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Transmitted Via Overnight Courier

January 30, 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 1 (GECD310)
Groundwater Quality Monitoring Interim Report for Fall 2008

Dear Mr. Fisher:

In accordance with GE's approved *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (September 2000) and *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Spring 2008* (July 2008), enclosed is the *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008*. This report summarizes activities performed as part of the Plant Site 1 Groundwater Management Area (GMA 1) groundwater quality monitoring program during fall 2008, including the results of the latest groundwater sampling and analysis round at GMA 1. In addition, certain minor modifications to the interim monitoring program at GMA 1 are proposed in response to the results of the fall 2008 activities.

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

Sincerely,

Richard W Gates / KC for

Richard W. Gates
Remediation Project Manager

Enclosure
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Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008

January 2009

ARCADIS

Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008

(Fall 2008 GMA 1 Groundwater Quality Report)

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1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), the RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them, in Section 2.7 of the Statement of Work for Removal Actions Outside the River (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Plant Site 1 Groundwater Management Area, also known as and referred to herein as GMA 1.

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

The baseline monitoring program, which was initiated in fall 2001, consisted of four semi-annual groundwater quality sampling events followed by preparation and submittal of reports summarizing the groundwater monitoring results and, as appropriate, proposal of modifications to the monitoring program. The fourth baseline monitoring report for GMA 1, entitled *Plant Site 1 Groundwater Management Area Baseline Groundwater Quality Interim Report for Spring 2003* (Spring 2003 GMA 1 Groundwater Quality Report), was submitted to EPA on July 30, 2003. Section 6.1.3 of Attachment H to the SOW provides that if the

two-year "baseline" period ends prior to the completion of soil-related response actions at all the RAAs in a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 1 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions. The Spring 2003 GMA 1 Groundwater Quality Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 1 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the GMA 1 RAAs are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Spring 2003 GMA 1 Groundwater Quality Report by letter dated September 23, 2003. Under the approved interim monitoring program, annual water quality sampling (alternating between the spring and fall seasons) at selected GMA 1 wells began in spring 2004, following a limited sampling event in fall 2003 involving the collection of groundwater samples from six wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program. The monitoring wells included in the interim monitoring program are shown on Figure 2.

As part of the interim groundwater quality monitoring program, GE is required to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. The results of the most recent full round of interim groundwater sampling activities performed at this GMA in spring 2008 were provided in GE's July 2008 *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Spring 2008* (Spring 2008 GMA 1 Groundwater Quality Report), which was conditionally approved by EPA in a letter dated November 25, 2008. That report also contained an evaluation of existing groundwater quality data at GMA 1 against applicable MCP Method 1 GW-2 and GW-3 groundwater standards and MCP UCLs for groundwater that were revised on February 14, 2008. As a result of those evaluations, GE proposed to discontinue interim PCB analyses at nine wells based on their compliance with the revised Method 1 GW-3 standard. In addition, to demonstrate compliance with the new Method 1 GW-2 standard for PCBs, GE proposed to conduct four rounds of semi-annual sampling and PCB analyses at 14 GW-2 monitoring wells that were initially analyzed only for VOCs under the baseline monitoring program. These modifications were conditionally approved by EPA in its November 25, 2008 letter to GE, which also required GE to demonstrate compliance with the new Method 1 GW-2 standard for PCBs at certain other GW-2 monitoring points. It should be noted that MDEP has informed EPA that the use of filtered samples is appropriate to assess compliance with the Method 1 GW-2 standard for PCBs. Therefore, with the concurrence of EPA, GE has utilized filtered PCB samples for such comparisons.

GE initiated semi-annual PCB sampling and analysis at the required GW-2 monitoring wells in fall 2008. In addition, in accordance with Condition 2 of EPA's October 10, 2007 conditional approval letter, GE continued its semi-annual sampling and analysis of groundwater samples from two monitoring wells at Newell Street Area II (wells GMA1-25 and GMA1-27). The results of the third round of that sampling have been incorporated into this report. Following completion of four sampling rounds, the analytical data will be evaluated to determine whether further sampling and analysis is appropriate at those monitoring wells.

The results of the interim groundwater sampling activities conducted in fall 2008 are provided in this *Plant Site 1 Groundwater Management Area Groundwater Quality Monitoring Interim Report for Fall 2008* (Fall 2008 GMA 1 Groundwater Quality Report). As requested by EPA in a March 29, 2007 letter conditionally approving a prior groundwater report, this report also contains groundwater elevation data collected at GMA 1 during the fall semi-annual monitoring event performed in October 2008 (both in data tables and plotted in groundwater elevation contour maps). GE will continue to present detailed discussions of GE's groundwater flow monitoring, including information on groundwater elevations, flow direction, and seasonal trends, as well as assessments of the presence and extent of NAPL at GMA 1 (including summaries of GE's NAPL recovery efforts), in the separate semi-annual reports submitted under GE's NAPL monitoring program. The most recent GMA 1 NAPL monitoring report (covering the spring 2008 monitoring period) was submitted to EPA in August 2008, and the NAPL monitoring report for the fall 2008 monitoring period will be submitted to EPA in February 2009.

1.2 Background Information

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

- RAA 1 - 40s Complex;
- RAA 2 - 30s Complex;
- RAA 3 - 20s Complex;
- RAA 4 - East Street Area 2-South;

- RAA 5 - East Street Area 2-North;
- RAA 6 - East Street Area 1-North;
- RAA 12 - Lyman Street Area;
- RAA 13 - Newell Street Area II;
- RAA 14 - Newell Street Area I;
- RAA 17 - Silver Lake Area; and
- RAA 18 - East Street Area 1-South.

GMA 1 contains a combination of GE-owned and non-GE-owned industrial areas, residential properties, and recreational areas, including land formerly owned by GE that has been, or will be, transferred to the Pittsfield Economic Development Authority (PEDA) pursuant to the Definitive Economic Development Agreement (DEDA). The Housatonic River flows through the southern portion of this GMA, while Silver Lake is located along the western boundary. Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Re-channelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and the United States Army Corps of Engineers (USACE) separated several of these oxbows and low-lying areas from the active course of the river. These oxbows and low-lying areas were subsequently filled with various materials from a variety of sources, resulting in the current surface elevations and topography.

Groundwater flow patterns at GMA 1 generally reflect the topography of the site with flow toward the Housatonic River, except where influenced by features such as Silver Lake, the recharge pond, or by recovery systems which are pumped to induce hydraulic depressions in their vicinity. Although variations occur in groundwater elevations at various wells or portions of GMA 1, overall groundwater flow patterns have remained relatively stable for years. As shown on Figure 3, Groundwater flow conditions observed during fall 2008 display the typical patterns observed at GMA 1.

As required in EPA's November 25, 2008 conditional approval letter, GE has updated a figure originally presented in the September 2000 *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* which illustrates areas within GMA 1, where the average depth to groundwater is 15 feet or less below ground surface, utilizing groundwater elevation data collected from wells that are screened at or above the water

table since 2000. The shallow groundwater areas identified at GMA 1 based on these recent data are illustrated on Figure 4 and a discussion of any variations from the original shallow groundwater mapping, including the need to perform additional evaluations near occupied structures located above the shallow groundwater areas is presented in Section 5.3.

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

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

Since the spring 2004 groundwater sampling event, GE has presented the results of each sampling event in interim and supplemental groundwater quality monitoring reports and, based on those results, has proposed and, following EPA approval, implemented modifications to the interim program. A number of program modifications were made in spring 2006, following revisions to the MCP Method 1 groundwater standards that took effect on April 3, 2006. On February 14, 2008, additional revisions to the MCP Method 1 groundwater standards took effect, and, as required by Condition 4 of EPA's April 8, 2008 conditional approval letter, the Spring 2008 GMA 1 Groundwater Quality Report discussed the revised standards, evaluated their implications on the interim groundwater quality monitoring program, and proposed further modifications to that program in response to those new standards.

A separate non-GE-related disposal site, as designated under the MCP, is located on an adjacent property near the northern edge of the Lyman Street Area. This disposal site is the O'Connell Mobil Station site (MDEP Site No. 1-13347) (also referred to as the "East Street Mobil Site") at 730 East Street. GE understands this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21E and the MCP. Available documentation indicates that soluble-phase contaminants related to gasoline releases from the East Street Mobil Site may have migrated onto GMA 1. GE is required to include available monitoring results from response actions performed at this adjacent site in the groundwater monitoring reports for GMA 1, to the extent that information is available to GE. To fulfill this requirement, GE conducted a file search at MDEP in January 2009 to review any reports that have been submitted regarding this site since submittal of the Spring 2008 GMA 1 Groundwater Quality Report. The results of that file search, including a listing of the reports that were reviewed, is provided in Section 3.3.

1.3 Format to Document

The remainder of this report is presented in four sections. Section 2 describes the groundwater quality-related activities performed at GMA 1 in fall 2008. Section 3 presents the analytical results obtained during the fall 2008 sampling event performed from October to December 2008. 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. Finally, Section 5 presents GE's discussion of the need for additional modifications to the GMA 1 interim groundwater quality monitoring program, proposes certain modifications to that interim groundwater monitoring program, and summarizes the schedule for future field and reporting activities related to groundwater quality at GMA 1.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the interim groundwater monitoring program during fall 2008, and summarized herein, primarily involved the redevelopment of monitoring wells, monitoring well repair and replacement, measurement of groundwater levels, and collection and analysis of groundwater samples at select monitoring wells within GMA 1, as described in Table 1. Newly installed monitoring well construction details are found in Appendix F. The construction details of the wells that were sampled are provided in Table 2 and the spring 2008 field sampling data are presented in Appendix A. This section discusses the field procedures used to measure site groundwater levels and collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were performed in general accordance with GE's approved Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP).

2.2 Monitoring Well Inspections and Repairs

In spring 2008, monitoring well inventories were conducted at all wells sampled during the interim sampling event and at several wells that were monitored only for groundwater elevation and/or the presence of NAPL. A total of 128 wells were evaluated and, where necessary, flagged for additional well integrity evaluations to determine the need for repair or replacement, and an extensive well maintenance operation was initiated in fall 2008. This task included but was not limited to: reinstallation of manholes, protective covers, and flush mounted pads; replacement of missing bolts, washers, well cover gaskets; replacement of broken J-plug/well caps; and the adjustment/re-surveying of measuring point elevation marks. The well inventory results are summarized in Appendix A.

As specifically requested by the EPA prior to the fall 2008 sampling event (and documented in its November 25, 2008 letter to GE), monitoring wells ESA1N-52 and ES2-2A were checked for integrity and maintenance issues on September 24 and 26, 2008, respectively. The PVC well casing in well ESA1N-52 was found to be intact and the only specific maintenance need identified for the well was a new J-plug well cap and manhole cover, as the well's current cover is a non-bolting version. Prior to the spring 2009 monitoring event a new bolted cover for the manhole will be installed to prevent the possibility of future road run-off into the well vault. In addition, EPA requested the ESA1N-52 be re-developed due to a build-up of sediment resulting in depth to bottom discrepancies from year to year. That monitoring well re-development is discussed further in Section 2.3 below.

Monitoring well ES2-2A was evaluated for integrity and was determined to be acceptable. A new J-plug, cover seal, and bolts were installed to prevent the possibility of flooding within the well's vault during significant rain events. Although the well vault was flooded upon inspection, no signs of drainage into the well itself were evident upon the evacuation of vault water.

2.3 Monitoring Well Re-Development

Prior to the fall 2008 sampling round, each GW-2 monitoring well scheduled for PCB analysis was re-developed since those wells had generally not been sampled since the final full baseline sampling event in 2003. Additional monitoring wells within GMA 1 were also re-developed in GMA-1 based on observations of excessive sedimentation during the well inventories, or, for wells ESA1N-52 and ES2-2A, as required by EPA in its November 25, 2008 conditional approval letter.

For most wells, re-development consisted of groundwater removal by a positive displacement, peristaltic, and/or submersible pump (depending on well diameter and rate of recharge) until temperature/pH/conductivity field parameters stabilized and the purged groundwater was relatively free of sediment (i.e., less than 50 NTU). At well ESA1N-52, an additional development technique (air sparging) was attempted but GE was unable to remove coarser deposits in the well, which may include asphalt fragments. The rate of recharge at well ESA1N-52 was low and further hindered the development process. As discussed in Section 5.2, GE believes that a sufficient portion of the screen zone in this well has been cleared to allow groundwater elevation and LNAPL monitoring, but additional groundwater sample collection at this well is not recommended. As also discussed in the Spring 2008 GMA 1 Groundwater Quality Report and in Section 5.2 of this report, further sampling in this well is not necessary.

2.4 Monitoring Well Installation and Development

During the GW-2 monitoring well re-development activities performed prior to the fall 2008 sampling event, well A7 was found to be paved over with concrete. As a result of these findings, GE installed replacement well A7-R at the location shown on Figure 2. Table 2 shows the survey data and well construction detail for this well, along with the other existing wells utilized in the GMA 1 monitoring program. The monitoring well construction log can be found in Appendix F.

Following installation, the replacement well was developed to remove fine materials (e.g., fine sand, silt, and/or clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation.

Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with a submersible pump and a positive displacement pump. Development of this well was continued until temperature/ pH/conductivity field parameters stabilized and the purged groundwater was relatively free of sediment (i.e., less than 50 NTU).

2.5 Groundwater Elevation Monitoring

GE conducted the fall 2008 semi-annual groundwater elevation monitoring round at GMA 1 from October 27 through October 30, 2008. This activity involved the collection of groundwater elevation data at the locations listed in Table 3. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. Groundwater elevations were, on average, approximately 1.08 feet higher than the elevations measured during the previous fall 2007 monitoring event. The groundwater elevation data presented in Table 3 from wells screened across or near the water table were used to prepare a groundwater elevation contour map for fall 2008 (Figure 3). Consistent with prior data, groundwater was found to generally flow toward the Housatonic River.

As required by EPA, GE also recorded Housatonic River flow data collected at the USGS gauging station in Coltsville, Massachusetts during the groundwater elevation monitoring and sampling events. The river flow data ranged from 30 to 552 cubic feet per second (cfs) during this period. In addition, GE monitored river elevations at the measuring points established at the Lyman Street and Newell Street bridges during each day of sampling to further assess potential changes in river conditions during the sampling event. No atypical river elevation readings were observed during the sampling event. The Housatonic River flow data and elevation readings are included in Appendix A.

2.6 Groundwater Sampling and Analysis

The fall 2008 groundwater sampling event was performed between October 15 and December 11, 2008, with the exception of monitoring well GMA1-4, which could not be sampled due to insufficient water levels within the well. Groundwater samples were collected from the remaining sixteen groundwater monitoring wells scheduled for interim sampling. These samples were collected by the low-flow techniques specified in the FSP/QAPP, using either a bladder or peristaltic pump for the purging and collection of groundwater samples. The sampling methods utilized at each well are specified in Appendix A. Each monitoring well was purged utilizing low-flow techniques until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized prior to sample collection. Field parameters were

measured in combination with the sampling activities at the monitoring wells. The stabilized field parameter measurements are presented below and the field sampling data are provided in Appendix A.

Parameter	Units	Range of Stabilized Readings
Turbidity	Nephelometric turbidity units (NTU)	1 to 215
pH	pH units	6.63 to 11.31
Specific Conductivity	Millisiemens per centimeter	0.841 to 6.069
Oxidation-Reduction Potential	Millivolts	-227.3 to 95.3
Dissolved Oxygen	Milligrams per liter	0.14 to 15.32
Temperature	Degrees Celsius	8.07 to 20.29

As shown above and in Table 4, one of the groundwater samples extracted from the monitoring wells in this sampling event had turbidity levels greater than the target level of 50 NTU upon stabilization. This well (17A) contained limited quantities of groundwater and was pumped dry prior to sampling and the elevated turbidity readings are attributed to a greater proportion of sediment mixing at the base of the wells. A similar situation occurred at well ES2-19, where no turbidity was recorded in Table 4. That well was purged dry before any turbidity readings could be collected. The well was sampled following recharge and a spot check of turbidity of the initial purge water did not produce a recordable value on the meter.

All of the wells displayed “normal” pH readings (i.e., between 6.63 and 7.71 pH units in fall 2008) with the exception of newly-installed replacement well A7-R, where a pH reading of 11.36 pH units was recorded during sampling. This elevated pH reading, which was confirmed by recalibrating the pH meter and with pH paper (see Appendix A), may be related to the presence of a boulder or rock layer that was encountered at the base of the well during installation in November 2008 or could be attributed to grout from the newly-installed well descending into the saturated zone during construction or development. Since the well was sampled just after the minimum required recovery time after installation and development, the groundwater pH may have been temporarily elevated, but it is anticipated that the pH will return to more typical levels with increased groundwater flow through the well over time. GE will carefully monitor the pH during the next scheduled sampling event at this location.

The collected groundwater samples were submitted to SGS Environmental Services, Inc. of Wilmington, North Carolina (SGS) for laboratory analysis. For the two groundwater samples that were monitored for compliance with GW-3 standards (i.e., Newell Street Area II wells GMA1-25 and GMA1-27), the samples were submitted for analysis of the following constituents using the associated EPA methods:

Constituent	EPA Method
VOCs	8260B
SVOCs	8270C
PCBs (Filtered Samples)	8082

The remaining groundwater samples were collected to assess compliance with the Method 1 GW-2 standard for PCBs which went into effect on February 14, 2008, and were submitted for analysis of PCBs using EPA Method 8082**.** As discussed in Section 1.1, MDEP has informed EPA that the use of filtered samples is appropriate to assess compliance with the Method 1 GW-2 standard for PCBs and all of the PCB samples collected in fall 2008 were filtered prior to analysis.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the Massachusetts Contingency Plan (MCP) Method 1 GW-2 and GW-3 standards (where applicable), 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.

The data were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. As discussed in the validation report provided as Appendix D, 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 and PCB sample results were found to be 100% usable. VOC sample results were found to be 99.6% usable. The only rejected data was one VOC sample result where the 2-cloroethylvinylether data was rejected due to MS/MSD recovery deviations. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

3. Fall 2008 Groundwater Analytical Results

3.1 General

A description of the fall 2008 groundwater analytical results is presented in this section. The complete analytical data sets are summarized in Appendix B. Tables 5 and 6 provide a comparison of the concentrations of all detected constituents with the currently applicable groundwater quality Performance Standards established in the CD and SOW, while Table 7 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.2 Groundwater Sample Results

The following paragraphs provide an overview of the fall 2008 analytical results from the GMA 1 groundwater quality monitoring wells for each constituent group that was analyzed.

3.2.1 VOC Results

Two groundwater samples were analyzed for VOCs during the fall 2008 sampling event. The VOC analytical results are summarized in Table 7 and Table B-1 of Appendix B. Only one VOC (methylene chloride) was detected at wells GMA1-25 and GMA1-27. All detected concentrations were at estimated levels below the Practical Quantitation Limit (PQL) and well below the applicable Method 1 and GW-2 and GW-3 standards.

3.2.2 SVOC Results

Groundwater samples collected from two monitoring wells (wells GMA1-25 and GMA1-27) were analyzed for SVOCs during the fall 2008 sampling event. No SVOCs were detected at either sampling location, with the exception of a trace concentration of bis(2-ethylhexl)phthalate (a common laboratory contaminant) at well GMA1-25. No bis(2-ethylhexl)phthalate was detected in a duplicate sample analyzed from that well. The SVOC analytical results are summarized in Table 7 and Table B-1 of Appendix B.

3.2.3 PCB Results

Filtered groundwater samples from sixteen monitoring wells were analyzed for PCBs as part of the fall 2008 sampling event. The PCB analytical results are summarized in Table 7 and Table B-1 of Appendix B. No PCBs were detected in any of the groundwater samples analyzed during this sampling event.

3.3 Adjacent MCP Disposal Site Monitoring Results

As mentioned above in Section 1.2, the O'Connell East Street Mobil Station site (MDEP Site No. 1-13347, also referred to as the "East Street Mobil Site") is located on adjacent property near the northern edge of the Lyman Street Area. GE understands that this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21-E and the MCP. Available documentation indicates that soluble-phase contaminants related to gasoline releases from the East Street Mobil Site have been documented upgradient of GMA 1.

GE is required to include available monitoring results from response actions performed at this adjacent site in the groundwater monitoring reports for GMA 1, to the extent that information is available to GE. To fulfill this requirement, GE conducted a file search at MDEP on January 7, 2009 to review any reports that have been placed on file at MDEP regarding this site since the prior file search was conducted and reported in the Spring 2008 GMA 1 Groundwater Quality Report. One document pertaining to groundwater investigations and response actions at the East Street Mobil Site has been added to the MDEP files since the spring 2008 file search:

- Remedy Operation Status Report (ECS, September, 26 2008)

A site map and pertinent monitoring results from the most recent report reviewed for the East Street Mobil Site (i.e., the September 2008 Remedy Operation Status Report) are provided in Appendix E. That report describes the effectiveness of the oxygen sparging system activated at the site on September 11, 2006 and the results of the most recent groundwater sampling event conducted on May 1, 2008. The oxygen sparging monitoring data (September 11, 2006 through September 9, 2008) are provided in Appendix E and indicated an increase in dissolved oxygen in wells downgradient of the source area.

Based on the general trend of decreasing concentrations of dissolved phase gasoline constituents to levels below the applicable GW-2 and GW-3 groundwater standards, the oxygen sparging system was shut down on February 11, 2008 to evaluate if remediation goals were met and groundwater conditions remained stable. Groundwater sampling was conducted in March 2008 to evaluate the groundwater response to the oxygen sparging system shutdown. The results of the March 2008 monitoring showed that although the concentrations of certain constituents slightly increased at specific wells compared to the October 2007 sampling round, those concentrations were still well below the applicable GW-2 and GW-3 standards.

The groundwater samples collected May 1, 2008 were evaluated for MNA and VPH carbon fractions constituents. When compared to the March 2008 and October 2007 results, some samples from the May 2008 on-site sampling event showed a continuing increase in petroleum constituents above the GW-2 and GW-3 standards. This increase resulted in the reactivation of the air sparging system. Monitoring and sampling results from this event can be found in Appendix E.

GMA 1 monitoring wells MW-4R and LSSC-16S are GW-2 monitoring points located downgradient from the East Street Mobil Site that were sampled during the spring 2008 sampling event and analyzed for VOCs (see Spring 2008 GMA 1 Groundwater Quality Report), including BTEX (benzene, toluene, ethylbenzene, and xylene). No BTEX constituents were detected in well LSSC-16S during the spring 2008 sampling event. Benzene was the only BTEX constituent detected in well MW-4R, at a concentration (0.0042 ppm) well below the MCP GW-2 Standard of 2 ppm for benzene. The downgradient wells MW-3R and LSSC-16S were analyzed for PCB during the fall 2008 sampling event, and evaluated for PCBs (See Appendix B).

Based on these results, it appears that the prior groundwater quality exceedances attributed to the East Street Mobil Site were confined to that site and appear to have been addressed by the remedial actions performed at that site, including the operation of a groundwater remediation system. According to the September 2008 Remedy Operation Status Report, the reactivated air sparging system was to remain in operation through the November 2008 groundwater event at the East Street Mobil Site, at which time it's effectiveness was to be re-evaluated. The results of that re-evaluation have not yet been filed with MDEP. As such, no additional actions beyond a continuation of the ongoing groundwater quality program at GMA 1 appear to be warranted to assess potential impacts to GMA 1 related to the East Street Mobil Site. GE will continue to review and assess the results from the East Street Mobil Site and downgradient areas within GMA 1 and will provide updates in future groundwater quality monitoring reports.

4. Overall Assessment of Groundwater Results

4.1 General

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

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, 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 be ultimately discharged to surface water. It should be noted that some groundwater within GMA 1 does not in fact discharge directly to surface water because of the operation of numerous groundwater pumping systems. Water extracted from these systems is transferred to an on-site treatment plant for processing prior to discharge. Nevertheless, in accordance with the CD and SOW, all groundwater at GMA 1 is considered as GW-3.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical “Method 1” standards set forth in the MCP for both GW-2 and GW-3 groundwater (310 CMR 40.0974). These “default” standards have been developed to be conservative

and will serve as the initial basis for evaluating groundwater at GMA 1. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the fall 2008 sampling event are listed in Tables 5 and 6, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

On February 14, 2008 MDEP implemented revised Method 1 numerical standards for a number of constituents in groundwater, and those standards were used 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, including GMA 1 (although no samples were analyzed for those parameters in fall 2008).

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 1 consist of the following:

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

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

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

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

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

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

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

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been designated as the compliance points for attainment of the Performance Standards identified above. These wells were initially identified in the GMA 1 Baseline Monitoring Proposal (although certain modifications were made subsequent to submittal of that proposal as a result of EPA approval conditions, findings during field reconnaissance of the selected wells, or replacement of certain wells during the course of the baseline monitoring program). As described above in Section 2.6, only selected wells were sampled in fall 2008.

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 1. These Performance Standards are described in Section 4.2 above, and are currently based (on a well-specific basis) on

the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the 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 5 and 6 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 7 presents a comparison of the concentrations of detected constituents with the groundwater UCLs.

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

As part of the fall 2008 program, groundwater samples were collected from sixteen wells designated as GW-2 monitoring locations that were scheduled to be sampled for PCBs (i.e., specifically wells ES2-19, GMA1-3, 17A, 95-20, A7-R, ES1-10, ES1-18, F-1, 95-25, LSSC-16S, MW-3R, MM-1,GMA1-25, GMA1-27, 37R, and 31R). Two of these wells (i.e., wells GMA1-25 and GMA1-27) are designated as GW-2/GW-3 wells and were also sampled for VOCs and SVOCs. As discussed in Section 2.6, well GMA1-4, an additional GW-2 monitoring well that was scheduled for sampling and analysis for PCBs, was unable to be sampled in fall 2008. Two additional wells listed in condition number 5 of EPA's November 25, 2008 conditional approval letter (which identified wells where GE is required to demonstrate compliance with the new GW-2 standard for PCBs) were not sampled in fall 2008, as those wells (i.e., wells 72R and GMA1-6) already have at least four rounds of PCB sampling, and the results are below the new GW-2 standards.

The fall 2008 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 Standards are presented in Table 5. As shown in Table 5, none of the fall 2008 sample concentrations from the two GW-2 monitoring wells sampled and analyzed for VOCs was above the corresponding GW-2 Performance Standard and neither well exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells located within 30 feet of a school or occupied residential structure and as a trigger level for the proposal of interim response actions). These results are consistent with the available results from prior sampling events. No PCBs were detected in any of the GW-2 monitoring wells sampled in fall 2008.

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

Groundwater samples designated for GW-3 monitoring were collected from two monitoring wells (GMA1-25 and GMA1-27) during the fall 2008 interim sampling event. The fall 2008 groundwater analytical results for all constituents detected in these monitoring wells and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 6. Both wells are identified in Table 1 as upgradient GW-3 perimeter wells.

The comparisons set forth in Table 6 show that no constituents were found at levels above their respective MCP Method 1 GW-3 standards in groundwater samples collected in fall 2008.

4.3.3 Fall 2008 Comparison to Upper Concentration Limits

In addition to comparing the fall 2008 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, the analytical results from all 16 wells that were sampled were compared with the UCLs for groundwater specified in the MCP (310 CMR 40.0996(7)). As shown in Table 7, none of the groundwater samples collected in fall 2008 contained constituent concentrations greater than any of the listed UCLs for groundwater.

4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered PCB concentrations for select wells sampled in fall 2008 that have been previously sampled and analyzed for those constituents are presented in Appendix C. Typically, Appendix C would also contain graphs of historical concentrations of individual constituents that exceeded the applicable MCP Method 1 GW-2 or GW-3 standards or UCLs during any of the prior baseline monitoring program sampling events at GMA 1. However, since no exceedances of the MCP Method 1 GW-2 or GW-3 standards have been documented at the two Newell Street Area II monitoring wells, no graphs have been prepared for individual VOCs or SVOCs at those locations based on comparisons to MCP criteria. The remaining wells were analyzed only for PCBs in fall 2008, and, therefore, since this sampling event represents the first of four rounds of PCB sampling and analysis at those wells, no additional graphs were prepared.

A review of the graphs contained in Appendix C, as well as historical data, indicates that constituent concentrations have been mostly at non-detectable or trace levels during the three monitoring rounds that have been performed at the two Newell Street Area II wells. At well GMA1-25, a single VOC was detected at a level below the PQL during each sampling round (i.e., acetone in fall 2007, toluene in spring 2008, and methylene chloride in fall

2008), while no VOCs were detected at well GMA1-27 until the trace detection of methylene chloride in fall 2008. No PCBs have been detected in either well during any of the three monitoring events conducted.

