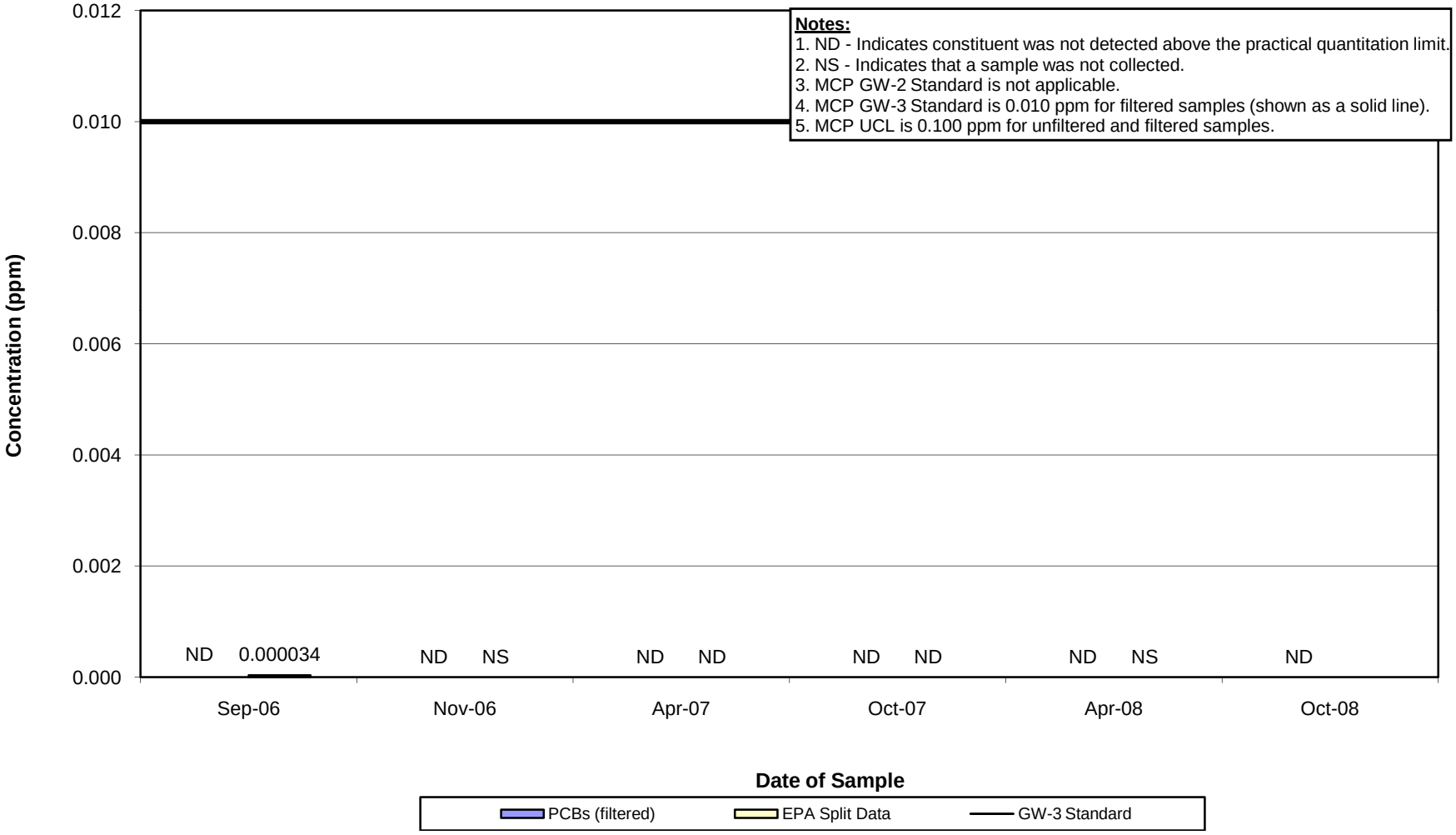
Appendix D
Well 78-6 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



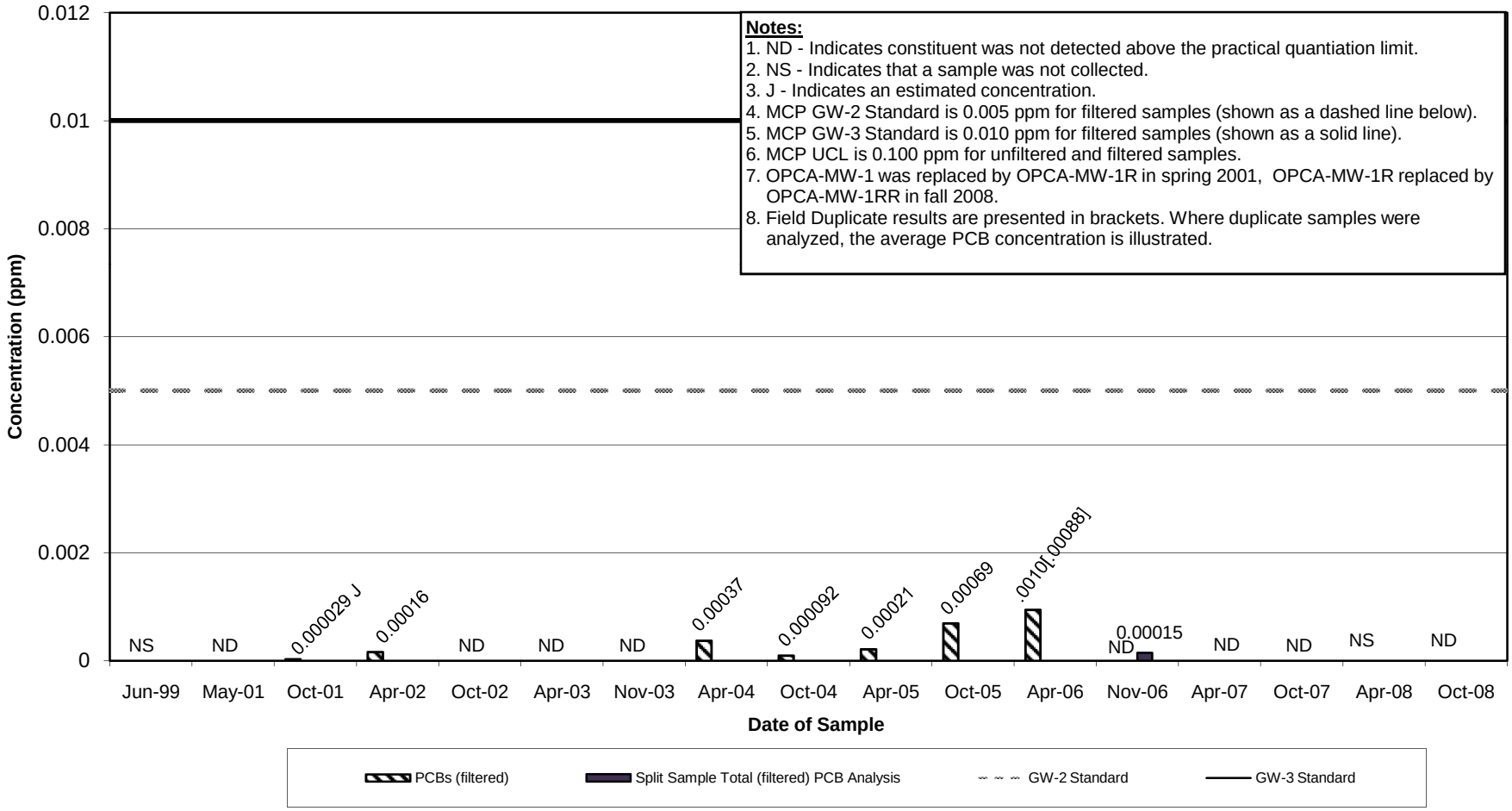
Appendix D
Well GMA4-6 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



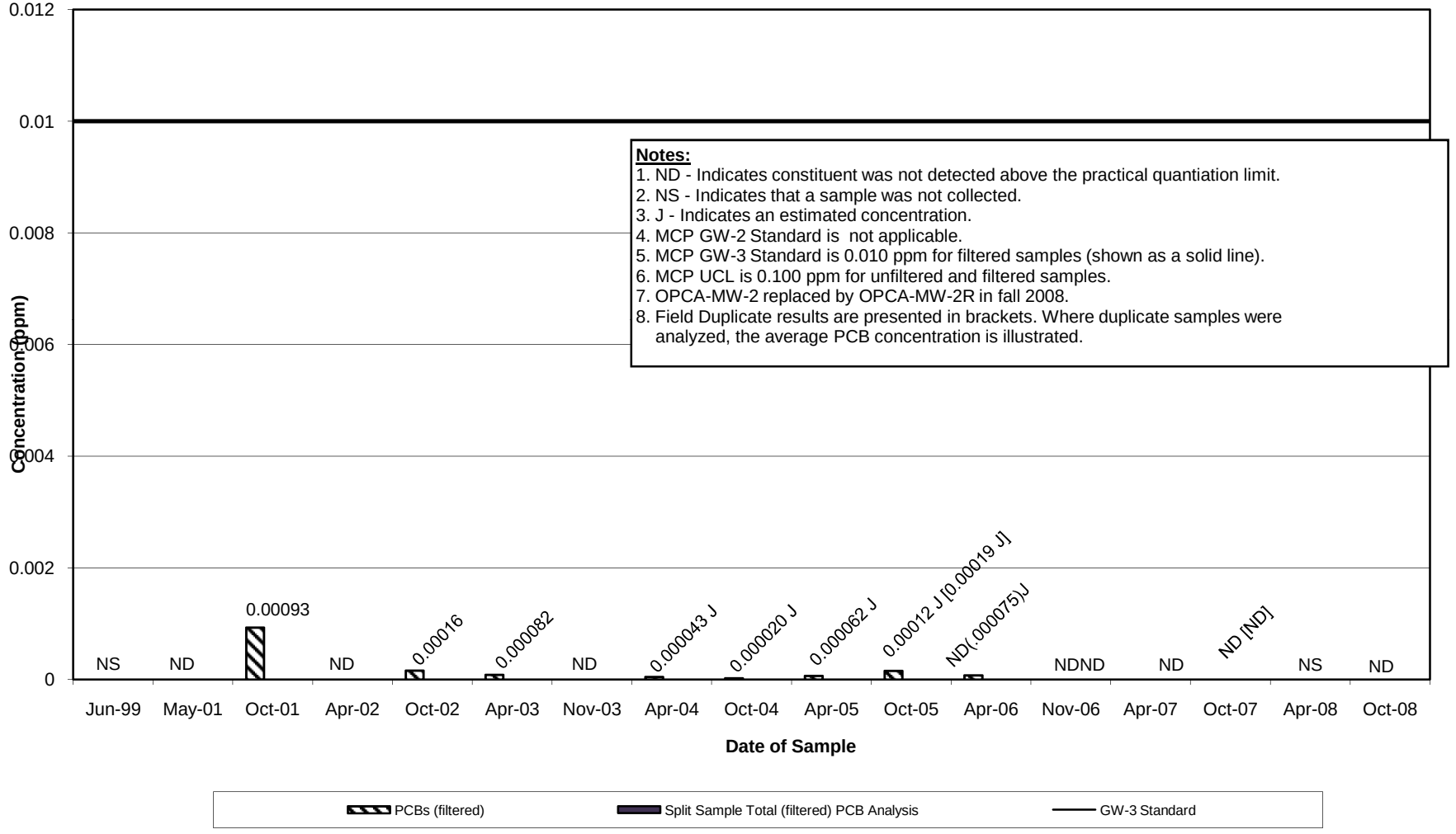
Appendix D
Well OPCA-MW-1/OPCA-MW-1R/OPCA-MW-1RR Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