5. Proposed Monitoring Program Modifications and Schedule of Future Activities

5.1 General

In spring 2004, GE initiated the interim groundwater quality monitoring program to be conducted until completion of the soil-related Removal Actions at the RAAs that comprise GMA 1. The interim monitoring program is designed to obtain additional data from locations where it is not yet clear whether the initial baseline groundwater quality results indicate that the well may require future monitoring in a long-term monitoring program.

GE has reviewed the results of its groundwater-related activities conducted at GMA 1 in fall 2008, including the groundwater analytical data from the fall 2008 interim sampling event for results that indicate the need to modify the interim monitoring program. The results of that evaluation and resulting proposed program modifications are discussed in Section 5.2 below. This section also summarizes the schedule for upcoming interim monitoring events and associated reporting activities.

5.2 Assessment of Selected Monitoring Wells

In its November 25, 2008 conditional approval letter, EPA directed GE to re-develop wells ESA1N-52 and ES2-2A and to perform additional inspections and repairs to the wells to inhibit surficial inflow to the wells. Those activities were performed, as discussed in Section 2.3, and the results are discussed below.

GE was able to successfully develop and repair well ES2-2A and that well can be utilized for future monitoring and sampling activities. The next scheduled sampling round at this well will be conducted in fall 2009, when samples will be collected for VOC analysis under the annual interim groundwater quality monitoring program.

At well ESA1N-52, GE utilized multiple development techniques, but was unable to clear the obstruction in the well, which is believed to be an asphalt fragment. A review of historical groundwater monitoring data shows that the measured depth to bottom of the well began to decrease in early 2004 and by spring 2008 the well was approximately 10 feet shallower than the depths recorded in 2003 and earlier. GE was able to remove approximately two feet of sediment from the well during the fall 2008 development activities, but significant accumulations still remain in the well. Although the well was not completely cleared, a sufficient portion of the well screen is available to permit water level and LNAPL monitoring to continue at this location.

This well was previously included in the interim monitoring program for annual PCB analyses. However, in the Spring 2008 GMA 1 Groundwater Quality Report, GE proposed to discontinue PCB monitoring at this location since the historical PCB results were well below the revised MCP Method 1 standards for PCBs. In response, EPA stated in its November 25, 2008 conditional approval letter that groundwater quality data from this well since 2003 may be questionable due to the accumulation of sediment, and EPA required GE to further evaluate the existing data to determine if additional monitoring is required. GE has reviewed the historical data from this well and found that four rounds of baseline sampling were completed at well ESA1N-52 by spring 2003, well before the deposition began to occur in the well. Therefore, data sufficient to characterize this location were collected at times before there could have been a question concerning any possible effects of sediment deposition in the well. PCBs were detected in the well during two of four baseline sampling events and the maximum filtered PCB concentration observed during the baseline period was 0.00079 ppm in fall 2002, which is well below both the current Method 1 GW-2 (0.005 ppm) and GW-3 (0.01 ppm) standards. Since spring 2003, the well was sampled for PCBs on four occasions. PCBs were detected during two of those interim sampling rounds with a maximum detected concentration of 0.000087 ppm, which is also well below the applicable Performance Standards. Therefore, it does not appear that additional PCB characterization is necessary at well ESA1N-52, regardless of whether the post-2003 results are utilized. For non-PCB constituents, all data from this well were collected during the baseline monitoring rounds performed before accumulation of sediment. Thus, GE's prior conclusion that no further sampling is needed at the well remains valid.

5.3 Overview of Shallow Groundwater Areas at GMA 1

Condition 6 of EPA's November 25, 2008 conditional approval letter required GE to update a figure originally presented in the September 2000 GMA 1 Baseline Monitoring Proposal which illustrated areas within GMA 2 where the average depth to groundwater is within 15 feet of the ground surface, utilizing groundwater elevation data collected between 2000 and 2008. The updated areas with groundwater at an average depth of less than 15 feet, which are illustrated on Figure 4, are very similar to the areas identified during preparation of the baseline monitoring proposal. Relatively minor variations between the figures occur in East Street Area 2-North, where a reduced shallow groundwater area is present in the western portion (based on data collected from well GMA1-4, which were not available at the time the previous figure was prepared) and a greater percentage of the eastern portion of that RAA contains shallow groundwater (based on data from well ES1-27R collected during the baseline monitoring period). No occupied buildings were identified above the revised shallow groundwater areas that were not similarly illustrated in the prior mapping, which was utilized to determine the GW-2 characterization needs for GMA 1. Therefore, no

additional GW-2 groundwater quality monitoring is proposed based on this updated assessment.

5.4 Proposed Modifications to Interim Monitoring Program

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

Most recently, following revisions to the MCP that became effective on February 14, 2008, GE re-evaluated the existing groundwater quality data at GMA 1 and identified several locations that should be added to or removed from the interim monitoring program and, in the Spring 2008 GMA 1 Groundwater Quality Report, GE proposed several modifications to the interim monitoring program, particularly in response to the modification of the Method 1 GW-3 standard for PCBs (from 0.0003 ppm to 0.01 ppm) and the promulgation of a new Method 1 GW-2 standard for PCBs. The modifications to the annual interim sampling program discussed proposed in that report, as conditionally approved by EPA, will be implemented during the next annual interim sampling event in fall 2009, and GE does not propose any changes to those activities at this time. The semi-annual analysis for PCBs at selected GW-2 monitoring wells was initiated in fall 2008 and was the primary sampling activity conducted during the fall 2008 monitoring period, along with collection of the third round of analytical data at Newell Street Area II wells GMA-25 and GMA1-27. Since the fall 2008 sampling event was only the first of four required PCB characterization rounds at the GW-2 wells, only minimal changes to the program are proposed at this time. Specifically, GE proposes to:

- Continue to utilize well A7-R as a replacement for well A7, which was found to be destroyed. Since elevated pH readings were recorded during the initial sampling event at this well, GE will pay particular attention to the pH data during the spring 2009 sampling event and will discuss the results in the next monitoring report.

- Remove well GMA1-4 from the GW-2/PCB assessment sampling program, since the average annual depth to water at this well is deeper than the 15 foot criteria for GW-2 groundwater. The GW-2 designation was previously removed from this well, with EPA approval, following a proposal by GE to discontinue VOC sampling at this well in spring 2003. However, GE will continue to measure water levels at this well as part of the remaining semi-annual PCB sampling events and will collect groundwater samples for PCB analysis if a depth to water of 15 feet or less is observed and there is an adequate quantity of water in the well to collect the required sample volume.

- Continue to utilize well ESA1N-52 for groundwater elevation and NAPL monitoring purposes only. As discussed in Section 5.2 above, no additional sampling is proposed at this location.

A summary of the interim sampling program for GMA 1 in spring 2009, as proposed to be modified herein, is provided in Table 8, and the locations where sampling is to be conducted, as proposed to be modified herein, are illustrated on Figure 4.

The wells proposed to be sampled and analyzed for PCBs for comparison to the new GW-2 standard are proposed to be sampled on a semi-annual basis until four sets of PCB data have been collected. At that time, GE will evaluate the data and propose whether to add any of the wells to the ongoing interim or long-term monitoring program at GMA 1. As approved by EPA, based on discussions with MDEP, GE will continue to analyze filtered groundwater samples for comparison with the GW-2 standard.

Additional details on the sampling and reporting schedule at GMA 1 are provided below.

5.5 Field Activities Schedule

GE will conduct the spring 2009 interim groundwater sampling event at GMA 1 in April 2009, in conjunction with groundwater sampling activities that will be performed at the other GMAs. Pursuant to EPA's October 10, 2007 conditional approval letter, the spring 2009 interim sampling event will include the fourth of four required semi-annual sampling and analysis (for VOCs, SVOCs, and filtered PCBs) rounds at wells GMA1-25 and GMA1-27. That sampling event will also include the second of four required semi-annual sampling and analysis rounds for PCBs (filtered samples) at the GW-2 monitoring locations where

compliance with the new MCP Method 1 GW-2 standard for PCBs was not verified during the initial baseline monitoring program (see Table 8).

Consistent with the schedule as approved by EPA, the interim sampling events alternate between spring and fall schedules until a long-term groundwater quality monitoring program is implemented at GMA 1. Therefore, the next full interim sampling event will not be conducted until fall 2009. The group of GW-2 wells scheduled for semi-annual sampling and PCB analysis discussed above will also be sampled in fall 2009.

The spring 2009 semi-annual groundwater elevation and NAPL monitoring event will also be conducted in April 2009 at all wells included in the GMA 1 NAPL monitoring program. Results from that monitoring event will be incorporated into the next groundwater quality monitoring report for GMA 1.

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

5.6 Reporting Schedule

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

GE will submit the Spring 2009 Interim Groundwater Quality Report for GMA 1 by July 31, 2009, in accordance with the reporting schedule approved by EPA. That report will present the final, validated spring 2009 interim sampling results and a brief discussion of the results, including an assessment of the four rounds of sampling results from Newell Street Area II wells GMA1-25 and GMA1-27 and the need for any additional groundwater characterization activities at those locations, and any proposals to further modify the interim monitoring program, if necessary. GE will also include an updated summary of available groundwater monitoring results and analytical data collected at the adjacent East Street Mobil Site, to the extent that such information is available to GE.

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

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Tables

Table 1
Fall 2008 Interim Groundwater Quality Monitoring Wells

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Fall 2008 Analyses [3]	Comments
RAA 1 - 40s COMPLEX				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				
RAA 2 - 30s COMPLEX				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				
RAA 3 - 20s COMPLEX				
ES2-19	GW-2 Sentinel	Semi-annual [1]	PCB	
GMA1-3	GW-2 sentinel	Semi-annual [1]	PCB	
RAA 4 - EAST STREET AREA 2-SOUTH				
95-25	GW-2 sentinel	Semi-annual [1]	PCB	
95-20	GW-2 sentinel	Semi-annual [1]	PCB	
RAA 5 - EAST STREET AREA 2-NORTH				
17A	GW-2 sentinel	Semi-annual [1]	PCB	
95-20	GW-2 sentinel	Semi-annual [1]	PCB	
A7-R	GW-2 sentinel	Semi-annual [1]	PCB	
ES1-10	GW-2 sentinel	Semi-annual [1]	PCB	
ES1-18	GW-2 sentinel	Semi-annual [1]	PCB	
F-1	GW-2 sentinel	Semi-annual [1]	PCB	
GMA1-4	GW-2 sentinel	Semi-annual [1]	PCB	Insuffient groundwater available to collect sample in fall 2008
RAA 6 - EAST STREET AREA 1-NORTH				
No interim groundwater quality monitoring scheduled to be performed in this RAA.				
RAA 12 - LYMAN STREET AREA				
LS-MW-3R	GW-2 sentinel	Semi-annual [1]	PCB	
LSSC-16S	GW-2 Sentinel	Semi-annual [1]	PCB	

Table 1
Fall 2008 Interim Groundwater Quality Monitoring Wells

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Fall 2008 Analyses [3]	Comments
RAA 13 - NEWELL STREET AREA II				
GMA1-25	GW-2 Sentinel/ GW-3 Perimeter (Upgradient)	Semi-annual [2]	VOC/SVOC/PCB	
GMA1-27	GW-2 Sentinel/ GW-3 Perimeter (Upgradient)	Semi-annual [2]	VOC/SVOC/PCB	
RAA 14 - NEWELL STREET AREA I				
MM-1	GW-2 sentinel	Semi-annual [1]	PCB	
RAA 18 - EAST STREET AREA 1 SOUTH				
31R	GW-2 sentinel	Semi-annual [1]	PCB	
37R	GW-2 sentinel	Semi-annual [1]	PCB	

NOTES:

1. Several GW-2 Sentinel wells were added to the interim monitoring program in fall 2008 to assess compliance with the new MCP Method 1 GW-2 standard for PCBs. These wells are scheduled for four semi-annual rounds of groundwater quality sampling for PCBs, after which the needs for additional sampling during the interim period or as part of a long-term monitoring program will be assessed.

2. Wells GMA1-25 and GMA1-27 were added to the interim monitoring program in fall 2007 and are scheduled for four semi-annual rounds of groundwater quality sampling for the listed parameters, after which the needs for additional sampling during the interim period or as part of a long-term monitoring program will be assessed.

3. All analyses for PCBs conducted under the GMA 1 groundwater quality monitoring program are performed on filtered samples only.

Table 2
Monitoring Well Construction

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (feet AMSL)	Measuring Point Elevation (feet AMSL)	Depth to Top of Screen (feet BGS)	Screen Length (feet)	Top of Screen Elevation (feet AMSL)	Base of Screen Elevation (feet AMSL)
	Northing	Easting							
RAA 2 - 30s Complex									
ES2-19	534344.3200	131781.7900	0.75	1,007.6	1,007.22	11.5	8	996.1	988.1
GMA1-3	533679.9000	131685.4000	2	991.3	990.78	5.7	10	985.6	975.6
RAA 4 - East Street Area 2-South									
95-25	533090.3600	131385.7800	0.75	985.1	988.20	8	10	977.1	967.1
RAA 5 - East Street Area 2-North									
17A	535187.4500	132107.0500	2	1,024.2	1,023.86	5	15	1,019.2	1,004.2
95-20	534445.1600	133286.9800	0.75	1,010.8	1,010.67	10	10	1,000.8	990.8
A7-R			2			5.1	12		
ES1-10	534813.9000	134583.8000	0.75	1,024.0	1,023.99	7	10.5	1,017.0	1,006.5
ES1-18	535027.2200	133724.9700	0.75	1,049.8	1,049.71	4	10	1,045.8	1,035.8
F-1	534711.0000	134287.3000	2	1,024.0	1,023.84	4	15	1,020.0	1,005.0
GMA1-4	534702.1000	132178.3000	2	1,011.8	1,011.52	10.3	10	1,001.5	991.5
RAA 12 - Lyman Street Area									
LSSC-16S	532500.5000	130690.3000	2	981.5	981.37	5.0	10	976.5	966.5
LS-MW-3R	532589.5000	130460.6000	2	983.8	983.54	5.2	10	978.6	968.6
RAA 13 - Newell Street Area II									
GMA1-25	532475.2000	131882.3000	2	987.5	987.19	5	10	982.5	972.5
GMA1-27	532319.7000	131693.2000	2	981.3	983.29	4	10	977.3	967.3
RAA 18 - East Street Area 1-South									
31R	534143.9000	134059.5000	2	1,000.5	1,000.23	5.5	10	995.0	985.0
37R	533949.6000	133932.6000	2	989.0	988.79	7.77	10	981.3	971.3

NOTES:

1. The listed wells were scheduled to be utilized during fall 2008 for interim groundwater quality sampling.
2. feet AMSL: Feet above mean sea level
3. feet BGS: Feet below ground surface

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
40s Complex		
95-17	10/27/2008	983.71
30s Complex		
ES2-19	10/27/2008	994.06
GMA1-3	10/27/2008	983.92
GMA1-12	10/27/2008	977.78
RF-03	10/27/2008	977.81
RF-03D	10/27/2008	978.38
RF-16R	10/27/2008	978.38
20s Complex		
CC	10/27/2008	NA
EE	10/27/2008	979.74
GG	10/27/2008	981.55
II	10/27/2008	980.53
JJ	10/27/2008	979.81
LL-R	10/27/2008	981.05
P-R	10/27/2008	979.26
QQ-R	10/27/2008	979.47
U	10/27/2008	980.26
Y	10/27/2008	979.55
East Street Area 2-South		
01R	10/27/2008	980.59
2	10/27/2008	978.14
5	10/27/2008	981.69
6	10/27/2008	976.92
09R	10/27/2008	973.49
10	10/27/2008	NA
13	10/27/2008	973.02
14	10/27/2008	973.74
16R	10/27/2008	973.85
19	10/27/2008	972.86
25R	10/27/2008	977.41
26RR	10/27/2008	978.31
28	10/27/2008	975.23
29	10/27/2008	973.42
30	10/27/2008	977.43
31	10/27/2008	977.31
32	10/27/2008	979.03
34	10/27/2008	975.79
35	10/27/2008	973.86

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
36	10/27/2008	974.67
37	10/27/2008	974.72
38	10/27/2008	975.83
42	10/27/2008	976.25
43	10/27/2008	975.20
44	10/27/2008	976.17
47	10/27/2008	973.39
48	10/27/2008	976.72
49R	10/27/2008	973.58
49RR	10/27/2008	973.41
50	10/27/2008	975.09
51	10/27/2008	973.62
ESA2S-52	10/27/2008	973.28
53	10/27/2008	973.52
54	10/27/2008	973.05
55	10/27/2008	973.28
57	10/27/2008	977.62
58	10/27/2008	973.30
59	10/27/2008	972.28
ESA2S-64	10/27/2008	972.97
64R	10/28/2008	977.38
64S	10/28/2008	965.67
64V	10/28/2008	967.55
64X(N)	10/28/2008	972.53
64X(S)	10/28/2008	965.95
64X(W)	10/28/2008	966.23
95-1	10/28/2008	973.46
95-04R	10/27/2008	974.45
95-5	10/27/2008	973.80
95-07R	10/27/2008	974.65
E2SC-03I	10/30/2007	972.22
E2SC-21	10/27/2008	NA
E2SC-23	10/27/2008	974.47
E2SC-24	10/27/2008	973.40
3-6C-EB-14	10/28/2008	973.31
3-6C-EB-22	10/28/2008	973.35
3-6C-EB-25	10/28/2008	973.68
3-6C-EB-28	10/28/2008	973.48
ES2-01	10/30/2007	972.48
ES2-02A	10/27/2008	973.13
ES2-05	10/27/2008	973.80

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
ES2-06	10/30/2007	972.40
ES2-08	10/27/2008	973.47
ES2-10	10/27/2008	977.03
ES2-11	10/27/2008	973.87
ES2-16	10/27/2008	976.17
ES2-18	10/28/2008	971.34
GMA1-13	10/27/2008	973.50
GMA1-14	10/27/2008	978.39
GMA1-15	10/27/2008	973.34
GMA1-16	10/27/2008	973.62
GMA1-17W	10/27/2008	977.39
GMA1-17E	10/27/2008	977.39
GMA1-19	10/27/2008	973.26
GMA1-21	10/28/2008	973.35
GMA1-22	10/27/2008	973.48
GMA1-23	10/27/2008	973.26
GMA1-24	10/27/2008	973.12
HR-G1-MW-1	10/27/2008	972.94
HR-G1-MW-2	10/27/2008	973.08
HR-G2-MW-1	10/27/2008	972.95
HR-G2-MW-3	10/27/2008	973.25
HR-G2-RW-1	10/27/2008	973.25
HR-G3-MW-1	10/27/2008	976.64
HR-G3-MW-2	10/27/2008	981.96
HR-G3-RW-1	10/27/2008	971.86
HR-J1-MW-1	10/28/2008	973.17
HR-J1-MW-2	10/31/2008	973.70
HR-J1-MW-3	10/28/2008	973.37
HR-J1-RW-1	10/28/2008	973.05
M-R	10/27/2008	978.28
P3	10/27/2008	983.75
PZ-1S	10/27/2008	973.59
PZ-6S	10/27/2008	973.22
RW-1(S)	10/28/2008	969.35
RW-1(X)	10/28/2008	966.98
RW-2(X)	10/28/2008	972.95
RW-3(X)	10/28/2008	970.67
RW-4	10/28/2008	969.39
TMP-1	10/27/2008	973.21
SG-HR-1	10/29/2008	973.73

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
East Street Area 2-North		
05-N	10/31/2008	984.85
11-N	10/31/2008	981.92
14-N	10/31/2008	987.20
16-N	10/31/2008	980.80
17A	10/31/2008	1,017.75
17-N	10/31/2008	981.15
19-N	10/31/2008	981.99
20-N	10/31/2008	982.20
23-N	10/31/2008	981.72
24-N	10/31/2008	982.50
95-20	10/31/2008	996.89
ES1-05	10/29/2008	983.55
ES1-10	10/31/2008	1,019.24
ES1-18	10/31/2008	1,044.11
ES1-20	10/29/2008	987.22
ES1-27R	10/31/2008	1,016.57
F-1	10/31/2008	1,021.25
GMA1-4	10/31/2008	995.71
East Street Area 1-North		
25	10/28/2008	994.08
ESA1N-52	10/28/2008	996.36
60R	10/28/2008	992.95
105	10/28/2008	995.33
106	10/28/2008	995.97
107	10/28/2008	996.49
108A	10/28/2008	997.61
109A	10/28/2008	997.05
118	10/28/2008	995.00
128	10/28/2008	994.00
131	10/28/2008	996.77
140	10/28/2008	992.59
ES1-08	10/28/2008	994.70
North Caisson	10/28/2008	979.69
East Street Area 1-South		
31R	10/28/2008	991.24
ESA1S-33	10/28/2008	997.40
34	10/28/2008	994.95
35	10/28/2008	994.75
37R	10/28/2008	979.09
45	10/28/2008	993.75
46	10/28/2008	NA
72	10/28/2008	993.30

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
East Street Area 1-South (cont.)		
72R	10/28/2008	991.97
75	10/28/2008	993.52
76	10/28/2008	993.10
78	10/28/2008	995.76
80	10/28/2008	985.25
90	10/28/2008	982.65
139R	10/28/2008	977.46
ES1-13	10/28/2008	993.46
ES1-18	10/23/2008	1,041.08
ES1-23R	10/28/2008	987.63
GMA1-6	10/28/2008	992.39
GMA1-7	10/28/2008	976.17
GMA1-18	10/28/2008	992.19
South Caisson	10/28/2008	988.01
Lyman Street Area		
GMA1-5	10/28/2008	971.77
B-2	10/28/2008	971.90
E-4	10/28/2008	973.25
E-7	10/31/2007	974.98
EPA-1	10/28/2008	971.79
LS-12	10/27/2008	971.38
LS-24	10/27/2008	969.15
LS-29	10/31/2007	969.97
LS-30	10/27/2008	970.94
LS-31	10/27/2008	971.13
LS-38	10/28/2008	971.17
LS-44	10/31/2007	970.66
LSSC-07	10/29/2007	971.56
LSSC-08I	10/28/2008	971.88
LSSC-16I	10/31/2007	971.23
LSSC-16S	10/27/2008	NA
LSSC-18	10/27/2008	969.51
LSSC-33	10/31/2007	970.96
LSSC-34I	10/27/2008	969.99
MW-4R	10/27/2008	972.15
MW-6R	10/28/2008	973.72
RW-1(R)	10/28/2008	967.57
RW-2	10/28/2008	968.41
BM-2A	10/28/2008	971.27

Table 3
Groundwater Elevation Data - Fall 2008 Monitoring Round

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Date	Groundwater Elevation (Feet AMSL[1])
Newell Street Area I		
FW-16R	10/29/2008	974.11
IA-9R	10/29/2008	974.06
MM-1	10/29/2008	976.06
Newell Street Area II		
GMA1-8	10/27/2008	972.68
GMA1-9	10/27/2008	973.29
GMA1-25	10/27/2008	973.82
GMA1-26	10/27/2008	973.46
GMA1-27	10/27/2008	974.91
GMA1-28	10/27/2008	973.17
MW-1D	10/30/2007	972.22
MW-1S	10/27/2008	972.68
N2SC-01I	10/27/2008	973.29
N2SC-02	10/27/2008	973.46
NS-20	10/27/2008	978.79
NS-37	10/27/2008	973.02
Silver Lake Area		
SLGW-01S	10/27/2008	977.10
SLGW-05S	10/27/2008	977.13
SLGW-06S	10/27/2008	976.92

1. AMSL - Above Mean Sea Level
2 NA - Indicated well was unable to be monitored during the Fall 2008 Groundwater Monitoring Event.

Table 4
Field Parameter Measurements - Fall 2008

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Turbidity (NTU)	Temperature (Degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
RAA 2 - 30s COMPLEX						
GMA1-3	4.0	15.11	7.01	1.555	-8.9	0.42
ES2-19	NA	14.31	7.65	0.464	71.7	7.87
RAA 4 - EAST STREET AREA 2-SOUTH						
95-25	3	13.72	6.63	0.495	-163.7	1.92
RAA 5 - EAST STREET AREA 2-NORTH						
A7-R	16	8.07	11.31	3.720	-227.3	15.32
17A	215	16.58	7.71	1.460	95.3	8.36
95-20	1	15.94	7.16	0.895	35.0	6.18
ES1-10	2	19.98	7.41	1.265	-185.3	1.41
ES1-18	27	13.65	7.07	6.069	-62.7	1.12
F-1	7.4	20.29	7.74	0.639	-167.7	5.89
RAA 12 - LYMAN STREET AREA						
LSSC-16S	8	13.50	6.82	1.273	12.0	1.90
LS-MW-3R	6	14.03	6.68	-0.841	-182.7	2.49
RAA - NEWELL STREET AREA I						
MM-1	40	14.47	7.00	0.501	-44.4	0.52
RAA 13 - NEWELL STREET AREA II						
GMA1-25	3	12.24	7.37	0.583	-177.4	0.67
GMA1-27	10	12.74	7.02	0.653	-54.6	0.14

Table 4
Field Parameter Measurements - Fall 2008

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well ID	Turbidity (NTU)	Temperature (Degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
RAA 18 - EAST STREET AREA 1-SOUTH						
31R	17	10.8	7.28	0.845	56.1	6.99
37R	13	8.70	7.24	0.993	-9.1	0.65

Notes:

1. Measurements collected during Fall 2008 groundwater sampling event.
2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
3. The turbidity meter at well GMA1-3malfuncted just prior to sampling. Prior to the devices malfuction, the well's turbidity was stable at approximately 4 NTU.
5. NTU - Nephelometric Turbidity Units
6. mS/cm - Millisiemens per centimeter
7. mV - Millivolts
8. mg/L - Milligrams per liter (ppm)

Table 5
Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:		30s Complex		East St. Area 1 - South	
Sample ID:	Method 1 GW-2	ES2-19	GMA1-3	31R	37R
Parameter / Date Collected:	Standards	10/23/08	10/16/08	10/30/08	10/16/08
Volatile Organics					
Methylene Chloride	10	NA	NA	NA	NA
Total VOCs	5	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	Not Listed	NA	NA	NA	NA

Location ID:		East St. Area 2 - North			
Sample ID:	Method 1 GW-2	17A	95-20	A7-R	ES1-10
Parameter / Date Collected:	Standards	10/16/08	10/15/08	12/11/08	10/15/08
Volatile Organics					
Methylene Chloride	10	NA	NA	NA	NA
Total VOCs	5	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	Not Listed	NA	NA	NA	NA

Location ID:		East St. Area 2 - North		East St. Area 2 - South	Lyman Street Area
Sample ID:	Method 1 GW-2	ES1-18	F-1	95-25	LSSC-16S
Parameter / Date Collected:	Standards	10/23/08	10/15/08	10/16/08	10/16/08
Volatile Organics					
Methylene Chloride	10	NA	NA	NA	NA
Total VOCs	5	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	Not Listed	NA	NA	NA	NA

Location ID:		Lyman Street Area	Newell St. Area I	Newell St. Area II	
Sample ID:	Method 1 GW-2	MW-3R	MM-1	GMA1-25	GMA1-27
Parameter / Date Collected:	Standards	10/16/08	10/24/08	10/17/08	10/17/08
Volatile Organics					
Methylene Chloride	10	NA	NA	0.00024 J [0.00053 J]	0.00061 J
Total VOCs	5	NA	NA	0.00024 J [0.00053 J]	0.00061 J
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	Not Listed	NA	NA	0.00099 J [ND(0.0051)]	ND(0.0051)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.
5. Only volatile, semivolatile and PCBs constituents detected in at least one sample are summarized.
6. Total VOCs are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 standard for Total VOCs.
7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

Table 6
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:	Method 1 GW-3 Standards	Newell St. Area II GMA1-25 10/17/08	Newell St. Area II GMA1-27 10/17/08
Volatile Organics				
Methylene Chloride		50	0.00024 J [0.00053 J]	0.00061 J
PCBs-Filtered				
None Detected		--	--	--
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate		50	0.00099 J [ND(0.0051)]	ND(0.0051)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.
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. Only those constituents detected in one or more samples are summarized.
5. Field duplicate sample results are presented in brackets.
6. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

Table 7
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:		30s Complex		East St. Area 1 - South	
Sample ID:	MCP UCL	ES2-19	GMA1-3	31R	37R
Parameter / Date Collected:	for GroundWater	10/23/08	10/16/08	10/30/08	10/16/08
Volatile Organics					
Methylene Chloride	100	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	NA	NA	NA	NA

Location ID:		East St. Area 2 - North			
Sample ID:	MCP UCL	17A	95-20	A7-R	ES1-10
Parameter / Date Collected:	for GroundWater	10/16/08	10/15/08	12/11/08	10/15/08
Volatile Organics					
Methylene Chloride	100	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	NA	NA	NA	NA

Location ID:		East St. Area 2 - North		East St. Area 2 - South	Lyman Street Area
Sample ID:	MCP UCL	ES1-18	F-1	95-25	LSSC-16S
Parameter / Date Collected:	for GroundWater	10/23/08	10/15/08	10/16/08	10/16/08
Volatile Organics					
Methylene Chloride	100	NA	NA	NA	NA
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	NA	NA	NA	NA

Location ID:		Lyman Street Area	Newell St. Area I	Newell St. Area II	
Sample ID:	MCP UCL	MW-3R	MM-1	GMA1-25	GMA1-27
Parameter / Date Collected:	for GroundWater	10/16/08	10/24/08	10/17/08	10/17/08
Volatile Organics					
Methylene Chloride	100	NA	NA	0.00024 J [0.00053 J]	0.00061 J
PCBs-Filtered					
None Detected	--	--	--	--	--
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	NA	NA	0.00099 J [ND(0.0051)]	ND(0.0051)

Notes:

1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, PCBs (filtered) and semivolatiles.
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. Only those constituents detected in one or more samples are summarized.
6. Field duplicate sample results are presented in brackets.
7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

Table 8
Proposed Spring 2009 Interim Groundwater Quality Monitoring Program

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Well Usage	Analysis	Basis for Inclusion or Exclusion/Comments
RAA 2 - 30s COMPLEX			
ES2-19	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
GMA1-3	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 4 - EAST STREET AREA 2-SOUTH			
95-25	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 5 - EAST STREET AREA 2-NORTH			
17A	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
95-20	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
A7	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
ES1-10	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
ES1-18	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
F-1	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
GMA1-4	GW-2 Sentinel (Conditional)	PCB	First of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard, if depth to groundwater is less than 15 feet and if an adequate volume of water is present in the well.