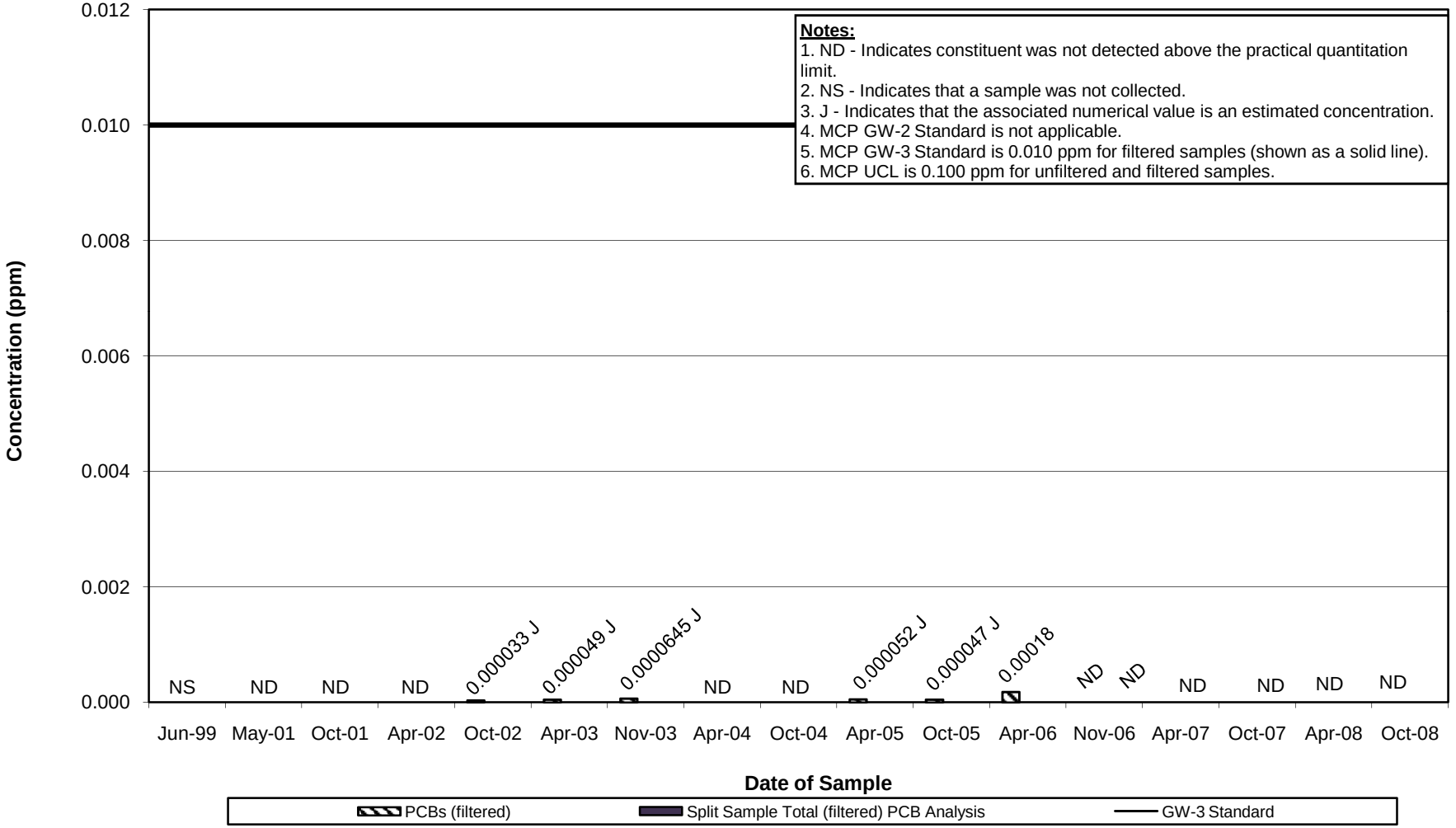
Appendix D
Well OPCA-MW-2/OPCA-MW-2R Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



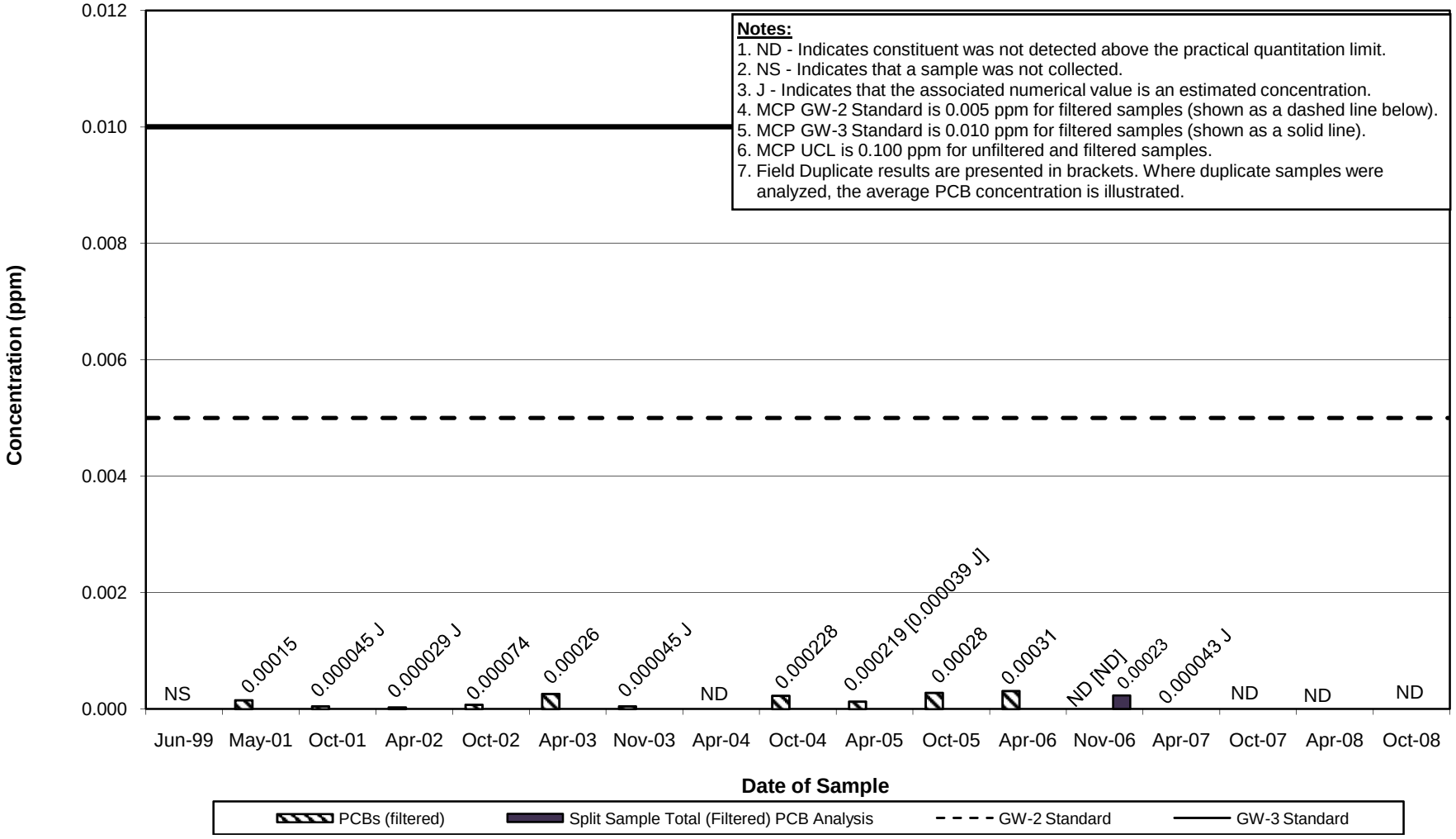
Appendix D
Well OPCA-MW-3 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



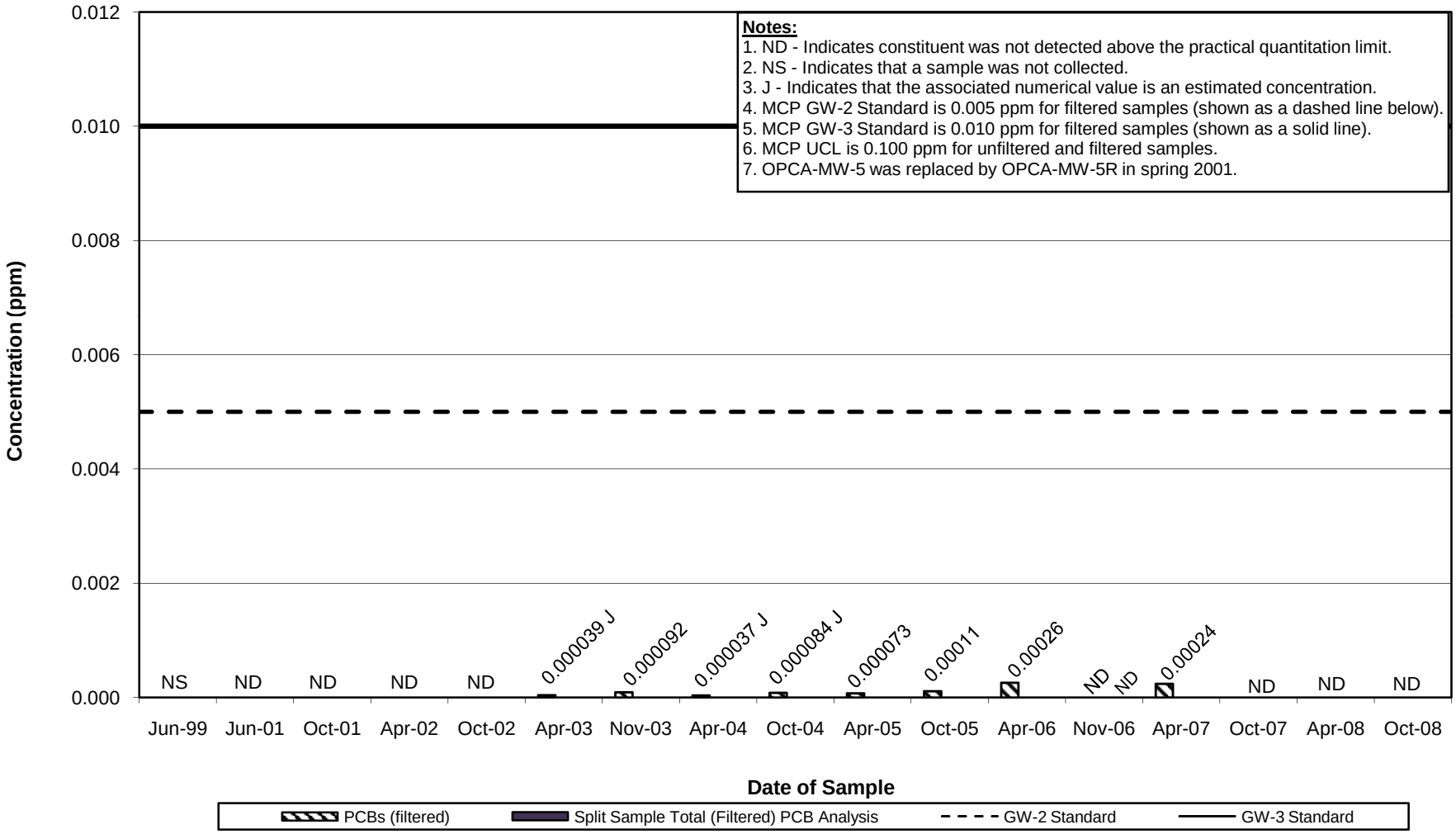
Appendix D
Well OPCA-MW-4 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



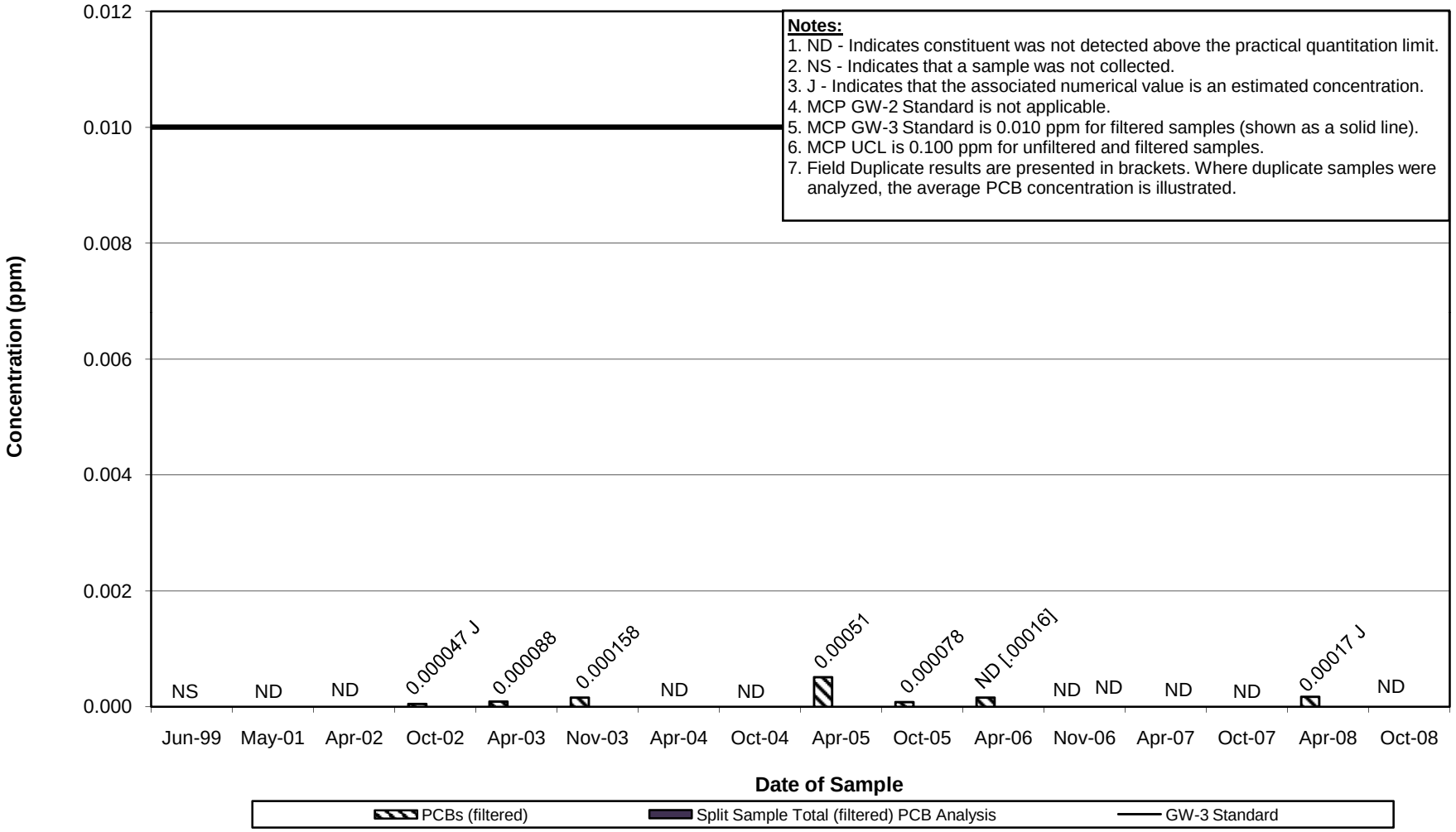
Appendix D
Well OPCA-MW-5R Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



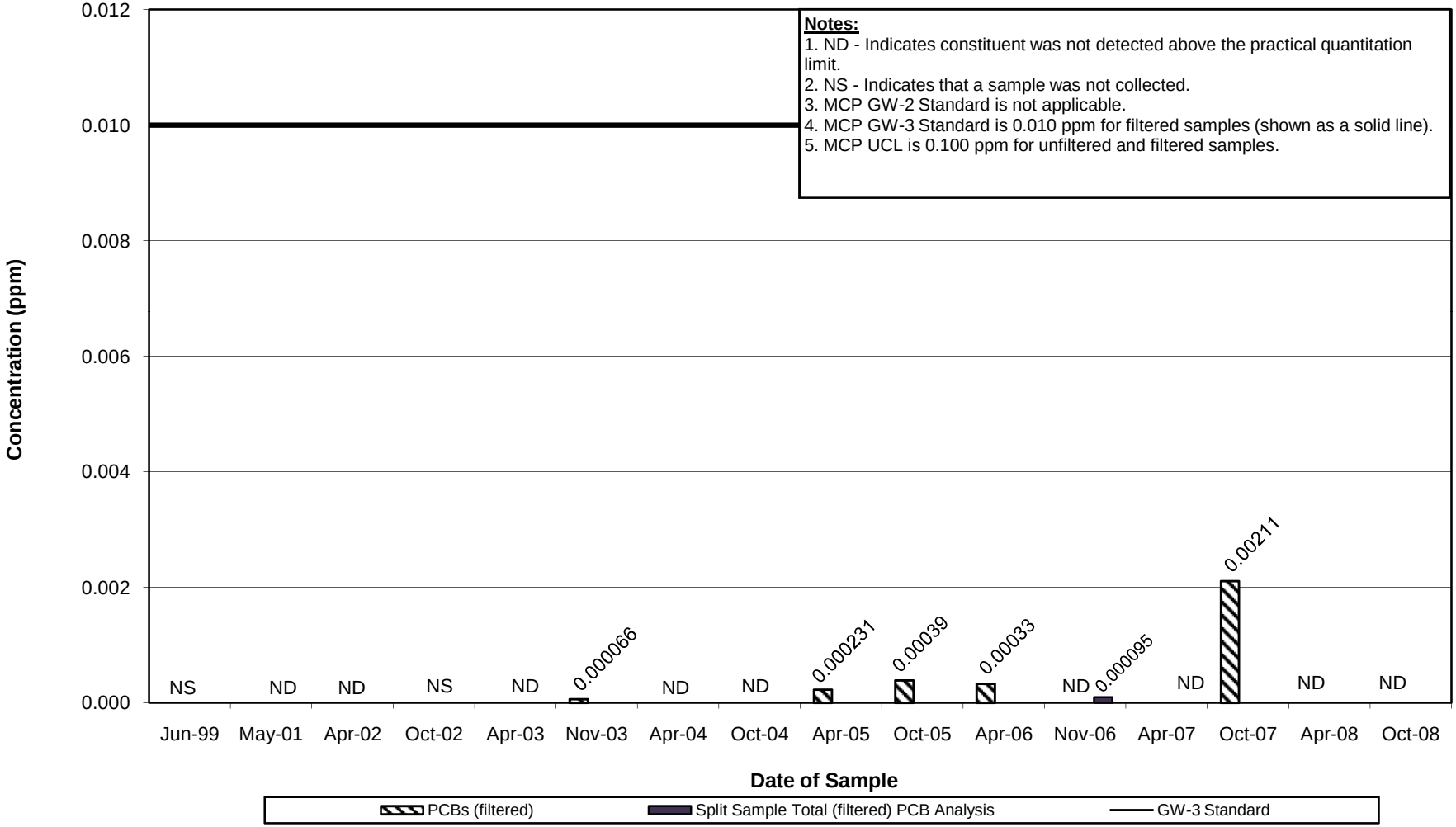
Appendix D
Well OPCA-MW-6 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