Table 8
Proposed Spring 2009 Interim Groundwater Quality Monitoring Program

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield, Massachusetts

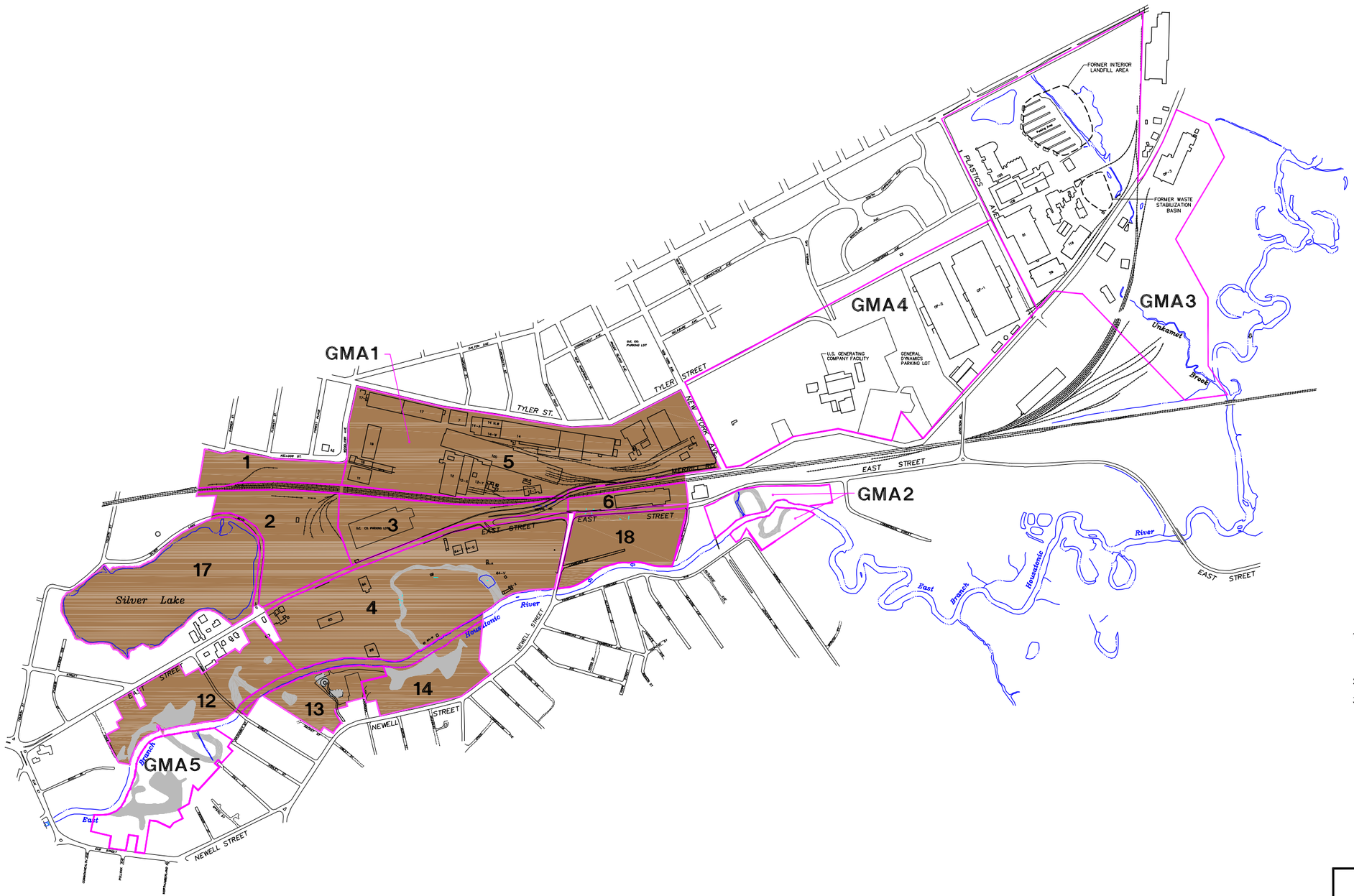
Well Number	Monitoring Well Usage	Analysis	Basis for Inclusion or Exclusion/Comments
RAA 12 - LYMAN STREET AREA			
LSSC-16S	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
MW-3R	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 13 - NEWELL STREET AREA II			
GMA1-25	GW-2 Sentinel/GW-3 Perimeter (Upgradient)	VOC/SVOC/PCB	Fourth of four rounds of sampling and analysis to be conducted as required by EPA.
GMA1-27	GW-2 Sentinel/GW-3 Perimeter (Upgradient)	VOC/SVOC/PCB	Fourth of four rounds of sampling and analysis to be conducted as required by EPA.
RAA 14 - NEWELL STREET AREA I			
MM-1	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
RAA 18 - EAST STREET AREA 1 SOUTH			
31R	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.
37R	GW-2 Sentinel	PCB	Second of four rounds of PCB analyses to be conducted to evaluate compliance with MCP GW-2 standard.

NOTES:

1. The wells listed above are sampled on a semi-annual as part of the interim groundwater quality monitoring program at GMA 1.
2. The wells will be sampled for the listed parameters on a semi-annual basis and may be proposed to be removed from the interim groundwater quality monitoring program after the fourth data set is collected.
3. All analyses for PCBs will be performed on filtered samples only.
4. Additional wells included in the interim monitoring program for annual groundwater quality sampling are not included in this table since they will not be sampled in spring 2009. The sampling schedule for those wells alternates between the spring and fall seasons each year, with the next sampling round to be conducted in fall 2009.

ARCADIS

Figures



LEGEND:

GMA 1 (PLANT SITE 1)

COMPRISED OF:

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

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

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.

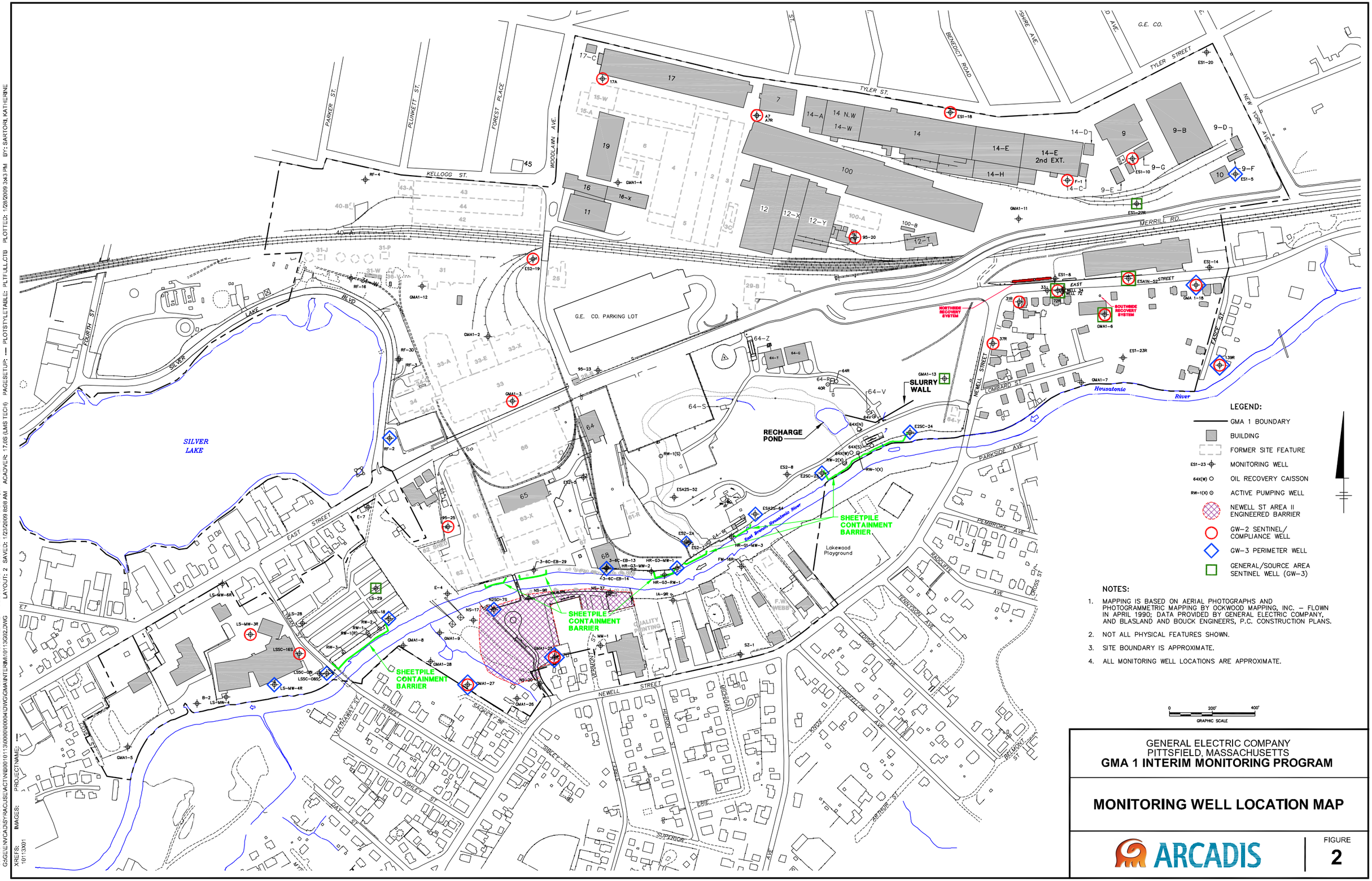
0 500' 1000'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 1 INTERIM MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

ARCADIS

FIGURE 1



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2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.

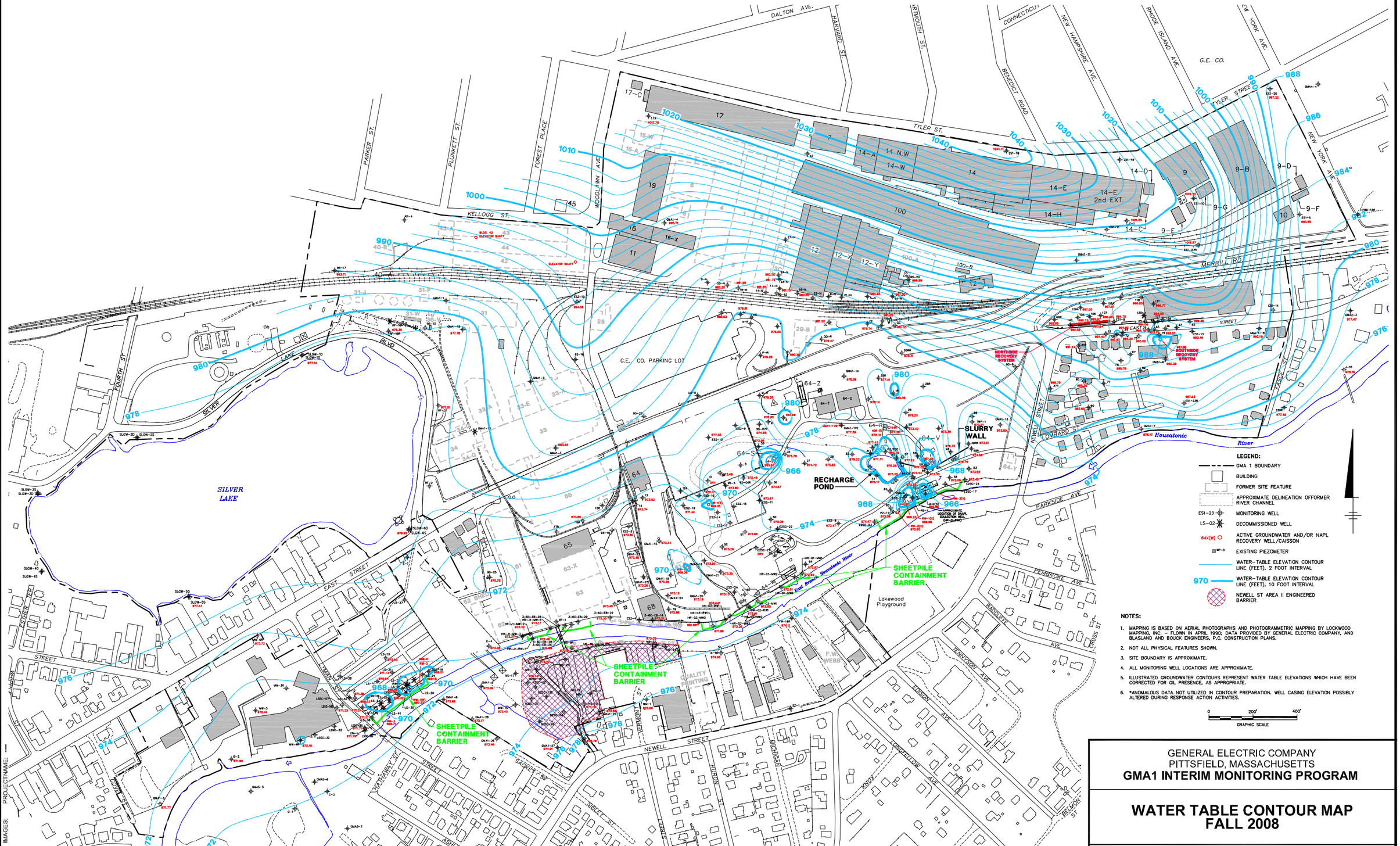
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 1 INTERIM MONITORING PROGRAM

MONITORING WELL LOCATION MAP

ARCADIS

FIGURE
2

CITY:SYRACUSE DIV/GROUP:ENVCADD DB:GMS RCB LAF LD:DMW PIC:P.KEANEY PM:J.NUSS TM:N.SMITH LYR:ON=*;OFF=*REF*
G:\GE\ENVCADSYR\ACUS\ACTIVE\60101130000\0004\DWG\GMAINTER\M10113G02.DWG LAYOUT: 2 SAVED: 1/23/2009 8:18 AM ACADVER: 17.0S (LMS TECH) *PAGESETUP:* -- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/28/2009 3:43 PM BY: SARTORI, KATHERINE
XREFS:
10113X01
IMAGES:
PROJECTNAME:

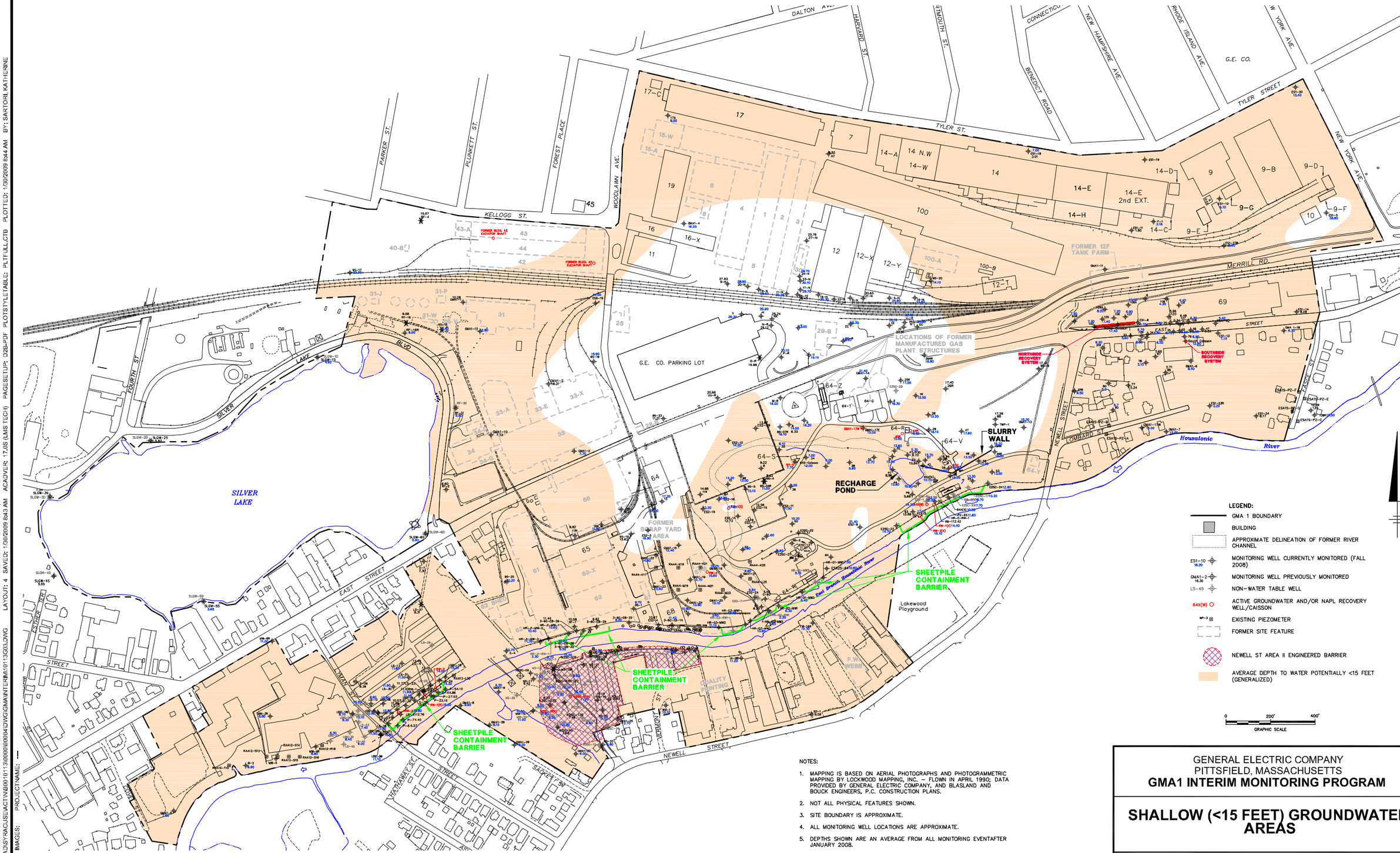


GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA1 INTERIM MONITORING PROGRAM

WATER TABLE CONTOUR MAP FALL 2008

ARCADIS

FIGURE 3



NOTES:

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2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. DEPTHS SHOWN ARE AN AVERAGE FROM ALL MONITORING EVENTAFTER JANUARY 2008.
6. DEPTHS ARE SHOWN BLS (BELOW LAND SURFACE).

LEGEND:

- GMA 1 BOUNDARY
- BUILDING
- APPROXIMATE DELINEATION OF FORMER RIVER CHANNEL
- ES1-10 16.20 — MONITORING WELL CURRENTLY MONITORED (FALL 2008)
- GMA1-2 16.30 — MONITORING WELL PREVIOUSLY MONITORED
- LS-45 — NON-WATER TABLE WELL
- 64X(W) — ACTIVE GROUNDWATER AND/OR NAPL RECOVERY WELL/CAISSON
- MP-3 — EXISTING PIEZOMETER
- FORMER SITE FEATURE
- NEWELL ST AREA II ENGINEERED BARRIER
- AVERAGE DEPTH TO WATER POTENTIALLY <15 FEET (GENERALIZED)

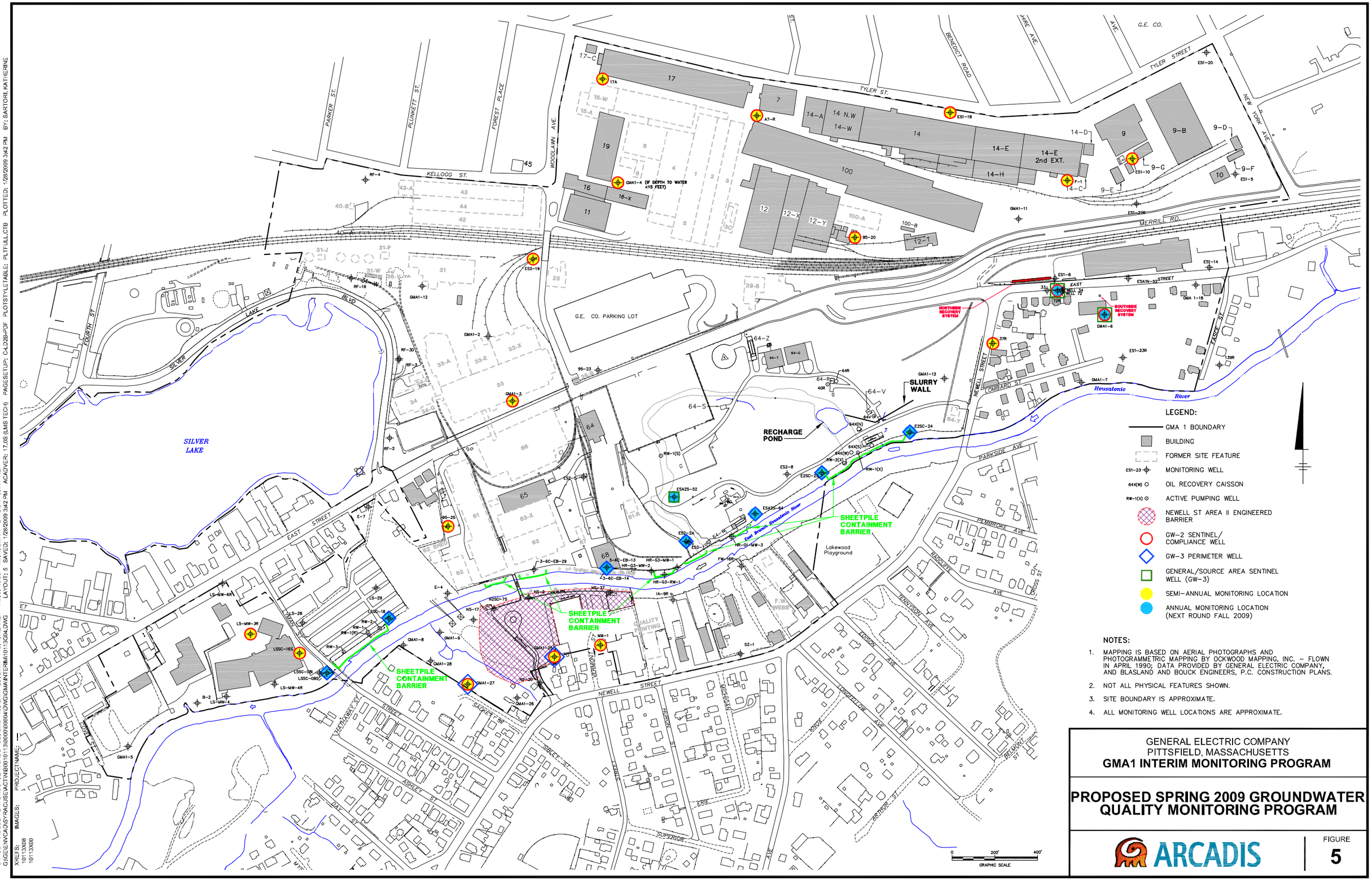
0 200' 400'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA1 INTERIM MONITORING PROGRAM

SHALLOW (<15 FEET) GROUNDWATER AREAS

ARCADIS

FIGURE
4



NOTES:

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2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA1 INTERIM MONITORING PROGRAM

PROPOSED SPRING 2009 GROUNDWATER QUALITY MONITORING PROGRAM

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FIGURE 5

Appendices

ARCADIS

Appendix A

Field Sampling Data

Table A-1
East Branch Housatonic River at Coltsville, MA River Discharge for Fall 2008

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield Massachusetts

Date	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Comments
15-Oct	47	35	Groundwater Samples Collected
16-Oct	40	33	Groundwater Samples Collected
17-Oct	42	37	Groundwater Samples Collected
18-Oct	40	35	No Samples Collected
19-Oct	38	32	No Samples Collected
20-Oct	34	30	No Samples Collected
21-Oct	38	31	No Samples Collected
22-Oct	58	35	No Samples Collected
23-Oct	61	54	Groundwater Samples Collected
24-Oct	61	56	Groundwater Samples Collected
25-Oct	243	56	No Samples Collected
26-Oct	552	266	No Samples Collected
27-Oct	355	215	No Samples Collected
28-Oct	496	215	Groundwater Samples Collected
29-Oct	478	394	No Samples Collected
30-Oct	398	266	Groundwater Samples Collected
11-Dec	439	378	Groundwater Samples Collected

NOTES:

1. Fall 2008 groundwater sampling event at GMA 1 was conducted between October 15 - 30, 2008 and on December 11, 2008.

2. Groundwater samples were collected on the dates listed above.

Table A-2
Housatonic River Elevation at Lyman and Newell Street Bridges

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report For Fall 2008
General Electric Company - Pittsfield Massachusetts

Date	Lyman St Bridge Elevation (ft)	Newell St Bridge Elevation (ft)
15-Oct	16.46	19.75
16-Oct	16.53	19.70
17-Oct	NA	NA
23-Oct	16.30	19.55
24-Oct	NA	NA
28-Oct	15.05	17.74
30-Oct	14.95	NA
11-Dec	NA	NA

NOTES:

1. Fall 2008 groundwater sampling event at GMA 1 was conducted between October 15 - 30, 2008 and on December 11, 2008.
2. Groundwater samples were collected in the vicinity of the river monitoring points on the dates listed above.
3. NA - River elevation data not available.