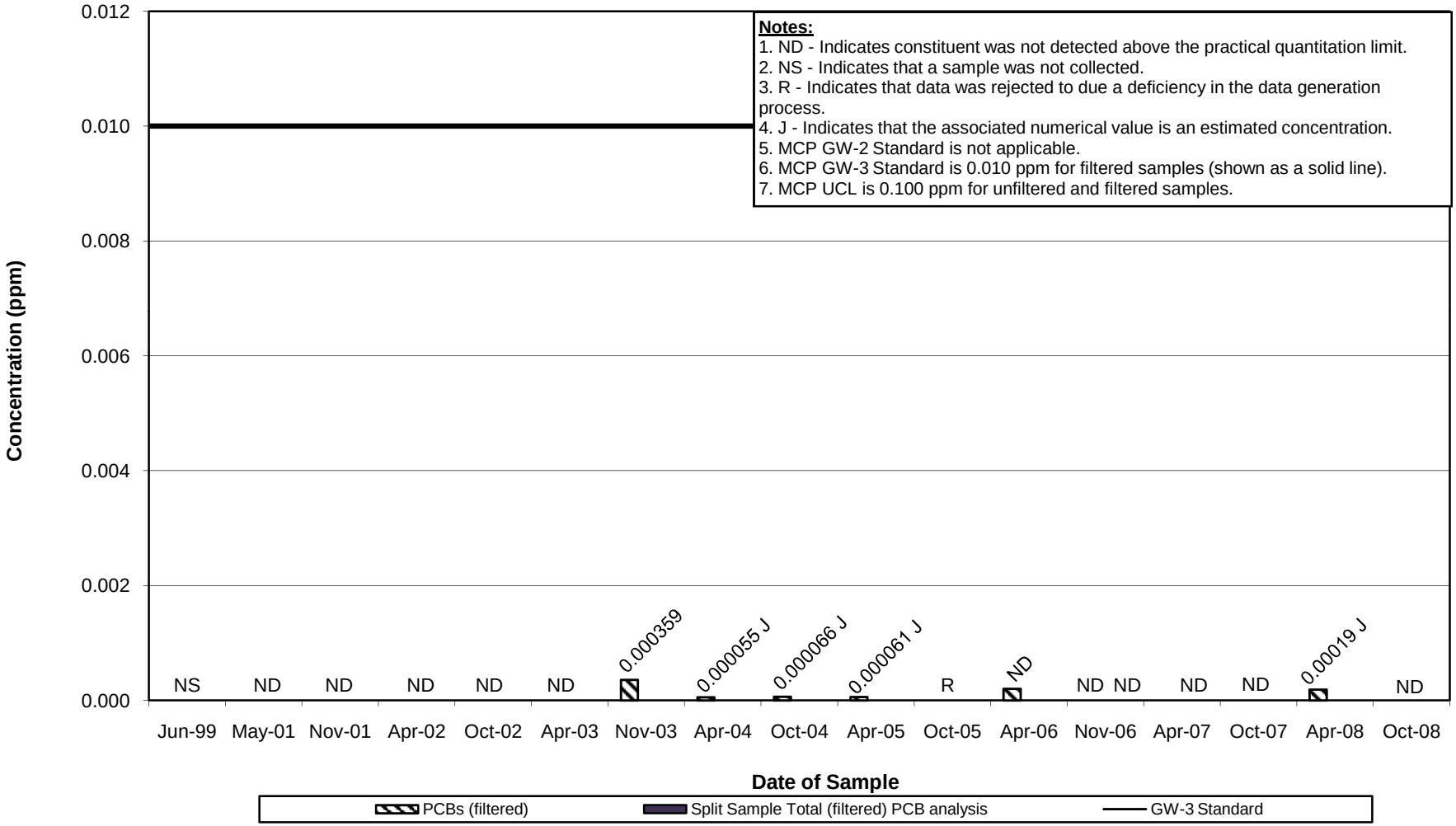
Appendix D
Well OPCA-MW-7 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



Appendix D
Well OPCA-MW-8 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



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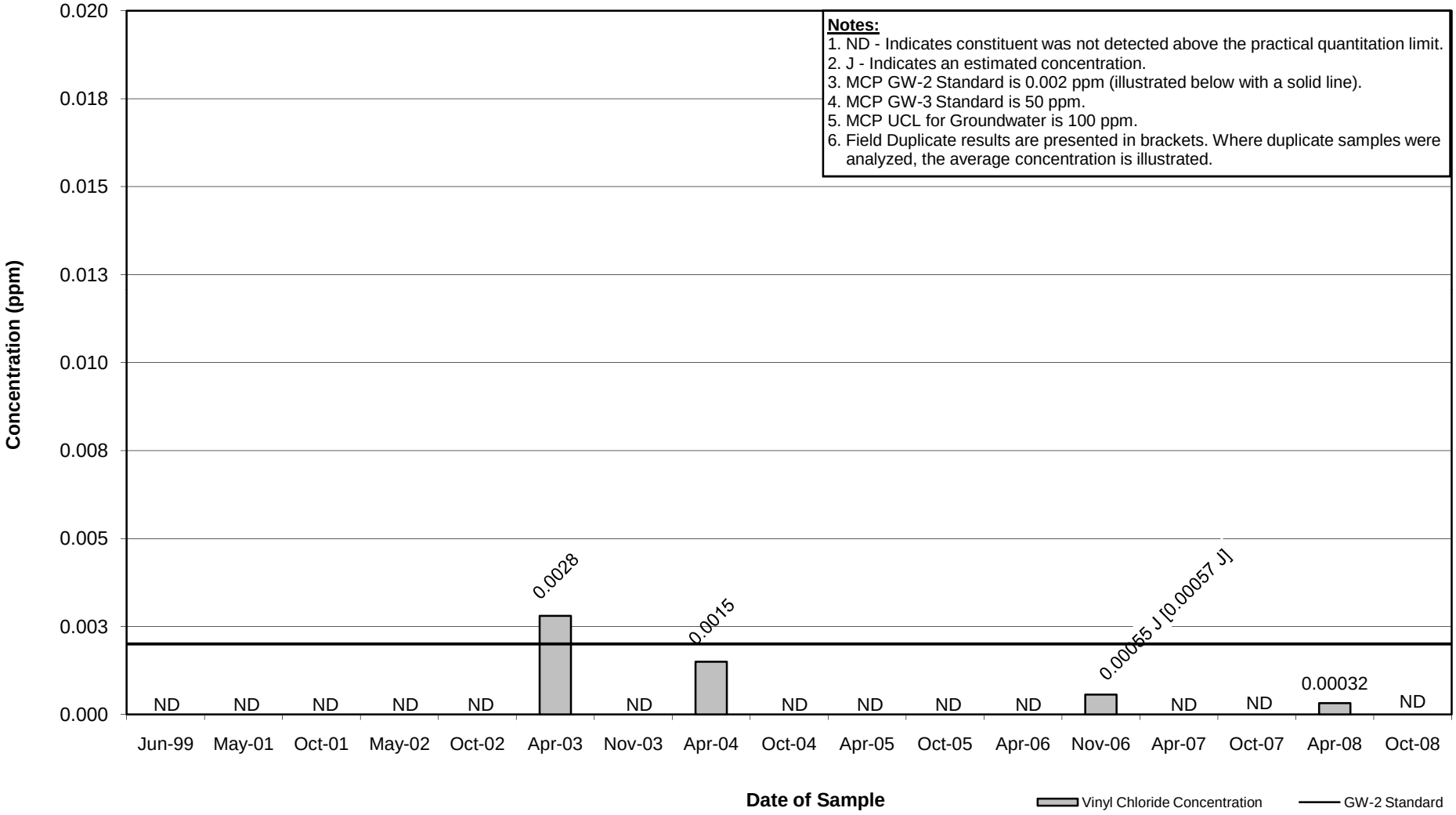
Historical Groundwater Data

Vinyl Chloride Concentrations –
Selected Wells

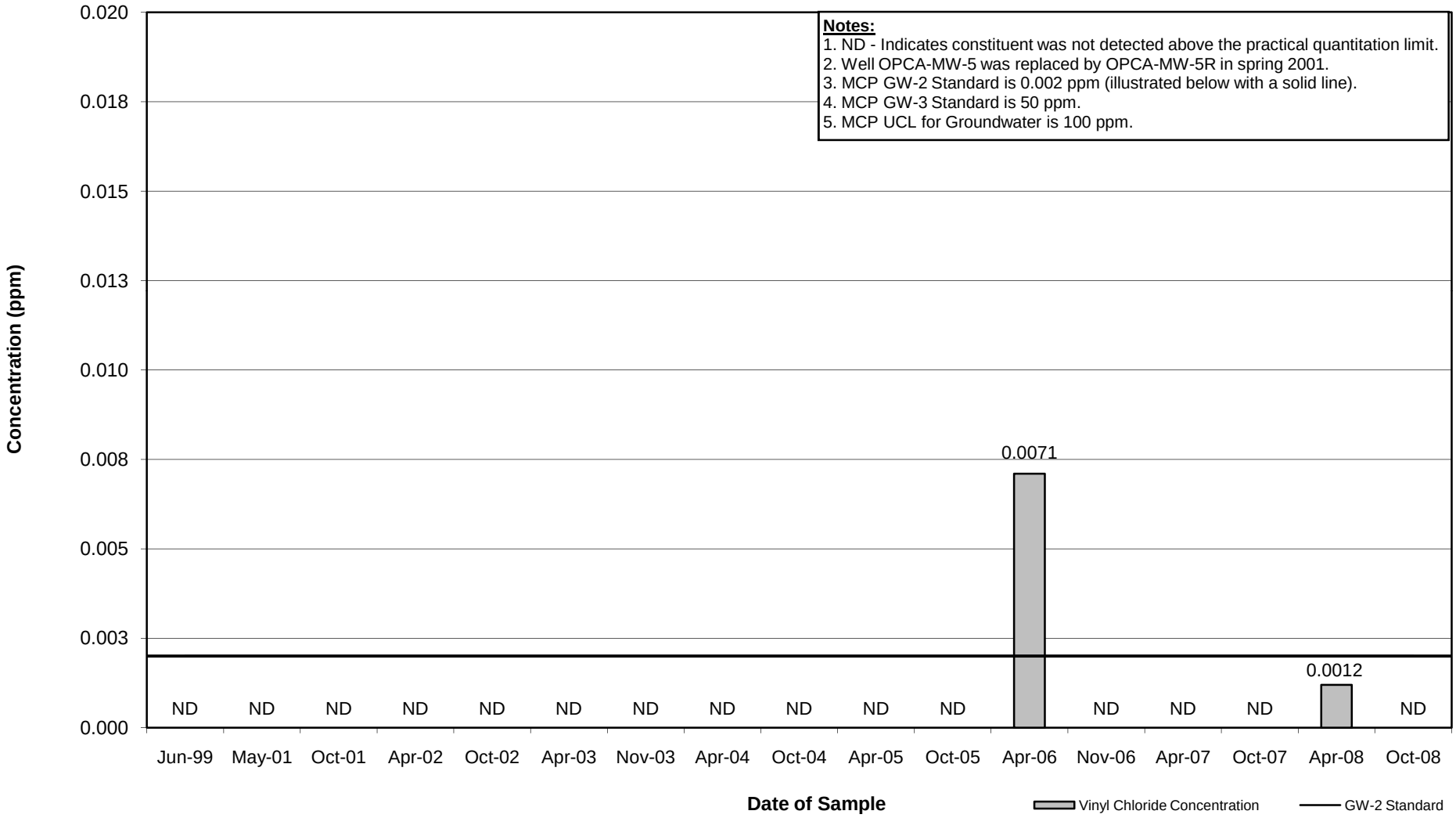
Appendix D
Well OPCA-MW-4 Historical Vinyl Chloride Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



Appendix D
Well OPCA-MW-5/OPCA-MW-5R Historical Vinyl Chloride Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



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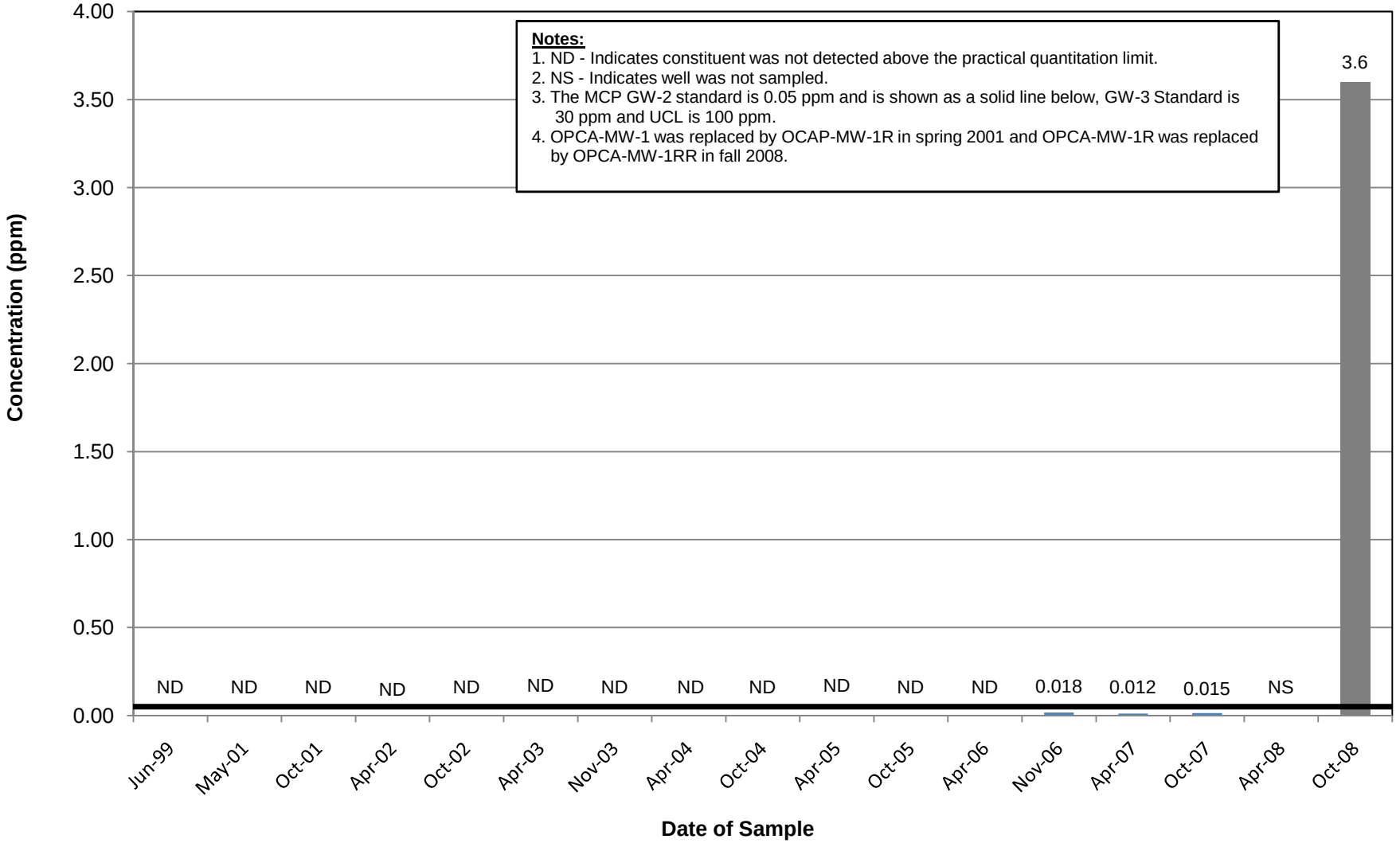
Historical Groundwater Data

Tetrachloroethene Concentrations –
Well OPCA-MW-1RR

Appendix D
Well OPCA-MW-1/OPCA-MW-1R/OPCA-MW-1RR Historical Tetrachloroethene (PCE) Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



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Appendix E

Pittsfield Generating Company
Groundwater Analytical Data

Table E-1
Summary Of Pittsfield Generating Company Groundwater Data

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

(Results in ppm)

Analyte Identification	MCP GW-3 Standard	Method 3 UCL	ASW-5 6/10/96	ASW-5/W-5* 9/20/96	ASW-5 12/16/96	ASW-5 6/9/97	ASW-5 12/16/97	ASW-5 6/23/98	ASW-5 12/29/98
Volatile Organics									
1,2 - Dichloroethene (total)	None	None	--	--	--	--	--	--	--
Acetone	50	100	--	--	--	--	--	--	--
Methylene chloride	50	100	--	0.0050 JB	--	--	--	--	--
Trichloroethene	20	100	0.016	0.0150	0.014	0.0150	0.0120	0.013	0.024
PCBs - Unfiltered									
PCB-1254	None	None	--	--	--	--	--	--	--
PCB-1260	None	None	--	--	--	--	--	--	--
Total PCBs	Not Applicable	0.005	--	--	--	--	--	--	--
PCBs - Filtered									
PCB-1254	None	None	NA	--	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	--	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	--	NA	NA	NA	NA	NA

Analyte Identification	MCP GW-3 Standard	Method 3 UCL	ASW-5 6/21/99	ASW-5 12/13/99	ASW-5 5/31/00	ASW-5 12/26/00	ASW-5 6/20/01	ASW-5 12/11/01	ASW-5 6/12/02
Volatile Organics									
1,2 - Dichloroethene (total)	None	None	0.006	--	--	--	--	--	--
Acetone	50	100	--	--	--	--	--	--	--
Methylene chloride	50	100	--	--	--	--	--	--	--
Trichloroethene	20	100	0.032	0.026	0.021	0.015	0.016	0.013	0.021
PCBs - Unfiltered									
PCB-1254	None	None	--	--	--	--	--	--	--
PCB-1260	None	None	--	--	--	--	--	--	--
Total PCBs	Not Applicable	0.005	--	--	--	--	--	--	--
PCBs - Filtered									
PCB-1254	None	None	NA	NA	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA	NA	NA	NA

Table E-1
Summary Of Pittsfield Generating Company Groundwater Data

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

(Results in ppm)

Analyte Identification	MCP GW-3 Standard	Method 3 UCL	ASW-5 12/6/02	ASW-5 6/2/03	ASW-5 12/1/03	ASW-5 6/7/04	ASW-5 12/13/04	ASW-5 6/7/05	ASW-5 12/7/05
Volatile Organics									
1,2 - Dichloroethene (total)	None	None	--	--	--	--	--	--	--
Acetone	50	100	--	--	0.017	--	--	--	--
Methylene chloride	50	100	--	--	--	--	--	--	--
Trichloroethene	20	100	0.012	0.022	0.016	0.019	0.017	0.018	0.018
PCBs - Unfiltered									
PCB-1254	None	None	--	--	--	--	--	--	--
PCB-1260	None	None	--	--	--	--	--	--	--
Total PCBs	Not Applicable	0.005	--	--	--	--	--	--	--
PCBs - Filtered									
PCB-1254	None	None	NA	NA	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA	NA	NA	NA