GROUNDWATER SAMPLING LOG

Well No. A7-R
Key No. 2537
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Pittsfield / GMA-1
Sampling Personnel GAR
Date 12/11/08
Weather Overcast, Rain and Sleet, 25-30°F

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point -0.05' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 5'-17' Meas. From Ground
Water Table Depth 6.63' Meas. From TIC
Well Depth 15.78' Meas. From TIC
Length of Water Column 9.15'
Volume of Water in Well 1.49 gallons
Intake Depth of Pump/Tubing 11' Meas. From TIC

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

Redevelop? (Y) N

Sample Time 17:15
Sample ID A7-R
Duplicate ID GMA1-DUP-2
MS/MSD Collected Here
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 14:35
Pump Stop Time 18:05
Minutes of Pumping 210
Volume of Water Removed 5.25 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 #2

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]*
14:40	100ml	0.13	6.86	—	—	—	184	—	—
14:50	100ml	0.40	7.08	—	—	—	235	—	—
15:05	100ml	0.79	7.20	—	—	—	163	—	—
15:15	100ml	1.06	7.28	—	—	—	125	—	—
15:35	100ml	1.59	7.36	—	—	—	69	—	—
15:45	100ml	1.85	7.12	—	—	—	68	—	—
15:55	100ml	2.11	7.15	—	—	—	76	—	—
16:05	100ml	2.38	7.08	6.64	10.61	3.621	61	30.30	-216.1

* 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 Water: Cloudy, light-brown, odorless
Final Purge Water: Clear, odorless

SAMPLE DESTINATION
Laboratory: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. A7-R

Site/GMA Name GE Pittsfield/GMA-1
Sampling Personnel GAR
Date 12/11/08
Weather Overcast, rain, sleet, 20-30°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	* pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
16:10	100ml	2.51	7.10	7.12	11.16	3.667	61	21.40	-223.6
16:15	100ml	2.64	7.10	7.63	11.25	3.692	49	18.30	-227.6
16:20	100ml	2.77	7.10	7.75	11.33	3.704	43	17.00	-228.0
16:25	100ml	2.91	7.10	7.86	11.36	3.717	39	16.40	-228.6
16:30	100ml	3.04	7.10	7.87	11.37	3.728	34	15.98	-228.7
16:35	100ml	3.17	7.10	7.91	11.37	3.740	28	15.63	-228.7
16:40	100ml	3.30	7.10	7.89	11.35	3.742	23	15.40	-229.1
16:45	100ml	3.43	7.00	7.65	11.37	3.752	22	15.40	-229.2
16:50	100ml	3.57	7.10	7.23	11.35	3.740	22	15.72	-228.4
16:55	100ml	3.70	7.10	7.80	11.34	3.734	19	15.24	-227.6
17:00	100ml	3.83	7.10	7.87	11.33	3.728	17	15.01	-226.9
17:05	100ml	3.96	7.10	7.94	11.33	3.723	16	15.15	-226.7
17:10	100ml	4.10	7.10	8.07	11.31	3.720	16	15.32	-227.3

* 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

* Note: Checked pH with pH strip got between 10+11
All parameters checked out when re-calibrated the next day (12/12/08). YSI Meter was also calibrated the day of sampling (12/11/08)

GROUNDWATER SAMPLING LOG

Well No. ES2-19
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Pits Fill / GMA-1
Sampling Personnel DAZ / KIC
Date 10/23/08
Weather 50, Sunny

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter 0.75'
Screen Interval Depth 11.5'-21.5' Meas. From Ground
Water Table Depth 14.39' Meas. From TIC
Well Depth 18.88' Meas. From TIC
Length of Water Column 4.49'
Volume of Water in Well 0.10 gallon
Intake Depth of Pump/Tubing 16.6' 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 15:00
Sample ID ES2-19
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 14:55
Pump Stop Time 15:05
Minutes of Pumping 10
Volume of Water Removed 0.6 gallons
Did Well Go Dry? Y N

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

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

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]*
15:05	250ml	0.33	18.81	14.31	7.65	0.464	>999	7.87	71.7

* 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

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. GMA1-3
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA1 GE Pittsfield
Sampling Personnel LIC DAZ
Date 10/16/08
Weather 60's Rainy

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point NA Meas. From
Well Diameter 2"
Screen Interval Depth 5-10 Meas. From BLS
Water Table Depth 7.13 Meas. From TIC
Well Depth 15.45 Meas. From TIC
Length of Water Column 8.32
Volume of Water in Well 1.33 gal.
Intake Depth of Pump/Tubing ~11.45 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 1518
Sample ID GMA1-3
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp. list)	( )
(X)	SVOCs	( )
(X)	PCBs (Total)	( )
( )	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 1405
Pump Stop Time 1523
Minutes of Pumping 78
Volume of Water Removed 3.30 gallons
Did Well Go Dry? Y (N)

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

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

Time	Pump Rate (L/min.)	Total Liters Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1415	150	0.20	7.76				54		
1420	300	0.60	7.89				150		
1425	200	0.52	6.39	15.25	7.16	1.533	7.0	1.48	21.5
1430		0.78	8.54	15.14	7.06	1.547	5.0	1.80	10.2
1435	↓	1.04	8.91	15.13	7.02	1.558	4.0	2.55	7.9
1440	↓	1.31	9.21	15.11	6.99	1.562	4.0	2.64	7.1
1445	150	1.51	9.42	15.15	6.97	1.568	4.0	2.14	5.2
1450		1.71	9.63	15.11	6.95	1.564	4.0	1.74	4.2

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: D. Zank

GROUNDWATER SAMPLING LOG

Well No. GMA1-3

Site/GMA Name GMA1 GE PITTSFIELD
Sampling Personnel D Zuck K Cormack
Date 10/16/08
Weather 60°F Rain

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]*
1453	200	1.87	9.77	15.16	6.94	1.572	4.0	1.36	2.2
1456		2.03	9.96	15.18	6.94	1.575	4.0	1.08	0.2
1459		2.19	10.17	15.21	6.93	1.571	4.0	0.83	-0.8
1502		2.34	10.27	15.23	6.94	1.569	3.0	0.53	-2.7
1505		2.50	NA	15.24	6.96	1.559	4.0	0.35	-5.9
1508		2.66	11.18	15.25	6.97	1.554	4.0	0.30	-6.4
1511		2.82	11.31	15.22	7.01	1.551	NA*	0.49	-8.7
1513		2.93	11.67	15.18	7.01	1.552	NA*	0.46	-8.9
1516		3.08	11.59	15.11	7.01	1.555	NA*	0.42	-8.9
	Collected Sample @ 1517								

* 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

* Turbidity meter batt. dead, NO change in turb. response from 1508 reading

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA1
Sampling Personnel EMC/DA
Date 10/15/08
Weather Sunny - Mid 70s

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -3/4" Meas. From GROUND
Well Diameter 2"
Screen Interval Depth ~~15 4~~ 4-19 Meas. From TIC
Water Table Depth 3.05 Meas. From TIC
Well Depth 19 Meas. From TIC
Length of Water Column 15.95
Volume of Water in Well 2.59
Intake Depth of Pump/Tubing 14' 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 15:20
Sample ID F-1
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 14:20
Pump Stop Time 1525
Minutes of Pumping 65
Volume of Water Removed ~~1.25~~ 1.5 gallons
Did Well Go Dry? Y (N)

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

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

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:20	100	INITIAL	3.61	—	—	—	27	—	—
14:25	100	500	3.78	20.87	7.55	0.888	31	10.72	-180.1
14:30	100	1000	4.82	20.87	7.59	0.876	35	7.97	-179.1
14:35	150	1750	5.04	20.51	7.60	0.827	29	7.63	-178.1
14:40	75	2125	5.07	20.77	7.64	0.811	20	7.63	-173.9
14:45	75	2500	5.09	20.63	7.63	0.769	17	7.63	-171.1
14:50	75	~~2875~~ 2825	5.17	20.66	7.68	0.755	12	7.71	-167.8
14:55	75	3250	5.25	20.58	7.67	0.691	10	7.67	-166.9

* 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 Pump intake depth pre-determined.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

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GROUNDWATER SAMPLING LOG

Well No. F-1

Site/GMA Name GMA 1
Sampling Personnel EMC/DA
Date 10/15/08
Weather Sunny - mid 70'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]*
15:00	75	3625	5.45	20.49	7.73	0.662	10	~~7.20~~ 6.09	-170.2
15:05	75	4000	5.53	20.44	7.68	0.652	9	5.96	-170.7
15:10	75	4375	5.59	20.24	7.77	0.642	8	6.10	-171.3
15:15	75	4750	5.63	20.29	7.74	0.639	8	5.89	-167.7
15:20	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 [redacted] odor.

GROUNDWATER SAMPLING LOG

Well No. 95-20
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA1 GE Pittsfield
Sampling Personnel KLC
Date 10/15/08
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point _____ Meas. From _____
Well Diameter 2"
Screen Interval Depth 13-20' Meas. From Ground
Water Table Depth 13.84' Meas. From TIC
Well Depth 19.96' Meas. From TIC
Length of Water Column 6.12'
Volume of Water in Well 1.00 gallon
Intake Depth of Pump/Tubing ~17.00 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 1620
Sample ID 95-20
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 1505
Pump Stop Time 1630
Minutes of Pumping 85
Volume of Water Removed 5.6 gallons
Did Well Go Dry? Y (N)

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

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

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
* 1510	250	0.33	13.97	—	~~7.13~~	—	7	—	—
1515	|	0.66	14.32	16.46	7.13	0.869	4	6.83	-53.1
1520	|	0.99	14.44	16.40	7.09	0.863	3	6.51	-50.9
1525	|	1.32	14.77	16.58	7.05	0.860	2	6.13	-28.4
1530	|	1.65	14.94	16.49	7.04	0.864	1	6.07	-22.1
1535	↓	1.98	15.13	16.35	7.02	0.872	1	5.91	-8.2
1540		2.31	15.39	16.36	7.02	0.875	1	5.61	0.2
1545		2.64	15.42	16.24	7.04	0.882	1	5.59	12.9

* 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

* Hooked up to YSI

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. 95-20

Site/GMA Name GMA1 - GE Pittsfield
Sampling Personnel KIC
Date 10/15/08
Weather Sunny 60'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]*
1550	250	2.97	15.80	16.18	7.08	0.885	1	5.77	17.8
1555	↓	3.30	16.19	16.14	7.08	0.889	1	5.98	26.6
1600		3.63	16.24	16.13	7.09	0.890	1	6.06	27.6
1610		4.29	16.51	16.11	7.11	0.893	1	6.31	30.8
1615		4.62	16.72	16.06	7.14	0.894	1	6.22	34.1
1618	↓	4.82	16.95	15.94	7.16	0.895	1	6.18	35.0

* 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. 17A
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 1 GE Pittsfield
Sampling Personnel Dan Tuck / Kara Cowell
Date 10/15/08
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ~3" Meas. From BGS
Well Diameter 2"
Screen Interval Depth 5-20' Meas. From BLS
Water Table Depth 12.5 Meas. From TIC
Well Depth 19.45 Meas. From TIC
Length of Water Column 12.20
Volume of Water in Well 1.98 gal
Intake Depth of Pump/Tubing ~15 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 ~~1035~~ 1030 on 10/16/08
Sample ID 17A
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

	10/15	10/16
Pump Start Time	1255	~~1335~~ 1015
Pump Stop Time	1415	1040
Minutes of Pumping	105	
Volume of Water Removed	9.0 gallons	
Did Well Go Dry?	Y (N)	

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS (#3 unit), Hach 2100P

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]*
1305	/	—	8.55	—	—	—	3103	—	—
* 1308	/	—	9.31	—	—	—	418	—	—
1310	480	1.90	9.62	19.44	7.84	13.94	44	6.20	-18.8
1315	480	2.54	9.91	19.03	7.80	1.397	37	6.21	-21.4
1320	480	3.17	10.51	12.94	7.78	1.411	30	6.48	-16.5
1325	480	3.80	11.05	18.90	7.77	1.443	27	6.71	-8.3
1330	300	4.20	12.20	18.82	7.74	1.533	49	6.88	-4.0
1335	300	4.59	12.64	18.82	7.73	1.539	80	6.91	-2.8

* 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 YSI.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: K. Ribaudo

GROUNDWATER SAMPLING LOG

Well No. 17A

Site/GMA Name GMA 1 / GG Pittsfield
Sampling Personnel DAZ / KLC
Date 10/15/08
Weather Sunny 60'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]*
	1340	300	4.99	13.04	18.70	7.74	1.473	30	7.58	1.6
	1345	300	5.39	13.76	18.60	7.73	1.493	33	7.76	5.5
*	1350	300	5.78	—	18.57	7.71	1.488	51	7.72	7.1
	1355	300	6.18	—	18.39	7.74	1.466	104	7.72	5.0
	1400	300	6.57	—	18.12	7.77	1.461	138	8.16	4.6
**	1405	300	6.97	16.02	17.39	7.79	1.455	190	8.03	5.1
	1410	300	7.37	16.39	17.05	7.76	1.473	1000	7.94	4.0
	1415									
(#)	October 16th, 2008 re-Attempt to sample									
	1025			14.46	16.58	7.71	1.460	295	8.86	95.3
		Sampled @ [redacted]			1030 (@)					

* 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

* Water level dropped to level below the pump/ top
** lowered pump to bottom of well

10/15 Lymon = 19.46 Merrell = 19.75 10/16 Lymon Merrell = 19.70

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Sample time 10/16/08 @ 1030 turbidity = 187 (should after sample 2nd time)

GROUNDWATER SAMPLING LOG

Well No. GMA1-25
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA 1
Sampling Personnel EMC
Date 10/17/08
Weather Sunny - Mid 50's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point +2' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 5-15' Meas. From TIC
Water Table Depth 13.59 Meas. From TIC
Well Depth 17.20 Meas. From TIC
Length of Water Column 3.61
Volume of Water in Well 0.58
Intake Depth of Pump/Tubing 15.39 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 10:55
Sample ID GMA1-25
Duplicate ID GMA1-DUP-01
MS/MSD N/A
Split Sample ID N/A

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp. list)	( )
(X)	SVOCs	(X)
( )	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 0930
Pump Stop Time ~~11:10~~ 11:05
Minutes of Pumping 95
Volume of Water Removed ~~11.22~~ 5.0 gallons
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) 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 03C0392 AE
HACH 2100P # 96500-00

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]*
0930	200	INITIAL	11.61	—	—	—	12	—	—
0935	"	1000	"	12.38	7.28	0.568	10	7.42	-183.9
0940	"	2000	"	12.32	7.25	0.571	10	5.63	-185.0
0945	"	3000	"	12.32	7.24	0.577	11	4.08	-184.7
0950	"	4000	"	12.19	7.31	0.579	6	3.52	-187.9
0955	"	5000	"	12.17	7.42	0.580	5	3.23	-175.1
10:00	"	6000	"	12.17	7.29	0.581	5	2.69	-179.2
10:05	"	7000	"	12.12	7.29	0.581	5	1.94	-162.4

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. GMA1-25

Site/GMA Name GMA 1
Sampling Personnel EMC
Date 10/17/08
Weather Sunny - low 60'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]*
10:10	200	8000	11.61	12.24	7.29	0.580	3	1.75	-164.5
10:15	"	9000	"	12.29	7.34	0.581	3	1.42	-162.1
10:20	"	10000	"	12.28	7.37	0.581	3	1.39	-165.5
10:25	"	11000	"	12.24	7.38	0.583	3	1.11	-166.2
10:30	"	12000	"	~~12.3~~ 12.23	7.36	0.583	3	0.97	-165.4
10:35	"	13000	"	12.24	7.37	0.583	3	0.79	-166.7
10:40	"	14000	"	12.26	7.38	0.583	3	0.71	-174.3
10:45	"	15000	"	12.24	7.37	0.583	3	0.70	-176.1
10:50	"	16000	"	12.24	7.37	0.583	3	0.67	-177.4
10:55	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. GMA1-27
Key No. 2537 Arrot/Wolff
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA1 GE Plastics
Sampling Personnel KLC / DAZ
Date 10/17/08
Weather Sunny 70's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point _____ Meas. From _____
Well Diameter 2"
Screen Interval Depth 4-14 Meas. From BGS
Water Table Depth 9.14 Meas. From TIC
Well Depth 18.45 Meas. From TIC
Length of Water Column 9.31'
Volume of Water in Well 1.52 gallons
Intake Depth of Pump/Tubing ~13.5 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 GMA1-27
Duplicate ID GMA
MS/MSD GMA1-27 MS/MSD
Split Sample ID _____

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp. list)	( )
(X)	SVOCs	(X)
( )	PCBs (Total)	(NA)
(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 1020
Pump Stop Time 1210
Minutes of Pumping 110
Volume of Water Removed 7.0 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 (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]*
1030	400	1.06	—	—	—	—	51	—	—
* 1035	350	1.52	9.14	13.05	7.21	0.680	42	1.18	-54.9
1040	300	1.92	9.14	12.72	7.055	0.679	55	0.31	-55.6
1045	300	2.32	9.14	12.65	6.99	0.681	28	0.24	-54.4
1050	300	2.72	9.15	12.66	7.03	0.680	23	0.22	-49
1055	300	3.11	9.14	12.68	6.99	0.677	17	0.18	-52.5
1100	250	3.44	9.15	12.57	6.98	0.673	15	0.17	-51.7
1105	250	3.77	9.15	12.54	7.03	0.669	13	0.16	-52.5

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
*Hooked up YSI
*Kept flow through in shade

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

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GROUNDWATER SAMPLING LOG

Well No. GMA1-27

Site/GMA Name GMA1 GE Pittsfield
Sampling Personnel KLC/DAZ
Date 10/17/08
Weather Sunny 70'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]*
1110	250	4.10	9.14	12.64	7.02	0.664	11	0.15	-52.8
1113	250	4.30	9.13	12.65	7.05	0.658	10	0.14	-53.5
1116	250	4.50	9.14	12.78	7.06	0.655	10	0.14	-54.5
1119	250	4.69	9.15	12.74	7.02	0.653	10	0.14	-54.1
1120	→	Sampled @ 1120							

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. ES1-18
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Hatfield / GMA-1
Sampling Personnel DZ / KGL
Date 10/23/08
Weather Cloudy, 45°F

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 0.75"
Screen Interval Depth 4'-14' Meas. From Ground
Water Table Depth 8.63 Meas. From TIC
Well Depth 14.25 Meas. From TIC
Length of Water Column 5.62'
Volume of Water in Well 0.13 gallons
Intake Depth of Pump/Tubing 11.4' 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 15:30
Sample ID ES1-18
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 15:25
Pump Stop Time 15:35
Minutes of Pumping 10
Volume of Water Removed 0.5 gallons
Did Well Go Dry? Y N

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

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

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]*
15:35	200ml	0.26	8.63	13.65	7.07	6.069	27	1.12	-62.7

* 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 ____

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA1
Sampling Personnel EMC/DM
Date 10/24/08
Weather Sunny - 38°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -4" Meas. From GROUND
Well Diameter 2"
Screen Interval Depth 5-15' Meas. From TIC
Water Table Depth 12.4 Meas. From TIC
Well Depth 15' Meas. From TIC
Length of Water Column 2.60
Volume of Water in Well 0.42
Intake Depth of Pump/Tubing 13.70 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 13:30
Sample ID MM-1
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 10:00 - SEE NOTES
Pump Stop Time 13:30
Minutes of Pumping 210
Volume of Water Removed ~~4.42~~ 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 # 03M0230AE
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]*
13:00	100		DRY	15.52	6.68	0.513	53	3.19	26.6
13:05	"	500		15.16	6.91	0.512	47	2.35	-3.0
13:10	"	1000	6.45	14.91	7.21	0.504	43	0.73	-41.9
13:15	"	1500	6.45	14.81	7.04	0.502	40	0.54	-43.9
13:20	"	2000	6.45	14.59	6.94	0.501	40	0.56	-44.6
13:25	"	2500		14.47	7.00	0.501	40	0.52	-44.4
	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

10:00 - SET UP INITIAL PURGE. INITIAL TURB 7 1000 PURGED WELL @ .75 ml/min FOR 1.5 hrs. INCREASED FLOW TO 100 ml/min. TURB @ 54 by 13:00. SET UP YSI. WATER LEVEL INACCESSIBLE DUE TO BLADDER PUMP.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

C:\WORKGEO\Groundwater\554190\Attachments\D-2

GROUNDWATER SAMPLING LOG

Well No. 31R
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA - PITTSFIELD, MA
Sampling Personnel DRA, EMC
Date 10/31/08
Weather SUNNY, 35°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 5.5-15.5' Meas. From Ground
Water Table Depth 3.67 Meas. From TIC
Well Depth 14.77 Meas. From TIC
Length of Water Column 6.10
Volume of Water in Well 1.00 gallon
Intake Depth of Pump/Tubing 12.0 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 11:50
Sample ID 31R
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 10:35
Pump Stop Time 12:05
Minutes of Pumping 90
Volume of Water Removed 20 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	75	0.10	8.60	—	—	—	35	—	—
10:45	75	0.20	8.65	—	—	—		—	—
10:50	"	0.30	8.90	10.91	7.54	0.524	77	9.44	37.5
10:55	150	0.50	9.00	10.44	7.47	0.535	77	7.06	54.1
11:00	100	0.63	9.08	9.56	7.43	0.541	64	7.53	37.1
11:05	"	0.76	9.21	9.51	7.36	0.533	41	7.73	46.6
11:10	100	0.90	9.31	10.25	7.28	0.534	26	7.27	47.7
11:15	100	1.03	9.43	10.31	7.26	0.535	20	7.38	49.4

* 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 WITH PURGE WAS CLEAR, COLORLESS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. MW-31R

Site/GMA Name GMA - Pittsfield, MA

Sampling Personnel DRA, EMC

Date 10/30/08

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]*
11:30	100	1.16	9.51	10.44	7.25	0.339	18	7.63	51.7
11:35	100	1.29	9.55	10.54	7.24	0.339	17	7.65	53.4
~~11:30~~ 11:30	100	1.42	9.65	10.60	7.27	0.340	16	7.46	53.0
11:35	100	1.56	9.71	10.63	7.30	0.345	17	7.20	52.9
11:38 ~~11:40~~	100	1.64	9.81	10.71	7.27	0.343	13	7.19	55.4
11:41	100	1.72	9.81	10.66	7.27	0.345	17	7.11	54.7
11:44	100	1.80	9.82	10.80	7.28	0.345	17	6.99	56.1

* 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

GROUNDWATER SAMPLING LOG

Well No. ES1-10
Key No. –
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA 1
Sampling Personnel EMC / DA
Date 10/15/09
Weather Sunny - Mid 70's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ±2" Meas. From GROUND
Well Diameter 0.75"
Screen Interval Depth ~~10.5'-17.5'~~ Meas. From ~~GROUND~~ TIC
Water Table Depth 6.57 Meas. From TIC
Well Depth 17.5 Meas. From TIC
Length of Water Column 10.93'
Volume of Water in Well ~~1.78~~ 0.25 gallon
Intake Depth of Pump/Tubing 11.85 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 12:35
Sample ID ES1-10
Duplicate ID N/A
MS/MSD N/A
Split Sample ID N/A

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 11:35
Pump Stop Time 12:40
Minutes of Pumping 65
Volume of Water Removed ~~2.693~~ 4 gallons
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) 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 03Ø 392 AE
TURBIDIMETER # 4 6500-00 - HACH 21000

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]*
11:40	200	INITIAL	–	–	–	–	28	–	–
11:45	200	1000	–	–	–	–	8	–	–
11:50	200	2000	–	20.20	7.39	1.238	5	109.3	-187.3
11:55	200	3000	–	19.98	7.39	1.258	3	81.3	-210.6
12:00	200	4000	–	20.01	7.35	1.261	4	72.3	-208.1
12:05	200	5000	–	19.99	7.35	1.262	2	5.21	-208.9
12:10	200	6000	–	19.86	7.35	1.264	2	4.38	-178.4
12:13	200	6600	–	19.88	7.40	1.264	2	3.67	-197.8

* 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.
NOTE: DO READINGS FOR 11:50 - 12:00 READINGS LISTED AS %. ~~XXXXXX~~ ALL OTHER DO READINGS LISTED AS MG/L.
FINAL PURGE - CLEAR, NO ODOR

SAMPLE DESTINATION

Laboratory: TGS
Delivered Via: UPS
Airbill #: –

Field Sampling Coordinator:

C:\WORKGE\Groundwater\654199\Attachment\D-2

GROUNDWATER SAMPLING LOG

Well No. ESI-10

Site/GMA Name GMA 1
Sampling Personnel ENC/OA
Date 10/15/08
Weather Sunny - Mid 70'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]*
12:16	200	7200	–	19.82	7.41	1.266	3	2.66	-201.5
12:19	200	7800	–	19.96	7.42	1.265	2	1.99	-198.3
12:22	200	8400	–	20.00	7.41	1.264	2	1.66	-177.5
12:25	200	9000	–	19.99	7.42	1.265	2	1.39	-184.2
12:28	200	9600	–	19.99	7.43	1.265	2	1.40	-184.4
12:31	200	10200	–	19.98	7.41	1.265	2	1.41	-185.3
12:35	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

GROUNDWATER SAMPLING LOG

Well No. LSSC-165
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA1 - Lyman St, Pittsfield, MA
Sampling Personnel DJA
Date 10/16/08
Weather Overcast, 55°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 5'-15' Meas. From Ground
Water Table Depth 10.12 Meas. From TIC
Well Depth 13.85 Meas. From TIC
Length of Water Column 3.73
Volume of Water in Well 0.6 gallons
Intake Depth of Pump/Tubing 12.0' 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 10:45
Sample ID LSSC-165
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 9:35
Pump Stop Time 11:00
Minutes of Pumping 85
Volume of Water Removed ~~1.5 gal~~ 1.85 gallons
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (✓)
Peristaltic Pump ( ) Submersible Pump (✓) Other/Specify ( )
Pump Type: Bladder Pump - 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]*
9:50	100	0.40	—	13.47	7.08	1.205	37	3.24	-4.2
10:00	100	0.66	—	13.60	6.73	1.215	27	1.93	6.4
10:05	75	0.76	—	13.62	6.79	1.231	22	1.86	7.7
10:10	75	0.86	—	13.64	6.81	1.240	17	1.94	8.6
10:15	75	0.96	—	13.61	6.81	1.250	15	1.95	9.7
10:20	75	1.06	—	13.56	6.81	1.252	12	1.92	10.3
10:25	100	1.19	—	13.51	6.82	1.260	10	1.86	11.2
10:30	100	1.32	—	13.49	6.83	1.265	9	1.89	11.5

* 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: WATER PURGE SLIGHTLY TURBID, NO ODOR, WATER LEVEL COULD NOT BE RECORDED DUE TO WATER BELOW TOP OF PUMP.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. LSSC-165

Site/GMA Name GMA1-Lyman St, Pittsfield, MA
Sampling Personnel DMA
Date 10/14/08
Weather Raining, 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]*
10:35	100	1.46	-	13.52	6.83	1.270	8	1.87	11.7
10:40	100	1.59	-	13.50	6.82	1.273	8	1.90	12.0

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

Site/GMA Name GMA1
Sampling Personnel EMC
Date 10/16/08
Weather Rain - mid 50's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -2.4 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 2.5'-12.5' Meas. From TIC
Water Table Depth 8.23 Meas. From TIC
Well Depth 11 Meas. From TIC
Length of Water Column 2.77
Volume of Water in Well 0.45
Intake Depth of Pump/Tubing 9.61 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 11:10
Sample ID MW-3R
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 10:30
Pump Stop Time 11:10
Minutes of Pumping 40
Volume of Water Removed 1.58 gal
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS 03C0392 AE
TURBIDIMETER - 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	~~75~~ Dry	11.30	13.91	6.95	.913	68	6.24	-192.5
10:35	150	750	11.30	13.95	6.91	.884	25	5.79	-178.6
10:40	150	1500	11.30	13.95	6.62	.875	14	4.22	-179.1
10:45	150	2250	11.30	14.00	6.65	.870	11	3.50	-185.1
10:50	150	3000	11.30	14.00	6.69	.860	7	3.02	-183.1
10:55	150	3750	11.30	14.02	6.68	.842	6	2.68	-182.3
11:00	150	4500	11.30	14.02	6.67	.845	7	2.52	-187.3
11:05	150	5250	11.30	14.03	6.68	.841	6	2.47	182.7

* 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

SAMPLE DESTINATION

Laboratory: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 95-25
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA1
Sampling Personnel Eric
Date 10/16/09
Weather Rain - mid 50's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ____ Meas. From GROUND
Well Diameter 1"
Screen Interval Depth 10' Meas. From TIC
Water Table Depth 14.43 Meas. From TIC
Well Depth 18' Meas. From TIC
Length of Water Column 3.57
Volume of Water in Well ~~.57~~ 0.15 gallon
Intake Depth of Pump/Tubing 16.21 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 12:45
Sample ID 95-25
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 12:00
Pump Stop Time 12:45
Minutes of Pumping 45
Volume of Water Removed 1.88 gal.
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) 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 MSP # 03C0392 AB
TURB: 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]*
12:00	150	Initial	14.56	13.62	6.63	0.491	9	4.02	-153.0
12:05	150	750	14.56	13.61	6.62	0.491	7	3.88	-153.6
12:10	150	1500	14.57	13.56	6.62	0.491	4	3.33	-156.3
12:15	150	2250	"	13.56	6.62	0.490	4	2.88	-156.5
12:20	150	3000	14.58	13.60	6.62	0.491	3	2.24	-163.5
12:25	150	3750	14.58	13.62	6.62	0.491	3	2.20	-163.1
12:30	150	4500	"	13.66	6.62	0.492	4	2.07	-164.7
12:35	150	5250	"	13.71	6.62	0.494	3	1.98	-163.1

* 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

SAMPLE DESTINATION

Laboratory: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. ~~MW-95~~ 95-25

Site/GMA Name GMA

Sampling Personnel EMC

Date 10/10/08

Weather Rain High 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]*
12:40	150	6000		13.72	6.63	0.495	3	1.92	-163.7
12:45	~~SAMPLE~~	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. 37R
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA1 - Pittsfield, MA
Sampling Personnel DJA
Date 10/16/08
Weather Raining, 55°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 7.72'-17.72' Meas. From Ground
Water Table Depth 10.09 Meas. From TIC
Well Depth 18.30 Meas. From TIC
Length of Water Column 8.21'
Volume of Water in Well 1.34 gallons
Intake Depth of Pump/Tubing 14.2' 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 13:30
Sample ID 37R
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 11:45
Pump Stop Time 13:30-13:50
Minutes of Pumping 125
Volume of Water Removed ~2.5 gal
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, Horn 21000

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]*
11:50	100	0.13	10.16	-	-	-	310	-	-
11:55	100	0.26	10.24	-	-	-	266	-	-
12:00	75	0.36	10.21	-	-	-	205	-	-
12:10	75	0.56	10.20	-	-	-	175	-	-
12:20	75	0.76	10.20	-	-	-	130	-	-
12:30	75	0.96	10.20	-	-	-	78	-	-
12:40 12:45	75	1.26	10.20	8.74	7.27	0.990	48	1.47	86.7
12:50	75	1.36	10.20	8.80	7.26	0.991	31	0.67	48.2

* 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 was turbid, light odor No odor

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

C:\WORDGIE\Groundwater\054199\Attachment\D-2

GROUNDWATER SAMPLING LOG

Well No. 37R

Site/GMA Name GMA1 - Pittsfield, MA

Sampling Personnel DRA

Date 10/16/08

Weather Raining, 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]*
10:12:55	75	1.46	10.20	8.69	7.27	0.996	25	0.63	25.0
13:00	75	1.56	10.20	8.67	7.26	0.995	21	0.61	12.9
13:05	75	1.66	10.20	8.66	7.26	0.994	20	0.64	5.0
13:10	75	1.76	10.20	8.63	7.26	0.995	21	0.66	1.5
13:15	75	1.85	10.20	8.67	7.26	0.995	14	0.63	-1.6
13:20	75	1.95	10.20	8.68	7.24	0.994	14	0.64	-5.9
13:25	75	2.05	10.20	8.70	7.24	0.993	13	0.65	-9.1

* 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

ARCADIS

Appendix B

Fall 2008 Groundwater Analytical Results

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	30s Complex		East St. Area 1 - South		East St. Area 2 - North
Sample ID:	ES2-19	GMA1-3	31R	37R	17A
Parameter / Date Collected:	10/23/08	10/16/08	10/30/08	10/16/08	10/16/08
Volatile Organics					
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA
1,4-Dioxane	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA
3-Chloropropene	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA
Acetonitrile	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA
Iodomethane	NA	NA	NA	NA	NA
Isobutanol	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	NA
Propionitrile	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA	NA
Xylenes (total)	NA	NA	NA	NA	NA
Total VOCs	NA	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	30s Complex		East St. Area 1 - South		East St. Area 2 - North
Sample ID:	ES2-19	GMA1-3	31R	37R	17A
Parameter Date Collected:	10/23/08	10/16/08	10/30/08	10/16/08	10/16/08
PCBs-Filtered					
Aroclor-1016	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1221	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1232	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1242	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1248	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1254	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Aroclor-1260	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Total PCBs	ND(0.00012) J	ND(0.000080) J	ND(0.000069) J	ND(0.000078) J	ND(0.000081) J
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Naphthoquinone	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	30s Complex		East St. Area 1 - South		East St. Area 2 - North
Sample ID:	ES2-19	GMA1-3	31R	37R	17A
Parameter / Date Collected:	10/23/08	10/16/08	10/30/08	10/16/08	10/16/08
Semivolatile Organics (continued)					
Aramite	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA
Diallate	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA	NA
Dimethylphthalate	NA	NA	NA	NA	NA
Di-n-Butylphthalate	NA	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA
Hexachlorophene	NA	NA	NA	NA	NA
Hexachloropropene	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA
Isosafrole	NA	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA	NA
o-Toluidine	NA	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA
Safrole	NA	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North			
Sample ID:	95-20	A7-R	ES1-10	ES1-18
Parameter / Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08
Volatile Organics				
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA
1,4-Dioxane	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA
3-Chloropropene	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acetonitrile	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA
Iodomethane	NA	NA	NA	NA
Isobutanol	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA
Propionitrile	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA
Xylenes (total)	NA	NA	NA	NA
Total VOCs	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North			
Sample ID:	95-20	A7-R	ES1-10	ES1-18
Parameter / Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08
PCBs-Filtered				
Aroclor-1016	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1221	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1232	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1242	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1248	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1254	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Aroclor-1260	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Total PCBs	ND(0.000075) J	ND(0.00065) J [ND(0.00065)]	ND(0.000077) J	ND(0.00010) J
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
1,4-Naphthoquinone	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA
Aniline	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North			
Sample ID:	95-20	A7-R	ES1-10	ES1-18
Parameter / Date Collected:	10/15/08	12/11/08	10/15/08	10/23/08
Semivolatile Organics (continued)				
Aramite	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA
Diallate	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA
Dimethylphthalate	NA	NA	NA	NA
Di-n-Butylphthalate	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA
Hexachlorophene	NA	NA	NA	NA
Hexachloropropene	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA
Isosafrole	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA
o-Toluidine	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Phenol	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA
Safrole	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
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General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Street Area	
Sample ID:	F-1	95-25	LSSC-16S	MW-3R
Parameter Date Collected:	10/15/08	10/16/08	10/16/08	10/16/08
Volatile Organics				
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA
1,4-Dioxane	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA
3-Chloropropene	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA
Acetone	NA	NA	NA	NA
Acetonitrile	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA
Iodomethane	NA	NA	NA	NA
Isobutanol	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA
Propionitrile	NA	NA	NA	NA
Styrene	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA
Toluene	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA
Xylenes (total)	NA	NA	NA	NA
Total VOCs	NA	NA	NA	NA

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Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
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General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Street Area	
Sample ID:	F-1	95-25	LSSC-16S	MW-3R
Parameter Date Collected:	10/15/08	10/16/08	10/16/08	10/16/08
PCBs-Filtered				
Aroclor-1016	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1221	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1232	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1242	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1248	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1254	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Aroclor-1260	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Total PCBs	ND(0.000075) J	ND(0.000075) J	ND(0.000077) J	ND(0.000076) J
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA
1,4-Naphthoquinone	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA
Aniline	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
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General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	East St. Area 2 - North	East St. Area 2 - South	Lyman Street Area	
Sample ID:	F-1	95-25	LSSC-16S	MW-3R
Parameter Date Collected:	10/15/08	10/16/08	10/16/08	10/16/08
Semivolatile Organics (continued)				
Aramite	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA
Diallate	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA
Dimethylphthalate	NA	NA	NA	NA
Di-n-Butylphthalate	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA
Hexachlorophene	NA	NA	NA	NA
Hexachloropropene	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA
Isosafrole	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA
o-Toluidine	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Phenol	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA
Safrole	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	Newell St. Area I	Newell St. Area II	
Sample ID:	MM-1	GMA1-25	GMA1-27
Parameter / Date Collected:	10/24/08	10/17/08	10/17/08
Volatile Organics			
1,1,1,2-Tetrachloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,1-Trichloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2,2-Tetrachloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2-Trichloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,3-Trichloropropane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dibromo-3-chloropropane	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
1,2-Dibromoethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloropropane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,4-Dioxane	NA	ND(0.10) [ND(0.10)]	ND(0.10)
2-Butanone	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
2-Chloro-1,3-butadiene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
2-Chloroethylvinylether	NA	ND(0.013) J [ND(0.013) J]	R
2-Hexanone	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
3-Chloropropene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
4-Methyl-2-pentanone	NA	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Acetone	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Acetonitrile	NA	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Acrolein	NA	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Acrylonitrile	NA	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Benzene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromodichloromethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromoform	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromomethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Disulfide	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Tetrachloride	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloromethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
cis-1,3-Dichloropropene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromochloromethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromomethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dichlorodifluoromethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethyl Methacrylate	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethylbenzene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Iodomethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Isobutanol	NA	ND(0.050) J [ND(0.050) J]	ND(0.050) J
Methacrylonitrile	NA	ND(0.010) [ND(0.010)]	ND(0.010)
Methyl Methacrylate	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Methylene Chloride	NA	0.00024 J [0.00053 J]	0.00061 J
Propionitrile	NA	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Styrene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Tetrachloroethene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,2-Dichloroethene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,3-Dichloropropene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,4-Dichloro-2-butene	NA	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Trichloroethene	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichlorofluoromethane	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinyl Acetate	NA	ND(0.0025) [ND(0.0025)]	ND(0.0025)
Vinyl Chloride	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Xylenes (total)	NA	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Total VOCs	NA	0.00024 J [0.00053 J]	0.00061 J

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Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	Newell St. Area I	Newell St. Area II	
Sample ID:	MM-1	GMA1-25	GMA1-27
Parameter Date Collected:	10/24/08	10/17/08	10/17/08
PCBs-Filtered			
Aroclor-1016	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1221	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1232	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1242	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1248	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1254	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Aroclor-1260	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Total PCBs	ND(0.00011) J	ND(0.000068) J [ND(0.000068) J]	ND(0.000066) J
Semivolatile Organics			
1,2,4,5-Tetrachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,2,4-Trichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,2-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,2-Diphenylhydrazine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,3,5-Trinitrobenzene	NA	ND(0.029) [ND(0.026)]	ND(0.026)
1,3-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,3-Dinitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,4-Dichlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1,4-Naphthoquinone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
1-Naphthylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J
2,3,4,6-Tetrachlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,4,5-Trichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,4,6-Trichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,4-Dichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,4-Dimethylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,4-Dinitrophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)
2,4-Dinitrotoluene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,6-Dichlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2,6-Dinitrotoluene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Acetylaminofluorene	NA	ND(0.012) [ND(0.010)]	ND(0.010)
2-Chloronaphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Chlorophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Methylnaphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Naphthylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J
2-Nitroaniline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Nitrophenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
2-Picoline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
3&4-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
3,3'-Dichlorobenzidine	NA	ND(0.012) [ND(0.010)]	ND(0.010)
3,3'-Dimethylbenzidine	NA	ND(0.029) [ND(0.026)]	ND(0.026)
3-Methylcholanthrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
3-Nitroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)
4,6-Dinitro-2-methylphenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)
4-Aminobiphenyl	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
4-Bromophenyl-phenylether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
4-Chloro-3-Methylphenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
4-Chloroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)
4-Chlorobenzilate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
4-Chlorophenyl-phenylether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
4-Nitroaniline	NA	ND(0.029) [ND(0.026)]	ND(0.026)
4-Nitrophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)
4-Nitroquinoline-1-oxide	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J
4-Phenylenediamine	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J
5-Nitro-o-toluidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
a,a'-Dimethylphenethylamine	NA	ND(0.029) J [ND(0.026) J]	ND(0.026) J
Acenaphthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Acenaphthylene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Acetophenone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Aniline	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)

Table B-1
Fall 2008 Groundwater Analytical Results

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

Location ID:	Newell St. Area I	Newell St. Area II	
Sample ID:	MM-1	GMA1-25	GMA1-27
Parameter / Date Collected:	10/24/08	10/17/08	10/17/08
Semivolatile Organics (continued)			
Aramite	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzidine	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J
Benzo(a)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(a)pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(b)fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(g,h,i)perylene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzo(k)fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Benzyl Alcohol	NA	ND(0.012) [ND(0.010)]	ND(0.010)
bis(2-Chloroethoxy)methane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
bis(2-Chloroethyl)ether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
bis(2-Chloroisopropyl)ether	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
bis(2-Ethylhexyl)phthalate	NA	0.00099 J [ND(0.0051)]	ND(0.0051)
Butylbenzylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Chrysene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diallate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dibenzo(a,h)anthracene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dibenzofuran	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diethylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Dimethylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Di-n-Butylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Di-n-Octylphthalate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Diphenylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Ethyl Methanesulfonate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Fluoranthene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Fluorene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorobutadiene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorocyclopentadiene	NA	ND(0.012) J [ND(0.010) J]	ND(0.010) J
Hexachloroethane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Hexachlorophene	NA	ND(0.0058) J [ND(0.0051) J]	ND(0.0051) J
Hexachloropropene	NA	ND(0.012) [ND(0.010)]	ND(0.010)
Indeno(1,2,3-cd)pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isodrin	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isophorone	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Isosafrole	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Methapyrilene	NA	ND(0.0058) J [ND(0.0051) J]	ND(0.0051) J
Methyl Methanesulfonate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Naphthalene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Nitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosodiethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosodimethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitroso-di-n-butylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitroso-di-n-propylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosomethylethylamine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosomorpholine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosopiperidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
N-Nitrosopyrrolidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
o,o,o-Triethylphosphorothioate	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
o-Toluidine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
p-Dimethylaminoazobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachlorobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachloroethane	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachloronitrobenzene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pentachlorophenol	NA	ND(0.029) [ND(0.026)]	ND(0.026)
Phenacetin	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Phenanthrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Phenol	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pronamide	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pyrene	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Pyridine	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Safrole	NA	ND(0.0058) [ND(0.0051)]	ND(0.0051)
Thionazin	NA	ND(0.012) [ND(0.010)]	ND(0.010)

Table B-1
Fall 2008 Groundwater Analytical Results

Plant Site 1 Groundwater Management Area
Groundwater Quality Monitoring Interim Report for Fall 2008
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 volatiles, PCBs (filtered) and semivolatiles.
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,
3. 2007).
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.
   Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

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Appendix C

Historical Groundwater Data

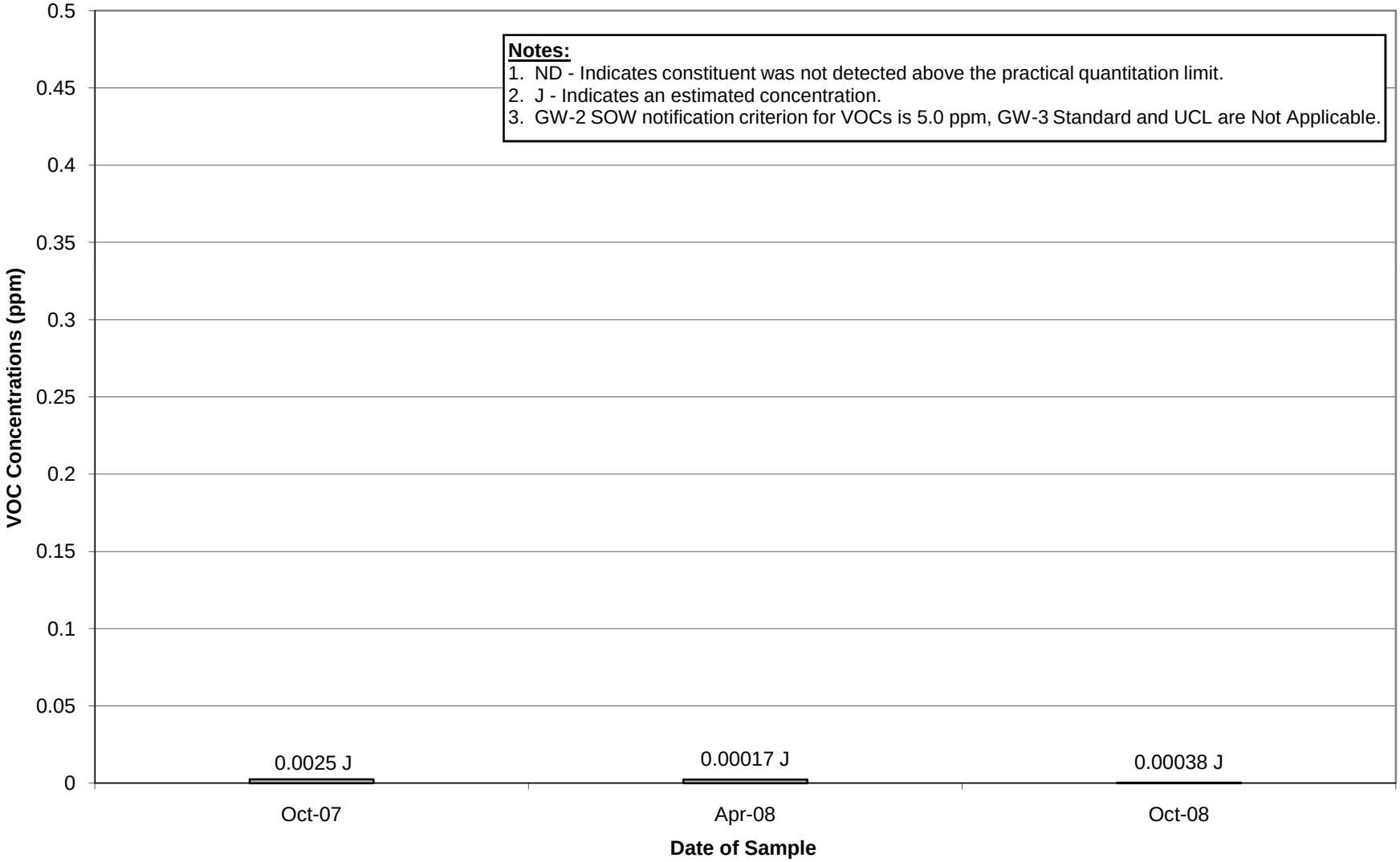
ARCADIS

Historical Groundwater Data

Total VOC Concentrations –
Wells Sampled in Fall 2008

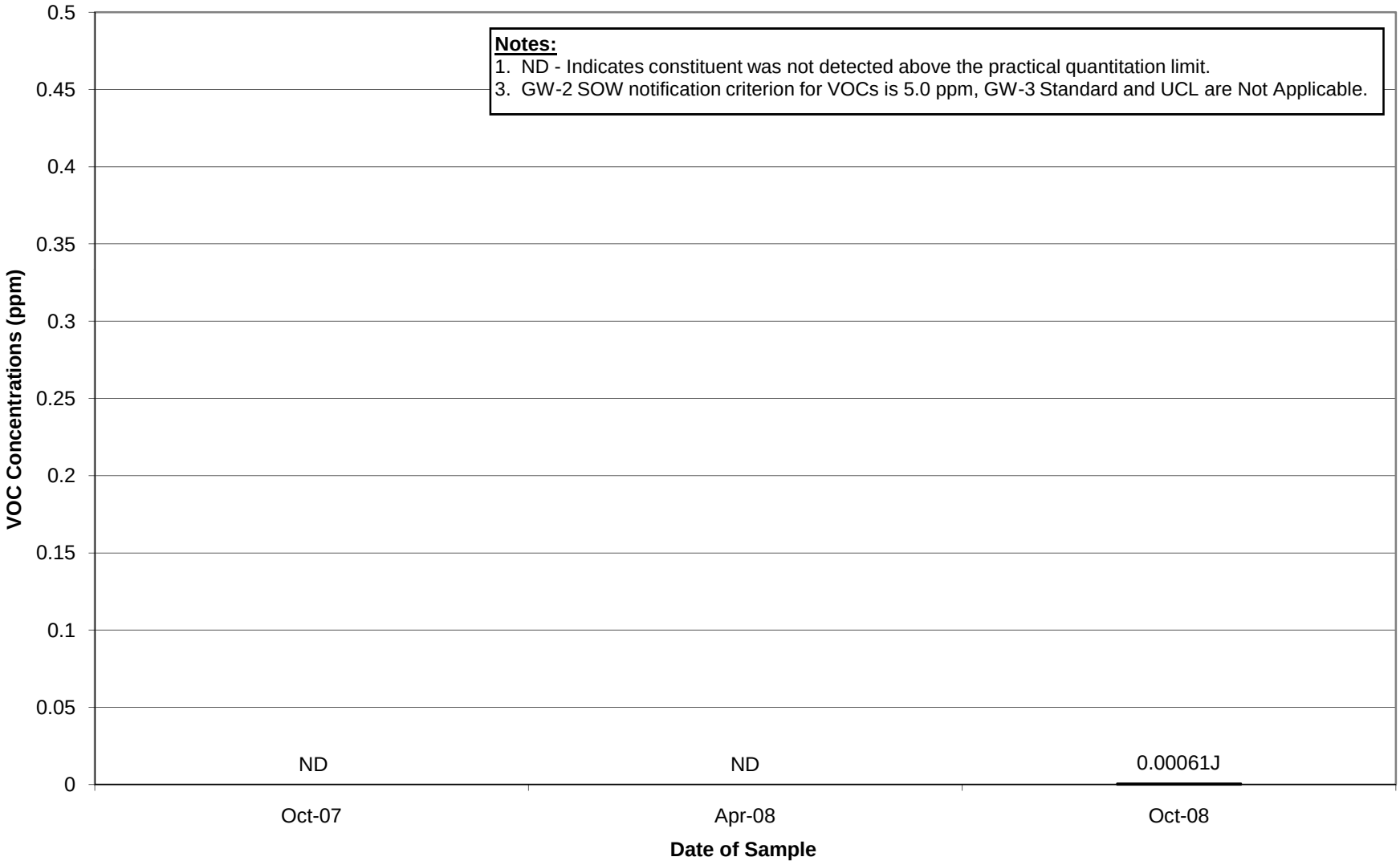
Appendix C
Well GMA1-25 Historical VOC Concentrations

Groundwater Management Area 1
General Electric Company - Pittsfield, Massachusetts



Appendix C
Well GMA1-27 Historical VOC Concentrations

Groundwater Management Area 1
General Electric Company - Pittsfield, Massachusetts



G:\GE\GE_Pittsfield_CD_GMA_1\Reports and Presentations\Fall 2008 GW Report\
034911324AppxC_VOC.xls - GMA1-27

1/29/2009

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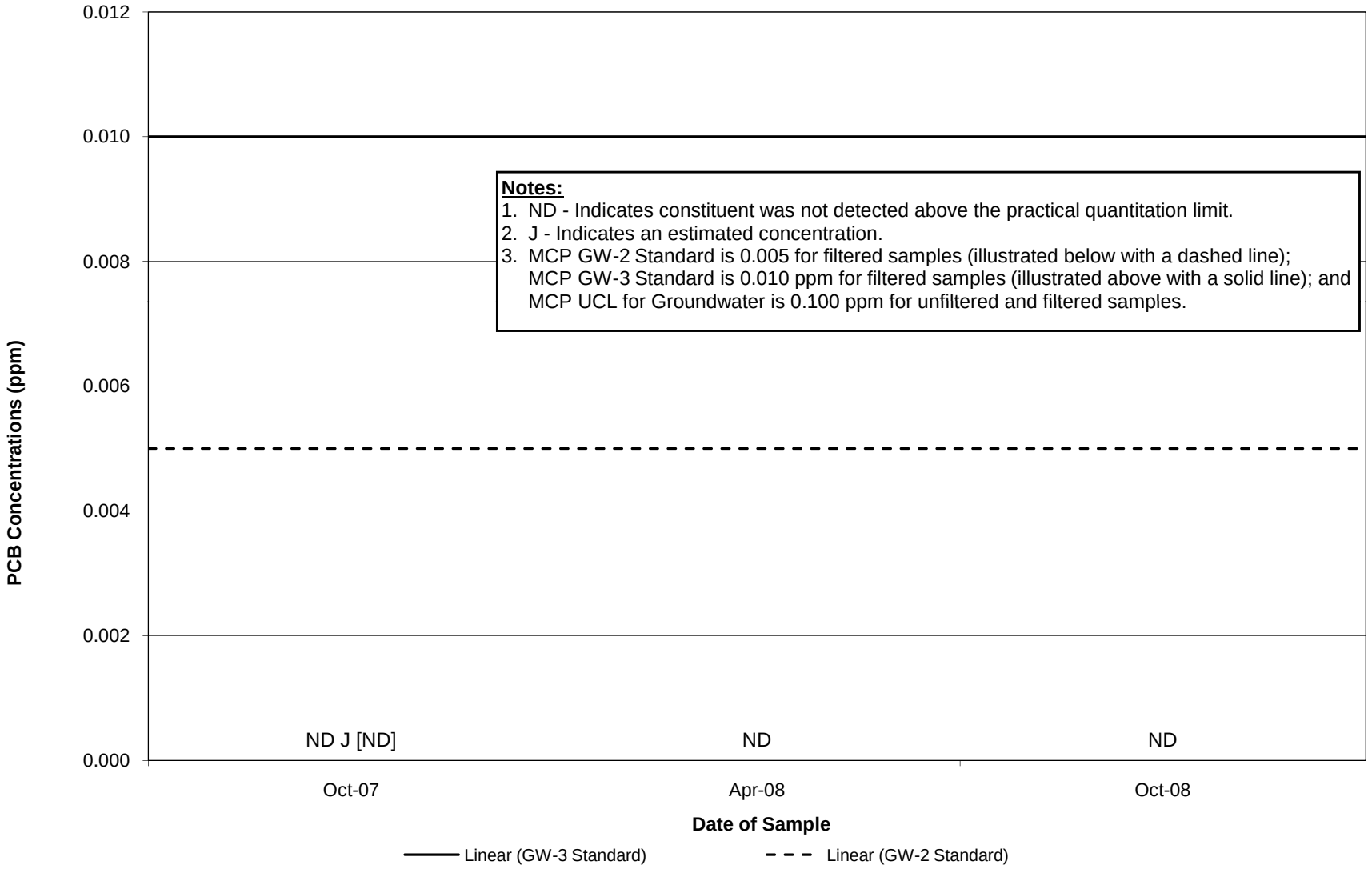
Historical Groundwater Data

Total PCB Concentrations –
Wells Sampled in Fall 2008

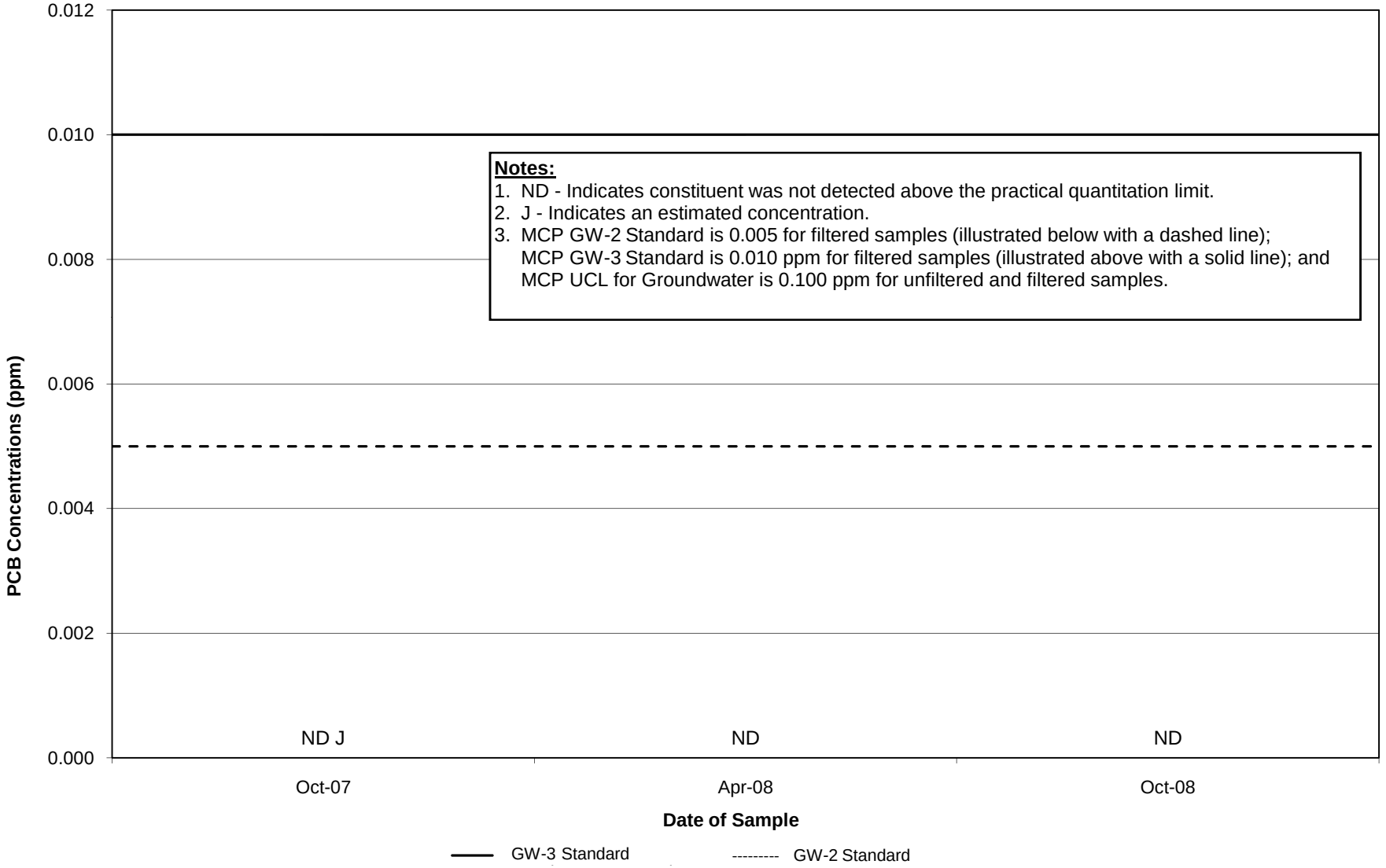
Appendix C
Well GMA1-25 Historical PCB Concentrations

Groundwater Management Area 1
General Electric Company - Pittsfield, Massachusetts



Appendix C
Well GMA1-27 Historical PCB Concentrations

Groundwater Management Area 1
General Electric Company - Pittsfield, Massachusetts



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Appendix D

Data Validation Report

Appendix D
Groundwater Sampling Data Validation Report
Groundwater Management Area 1 – 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 1, 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 19 PCB samples, five volatile organic compound (VOC) samples, and four semi-volatile organic compound (SVOC) 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); and

- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 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 D-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 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	16	2	1	19
VOCs	0	0	0	2	1	2	5
SVOCs	0	0	0	2	1	1	4
Total	**0**	**0**	**0**	**20**	**4**	**4**	**28**

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	5	J
	1,4-Dioxane	1	J
	2-Butanone	5	J
	2-Chloroethylvinylether	4	J
	Acetone	5	J
	Acetonitrile	5	J
	Acrolein	5	J
	Acrylonitrile	5	J
	Isobutanol	5	J
	Methacrylonitrile	1	J
	Propionitrile	5	J
	trans-1,4-Dichloro-2-butene	5	J
SVOCs	Hexachlorophene	4	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	4	J
	Acrolein	1	J
	Bromomethane	1	J
	Methacrylonitrile	1	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	1-Naphthylamine	3	J
	2-Naphthylamine	4	J
	4-Nitroquinoline-1-oxide	3	J
	4-Phenylenediamine	4	J
	a,a'-Dimethylphenethylamine	3	J
	Benzidine	3	J
	Hexachlorocyclopentadiene	3	J
	Methapyrilene	3	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 compound that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R

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
PCBs	All Aroclors	1	J
SVOCs	Benzo(k)fluoranthene	1	J
	Isophorone	1	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, at least one of the PCB surrogate compounds must have a recovery between laboratory-specified control limits. Associated sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were outside control limits and greater than 10%. A summary of the compounds affected by surrogate recovery exceedances and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCBs	All Aroclors	2	J

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	99.6	A total of one sample result was rejected due to MS/MSD recovery deviations.
SVOCs	100	None
PCBs	100	None

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates, MS/MSD samples, and LCS/LCSD samples. None of the data required qualification due to field duplicate RPD deviations, MS/MSD RPD deviations, or LCS/LCSD 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, and surrogate compound recoveries. For this analytical program, 9.9% of the data

required qualification due to instrument calibration deviations, 15.5% of the data required qualification due to LCS/LCSD recoveries, 0.11% of the data required qualification due to MS/MSD recovery deviations, and 1.8% of the data required qualification due to surrogate compound recovery deviations. None of the data required qualification due to 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, and 8270 for SVOCs.