Analyte Identification	MCP GW-3 Standard	Method 3 UCL	ASW-5 6/6/06	ASW-5 12/12/06	ASW-5 6/4/07	ASW-5 12/4/07	ASW-5 6/4/08	ASW-5 12/2/08
Volatile Organics								
1,2 - Dichloroethene (total)	None	None	--	--	--	--	--	--
Acetone	50	100	--	--	--	--	--	--
Methylene chloride	50	100	--	--	--	--	--	--
Trichloroethene	20	100	0.014	0.012	0.0086	0.014	0.0097	--
PCBs - Unfiltered								
PCB-1254	None	None	--	--	--	--	--	--
PCB-1260	None	None	--	--	--	--	--	--
Total PCBs	Not Applicable	0.005	--	--	--	--	--	--
PCBs - Filtered								
PCB-1254	None	None	NA	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA	NA	NA

Table E-1
Summary Of Pittsfield Generating Company Groundwater Data

Groundwater Quality Monitoring Interim Report for Fall 2008
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

(Results in ppm)

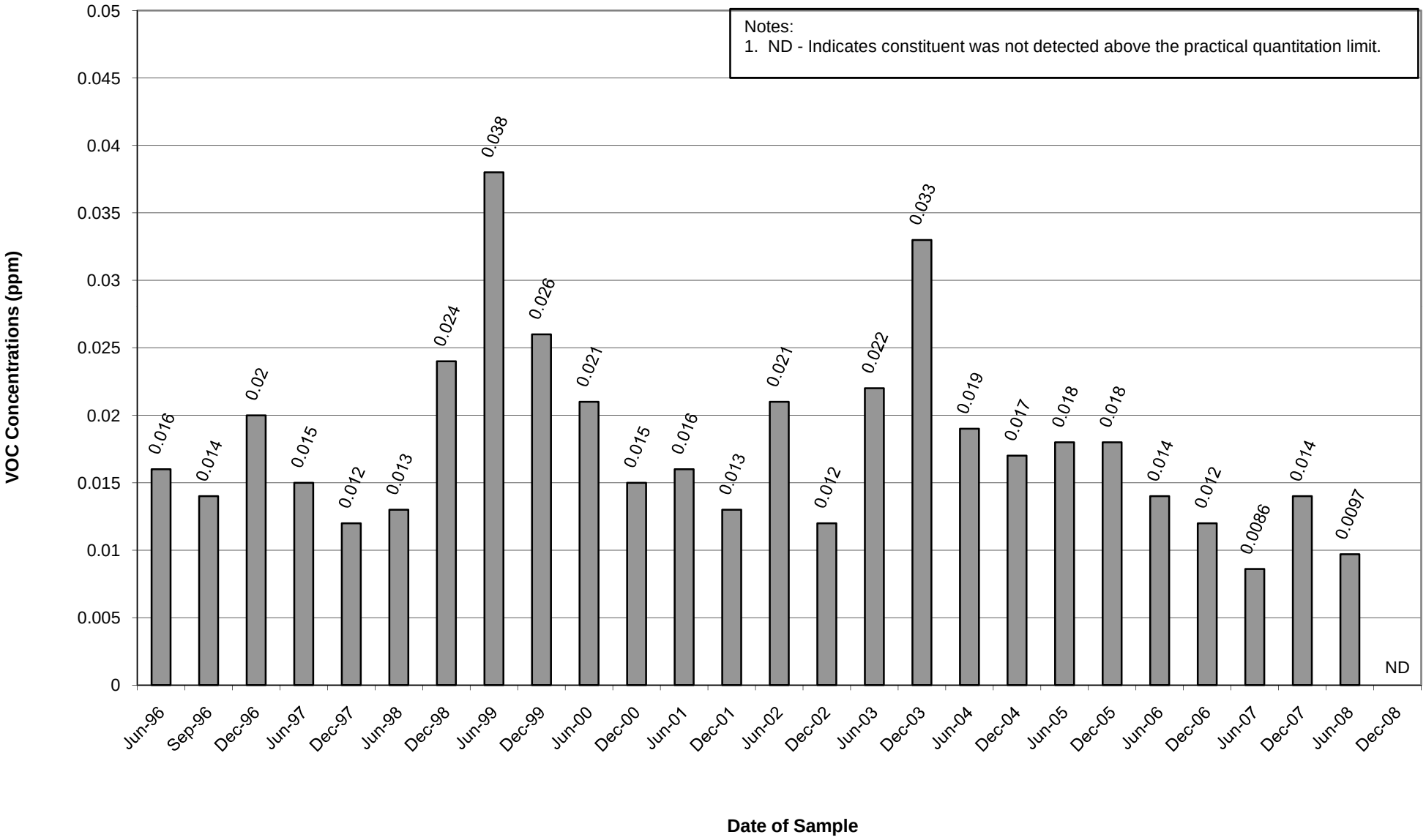
Notes:

1. Only parameters detected in at least one sample are shown.
2. -- Compound was not detected.
3. J - Indicates an estimated value less than the practical quantitation limit (PQL).
4. B - Analyte was also detected in the associated blank.
5. * - Sample was collected by Blasland, Bouck, & Lee, Inc., now known as ARCADIS.
6. NA - Not Analyzed

Appendix E

Summary of Pittsfield Generating Company Groundwater Data
Well ASW-5 Historical Total VOC Concentrations

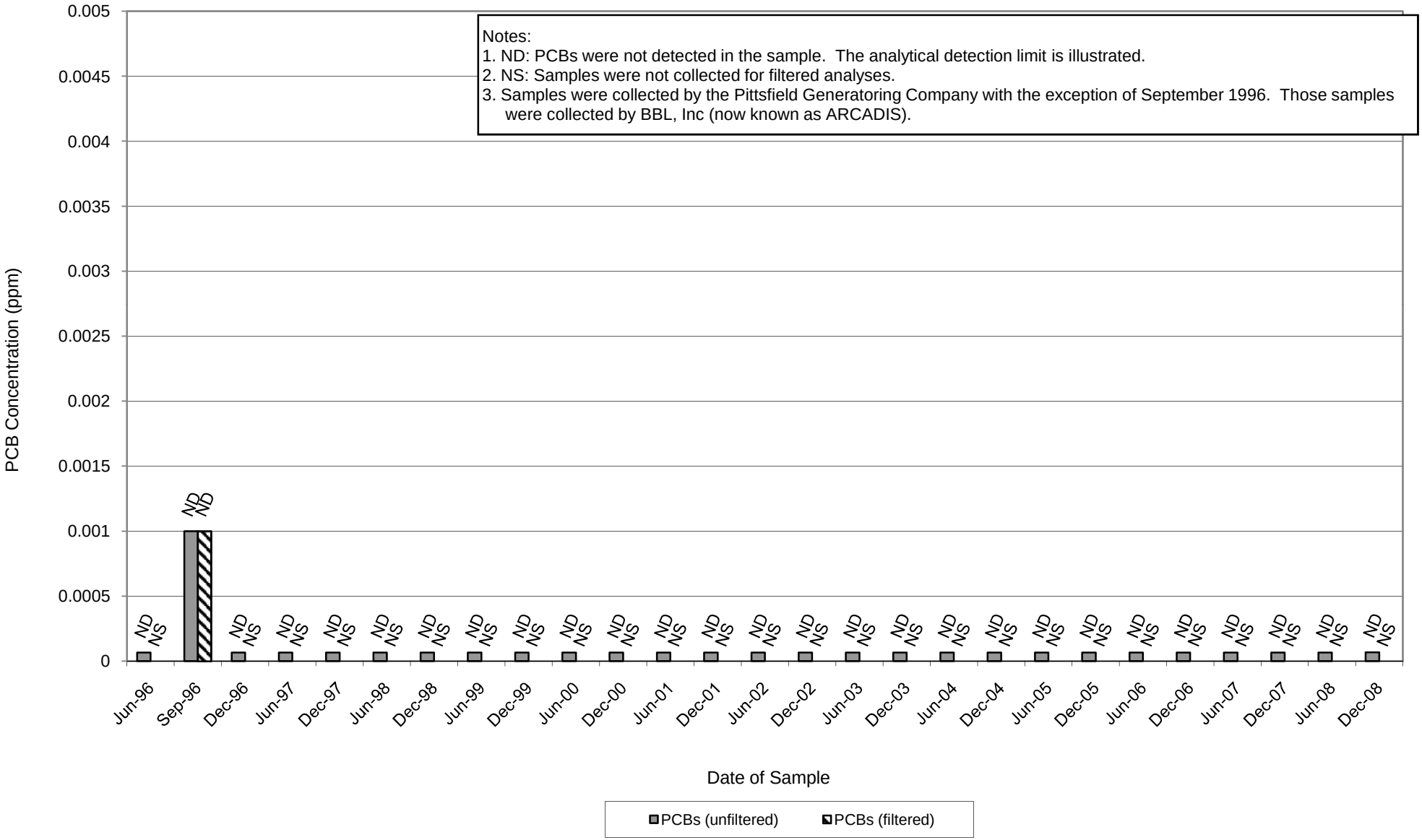
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



Appendix E

Summary of Pittsfield Generating Company Groundwater Data
Well ASW-5 Historical Total PCB Concentrations

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts



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Appendix F

Data Validation Report

Appendix F
Groundwater Sampling Data Validation Report
Groundwater Management Area 4 – Fall 2008

General Electric Company
Pittsfield, Massachusetts

1.0 General

This attachment summarizes the data validation review performed on behalf of the General Electric Company (GE) for groundwater samples collected in October and November 2008 as part of groundwater sampling activities conducted at Groundwater Management Area 4, located at the General Electric Company/Housatonic River Site in Pittsfield, Massachusetts. The samples were analyzed for polychlorinated biphenyls (PCBs) and/or various other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. of Wilmington, North Carolina. Data validation was performed for 16 PCB samples, 16 volatile organic compound (VOC) samples, 14 semi-volatile organic compound (SVOC) samples, 14 metal samples, 14 cyanide samples, 14 sulfide samples, and 14 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples.