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 99.6% 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 D-1
Analytical Data Validation Summary
Groundwater Management Area 1 Sampling - 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											
G582-131	17A (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000081) J	
G582-131	37R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000078) J	
G582-131	95-20 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	95-25 (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	ES1-10 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
G582-131	F-1 (Filtered)	10/15/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000075) J	
G582-131	GMA1-3 (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000080) J	
G582-131	LSSC-16S (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000077) J	
G582-131	MW-3R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Aroclor-1221	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Aroclor-1232	LCS %R	62.8%	70% to 130%	ND(0.000076) J	

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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)											
G582-131	MW-3R (Filtered)	10/16/2008	Water	Tier II	Yes	Aroclor-1242	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Aroclor-1248	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Aroclor-1254	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Aroclor-1260	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
						Total PCBs	LCS %R	62.8%	70% to 130%	ND(0.000076) J	
G582-137	GMA1-25 (Filtered)	10/17/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1260	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Total PCBs	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
G582-137	GMA1-27 (Filtered)	10/17/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Aroclor-1260	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
						Total PCBs	LCS %R	66.5%	70% to 130%	ND(0.000066) J	
G582-137	GMA1-DUP-01 (Filtered)	10/17/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	66.5%	70% to 130%	ND(0.000068) J	Parent sample GMA1-25 (Filtered)
						Aroclor-1221	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1232	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1242	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1248	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1254	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Aroclor-1260	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
						Total PCBs	LCS %R	66.5%	70% to 130%	ND(0.000068) J	
G582-151	ES1-18 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1242	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1248	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Aroclor-1260	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
						Total PCBs	LCS %R	56.1%	70% to 130%	ND(0.00010) J	
G582-151	ES2-19 (Filtered)	10/23/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1016	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1221	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1232	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1242	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1242	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1248	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1248	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1254	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Aroclor-1260	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Aroclor-1260	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
						Total PCBs	LCS %R	56.1%	70% to 130%	ND(0.00012) J	
						Total PCBs	Surrogate Recovery	31.0%, 34.8%	40% to 140%	ND(0.00012) J	
G582-160	MM-1 (Filtered)	10/24/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1221	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1232	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1242	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1248	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1254	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Aroclor-1260	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
						Total PCBs	LCS %R	56.1%	70% to 130%	ND(0.00011) J	
G582-174	31R (Filtered)	10/30/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Aroclor-1221	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Aroclor-1232	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Aroclor-1242	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Aroclor-1248	LCS %R	50.0%	70% to 130%	ND(0.000069) J	

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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)											
G582-174	31R (Filtered)	10/30/2008	Water	Tier II	Yes	Aroclor-1254	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Aroclor-1260	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
						Total PCBs	LCS %R	50.0%	70% to 130%	ND(0.000069) J	
G582-185	GMA-1-RB-1 (Filtered)	11/3/2008	Water	Tier II	Yes	Aroclor-1016	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1221	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1232	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1242	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1248	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1254	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Aroclor-1260	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
						Total PCBs	LCS %R	50.0%	70% to 130%	ND(0.000066) J	
G582-272	A7-R (Filtered)	12/11/2008	Water	Tier II	Yes	Aroclor-1016	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1221	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1232	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1242	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1248	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1254	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Aroclor-1260	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
						Total PCBs	Surrogate Recovery	19.7%, 39.2%	40% to 140%	ND(0.00065) J	
G582-272	GMA1-DUP-2 (Filtered)	12/11/2008	Water	Tier II	No						Parent Sample A7-R
VOCs											
G582-137	GMA1-25	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) 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	33.7%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	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	
G582-137	GMA1-27	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) 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	33.7%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	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	
G582-137	GMA1-DUP-01	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	Parent sample GMA1-25
						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	33.7%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	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	
G582-137	Trip Blank	10/17/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) 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	33.7%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.028	>0.05	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	
G582-185	GMA-1-RB-1	11/3/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.019	>0.05	ND(0.0050) J	

Table D-1
Analytical Data Validation Summary
Groundwater Management Area 1 Sampling - Fall 2008

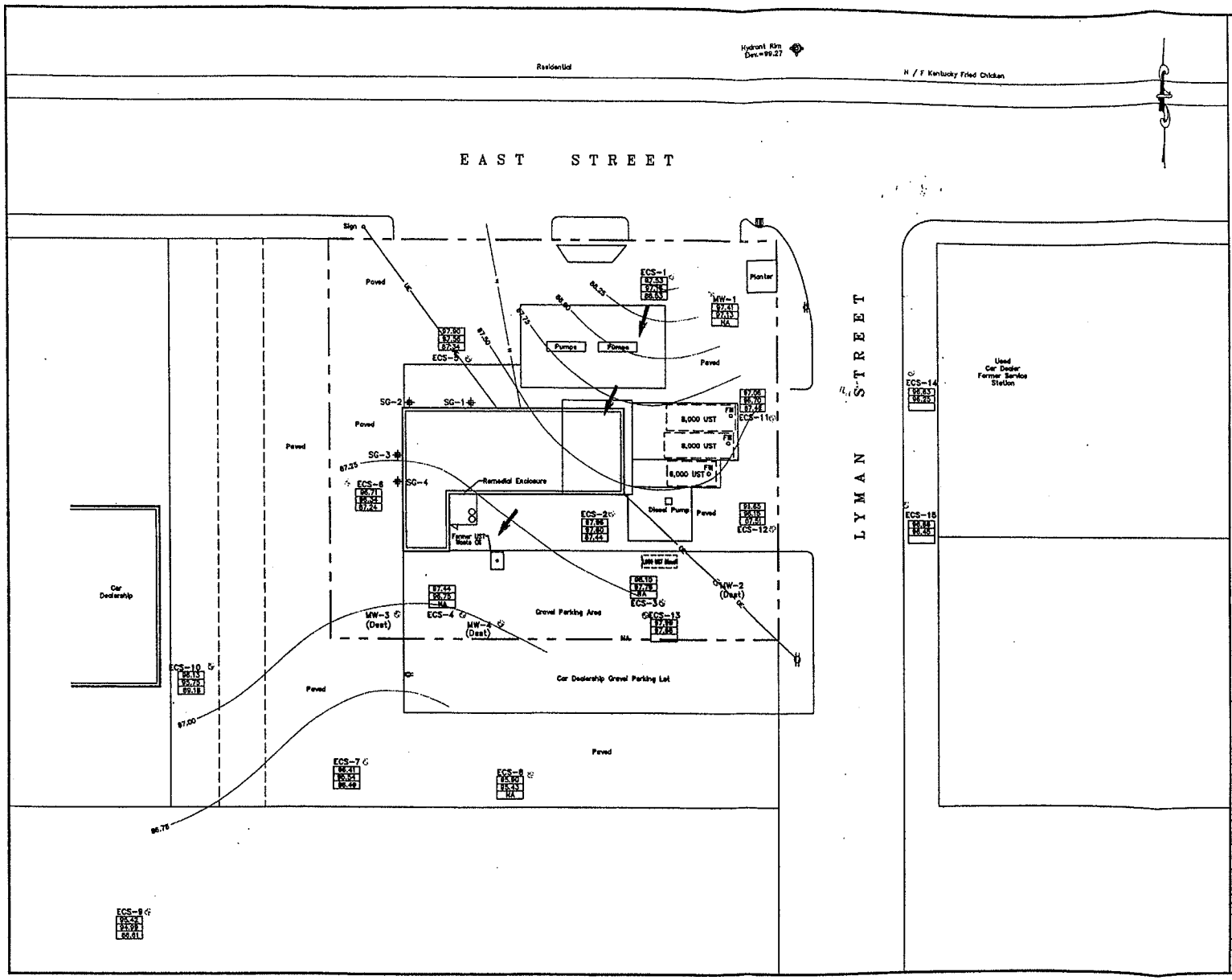
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G582-185	GMA-1-RB-1	11/3/2008	Water	Tier II	Yes	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											
G582-137	GMA1-25	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.029) J	
						2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.029) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.029) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.012) J	
						a,a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.029) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.012) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.012) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0058) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0058) J	
G582-137	GMA1-27	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.026) J	
						2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.026) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.010) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0051) J	
G582-137	GMA1-DUP-01	10/17/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	56.9%	<25%	ND(0.026) J	Parent sample GMA1-25
						2-Naphthylamine	CCAL %D	63.5%	<25%	ND(0.026) J	
						4-Nitroquinoline-1-oxide	CCAL %D	32.6%	<25%	ND(0.026) J	
						4-Phenylenediamine	CCAL %D	55.0%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	33.1%	<25%	ND(0.026) J	
						Benzidine	CCAL %D	26.0%	<25%	ND(0.010) J	
						Hexachlorocyclopentadiene	CCAL %D	40.0%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.024	>0.05	ND(0.0051) J	
						Methapyrilene	CCAL %D	28.6%	<25%	ND(0.0051) J	
G582-185	GMA-1-RB-1	11/3/2008	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	
						Benzo(k)fluoranthene	LCS %R	73.3%	74.3% to 111%	ND(0.0051) J	
						Hexachlorophene	ICAL RRF	0.027	>0.05	ND(0.0051) J	
						Isophorone	LCS %R	70.8%	74.2% to 106%	ND(0.0051) J	

ARCADIS

Appendix E

Monitoring Results for Adjacent MCP Disposal Site



Legend

- Approximate Property Line
- Sanitary Sewer Line
- Storm Sewer Line
- Water Line
- Natural Gas Line
- Overhead Electric Line
- Manhole
- Catchbasin
- Water Gate
- Fire Hydrant
- Utility Pole
- Soil Gas Point
- Monitoring Well
- ECS-1 — Well I.D.
- 98.94 — Rim Elevation
- 98.80 — PVC Elevation
- 73.71 — Water Table Elevation
- 90.0 — Water Table Contour (Dashed where inferred)
- Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal, and vertical locations of wells, and selected site features determined through measurements made by representatives of ECS.

Water table elevations are based on an assumed benchmark of 99.27 feet located at the hydrant rim.

Water table elevations are based on measurements made on January 25, 2006.

Water table contours, and flow directions assume homogenous, isotropic aquifer conditions, and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points, and inferred in other areas.

ECS
566 Silver Street • Agawam, MA 01001
Phone: 1-800-780-3630 Fax: 413-789-2779

PROJECT:
0' Connell's Mobil Station
730 East Street – Route 9
Pittsfield, Massachusetts

TITLE:
Site Plan with Groundwater Contours (1/25/06)

CLIENT:
0' Connell Oil Associates, Inc.

GRAPHIC SCALE: 30 15 0 15 30

COMPUTER FAMILE I:\J13632R.DWG

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	CPP	CPP	JN
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=30	Dec, 2007	J13632	3

O'Connell Mobil 730 East Street Pittsfield, Massachusetts	Table 1 (2 of 4) Oxygen Sparge Monitoring September 11, 2006* to September 9, 2008

Date	Oxygen Sparge Legs[1]										Total Flow SCFH	Tank 1	Tank 2	Comments
	AS-1		AS-2		AS-3		AS-4		AS-5					
	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)		psi	psi	
5/27/08	OFF	OFF	3	6	OFF	OFF	3	6	1.5	3	7.5	185	230	System restarted due to slight rebound (D).
6/4/08	OFF	OFF	1.5	7	OFF	OFF	10	5	0.5	4	12	135	135	
6/17/08	OFF	OFF	1.5	7	OFF	OFF	3	5	3	5	7.5	125	125	
7/9/08	OFF	OFF	3	9	OFF	OFF	3	9	1.5	4	7.5	210	222	Tanks changed Departure readings (D)
7/14/08	OFF	OFF	3	7	OFF	OFF	3.25	5	1.5	4	7.75	210	200	
7/30/08	OFF	OFF	1.5	7	OFF	OFF	3	5	3	5	7.5	200	180	Tanks changed Departure readings (D)
8/12/08	OFF	OFF	NR	NR	OFF	OFF	NR	NR	NR	NR	0	0	0	Tanks empty on arrival.
8/20/08	OFF	OFF	3	6	OFF	OFF	3	5	1.5	7	7.5	235	230	converted units on regulator in Kg/cm2 to PSI
8/26/08	OFF	OFF	2.25	7	OFF	OFF	2.5	4.5	1.5	4	6.25	210	190	
9/9/08	OFF	OFF	3	7	OFF	OFF	3	9	1.5	4	7.5	245	220	Tanks changed Departure readings (D)

NOTES:

[1] Each Oxygen sparge leg is 2-inch diameter.

All readings were recorded upon arrival unless otherwise noted.

SCFH = cubic feet per hour; psi = pounds per square inch

OFF = Intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty. D = Delivery.

*Oxygen sparge system activated September 11, 2006.

O'Connell Mobil 730 East Street Pittsfield, Massachusetts	Table 1 (1 of 4) Oxygen Sparge Monitoring September 11, 2006* to September 9, 2008

Date	Oxygen Sparge Legs[1]										Total Flow SCFH	Tank 1	Tank 2	Comments
	AS-1		AS-2		AS-3		AS-4		AS-5					
	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)		psi	psi	
9/15/06	2.0	2.0	4.0	1.5	1.5	1.5	1.75	1.0	1.5	1.0	10.8	170	160	System start-up
9/21/06	1.5	3.0	1.5	5.0	1.5	2.0	1.5	2.0	2.0	2.0	8.0	140	125	
10/10/06	1.5	3.0	1.5	5.0	1.5	2.0	1.5	2.0	1.5	2.0	7.5	210	190	Departure readings Tanks E on 10/6/06 (D)
10/23/06	1.25	4.0	1.5	5.0	1.5	3.5	1.5	3.5	2.0	3.0	7.8	150	140	
11/7/06	1.5	4.0	1.5	5.0	1.5	2.5	1.5	2.5	1.5	2.5	7.5	190	205	Departure readings Tanks E on arrival (D)
11/20/06	1.5	4.0	1.0	6.0	1.5	3.0	1.5	3.0	1.5	3.0	7.0	158	158	
12/4/06	1.5	4.0	1.5	6.0	1.5	3.0	1.5	3.0	1.5	2.5	7.5	220	235	Departure readings Tanks E on arrival (D)
12/18/06	1.5	4.0	1.0	6.0	1.0	3.0	1.5	2.5	1.0	3.0	6.0	180	205	
1/2/07	1.5	4.0	1.5	6.0	1.5	3.5	1.5	2.5	1.5	3.0	7.5	224	221	Departure readings Tanks E on arrival (D)
1/15/07	1.5	4.0	1.0	6.0	1.0	3.0	1.3	2.5	1.0	2.5	5.8	110	100	
1/29/07	1.5	4.0	1.5	3.0	1.5	4.0	1.5	4.0	1.5	2.5	7.5	245	240	Departure readings Tanks E on arrival (D)
2/12/07	1.5	4.0	1.0	5.5	1.0	3.0	1.5	3.0	1.5	2.5	6.5	141	141	
2/26/07	1.5	4	1.5	6	1.5	2.5	1.5	3	1.5	2	7.5	121	240	Departure readings Tanks E on arrival (D)
3/12/07	1.5	4	1	6	1	2.5	1.5	3	1	2.5	6	81	90	
3/26/07	1.5	5	1.5	6	1.5	4	1.5	4	1.5	3	7.5	245	230	Departure readings Tanks E on arrival (D)
4/10/07	1.25	5	1	6.5	1.25	4	1.25	4	1	4	5.75	160	140	
4/25/07	1.5	6	1.5	5	1.5	5	1.5	5	1.5	4	7.5	231	91	Departure readings Tanks E on arrival (D)
5/7/07	1.5	5	1.25	5	2.25	5	2	5	1.25	4	8.25	91	110	
5/24/07	1.5	5	1.5	6.5	1.5	5	1.5	4.5	1.5	4	7.5	235	225	Departure readings Tanks E on arrival (D)
6/4/07	1.5	5	1.5	6.5	1.5	4.5	2	4	2	3	8.5	130	120	
6/18/07	1.5	5	1.5	6	1.5	8	1.5	4	1.5	3	7.5	172	230	Departure readings Tanks E on arrival (D)
7/3/07	1.5	5	1	6	1.5	4.5	1.5	4	1	3	6.5	210	200	
7/16/07	OFF	OFF	4	6	4	5	4	4	4	3	16	192	221	Departure readings Tanks E on arrival (D)
8/1/07	OFF	OFF	3.5	6	4	5	4	4	3.5	3	15	85	92	
8/13/07	OFF	OFF	4	6	OFF	OFF	4	4	1.5	3	9.5	200	270	Departure readings Tanks E on arrival (D)
8/27/07	OFF	OFF	0.5	2.5	OFF	OFF	0	0	0	0	0.5	0	25	Tanks E on arrival and departure.
8/31/07	OFF	OFF	3	6	OFF	OFF	3	4	1.5	3	7.5	NR	NR	Departure readings Tanks E on arrival (D)
9/10/07	OFF	OFF	3	6	OFF	OFF	3	4	1.5	4	7.5	100	160	Departure readings
9/25/07	OFF	OFF	3	5	OFF	OFF	3	4	1.5	4	7.5	0	30	Departure readings
10/9/07	OFF	OFF	3	6	OFF	OFF	3	4	1	2	7	112	132	
10/23/07	OFF	OFF	4	6	OFF	OFF	4	6	1.5	4	9.5	NR	NR	Departure readings (D)
11/5/07	OFF	OFF	2	6	OFF	OFF	2.5	4	1	2	5.5	140	173	
11/19/07	OFF	OFF	3	6	OFF	OFF	3	7	1.5	2	7.5	200	186	Departure readings (D)
12/3/07	OFF	OFF	1	6	OFF	OFF	1.5	4	0.5	3	3	15	29	
12/17/07	OFF	OFF	1	6	OFF	OFF	0.5	2	0.1	2	1.6	10	30	Tanks changed prior to departure (D)
1/2/08	OFF	OFF	2	6	OFF	OFF	1.5	3	1	3	4.5	140	132	
1/14/08	OFF	OFF	3	6	OFF	OFF	3	5	1.5	4	7.5	145	178	Tanks changed Departure readings (D)
1/29/08	OFF	OFF	3	6	OFF	OFF	3	4	1	2	7	95	75	
2/11/08	OFF	OFF	NR	NR	OFF	OFF	NR	NR	NR	NR	0	NR	NR	System shut down to monitor rebound

NOTES:

[1] Each Oxygen sparge leg is 2-inch diameter.

All readings were recorded upon arrival unless otherwise noted.

SCFH = cubic feet per hour; psi = pounds per square inch

OFF = Intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty. D = Delivery.

*Oxygen sparge system activated September 11, 2006.

O'Connell Mobil
730 East Street
Pittsfield, Massachusetts

Table 1 (3 of 4)
Oxygen Sparge Monitoring
September 11, 2006* to September 9, 2008

Date	Oxygen Sparge Legs[1]										Total Flow SCFH	Tank 1	Tank 2	Comments
	AS-6		AS-7		AS-8		AS-9		AS-10					
	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)		psi	psi	
9/11/06	1.0	0.5	1.5	1.5	1.0	1.5	2.0	1.5	1.0	1.5	6.5	170	160	System start-up
9/21/06	1.8	2.0	1.5	2.5	1.5	1.0	1.3	2.0	1.5	2.0	7.5	140	125	
10/10/06	1.5	2.0	1.5	3.0	1.5	1.5	1.5	2.5	1.5	3.0	7.5	210	190	Departure readings Tanks E on 10/6/06 (D)
10/23/06	2.0	3.5	1.5	4.0	1.5	3.0	1.5	4.0	1.5	4.0	8.0	150	140	
11/7/06	1.5	3.5	1.5	4.0	1.5	2.0	1.5	3.5	1.5	3.0	7.5	190	205	Departure readings Tanks E on arrival (D)
11/20/06	1.5	2.5	1.5	5.0	1.5	2.5	1.0	5.0	1.5	4.5	7.0	158	158	
12/4/06	1.5	4.0	1.5	4.5	1.5	2.0	1.5	5.0	1.5	4.0	7.5	220	235	Departure readings Tanks E on arrival (D)
12/18/06	0.75	4.0	0.5	4.0	1	2.0	0.5	4.5	0.5	4.0	3.3	180	205	
1/2/07	1.5	3.0	1.5	4.0	1.5	2.0	1.5	5.0	1.5	5.0	7.5	224	221	Departure readings Tanks E on arrival (D)
1/15/07	1.5	3.0	1.5	3.0	1	2.0	1.0	5.0	1.5	5.0	6.5	110	100	
1/29/07	1.5	4.0	1.5	5.0	1.5	3.0	1.5	5.0	1.5	5.0	7.5	245	240	Departure readings Tanks E on arrival (D)
2/12/07	1.0	4.0	1	5.0	1	3.0	1.0	5.0	1.5	5.0	5.5	141	141	
2/26/07	1.5	4	1.5	4	1.5	3	1.5	5	1.5	5	7.5	121	240	Departure readings Tanks E on arrival (D)
3/12/07	1.5	3	1	4	1.25	2	0.75	5	1	5	5.5	81	90	
3/26/07	1.5	5	1.5	5	1.5	4	1.5	5	1.5	6	7.5	245	230	Departure readings Tanks E on arrival (D)
4/10/07	1	4	1.5	5	1.25	2	1	5	1	5.5	5.75	160	140	
4/25/07	1.5	5	1.5	6	1.5	5	1.5	6.5	1.5	10	7.5	231	91	Departure readings Tanks E on arrival (D)
5/7/07	1.5	5	2	6	2	4.5	2	6	1.5	6.5	9	91	110	
5/24/07	1.5	5	1.5	5.25	1.5	4	1.5	6	1.5	7	7.5	235	225	Departure readings Tanks E on arrival (D)
6/4/07	1.5	5	1.5	5	1.25	4	1	5.5	1.5	6	6.75	130	120	
6/18/07	1.5	5	1.5	5	1.5	4	1.5	5	1.5	7	7.5	172	230	Departure readings Tanks E on arrival (D)
7/3/07	1	4.5	1.5	5	1.5	4	1	5.5	1.75	6	6.75	210	200	
7/16/07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	4	7	4	192	221	Departure readings Tanks E on arrival (D)
8/1/07	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	3.75	7	3.75	85	92	
8/13/07	4	4	1.5	3	OFF	OFF	OFF	OFF	4	9	9.5	200	270	Departure readings Tanks E on arrival (D)
8/27/07	0	0	0	0	OFF	OFF	OFF	OFF	0	0	0	0	25	Tanks E on arrival and Departure.
8/31/07	3	4	1.5	4	OFF	OFF	OFF	OFF	3	4	7.5	NR	NR	Departure readings Tanks E on arrival (D)
9/10/07	3	5	1.5	5	OFF	OFF	OFF	OFF	1	8	5.5	100	160	Departure readings
9/25/07	3	4	1.5	4	OFF	OFF	OFF	OFF	0	10	4.5	95	240	Departure readings
10/9/07	2.5	4	1	4	OFF	OFF	OFF	OFF	0	8	3.5	112	132	
10/23/07	3	2	1.5	4	OFF	OFF	OFF	OFF	3	1	7.5	NR	NR	Departure readings (D)
11/5/07	3	4	1	5	OFF	OFF	OFF	OFF	0.1	10	4.1	140	173	
11/19/07	3	5	1.5	6	OFF	OFF	OFF	OFF	0.1	15	4.6	200	186	Departure readings (D)
12/3/07	1	4	0.5	3	OFF	OFF	OFF	OFF	0.3	5	1.8	15	29	
12/17/07	1	4	0.1	4	OFF	OFF	OFF	OFF	0.5	4	1.6	240	225	Tank readings on departure (D)
1/2/08	2	5	1.5	5	OFF	OFF	OFF	OFF	0.2	10	3.7	140	132	
1/14/08	3	5	1.5	4	OFF	OFF	OFF	OFF	1	10	5.5	145	178	Departure readings (D)
1/29/08	2	4	1	4	OFF	OFF	OFF	OFF	0.5	10	3.5	95	75	
2/11/08	NR	NR	NR	NR	OFF	OFF	OFF	OFF	NR	NR	OFF	NR	NR	System shut down to monitor rebound

NOTES:
[1] Each Oxygen sparge leg is 2-inch diameter.
All readings were recorded upon arrival unless otherwise noted.
SCFH = cubic feet per hour; psi = pounds per square inch
OFF = intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty. D = Delivery.
*Oxygen sparge system activated September 11, 2006.