2.0 Data Evaluation Procedures

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

- *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts,* ARCADIS BBL (submitted by GE on March 30, 2007 and approved by EPA on June 13, 2007)*;*

- *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 (Draft, December 1996); and

- *National Functional Guidelines for Dioxin/Furan Data Validation,* USEPA (Draft, January 1996).

The data were validated to either a Tier I or Tier II level, as described below. Any deviations from the applicable quality control criteria utilized during the data review process are identified below. A tabulated summary of the Tier I/Tier II data review is presented in Table F-1. Each sample subject to evaluation is listed in Table D-1 to document that data review was performed. Samples that required data qualification are listed separately.

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. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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 for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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

Section 7.5 of the FSP/QAPP states that 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* (EPA guidelines). The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that 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 EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of 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. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A tabulated summary of the samples subject to Tier I and Tier II data review 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	14	1	1	16
VOCs	0	0	0	12	1	3	16
SVOCs	0	0	0	12	1	1	14
Metals	0	0	0	12	1	1	14
PCDDs/PCDFs	0	0	0	12	1	1	14
Sulfides	0	0	0	12	1	1	14
Cyanides	0	0	0	12	1	1	14

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	
Total	0	0	0	86	7	9	102

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 EPA 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 in Section 4 below.

4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification

This section provides a summary of the deviations from the applicable QA/QC criteria that resulted in qualification of results.

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not achieved. The compounds that did not achieve the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	16	J
	1,4-Dioxane	16	J
	2-Butanone	16	J
	2-Chloroethylvinylether	15	J
	Acetone	16	J
	Acetonitrile	16	J
	Acrolein	16	J
	Acrylonitrile	16	J
	Isobutanol	16	J
	Methacrylonitrile	8	J
	Propionitrile	16	J
	trans-1,4-Dichloro-2-butene	16	J
SVOCs	Hexachlorophene	14	J

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs 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	2-Hexanone	8	J
	Acetone	8	J
	Acrolein	1	J
	Bromomethane	8	J
	Methacrylonitrile	1	J
SVOCs	1-Naphthylamine	6	J
	2-Naphthylamine	7	J
	4-Nitroquinoline-1-oxide	6	J
	4-Phenylenediamine	7	J
	a,a'-Dimethylphenethylamine	12	J
	Hexachlorocyclopentadiene	12	J
	Methapyrilene	12	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80% and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries were outside these control limits, the affected samples with detected results at or near the PQL concentration (i.e., less than three times the PQL) were qualified as estimated (J). The analytes that did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Arsenic	14	J
	Beryllium	11	J
	Cadmium	11	J
	Chromium	14	J
	Cobalt	14	J
	Copper	14	J
	Lead	14	J
	Nickel	4	J
	Selenium	14	J
	Silver	4	J
	Thallium	11	J
	Tin	13	J

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organics require that the MS/MSD recovery must be within the laboratory-generated QC control limits specified on the MS reporting form. Sample results with MS/MSD recoveries that were less than the laboratory-generated QC control limits and have recoveries greater than 10% were qualified as estimated (J). Non-detect organic sample results that exhibited MS/MSD recoveries less than 10% were qualified as rejected (R). The compounds that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R
PCBs	All Aroclors	1	J
Miscellaneous	Sulfide	3	J

MS/MSD sample analysis recovery criteria for organics require that the RPD between the MS and MSD recoveries be less than the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

Compounds Qualified Due to MS/MSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	All Aroclors	1	J

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis recovery criteria for organics must be within the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. Organic sample results associated with the LCS/LCSD that exceeded laboratory-generated QC acceptance limits were qualified as estimated (J). The compounds that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Trichlorofluoromethane	7	J
	Vinyl Chloride	7	J
PCBs	All Aroclors	11	J

LCS/LCSD sample analysis recovery criteria for organics require that the RPD between the LCS and LCSD recoveries be less than the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

Compounds Qualified Due to LCS/LCSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	7	J
	Acrolein	7	J

Blank action levels for analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample results that were below the blank action level were qualified with a “U.” The analytes

detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Analytes Qualified Due to Blank Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Arsenic	2	U
	Barium	3	U
	Beryllium	8	U
	Chromium	13	U
	Cobalt	3	U
	Copper	13	U
	Lead	3	U
	Nickel	1	U
	Silver	13	U

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. 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/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

Data Usability

Parameter	Percent Usability	Rejected Data
VOCs	99.9	A total of one sample result was rejected due to MS/MSD recovery deviations.
SVOCs	100	None
PCBs	100	None
PCDDs/PCDFs	100	None
Metals	100	None
Sulfides	100	None
Cyanides	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 field duplicates, MS/MSD samples, and LCS/LCSD samples. For this analytical program, 0.25% of the data required qualification due to MS/MSD RPD deviations and 0.43% of the data required qualification due to LCS/LCSD RPD deviations. None of the data required qualification due to field duplicate 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, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 8.8% of the data required qualification due to instrument calibration deviations, 3.1% of the data required qualification due to LCS/LCSD recovery deviations, 0.37% of the data required qualification due to MS/MSD recovery deviations, and 4.2% of the data required qualification due to CRDL recovery deviations. None of the data required qualification due to surrogate compound recovery deviations or internal 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 the EPA-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 EPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical data set, none of the data required qualification due to holding time deviations.

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. Specifically, all the groundwater samples collected in October and November 2008 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 8290 for PCDDs/PCDFs, 6000/7000 for metals, 9030 for sulfides, and 9014 for cyanides.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set ranged from 99.9% to 100% for individual analytical parameters and had an overall usability of 99.9%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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											
G582-145	GMA4-DUP-01 (Filtered)	10/21/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	Parent Sample OPCA-MW-6 (Filtered)
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000068) J	
G582-145	OPCA-MW-1RR (Filtered)	10/20/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00010) J	
G582-145	OPCA-MW-2R (Filtered)	10/21/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000072) J	
G582-145	OPCA-MW-4 (Filtered)	10/20/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000070) J	
G582-145	OPCA-MW-5R (Filtered)	10/21/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000069) J	
G582-145	OPCA-MW-6 (Filtered)	10/21/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.00011) J	
G582-145	OPCA-MW-7 (Filtered)	10/21/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1221	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1232	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1242	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1248	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1254	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Aroclor-1260	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
						Total PCBs	LCS/LCSD %R	67.0%, 53.6%	70.0% to 130%	ND(0.000067) J	
G582-149	78-6 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	GMA4-2 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	GMA4-3 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-3 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-8 (Filtered)	10/22/2008	Water	Tier II	No						
G582-150	78-1 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1016	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1016	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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 (continued)											
G582-150	78-1 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1221	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1221	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1221	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Aroclor-1232	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1232	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1232	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Aroclor-1242	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1242	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1242	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Aroclor-1248	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1248	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1248	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Aroclor-1254	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1254	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1254	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Aroclor-1260	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1260	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Aroclor-1260	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
						Total PCBs	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Total PCBs	MS %R	27.0%	32.0% to 142%	ND(0.00010) J	
						Total PCBs	MS/MSD RPD	76.8%	<12%	ND(0.00010) J	
G582-150	GMA4-6 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1221	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1232	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1242	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1248	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1254	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1260	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Total PCBs	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
G582-150	H78B-15 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1221	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1232	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1242	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1248	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1254	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Aroclor-1260	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
						Total PCBs	LCS %R	56.1%	70.0% to 130%	ND(0.00010) J	
G582-184	GMA-4-RB-1 (Filtered)	11/4/2008	Water	Tier II	Yes	Aroclor-1016	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1221	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1232	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1242	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1248	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1254	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Aroclor-1260	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
						Total PCBs	LCS/LCSD %R	50.0%, 53.0%	70.0% to 130%	ND(0.000066) J	
Metals											
G582-145	GMA4-DUP-01 (Filtered)	10/21/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	0.00213 J	Parent Sample OPCA-MW-6 (Filtered)
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	0.00328 J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00718 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-1RR (Filtered)	10/20/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	0.00195 J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	0.00256 J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	

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Groundwater Management Area 4 - Fall 2008

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
Metals (continued)											
G582-145	OPCA-MW-1RR (Filtered)	10/20/2008	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00395 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-2R (Filtered)	10/20/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	0.00263 J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00420 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-4 (Filtered)	10/20/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	0.00276 J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00425 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-5R (Filtered)	10/21/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00657 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-6 (Filtered)	10/21/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00641 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-145	OPCA-MW-7 (Filtered)	10/21/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	