O'Connell Mobil
730 East Street
Pittsfield, Massachusetts

Table 1 (4 of 4)
Oxygen Sparge Monitoring
September 11, 2006* to September 9, 2008

Date	Oxygen Sparge Legs[1]										Total Flow SCFH	Tank 1	Tank 2	Comments
	AS-6		AS-7		AS-8		AS-9		AS-10					
	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)	Flow (SCFH)	Pressure (psi)		psi	psi	
5/27/08	NR	NR	NR	NR	3	4	1.5	6	1	3	5.5	185	230	System restarted due to slight rebound (D).
6/4/08	3	7	1.5	6.5	1.5	4	OFF	OFF	OFF	OFF	6.0	135	135	
6/17/08	3	6	1.5	6	1.5	4	OFF	OFF	OFF	OFF	6.0	125	125	
7/9/08	1.5	22	1.5	12	OFF	OFF	3	5	OFF	OFF	6.0	210	222	Tanks changed Departure readings (D)
7/14/08	2.5	5	2	6	OFF	OFF	2	6.5	OFF	OFF	6.5	210	200	
7/30/08	3	5	1.5	6	1.5	4	OFF	OFF	OFF	OFF	6.0	200	180	Tanks changed Departure readings (D)
8/12/08	NR	NR	NR	NR	NR	NR	OFF	OFF	OFF	OFF	NA	NR	NR	Tanks empty on arrival.
8/20/08	3	5	1.5	6	OFF	OFF	OFF	OFF	3	10	7.5	235	230	converted units on regulator in Kg/cm2 to PSI
8/26/08	2	4.5	1.75	6	OFF	OFF	OFF	OFF	6.5	12	10.3	210	190	
9/9/08	3	9	1.5	9	OFF	OFF	OFF	OFF	3	10	7.5	245	220	Tanks changed Departure readings (D)

NOTES:
[1] Each Oxygen sparge leg is 2-inch diameter.
All readings were recorded upon arrival unless otherwise noted.
SCFH = cubic feet per hour; psi = pounds per square inch
OFF = intentionally not available - Oxygen sparge leg not in operation. NR = No reading taken. E = Empty. D = Delivery.
*Oxygen sparge system activated September 11, 2006.

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-1*	**11/8/99**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.19	**12/19/02**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.02	**9/8/05**	11.78	85.24	5.06	750	4.91	549	4.48	26.2	0.015
	1/25/06	8.49	88.53	7.31	108	2.71	68.0	2.16	23.4	3.90
	4/11/06	11.38	85.64	7.04	926	4.00	10.0	4.45	27.6	<0.01
	7/20/06	11.72	85.30	4.78	814	2.98	590	3.85	27.5	<0.01
	10/10/06	12.21	84.81	NA	NA	NA	NA	NS	NS	NS
	1/25/07	11.34	85.68	7.65	620	4.87	33.0	3.70	25.9	<0.01
	2/26/07	11.29	85.73	7.82	NM	2.67	182.6	NS	NS	NS
	4/24/07	9.89	87.13	NA	NA	NA	NA	NS	NS	NS
	10/4/07	12.74	84.28	7.45	743	4.49	88	3.81	27.3	<0.03
	3/11/08	9.82	87.20	7.37	708	4.06	160	3.35	25.9	<0.03
	5/1/08	11.5	85.52	7.56	822	5.37	33	3.79	27.8	<0.03

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. ** Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-2**	**11/8/99**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.76	**12/19/02**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.60	**9/8/05**	12.44	85.16	5.94	975	0.48	-9.5	NS	NS	NS
	11/1/05	10.65	86.95	6.89	1410	0.87	-65.9	NS	NS	NS
	1/25/06	10.16	87.44	6.84	781	1.52	-93.0	NS	NS	NS
	4/10/06	12.09	85.51	6.70	1,118	0.62	10.0	NS	NS	NS
	7/20/06	12.42	85.18	3.40	1,601	0.29	572	NS	NS	NS
	9/15/06	13.44	84.16	6.99	NM	3.88	-36.8	NS	NS	NS
	9/21/06	13.00	84.60	6.97	NM	11.68	237	NS	NS	NS
	10/6/06	12.84	84.76	6.97	NM	2.27	60.3	NS	NS	NS
	10/10/06	12.92	84.68	NM	805	0.63	28.0	NS	NS	NS
	10/23/06	12.25	85.35	6.28	NM	0.80	NM	NS	NS	NS
	11/7/06	12.21	85.39	6.67	NM	8.83	-60.8	NS	NS	NS
	11/20/06	11.58	86.02	7.12	NM	8.94	161.7	NS	NS	NS
	12/4/06	12.06	85.54	7.19	NM	9.96	228.8	NS	NS	NS
	12/18/06	12.54	85.06	6.20	NM	9.40	10.9	NS	NS	NS
	1/2/07	12.44	85.16	7.34	NM	8.68	-122.3	NS	NS	NS
	1/15/07	11.94	85.66	7.41	NM	8.76	-133.6	NS	NS	NS
	1/25/07	12.06	85.54	7.10	838	1.84	6.0	NS	NS	NS
	1/29/07	12.21	85.39	7.07	NM	12.24	-98.9	NS	NS	NS
	2/12/07	12.74	84.86	7.34	NM	11.84	-6.2	NS	NS	NS
	2/26/07	12.01	85.59	7.28	NM	6.63	252.3	NS	NS	NS
	3/12/07	12.92	84.68	6.68	NM	14.60	32.2	NS	NS	NS
	3/26/07	11.91	85.69	6.67	NM	11.34	-66.9	NS	NS	NS
	4/10/07	11.26	86.34	7.09	NM	5.75	-1.8	NS	NS	NS
	4/24/07	10.39	87.21	4.94	1015	0.60	-27.6	NS	NS	NS
	5/7/07	11.27	86.33	5.66	NM	11.98	32.9	NS	NS	NS
	5/24/07	11.02	86.58	5.82	NM	10.45	45.7	NS	NS	NS
	6/4/07	12.13	85.47	5.52	NM	*24.65	-8.6	NS	NS	NS
	6/18/07	12.38	85.22	6.48	NM	15.23	-67.2	NS	NS	NS
	7/3/07	12.52	85.08	7.60	NM	15.09	37.0	NS	NS	NS
	7/16/07	12.81	84.79	7.25	NM	15.37	58.0	NS	NS	NS
	8/1/07	12.95	84.65	6.61	NM	14.28	-57.4	NS	NS	NS
	8/13/07	13.01	84.59	5.22	NM	15.20	-265.0	NS	NS	NS
	8/27/07	13.23	84.37	6.48	NM	19.17	-92.2	NS	NS	NS
	9/10/07	13.32	84.28	7.72	NM	12.07	-61.6	NS	NS	NS
	9/25/07	13.39	84.21	7.69	NM	7.23	-73.5	NS	NS	NS
	10/4/07	13.50	84.10	6.55	1436	1.34	-73.0	NS	NS	NS
	10/9/07	13.54	84.06	6.07	NM	1.97	-308.7	NS	NS	NS
	10/22/07	13.29	84.31	6.81	NM	5.91	-51.9	NS	NS	NS
	11/5/07	13.13	84.47	7.41	NM	9.97	-24.2	NS	NS	NS
	11/19/07	12.84	84.76	6.71	NM	4.31	-50.1	NS	NS	NS
	12/3/07	13.83	83.77	7.06	NM	9.75	-199.7	NS	NS	NS
	12/17/07	12.94	84.66	7.06	NM	8.15	-111.5	NS	NS	NS
	1/2/08	12.42	85.18	6.46	NM	6.47	-139.1	NS	NS	NS
	1/14/08	12.03	85.57	6.41	NM	7.01	-130.4	NS	NS	NS
	1/29/08	12.41	85.19	6.36	NM	9.21	61.5	NS	NS	NS
	2/11/08	12.23	85.37	NM	NM	NM	NM	NS	NS	NS
	3/7/08	11.06	86.54	6.36	227	0.60	129.6	NS	NS	NS
	3/11/08	10.38	87.22	6.47	245	4.21	61	NS	NS	NS
	5/1/08	11.13	86.47	6.29	194	0.74	38	NS	NS	NS
	5/27/08	10.95	86.65	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.28	85.32	5.21	NM	11.40	44.4	NS	NS	NS
	6/17/08	12.08	85.52	6.27	NM	4.56	143.6	NS	NS	NS
	7/1/08	12.02	85.58	6.59	NM	8.22	60.3	NS	NS	NS
	7/9/08	NM	*85.58*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	12.43	85.17	6.60	NM	0.88	-82.9	NS	NS	NS
	7/30/08	11.62	85.98	6.54	NM	9.87	61.7	NS	NS	NS
	8/12/08	12.05	85.55	6.39	NM	1.80	5.4	NS	NS	NS
	8/20/08	11.68	85.92	NM	NM	NM	NM	NS	NS	NS
	8/26/08	12.48	85.12	6.43	NM	1.74	-18	NS	NS	NS
	9/9/08	11.56	86.04	6.25	NM	1.42	23.8	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. ** Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 2
Groundwater Geochemical Monitoring Data

Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-3*[**]	**11/8/99**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.95	**12/19/02**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.76	**9/8/05**	12.65	85.11	5.64	1,418	0.87	-69.9	<1.0	<10.0	53.9
	11/1/05	10.87	86.89	6.23	694	1.52	-0.4	NS	NS	NS
	1/25/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
	4/11/06	12.34	85.42	6.69	2,070	0.36	-40.0	<0.1	<1.0	10.3
	7/20/06	12.56	85.20	3.10	908	0.32	610	<0.5	27.5	14.4
	9/15/06	13.61	84.15	6.89	NM	5.24	-57.3	NS	NS	NS
	9/21/06	13.24	84.52	7.19	NM	10.88	255	NS	NS	NS
	10/6/06	13.08	84.68	6.97	NM	3.19	8.2	NS	NS	NS
	10/10/06	13.17	84.59	7.05	599	0.55	78.0	NS	NS	NS
	10/23/06	12.25	85.51	6.28	NM	2.18	NM	NS	NS	NS
	11/7/06	12.45	85.31	6.60	NM	9.35	-68.8	NS	NS	NS
	11/20/06	11.81	85.95	6.52	NM	10.34	177.8	NS	NS	NS
	12/4/06	12.31	85.45	7.24	NM	3.85	342.4	NS	NS	NS
	12/18/06	12.77	84.99	6.27	NM	8.35	-31.9	NS	NS	NS
	1/2/07	12.64	85.12	7.19	NM	7.25	-209.7	NS	NS	NS
	1/15/07	12.19	85.57	7.12	NM	7.39	-209.4	NS	NS	NS
	1/25/07	12.27	85.49	7.25	627	1.20	6.0	<0.5	28.4	5.98
	1/29/07	12.47	85.29	7.18	NM	8.72	-125.6	NS	NS	NS
	2/12/07	12.96	84.80	7.55	NM	10.63	-89.0	NS	NS	NS
	2/26/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/26/07	12.13	85.63	6.72	NM	8.71	-80.60	NS	NS	NS
	4/10/07	11.51	86.25	7.00	NM	14.93	-8.40	NS	NS	NS
	4/24/07	10.62	87.14	6.70	819	1.43	-66.8	NS	NS	NS
	5/7/07	11.52	86.24	5.24	NM	12.26	38.2	NS	NS	NS
	5/24/07	11.38	86.38	5.43	NM	9.37	49.2	NS	NS	NS
	6/4/07	12.4	85.36	5.72	NM	8.62	-16.7	NS	NS	NS
	6/18/07	12.59	85.17	6.64	NM	12.59	-141.8	NS	NS	NS
	7/3/07	12.98	84.78	7.98	NM	15.82	37.7	NS	NS	NS
	7/16/07	13.27	84.49	7.92	NM	15.98	56.4	NS	NS	NS
	8/1/07	13.18	84.58	6.78	NM	18.48	-76.9	NS	NS	NS
	8/13/07	13.26	84.50	6.77	NM	2.18	-262.7	NS	NS	NS
	8/27/07	13.48	84.28	6.77	NM	11.05	-115.8	NS	NS	NS
	9/10/07	13.55	84.21	7.58	NM	9.23	-48.2	NS	NS	NS
	9/25/07	13.63	84.13	7.55	NM	7.23	-50.1	NS	NS	NS
	10/4/07	13.73	84.03	7.04	800	5.31	-99.0	<0.1	37.8	5.21
	10/9/07	13.77	83.99	6.47	NM	5.10	-329.9	NS	NS	NS
	10/22/07	13.50	84.26	7.63	NM	4.38	-50.3	NS	NS	NS
	11/5/07	13.36	84.40	7.88	NM	7.21	-42.7	NS	NS	NS
	11/19/07	13.09	84.67	7.52	NM	3.71	-48.5	NS	NS	NS
	12/3/07	13.04	84.72	7.21	NM	7.07	-127.1	NS	NS	NS
	12/17/07	13.18	84.58	7.17	NM	7.01	-125.1	NS	NS	NS
	1/2/08	12.71	85.05	6.17	NM	5.21	41.4	NS	NS	NS
	1/14/08	12.24	85.52	6.09	NM	5.02	40.1	NS	NS	NS
	1/29/08	12.64	85.12	7.12	NM	8.75	8.2	NS	NS	NS
	2/11/08	12.27	85.49	NM	NM	NM	NM	NS	NS	NS
	3/7/08	11.33	86.43	NM	NM	NM	NM	NS	NS	NS
	3/11/08	10.68	87.08	7.12	932	2.97	-77	<0.5	27.1	2.08
	5/1/08	11.41	86.35	6.56	1,810	1.45	1.0	<1.0	28.9	21.6
	5/27/08	11.08	86.68	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.51	85.25	5.83	NM	2.11	100.1	NS	NS	NS
	6/17/08	12.33	85.43	6.33	NM	2.85	-102.2	NS	NS	NS
	7/1/08	12.30	85.46	6.45	NM	0.95	-50.7	NS	NS	NS
	7/9/08	NM	*85.46*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	10.7	87.06	6.37	NM	1.68	-31.9	NS	NS	NS
	7/30/08	11.88	85.88	6.26	NM	2.68	-40.0	NS	NS	NS
	8/12/08	12.31	85.45	6.59	NM	6.81	-31.6	NS	NS	NS
	8/20/08	11.91	85.85	NM	NM	NM	NM	NS	NS	NS
	8/26/08	12.78	84.98	6.65	NM	1.78	-35.6	NS	NS	NS
	9/9/08	11.83	85.93	6.48	NM	5.38	-47.2	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. ** Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 2
Groundwater Geochemical Monitoring Data

Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-4**	**11/8/99**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.06	**12/19/02**	NA	NA	NA	NA	NA	NA	NS	NS	NS
96.75	**9/8/05**	11.94	84.81	NM	NM	NM	NM	NS	NS	NS
	1/25/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
	4/10/06	11.51	85.24	NM	NM	NM	NM	NS	NS	NS
	7/20/06	11.96	84.79	5.67	1,013	246	932	NS	NS	NS
	9/15/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	9/21/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	10/6/06	12.36	84.39	NM	NM	NM	NM	NS	NS	NS
	10/10/06	12.43	84.32	NS	NS	NS	NS	NS	NS	NS
	10/23/06	11.75	85.00	5.94	NM	2.51	NM	NS	NS	NS
	11/7/06	11.72	85.03	6.54	NM	10.47	-42.90	NS	NS	NS
	11/20/06	11.08	85.67	7.01	NM	10.25	166.30	NS	NS	NS
	12/4/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	12/18/06	DRY	NA	NM	NM	NM	NM	NS	NS	NS
	1/2/07	11.93	84.82	6.78	NM	10.48	-36.50	NS	NS	NS
	1/15/07	11.41	85.34	6.95	NM	10.82	-86.90	NS	NS	NS
	1/25/07	11.55	85.20	NS	NM	NS	NS	NS	NS	NS
	1/29/07	11.72	85.03	6.95	NM	12.86	-35.2	NS	NS	NS
	2/12/07	12.23	84.52	NM	NM	NM	NM	NS	NS	NS
	2/26/07	NG	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	12.42	84.33	NM	NM	NM	NM	NS	NS	NS
	3/26/07	11.39	85.36	5.87	NM	13.76	179.60	NS	NS	NS
	4/10/07	10.46	86.29	6.75	NM	12.17	64.50	NS	NS	NS
	4/24/07	9.88	86.87	5.83	891	4.95	202	NS	NS	NS
	5/7/07	11.79	84.96	6.42	NM	5.34	136	NS	NS	NS
	5/24/07	11.65	85.10	6.23	NM	4.21	150	NS	NS	NS
	6/4/07	11.63	85.12	5.72	NM	9.72	38	NS	NS	NS
	6/18/07	11.81	84.94	6.53	NM	12.81	123	NS	NS	NS
	7/3/07	12.25	84.50	7.65	NM	7.17	87	NS	NS	NS
	7/16/07	12.31	84.44	7.41	NM	7.23	83	NS	NS	NS
	8/1/07	12.47	84.28	6.58	NM	20.52	101	NS	NS	NS
	8/13/07	12.53	84.22	6.40	NM	6.61	265	NS	NS	NS
	8/27/07	12.61	84.14	6.59	NM	9.21	-89	NS	NS	NS
	9/10/07	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	9/25/07	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	10/4/07	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	10/9/07	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	10/22/07	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	11/5/07	12.62	84.13	NM	NM	NM	NM	NS	NS	NS
	11/19/07	12.31	84.44	NM	NM	NM	NM	NS	NS	NS
	12/3/07	12.31	84.44	NM	NM	NM	NM	NS	NS	NS
	12/17/07	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/2/08	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	1/14/08	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	1/29/08	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	2/11/08	DRY	*96.75*	NM	NM	NM	NM	NS	NS	NS
	3/7/08	10.55	86.20	6.72	827	4.20	72.8	NS	NS	NS
	3/11/08	9.93	86.82	6.78	887	9.81	92	NS	NS	NS
	5/1/08	10.71	86.04	6.64	984	1.21	46	NS	NS	NS
	5/27/08	11.32	85.43	NM	NM	NM	NM	NS	NS	NS
	6/4/08	11.65	85.10	6.03	NM	1.16	12.3	NS	NS	NS
	6/17/08	11.88	84.87	6.61	NM	1.96	88.4	NS	NS	NS
	7/1/08	11.73	85.02	6.63	NM	2.12	99.7	NS	NS	NS
	7/9/08	NM	*85.02*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	12.08	84.67	6.45	NM	1.93	84	NS	NS	NS
	7/30/08	11.16	85.59	6.20	NM	4.24	112	NS	NS	NS
	8/12/08	11.65	85.10	6.55	NM	5.18	66.6	NS	NS	NS
	8/20/08	11.38	85.37	NM	NM	NM	NM	NS	NS	NS
	8/26/08	11.97	84.78	6.58	NM	3.12	-21	NS	NS	NS
	9/9/08	11.13	85.62	6.51	NM	4.37	47.6	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

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97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. ** Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-5	**11/8/99**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.73	**12/19/02**	NA	NA	NA	NA	NA	NA	NS	NS	NS
97.56	**9/8/05**	12.44	85.12	5.12	893	1.47	484	NS	NS	NS
	1/25/06	10.22	87.34	7.31	830	1.67	6.0	NS	NS	NS
	4/11/06	11.15	86.41	6.81	910	2.61	18.0	NS	NS	NS
	7/20/06	12.48	85.08	4.93	803	2.63	559	NS	NS	NS
	10/10/06	12.98	84.58	NM	NM	NM	NM	NS	NS	NS
	1/25/07	12.14	85.42	NM	NM	NM	NM	NS	NS	NS
	2/26/07	12.11	85.45	8.06	NM	2.21	193.8	NS	NS	NS
	4/24/07	10.43	87.13	NA	NA	NA	NA	NS	NS	NS
	10/4/07	13.57	82.77	7.30	813	3.98	82.0	NS	NS	NS
	3/7/08	11.20	85.14	6.94	726	3.34	90.6	NS	NS	NS
	3/11/08	10.54	85.80	7.10	834	1.52	105	NS	NS	NS
	5/1/08	11.27	85.07	NA	NA	NA	NA	NS	NS	NS
ECS-6	**2/13/03**	NA	NA	NA	NA	NA	NA	NS	NS	NS
96.58	**9/8/05**	11.34	85.00	4.97	972	0.43	258	NS	NS	NS
96.34	**11/1/05**	9.57	86.77	6.67	893	1.22	26.8	NS	NS	NS
	1/25/06	9.10	87.24	6.90	907	0.60	-99.0	NS	NS	NS
	4/10/06	11.05	85.29	7.15	1,146	0.47	64.0	NS	NS	NS
	7/20/06	11.40	84.94	4.11	907	0.17	561	NS	NS	NS
	10/10/06	11.89	84.45	NM	657	0.84	86.4	NS	NS	NS
	1/25/07	10.99	85.35	7.12	802	1.91	49.0	NS	NS	NS
	4/24/07	9.35	86.99	6.71	885	0.26	-10.4	NS	NS	NS
	10/4/07	12.46	83.88	6.87	947	1.20	-4.0	NS	NS	NS
	3/7/08	10.05	86.29	6.16	1721	1.18	68.4	NS	NS	NS
	3/11/08	10.44	85.90	6.04	1408	0.35	83.0	22.8	252	30.6
	5/1/08	10.16	86.18	6.57	880	0.72	24.0	<2.0	100	5.7
ECS-7	**2/13/03**	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.97	**9/8/05**	9.75	85.79	5.55	1,398	1.20	243	NS	NS	NS
95.54	**1/25/06**	9.05	86.49	6.85	925	0.35	16.0	NS	NS	NS
	4/10/06	9.90	85.64	6.44	1,490	0.79	180	NS	NS	NS
	7/20/06	9.78	85.76	NM	NM	NM	NM	NS	NS	NS
	10/10/06	9.96	85.58	NM	NM	NM	NM	NS	NS	NS
	1/25/07	9.70	85.84	NM	NM	NM	NM	NS	NS	NS
	4/24/07	9.47	86.07	NM	NM	NM	NM	NS	NS	NS
	10/4/07	10.41	85.13	6.58	1,089	0.39	9	NS	NS	NS
	3/7/08	14.79	80.75	6.63	962	2.62	60.2	NS	NS	NS
	5/1/08	9.62	85.92	NM	NM	NM	NM	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

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O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts			Table 2 Groundwater Geochemical Monitoring Data							
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-8**	**2/13/03**	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.72	**9/8/05**	10.35	85.08	4.74	1,534	1.20	469	<0.1	52.6	18.3
95.43	**1/25/06**	NG	NA	NM	NM	NM	NM	NS	NS	NS
	4/11/06	9.98	85.45	6.51	193	0.16	4.0	<0.1	59.2	1.64
	7/20/06	10.28	85.15	NM	NM	NM	NM	NS	NS	NS
	9/15/06	11.29	84.14	6.62	NM	10.17	-2.8	NS	NS	NS
	9/21/06	10.31	85.12	6.75	NM	7.85	123	NS	NS	NS
	10/6/06	11.75	83.68	7.63	NM	1.23	27.0	NS	NS	NS
	10/10/06	10.81	84.62	NM	NM	NM	NM	NS	NS	NS
	10/23/06	NG	NA	NM	NM	NM	NM	NS	NS	NS
	11/7/06	10.09	85.34	6.33	NM	7.43	-34.7	NS	NS	NS
	11/20/06	9.47	85.96	6.82	NM	3.53	78.6	NS	NS	NS
	12/4/06	9.92	85.51	7.92	NM	10.70	179.5	NS	NS	NS
	12/18/06	11.42	84.01	6.18	NM	7.30	27.2	NS	NS	NS
	1/2/07	10.33	85.10	6.69	NM	7.64	-98.5	NS	NS	NS
	1/15/07	9.87	85.56	6.82	NM	7.33	-109.6	NS	NS	NS
	1/25/07	9.91	85.52	NM	NM	NM	NM	NS	NS	NS
	1/29/07	10.08	85.35	7.13	NM	13.11	-79.2	NS	NS	NS
	2/12/07	11.62	83.81	6.93	NM	10.22	14.4	NS	NS	NS
	2/26/07	10.35	85.08	7.31	NM	6.41	246.7	NS	NS	NS
	3/12/07	10.22	85.21	7.14	NM	8.63	62.7	NS	NS	NS
	3/26/07	9.84	85.59	7.15	NM	9.40	39.7	NS	NS	NS
	4/10/07	9.16	86.27	7.06	NM	11.61	60.4	NS	NS	NS
	4/24/07	8.19	87.24	6.40	1,075	8.84	222.6	NS	NS	NS
	5/7/07	9.00	86.43	5.01	NM	11.69	90.8	NS	NS	NS
	5/24/07	9.83	85.60	5.47	NM	10.14	108.2	NS	NS	NS
	6/4/07	9.08	86.35	5.13	NM	8.03	43.6	NS	NS	NS
	6/18/07	10.18	85.25	6.28	NM	13.65	-14.7	NS	NS	NS
	7/3/07	10.62	84.81	7.36	NM	7.44	90.8	NS	NS	NS
	7/16/07	11.89	83.54	7.14	NM	7.54	104.7	NS	NS	NS
	8/1/07	10.83	84.60	6.45	NM	7.61	71.8	NS	NS	NS
	8/13/07	10.92	84.51	5.71	NM	3.10	-283.4	NS	NS	NS
	8/27/07	11.17	84.26	6.27	NM	7.42	-13.8	NS	NS	NS
	9/10/07	11.26	84.18	7.30	NM	9.71	-14.5	NS	NS	NS
	9/25/07	11.35	84.08	7.28	NM	7.10	-17.1	NS	NS	NS
	10/4/07	11.45	83.98	6.41	1,580	0.54	96.0	NS	NS	NS
	10/9/07	11.48	83.95	6.16	NM	2.85	-301.2	NS	NS	NS
	10/22/07	11.22	84.21	7.04	NM	4.01	-22.5	NS	NS	NS
	11/5/07	11.05	84.38	7.08	NM	3.01	39.9	NS	NS	NS
	11/19/07	10.79	84.64	7.03	NM	3.85	-25.2	NS	NS	NS
	12/3/07	9.74	85.69	7.01	NM	2.98	38.4	NS	NS	NS
	12/17/07	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/2/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/14/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	1/29/08	10.31	85.12	6.42	NM	4.51	73.0	NS	NS	NS
	2/11/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	3/11/08	NG	NG	NM	NM	NM	NM	NS	NS	NS
	3/24/08	8.56	86.87	6.33	1078	2.37	46	3.34	70.6	<0.03
	5/1/08	9.02	86.41	6.64	1451	0.50	27	NS	NS	NS
	5/27/08	9.59	85.84	NM	NM	NM	NM	NS	NS	NS
	6/4/08	10.07	85.36	6.00	NM	1.06	-5	NS	NS	NS
	6/17/08	9.82	85.61	6.46	NM	1.87	49.5	NS	NS	NS
	7/1/08	9.72	85.71	6.49	NM	1.43	5.7	NS	NS	NS
	7/9/08	NM	*85.71*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	10.23	85.20	6.32	NM	1.84	50.1	NS	NS	NS
	7/30/08	9.51	85.92	6.00	NM	2.77	57	NS	NS	NS
	8/12/08	9.81	85.62	6.30	NM	2.02	15.6	NS	NS	NS
	8/20/08	9.47	85.96	NM	NM	NM	NM	NS	NS	NS
	8/26/08	10.02	85.41	6.32	NM	2.00	9.4	NS	NS	NS
	9/9/08	8.89	86.54	6.22	NM	1.95	23.7	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

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O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	**Monitoring Date**	**Depth to Water (ft)**	**Groundwater Elevation (ft)**	**pH (SU)**	**Specific Conductivity (µS/cm)**	**Dissolved Oxygen (mg/L)**	**Redox (mV)**	**Nitrate (mg/L)**	**Sulfate (mg/L)**	**Dissolved Iron (mg/L)**
ECS-9*	**2/13/03**	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.22	**9/19/05**	10.91	84.08	6.22	1,047	4.69	-46.8	<0.1	<1.0	11.5
94.99	**1/25/06**	8.38	86.61	6.32	944	0.80	-89.0	<0.1	7.27	9.75
	4/11/06	10.33	84.66	6.52	157	0.60	-13.0	<0.1	<1.0	0.945
	7/20/06	10.72	84.27	3.02	1,136	0.30	445	<0.1	<1.0	10.8
	10/10/06	11.12	83.87	NA	NA	NA	NA	NS	NS	NS
	1/25/07	10.31	84.68	6.64	995	1.42	-2	<0.5	<5.0	10.6
	4/24/07	8.57	86.42	6.40	1,609	0.58	-2.6	NS	NS	NS
	10/4/07	11.79	83.20	6.69	1,478	1.11	-94.0	<0.1	8.05	47.1
	3/7/08	9.22	85.77	6.57	1,195	2.80	36.5	NS	NS	NS
	3/11/08	8.63	86.36	6.75	1,217	0.32	12.0	<0.1	36.2	6.76
	5/1/08	9.47	85.52	6.77	1,730	0.52	46.0	<1.0	61.3	0.40
ECS-10	**2/13/03**	NA	NA	NA	NA	NA	NA	NS	NS	NS
95.90	**9/8/05**	9.59	86.16	4.40	1,624	0.93	601	NS	NS	NS
95.75	**1/25/06**	8.57	87.18	6.96	1,850	0.37	23.0	NS	NS	NS
	4/10/06	9.52	86.23	6.60	234	0.35	180	NS	NS	NS
	7/20/06	9.42	86.33	NM	NM	NM	NM	NS	NS	NS
	10/10/06	9.64	86.11	NM	NM	NM	NM	NS	NS	NS
	1/25/07	9.31	86.44	NM	NM	NM	NM	NS	NS	NS
	4/24/07	8.53	87.22	NM	NM	NM	NM	NS	NS	NS
	10/4/07	10.18	85.57	6.60	1,570	0.36	15.0	NS	NS	NS
	3/7/08	8.01	87.74	6.70	1,473	0.46	62.2	NS	NS	NS
	3/11/08	5.74	90.01	6.58	930	0.51	82.0	3.84	27.2	1.20
	5/1/08	8.87	86.88	6.93	1,650	0.57	47.0	13.3	45.2	<0.03