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Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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
Metals (continued)											
G582-145	OPCA-MW-7 (Filtered)	10/21/2008	Water	Tier II	Yes	Cadmium	CRDL Standard %R	142.0%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	ND(0.0100) J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-149	78-6 (Filtered)	10/22/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	0.00517 J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	0.00372 J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00684 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-149	OPCA-MW-3 (Filtered)	10/22/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00564 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-149	OPCA-MW-8 (Filtered)	10/22/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	79.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	142.0%	80% to 120%	0.00287 J	
						Chromium	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	125.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	150.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	144.0%	80% to 120%	0.00427 J	
						Selenium	CRDL Standard %R	74.8%	80% to 120%	ND(0.0200) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Thallium	CRDL Standard %R	76.7%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-150	78-1 (Filtered)	10/23/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	121.0%	80% to 120%	ND(0.0100) J	
						Arsenic	Method Blank	-	-	ND(0.0100)	
						Barium	Method Blank	-	-	ND(0.500)	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Chromium	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	166.0%	80% to 120%	ND(0.0100) J	
						Cobalt	Method Blank	-	-	ND(0.0100)	
						Copper	CRDL Standard %R	152.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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
Metals (continued)											
G582-150	78-1 (Filtered)	10/23/2008	Water	Tier II	Yes	Lead	CRDL Standard %R	132.0%	80% to 120%	ND(0.0100) J	
						Lead	Method Blank	-	-	ND(0.0100)	
						Nickel	CRDL Standard %R	140.0%	80% to 120%	ND(0.0500) J	
						Selenium	CRDL Standard %R	136.0%	80% to 120%	ND(0.0200) J	
						Silver	CRDL Standard %R	182.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-150	GMA4-6 (Filtered)	10/23/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	121.0%	80% to 120%	ND(0.0100) J	
						Arsenic	Method Blank	-	-	ND(0.0100)	
						Barium	Method Blank	-	-	ND(0.500)	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Chromium	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	166.0%	80% to 120%	ND(0.0100) J	
						Cobalt	Method Blank	-	-	ND(0.0100)	
						Copper	CRDL Standard %R	152.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	132.0%	80% to 120%	ND(0.0100) J	
						Lead	Method Blank	-	-	ND(0.0100)	
						Nickel	CRDL Standard %R	140.0%	80% to 120%	ND(0.0500) J	
						Nickel	Method Blank	-	-	ND(0.0500)	
						Selenium	CRDL Standard %R	136.0%	80% to 120%	0.00962 J	
						Silver	CRDL Standard %R	182.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-150	H78B-15 (Filtered)	10/23/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	121.0%	80% to 120%	ND(0.0100) J	
						Barium	Method Blank	-	-	ND(0.500)	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Chromium	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Cobalt	CRDL Standard %R	166.0%	80% to 120%	ND(0.0100) J	
						Cobalt	Method Blank	-	-	ND(0.0100)	
						Copper	CRDL Standard %R	152.0%	80% to 120%	ND(0.200) J	
						Copper	Method Blank	-	-	ND(0.200)	
						Lead	CRDL Standard %R	132.0%	80% to 120%	ND(0.0100) J	
						Lead	Method Blank	-	-	ND(0.0100)	
						Nickel	CRDL Standard %R	140.0%	80% to 120%	ND(0.0500) J	
						Selenium	CRDL Standard %R	136.0%	80% to 120%	0.00918 J	
						Silver	CRDL Standard %R	182.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Tin	CRDL Standard %R	123.0%	80% to 120%	ND(0.100) J	
G582-184	GMA-4-RB-1 (Filtered)	11/4/2008	Water	Tier II	Yes	Arsenic	CRDL Standard %R	151.0%	80% to 120%	ND(0.0100) J	
						Beryllium	CRDL Standard %R	162.0%	80% to 120%	0.00359 J	
						Cadmium	CRDL Standard %R	181.0%	80% to 120%	0.00394 J	
						Chromium	CRDL Standard %R	152.0%	80% to 120%	0.00537 J	
						Cobalt	CRDL Standard %R	121.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	167.0%	80% to 120%	0.00620 J	
						Lead	CRDL Standard %R	127.0%	80% to 120%	0.00451 J	
						Nickel	CRDL Standard %R	134.0%	80% to 120%	ND(0.0500) J	
						Selenium	CRDL Standard %R	124.0%	80% to 120%	ND(0.0200) J	
						Silver	CRDL Standard %R	158.0%	80% to 120%	0.00471 J	
						Thallium	CRDL Standard %R	63.2%	80% to 120%	ND(0.0100) J	
VOCs											
G582-145	GMA4-DUP-01	10/21/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	Parent Sample OPCA-MW-6
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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)											
G582-145	GMA4-DUP-01	10/21/2008	Water	Tier II	Yes	Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-145	OPCA-MW-1RR	10/20/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(2.5) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(50) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(2.5) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(6.3) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(6.3) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(2.5) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(10) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(13) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(13) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(13) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.50) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(25) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(5.0) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(10) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(2.5) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.50) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.50) J	
G582-145	OPCA-MW-2R	10/20/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-145	OPCA-MW-4	10/20/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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)											
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	Yes	Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-145	OPCA-MW-6	10/21/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-145	OPCA-MW-7	10/21/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						2-Chloroethylvinylether	LCS/LCSD RPD	33.7%	<30%	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	LCS/LCSD RPD	30.5%	<30%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	44.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Trichlorofluoromethane	LCSD %R	76.6%	80.5% to 130%	ND(0.0010) J	
						Vinyl Chloride	LCSD %R	76.4%	77.5% to 126%	ND(0.0010) J	
G582-149	78-6	10/22/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-149	OPCA-MW-3	10/22/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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)											
G582-149	OPCA-MW-3	10/22/2008	Water	Tier II	Yes	Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-149	OPCA-MW-8	10/22/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-149	TripBlank	10/22/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-150	78-1	10/23/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	MS/MSD %R	0.0%, 0.0%	16.7% to 200%	R	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-150	GMA4-6	10/23/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-150	H78B-15	10/23/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	

Table F-1
Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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)											
G582-150	H78B-15	10/23/2008	Water	Tier II	Yes	Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-150	TripBlank	10/23/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.038	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.013	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	42.4%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	28.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
G582-184	GMA-4-RB-1	11/4/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.032	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.023	>0.05	ND(0.025) J	
						Acrolein	CCAL %D	34.8%	<25%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	40.0%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
						Methacrylonitrile	CCAL %D	30.0%	<25%	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.028	>0.05	ND(0.0050) J	
SVOCs											
G582-145	GMA4-DUP-01	10/21/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.026) J	Parent Sample OPCA-MW-6
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0052) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0052) J	
G582-145	OPCA-MW-1RR	10/20/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.025) J	
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.025) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.025) J	
						4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.025) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0051) J	
G582-145	OPCA-MW-2R	10/21/2008	Water	Tier II	Yes	Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0053) J	
G582-145	OPCA-MW-4	10/20/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0052) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0052) J	
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.026) J	

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Analytical Data Validation Summary
Groundwater Management Area 4 - Fall 2008

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
SVOCs (continued)											
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	Yes	4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0052) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0052) J	
G582-145	OPCA-MW-6	10/21/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.011) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.011) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0052) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0052) J	
G582-145	OPCA-MW-7	10/21/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	29.8%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	43.3%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	25.2%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	46.3%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	31.1%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	47.4%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0052) J	
						Methapyrilene	CCAL %D	32.7%	<25%	ND(0.0052) J	
G582-149	78-6	10/22/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0051) J	
G582-149	OPCA-MW-3	10/22/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.027) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.011) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0054) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0054) J	
G582-149	OPCA-MW-8	10/22/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0051) J	
G582-150	78-1	10/23/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0051) J	
G582-150	GMA4-6	10/23/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0051) J	
G582-150	H78B-15	10/23/2008	Water	Tier II	Yes	a,a'-Dimethylphenethylamine	CCAL %D	96.6%	<25%	ND(0.026) J	
						Hexachlorocyclopentadiene	CCAL %D	26.7%	<25%	ND(0.011) J	
						Hexachlorophene	ICAL RRF	0.020	>0.05	ND(0.0053) J	
						Methapyrilene	CCAL %D	42.9%	<25%	ND(0.0053) J	
G582-184	GMA-4-RB-1	11/4/2008	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	27.5%	<25%	ND(0.025) J	
						4-Phenylenediamine	CCAL %D	33.0%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.027	>0.05	ND(0.0050) J	
PCDDs/PCDFs											
G582-145	GMA4-DUP-01	10/21/2008	Water	Tier II	No						Parent Sample OPCA-MW-6
G582-145	OPCA-MW-1RR	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-2R	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-4	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-6	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-7	10/21/2008	Water	Tier II	No						
G582-149	78-6	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-3	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-8	10/22/2008	Water	Tier II	No						
G582-150	78-1	10/23/2008	Water	Tier II	No						
G582-150	GMA4-6	10/23/2008	Water	Tier II	No						
G582-150	H78B-15	10/23/2008	Water	Tier II	No						
G582-184	GMA-4-RB-1	11/4/2008	Water	Tier II	No						

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Groundwater Management Area 4 - Fall 2008

General Electric Company - Pittsfield, Massachusetts
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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Cyanides											
G582-145	GMA4-DUP-01 (Filtered)	10/21/2008	Water	Tier II	No						Parent Sample OPCA-MW-6 (Filtered)
G582-145	OPCA-MW-1RR (Filtered)	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-2R (Filtered)	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-4 (Filtered)	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-5R (Filtered)	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-6 (Filtered)	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-7 (Filtered)	10/21/2008	Water	Tier II	No						
G582-149	78-6 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-3 (Filtered)	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-8 (Filtered)	10/22/2008	Water	Tier II	No						
G582-150	78-1 (Filtered)	10/23/2008	Water	Tier II	No						
G582-150	GMA4-6 (Filtered)	10/23/2008	Water	Tier II	No						
G582-150	H78B-15 (Filtered)	10/23/2008	Water	Tier II	No						
G582-184	GMA-4-RB-1 (Filtered)	11/4/2008	Water	Tier II	No						
Sulfides											
G582-145	GMA4-DUP-01	10/21/2008	Water	Tier II	No						Parent Sample OPCA-MW-6
G582-145	OPCA-MW-1RR	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-2R	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-4	10/20/2008	Water	Tier II	No						
G582-145	OPCA-MW-5R	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-6	10/21/2008	Water	Tier II	No						
G582-145	OPCA-MW-7	10/21/2008	Water	Tier II	Yes	Sulfide	MS %R	70.0%	75% to 125%	1.00 J	
G582-149	78-6	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-3	10/22/2008	Water	Tier II	No						
G582-149	OPCA-MW-8	10/22/2008	Water	Tier II	No						
G582-150	78-1	10/23/2008	Water	Tier II	Yes	Sulfide	MS/MSD %R	60.0%, 58.0%	75% to 125%	1.3 J	
G582-150	GMA4-6	10/23/2008	Water	Tier II	No						
G582-150	H78B-15	10/23/2008	Water	Tier II	No						
G582-184	GMA-4-RB-1	11/4/2008	Water	Tier II	Yes	Sulfide	MS %R	45.0%	75% to 125%	ND(1.00) J	