NOTES: System shut down between 2/11/08 and 5/26/08

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O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-11**	**1/25/06**	9.28	87.42	6.42	1,033	0.70	-74.0	<0.1	25.2	10.4
96.70	**4/10/06**	10.94	85.76	6.92	1,103	0.67	-5.0	NS	NS	NS
	7/20/06	11.31	85.39	4.75	1,024	0.25	503	NS	NS	NS
	9/15/06	12.31	84.39	7.00	NM	8.92	-49.9	NS	NS	NS
	9/21/06	11.89	84.81	6.95	NM	10.01	266	NS	NS	NS
	10/6/06	11.74	84.96	8.10	NM	2.48	-41.5	NS	NS	NS
	10/10/06	11.81	84.89	NM	649	0.63	71.4	NS	NS	NS
	10/23/06	11.20	85.50	6.12	NM	1.60	NM	NS	NS	NS
	11/7/06	10.74	85.96	6.76	NM	10.43	-51.4	NS	NS	NS
	11/20/06	10.49	86.21	7.56	NM	8.52	-11.5	NS	NS	NS
	12/4/06	10.93	85.77	7.46	NM	12.59	232.5	NS	NS	NS
	12/18/06	11.40	85.30	6.44	NM	8.36	-8.5	NS	NS	NS
	1/2/07	11.34	85.36	7.69	NM	8.39	-127.5	NS	NS	NS
	1/15/07	10.89	85.81	7.34	NM	8.16	-133.4	NS	NS	NS
	1/25/07	10.98	85.72	7.03	849	1.58	4.0	NS	NS	NS
	1/29/07	11.11	85.59	7.43	NM	8.73	-105.0	NS	NS	NS
	2/12/07	11.54	85.16	7.22	NM	10.69	-48.6	NS	NS	NS
	2/26/07	11.14	85.56	7.14	NM	4.89	NM	NS	NS	NS
	3/12/07	11.91	84.79	7.07	NM	9.85	42.4	NS	NS	NS
	3/26/07	10.86	85.84	7.29	NM	10.23	-38.8	NS	NS	NS
	4/10/07	10.2	86.50	7.25	NM	12.52	66.7	NS	NS	NS
	4/24/07	9.35	87.35	5.70	1,163	0.30	149.2	NS	NS	NS
	5/7/07	10.18	86.52	5.37	NM	12.55	59.1	NS	NS	NS
	5/24/07	10.98	85.72	5.82	NM	11.23	58.6	NS	NS	NS
	6/4/07	11.05	85.65	6.63	NM	6.17	210.1	NS	NS	NS
	6/18/07	11.28	85.42	6.72	NM	9.23	10.2	NS	NS	NS
	7/3/07	11.65	85.05	7.85	NM	15.90	81.5	NS	NS	NS
	7/16/07	12.92	83.78	7.03	NM	13.29	98.3	NS	NS	NS
	8/1/07	11.87	84.83	6.94	NM	9.42	-0.6	NS	NS	NS
	8/13/07	11.97	84.73	6.27	NM	1.21	-319.1	NS	NS	NS
	8/27/07	12.2	84.50	6.65	NM	8.97	-51.7	NS	NS	NS
	9/10/07	12.29	84.41	7.28	NM	5.81	-41.1	NS	NS	NS
	9/25/07	12.36	84.34	7.26	NM	5.23	-42.3	NS	NS	NS
	10/4/07	12.47	84.23	6.64	1,176	1.07	-11.0	NS	NS	NS
	10/9/07	12.52	84.18	6.91	NM	5.33	-306.3	NS	NS	NS
	10/22/07	12.26	84.44	7.91	NM	4.20	-64.1	NS	NS	NS
	11/5/07	12.10	84.60	7.56	NM	2.80	-15.1	NS	NS	NS
	11/19/07	11.82	84.88	7.82	NM	4.07	-69.7	NS	NS	NS
	12/3/07	12.79	83.91	7.31	NM	2.68	-98.1	NS	NS	NS
	12/17/07	11.93	84.77	7.03	NM	2.97	-91.5	NS	NS	NS
	1/2/08	11.40	85.30	6.61	NM	4.95	-96.2	NS	NS	NS
	1/14/08	11.01	85.69	6.60	NM	4.52	-65.7	NS	NS	NS
	1/29/08	11.34	85.36	7.11	NM	5.47	20.9	NS	NS	NS
	2/11/08	11.19	85.51	NM	NM	NM	NM	NS	NS	NS
	3/7/08	9.84	86.86	6.86	1,999	0.16	70.7	NS	NS	NS
	3/11/08	9.36	87.34	6.88	1,601	0.86	-25.0	NS	NS	NS
	5/1/08	10.28	86.42	7.04	1,471	0.52	12.0	NS	NS	NS
	5/27/08	10.63	86.07	NM	NM	NM	NM	NS	NS	NS
	6/4/08	11.01	85.69	6.48	NM	0.29	-28.7	NS	NS	NS
	6/17/08	11.03	85.67	7.22	NM	2.17	-37.3	NS	NS	NS
	7/1/08	10.55	86.15	7.29	NM	0.90	-32.4	NS	NS	NS
	7/9/08	NM	*86.15*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	11.84	84.86	6.81	NM	1.70	19.0	NS	NS	NS
	7/30/08	10.58	86.12	6.55	NM	1.98	-17.8	NS	NS	NS
	8/12/08	10.58	86.12	6.86	NM	0.86	112.4	NS	NS	NS
	8/20/08	11.02	85.68	NM	NM	NM	NM	NS	NS	NS
	8/26/08	10.81	85.89	6.90	NM	1.93	-11.2	NS	NS	NS
	9/9/08	10.74	85.96	6.69	NM	0.72	118.2	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. **Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts	Table 2 Groundwater Geochemical Monitoring Data

Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-12** * 96.15	**1/25/06**	8.64	87.51	6.44	1,207	0.53	-117	NS	NS	NS
	4/10/06	10.60	85.55	6.65	1,436	0.42	14.0	NS	NS	NS
	7/20/06	10.95	85.20	4.19	1,419	0.12	506	15.5	<5.0	15.5
	9/15/06	11.92	84.23	6.60	NM	8.11	-47.5	NS	NS	NS
	9/21/06	11.53	84.62	6.67	NM	9.63	283	NS	NS	NS
	10/6/06	11.35	84.80	7.68	NM	1.24	-22.7	NS	NS	NS
	10/10/06	11.42	84.73	6.58	1,291	0.48	-23.3	NS	NS	NS
	10/23/06	10.79	85.36	5.91	NM	1.46	NM	NS	NS	NS
	11/7/06	10.74	85.41	6.65	NM	5.74	-69.8	NS	NS	NS
	11/20/06	10.15	86.00	6.94	NM	8.77	72.5	NS	NS	NS
	12/4/06	10.58	85.57	7.32	NM	12.13	199.4	NS	NS	NS
	12/18/06	11.04	85.11	6.20	NM	7.52	-3.8	NS	NS	NS
	1/2/07	10.96	85.19	7.29	NM	8.41	-120.8	NS	NS	NS
	1/15/07	10.56	85.59	7.02	NM	8.29	-128.6	NS	NS	NS
	1/25/07	12.55	83.60	6.93	1,500	1.51	9.0	<2.0	<20.0	15.8
	1/29/07	11.74	84.41	7.22	NM	13.75	-94.7	NS	NS	NS
	2/12/07	11.23	84.92	6.95	NM	13.78	-52.9	NS	NS	NS
	2/26/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/26/07	10.42	85.73	7.06	NM	12.40	-89.60	NS	NS	NS
	4/10/07	9.77	86.38	6.76	NM	10.88	-14.00	NS	NS	NS
	4/24/07	8.83	87.32	5.48	1,642	0.30	-57.8	NS	NS	NS
	5/7/07	9.89	86.26	5.93	NM	16.80	-11.9	NS	NS	NS
	5/24/07	10.21	85.94	6.01	NM	13.25	24.3	NS	NS	NS
	6/4/07	10.66	85.49	5.99	NM	12.92	28.4	NS	NS	NS
	6/18/07	10.86	85.29	6.71	NM	12.56	-84.4	NS	NS	NS
	7/3/07	11.27	84.88	7.85	NM	21.14	46.2	NS	NS	NS
	7/16/07	12.54	83.61	7.88	NM	18.24	60.7	NS	NS	NS
	8/1/07	11.47	84.68	6.80	NM	9.79	-59.9	NS	NS	NS
	8/13/07	11.56	84.59	6.35	NM	1.35	-331.1	NS	NS	NS
	8/27/07	11.78	84.37	6.34	NM	8.73	-75.3	NS	NS	NS
	9/10/07	11.87	84.28	7.26	NM	5.96	-68.2	NS	NS	NS
	9/25/07	11.95	84.20	7.23	NM	5.30	-69.9	NS	NS	NS
	10/4/07	12.04	84.66	6.71	1,740	1.11	-86.0	<0.1	10.0	21.3
	10/9/07	12.08	84.62	6.71	NM	4.22	-300.4	NS	NS	NS
	10/22/07	11.82	84.88	7.42	NM	3.31	-40.7	NS	NS	NS
	11/5/07	11.66	85.04	7.47	NM	6.90	-99.2	NS	NS	NS
	11/19/07	11.38	85.32	7.34	NM	2.97	-39.5	NS	NS	NS
	12/3/07	12.87	83.83	7.49	NM	6.95	-111.5	NS	NS	NS
	12/17/07	11.47	85.23	7.49	NM	6.51	-110.1	NS	NS	NS
	1/2/08	10.97	85.73	6.52	NM	6.51	-76.1	NS	NS	NS
	1/14/08	10.59	86.11	6.59	NM	6.01	-71.5	NS	NS	NS
	1/29/08	10.92	85.78	6.85	NM	6.38	16.1	NS	NS	NS
	2/11/08	10.82	85.88	NM	NM	NM	NM	NS	NS	NS
	3/24/08	9.15	87.55	6.75	1,510	0.44	-25	<0.1	2.72	16.3
	5/1/08	9.71	86.99	7.00	1,600	0.35	-29	<0.1	<1.0	6.31
	5/27/08	10.18	86.52	NM	NM	NM	NM	NS	NS	NS
	6/4/08	11.82	84.88	6.67	NM	0.45	-112.2	NS	NS	NS
	6/17/08	10.61	86.09	7.36	NM	0.36	-166.2	NS	NS	NS
	7/1/08	10.62	86.08	7.02	NM	1.66	-75	NS	NS	NS
	7/9/08	NM	*86.08*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	10.96	85.74	6.63	NM	1.18	-62.7	NS	NS	NS
	7/30/08	10.18	86.52	6.48	NM	2.15	-52.3	NS	NS	NS
	8/12/08	10.60	86.10	6.77	NM	0.90	-63.5	NS	NS	NS
	8/20/08	10.67	86.03	NM	NM	NM	NM	NS	NS	NS
	8/26/08	11.02	85.68	6.71	NM	2.02	-52.2	NS	NS	NS
	9/9/08	10.71	85.99	6.80	NM	0.88	-88.1	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. **Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts	Table 2 Groundwater Geochemical Monitoring Data

Monitoring Well & PVC Elevation (ft)	Monitoring Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH (SU)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
ECS-13**	**1/25/06**	NG	NA	NM	NM	NM	NM	NS	NS	NS
97.66	**4/10/06**	12.20	85.46	6.61	246	0.75	-2.0	NS	NS	NS
	7/20/06	12.53	85.13	3.00	890	0.28	543	NS	NS	NS
	9/15/06	10.45	87.21	7.10	NM	9.28	-40.2	NS	NS	NS
	9/21/06	13.11	84.55	7.76	NM	11.94	244	NS	NS	NS
	10/6/06	12.97	84.69	8.19	NM	4.94	-7.6	NS	NS	NS
	10/10/06	13.01	84.65	6.32	533	0.73	14.2	NS	NS	NS
	10/23/06	12.34	85.32	6.40	NM	1.50	NM	NS	NS	NS
	11/7/06	12.31	85.35	6.25	NM	13.45	109.4	NS	NS	NS
	11/20/06	11.72	85.94	6.74	NM	3.33	16.3	NS	NS	NS
	12/4/06	12.18	85.48	7.42	NM	9.57	180.2	NS	NS	NS
	12/18/06	12.62	85.04	6.40	NM	5.97	-13.7	NS	NS	NS
	1/2/07	12.58	85.08	7.29	NM	6.41	-135.4	NS	NS	NS
	1/15/07	12.04	85.62	7.18	NM	6.27	-173.5	NS	NS	NS
	1/25/07	12.18	85.48	7.59	668	1.46	57.0	NS	NS	NS
	1/29/07	12.34	85.32	7.58	NM	12.82	-84.6	NS	NS	NS
	2/12/07	12.83	84.83	7.41	NM	8.54	-59.4	NS	NS	NS
	2/26/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/12/07	NG-S	NA	NM	NM	NM	NM	NS	NS	NS
	3/26/07	12.03	85.63	6.92	NM	14.41	104.50	NS	NS	NS
	4/10/07	11.41	86.25	6.69	NM	13.47	14.60	NS	NS	NS
	4/24/07	10.51	87.15	6.96	685	280.00	-41.3	NS	NS	NS
	5/7/07	11.42	86.24	4.75	NM	15.95	125.6	NS	NS	NS
	5/24/07	11.27	86.39	5.06	NM	14.82	132.7	NS	NS	NS
	6/4/07	12.27	85.39	6.18	NM	11.05	21.8	NS	NS	NS
	6/18/07	12.50	85.16	7.31	NM	14.44	48.1	NS	NS	NS
	7/3/07	12.88	84.78	8.22	NM	12.65	73.3	NS	NS	NS
	7/16/07	12.95	84.71	7.81	NM	12.64	88.1	NS	NS	NS
	8/1/07	13.07	84.59	7.34	NM	24.48	110.5	NS	NS	NS
	8/13/07	13.17	84.49	6.97	NM	10.09	-256.6	NS	NS	NS
	8/27/07	13.39	84.27	6.61	NM	10.78	-111.8	NS	NS	NS
	9/10/07	13.45	84.21	7.73	NM	7.28	-83.8	NS	NS	NS
	9/25/07	13.52	84.14	7.72	NM	7.10	-86.7	NS	NS	NS
	10/4/07	13.64	84.02	7.22	937	0.53	-53.0	NS	NS	NS
	10/9/07	13.67	83.99	6.61	NM	3.41	-268.4	NS	NS	NS
	10/22/07	13.38	84.28	7.52	NM	4.81	-46.2	NS	NS	NS
	11/5/07	13.20	84.46	7.13	NM	8.19	-37.1	NS	NS	NS
	11/19/07	12.92	84.74	7.45	NM	4.02	-45.5	NS	NS	NS
	12/3/07	12.87	84.79	7.07	NM	8.12	-102.4	NS	NS	NS
	12/17/07	13.01	84.65	7.19	NM	7.15	-102.5	NS	NS	NS
	1/2/08	12.54	85.12	6.01	NM	5.10	39.8	NS	NS	NS
	1/14/08	12.06	85.60	6.05	NM	5.04	42.3	NS	NS	NS
	1/29/08	12.53	85.13	7.01	NM	8.13	-11.3	NS	NS	NS
	2/11/08	12.34	85.32	NM	NM	NM	NM	NS	NS	NS
	3/7/08	11.19	86.47	7.19	161	8.81	303	NS	NS	NS
	3/11/08	10.80	86.86	7.27	905	3.52	-39	NS	NS	NS
	5/1/08	11.28	86.38	6.44	1,350	1.00	-7	NS	NS	NS
	5/27/08	10.63	87.03	NM	NM	NM	NM	NS	NS	NS
	6/4/08	12.44	85.22	6.28	NM	4.81	49.1	NS	NS	NS
	6/17/08	12.18	85.48	7.08	NM	7.41	33.8	NS	NS	NS
	7/1/08	12.20	85.46	6.61	NM	0.80	25.1	NS	NS	NS
	7/9/08	NM	*85.46*	NM	NM	NM	NM	NS	NS	NS
	7/14/08	12.56	85.10	6.53	NM	2.29	-18	NS	NS	NS
	7/30/08	11.78	85.88	6.75	NM	2.52	47.2	NS	NS	NS
	8/12/08	12.21	85.45	6.69	NM	1.85	-28.3	NS	NS	NS
	8/20/08	11.49	86.17	NM	NM	NM	NM	NS	NS	NS
	8/26/08	12.65	85.01	6.82	NM	0.96	-62.5	NS	NS	NS
	9/9/08	11.99	85.67	6.72	NM	1.37	-42.7	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event. Italicized GW elevation is estimate

* indicates these wells are sampled for secondary MNA parameters. **Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts				Table 2 Groundwater Geochemical Monitoring Data						
Monitoring Well & PVC Elevation (ft)	**Monitoring Date**	**Depth to Water (ft)**	**Groundwater Elevation (ft)**	**pH (SU)**	**Specific Conductivity (µS/cm)**	**Dissolved Oxygen (mg/L)**	**Redox (mV)**	**Nitrate (mg/L)**	**Sulfate (mg/L)**	**Dissolved Iron (mg/L)**
ECS-14	**4/10/06**	10.00	86.25	6.92	1,310	0.20	4.0	NS	NS	NS
96.25	**7/20/06**	10.31	85.94	NM	NM	NM	NM	NS	NS	NS
	10/10/06	10.79	85.46	NM	NM	NM	NM	NS	NS	NS
	1/25/07	9.87	86.38	NM	NM	NM	NM	NS	NS	NS
	4/24/07	8.51	87.74	NM	NM	NM	NM	NS	NS	NS
	10/4/07	11.35	84.90	6.90	1,720	1.21	-81	NS	NS	NS
	3/7/08	9.13	87.12	6.83	1,698	0.42	16.6	NS	NS	NS
ECS-15	**4/10/06**	10.47	85.98	6.54	1,357	0.97	68.0	NS	NS	NS
96.45	**7/20/06**	10.72	85.73	NM	NM	NM	NM	NS	NS	NS
	10/10/06	11.23	85.22	NM	NM	NM	NM	NS	NS	NS
	1/25/07	10.37	86.08	NM	NM	NM	NM	NS	NS	NS
	4/24/07	8.93	87.52	NM	NM	NM	NM	NS	NS	NS
	10/4/07	11.91	84.54	6.24	1,082	0.90	80	NS	NS	NS
	3/7/08	9.68	86.77	6.61	898	3.06	34.6	NS	NS	NS

NOTES: System shut down between 2/11/08 and 5/26/08

ft = feet; SU = standard units; mS/cm = milliSiemens per centimeter; mg/L = milligrams per liter; mV = millivolts.

NG = Not gauged; NS = Not sampled; NA = Not applicable; NM = Not measured. NG-S= Not gauged due to snow.

97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05. **Bold** date denotes a groundwater sampling event.

* indicates these wells are sampled for secondary MNA parameters. **Wells ECS-2, ECS-3, ECS-4, ECS-8, ECS-11, ECS-12, and ECS-13 are within O2 remediation

O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 3
Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)	Sum VPH (mg/L)
Revised MCP Method 1 Standards*			**GW-2:**	**2000**	**50000**	**20000**	**9000**	**NA**	**1000**	**50000**	**3**	**5**	**7**	
			GW-3:	**10000**	**40000**	**5000**	**5000**	**NA**	**20000**	**50000**	**50**	**50**	**50**	
ECS-1	11/8/99	11.48	85.71	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
97.19	12/19/02	11.60	85.59	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
97.02	9/8/05	11.78	85.38	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
97.16	1/25/06	8.49	88.67	<5.0	<5.0	<5.0	<10	ND	<5.0	6.5	0.263	<0.025	<0.025	
	4/11/06	11.38	85.78	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
	7/20/06	11.72	85.44	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
	10/10/06	12.21	84.95	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	1/25/07	11.34	85.82	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
	4/24/07	9.89	87.27	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	10/4/07	12.74	84.42	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.625
	3/11/08	9.82	87.34	<5.0	<5.0	<5.0	<10	ND	<5.0	8.5	<0.075	<0.025	<0.025	0.625
	5/1/08	11.50	85.66	<5.0	<5.0	<5.0	<10	ND	<5.0	8.5	<0.075	<0.025	<0.025	
ECS-2	11/8/99	12.35	85.41	<100	670	1,600	**7,400**	9,670	260	190	<1.50	<0.500	5.0	5.000
97.76	12/19/02	12.56	85.20	<20	1,000	420	1,920	3,340	34	5,700	0.501	<0.100	0.54	1.041
97.60	9/8/05	12.44	85.16	<5.0	754	463	2,396	3,613	92	3,330	2.35	1.52	3.13	7.000
	11/1/05	10.65	86.95	<50	425	366	1,502	2,293	<50	4,590	2.37	0.44	2.81	5.621
	1/25/06	10.16	87.44	32.2	778	781	3,827	5,418	163	1,970	5.23	1.39	4.31	10.930
	4/10/06	12.09	85.51	42.1	600	1,040	**5,820**	7,502	244	1,590	9.29	3.63	6.64	19.560
	7/20/06	12.42	85.18	<100	670	1,090	**5,460**	7,220	240	31,700	2.70	2.85	4.53	10.080
	10/10/06	12.92	84.68	<50	81.9	232	951	1,265	<50	4,860	<0.750	0.763	1.82	2.583
	1/25/07	12.06	85.54	<10	79.1	139	642	860	29.9	1,180	0.793	0.533	1.01	2.336
	4/24/07	10.39	87.21	<25	114	479	2,113	2,706	81.6	2,080	1.92	1.12	2.39	5.430
	10/4/07	13.50	84.10	8.2	<5.0	247	399	654	66.7	350	1.53	0.544	1.19	3.264
	3/11/08	10.38	87.22	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	0.623	<0.025	<0.025	0.623
	5/1/08	11.13	86.47	<5.0	<5.0	<5.0	7.6	7.6	<5.0	<5.0	1.60	<0.025	0.0477	1.648

NOTES: Depth to water in feet from PVC.
Elevation of PVC in feet.
ft = feet. µg/L = micrograms per liter. mg/L = millograms per liter.
NA = Not applicable/available.
*MCP Method 1 Standards as set forth by 310 CMR 40.0974(2) revised on Feburary 14, 2008.
97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05
Shading indicates value or detection limit exceeds GW-2 standard.
Bolding indicates value or detection limit exceeds GW-3 standard.
D = Duplicate sample.

O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 3
Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)	Sum VPH (mg/L)
Revised MCP Method 1 Standards*			**GW-2:**	**2000**	**50000**	**20000**	**9000**	**NA**	**1000**	**50000**	**3**	**5**	**7**	
			GW-3:	**10000**	**40000**	**5000**	**5000**	**NA**	**20000**	**50000**	**50**	**50**	**50**	
														mg/L
ECS-3	11/8/99	12.58	85.37	<100	10,500	2,700	**12,200**	25,400	370	<100	<1.50	<0.500	9.2	9.20
97.95	12/19/02	12.70	85.25	<100	2,900	1,400	4,900	9,200	100	240	0.594	<0.100	2.22	2.81
97.76	9/8/05	12.65	85.11	55	3,210	3,010	**14,190**	20,465	468	821	15.1	5.5	11.0	31.60
	11/1/05	10.87	86.89	10.2	565	536	2,250	3,361	83	<5.0	2.54	0.13	1.88	4.55
	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	4/11/06	12.34	85.42	145	2,390	3,820	**16,930**	23,285	491	546	27.1	5.35	12.3	44.75
	7/20/06	12.56	85.20	<20	564	744	2,909	4,217	131	70	3.50	2.40	3.15	9.05
	10/10/06	13.17	84.59	15.1	1,110	1,280	**5,570**	7,975	150	<10	2.93	1.23	2.98	7.14
	1/25/07	12.27	85.49	11.3	168	865	3,694	4,738	137	65.6	2.62	0.711	3.02	6.35
	4/24/07	10.62	87.14	<5.0	87.1	112	510	709	14	7.5	0.298	0.169	0.446	0.913
	10/3/07	13.73	84.03	<5.0	<5.0	52.7	131.9	185	8.6	<5.0	0.403	0.115	0.180	0.698
	3/11/08	10.68	87.08	<5.0	29.4	342	618	989	27.6	<5.0	0.812	0.291	0.735	1.838
	5/1/08	11.42	86.34	<50.0	387.0	2,220	**9,180**	11,787	355	<50.0	6.75	2.86	10.00	19.610
ECS-4	11/8/99	11.78	85.28	<5.0	<5.0	340	460	800	20	19	0.42	<0.025	0.45	
97.06	12/19/02	12.45	84.61	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NA	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	
96.75	9/8/05	11.94	84.81	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NA	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	NS (DRY)	
	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	4/10/06	11.51	85.24	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
	7/20/06	11.96	84.79	<5.0	<5.0	<5.0	<10	ND	<5.0	10.9	<0.075	<0.025	<0.025	
	10/10/06	12.43	84.32	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	4/24/07	9.88	86.87	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	
	10/4/07	NM	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/11/08	9.93	86.82	<5.0	<5.0	<5.0	<10	ND	<5.0	29.1	<0.075	<0.025	<0.025	
	5/1/08	10.71	86.04	<5.0	<5.0	<5.0	<10	ND	<5.0	5.6	<0.075	<0.025	<0.025	

NOTES: Depth to water in feet from PVC.
Elevation of PVC in feet.
ft = feet. µg/L = micrograms per liter. mg/L = millograms per liter.
NA = Not applicable/available.
*MCP Method 1 Standards as set forth by 310 CMR 40.0974(2) revised on Feburary 14, 2008.
97.02 = PVC elevations following well repairs on 8/29/05 & 9/1/05
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O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 3 (2 of 4)
Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Groundwater Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)	Sum VPH*1000	LN of O
*Revised MCP Method 1 Standards			GW-2:	2,000	50,000	20,000	9,000	NA	1,000	50,000	3.0	5.0	7.0		
			GW-3:	10,000	40,000	5,000	5,000	NA	20,000	50,000	50.0	50.0	50.0		
ECS-5	11/8/99	12.26	85.47	<20	110	1,400	6,000	7,510	240	<20	1.2	<0.100	5.0	6,200.0	8.732
97.73	12/19/02	12.54	85.19	<5.0	<5.0	70	339	409	12	<5.0	0.105	<0.025	0.404	509.0	6.232
97.56	9/8/05	12.44	85.12	<5.0	5.7	48	208	262	27	<5.0	0.403	0.438	0.948	1,789.0	7.489
	1/25/06	10.22	87.34	<5.0	<5.0	28.7	109	138	20.5	<5.0	0.480	0.414	0.988	1,882.0	7.540
	4/11/06	11.15	86.41	<5.0	<5.0	13.2	52.4	65	10.1	<5.0	0.330	0.336	0.678	1,344.0	7.203
	7/20/06	12.48	85.08	<5.0	<5.0	<5.0	14.6	15	6.2	<5.0	0.187	0.286	0.414	887.0	6.788
	10/10/06	12.98	84.58	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	0.0	
	4/24/07	10.43	87.13	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	0.0	
	10/4/07	13.57	83.99	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	0.0735	73.5	4.297
	3/11/08	10.54	87.02	<5.0	<5.0	9.5	35.7	45.2	7.8	<5.0	0.335	0.156	0.430	921.0	6.825
	5/1/08	11.27	86.29	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS		
														mg/L	ug/L
ECS-6	2/13/03	10.74	85.84	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	0.026	0.026	26	3.258
96.58	9/8/05	11.34	85.00	<20	53	1,170	4,183	5,406	167	<20	4.15	1.90	4.96	11.01	11,010	9.307
96.34	11/1/05	9.57	86.77	<5.0	15.8	172	564	752	41.0	13.4	0.885	0.264	1.37	2.519	2,519	7.832
	1/25/06	9.10	87.24	<10.0	23.3	390	1,029	1,442	45.4	51.8	2.24	0.969	2.17	5.379	5,379	8.590
	1/25/06D	NA	NA	<10.0	14.7	363	962	1,340	57.1	50.2	2.22	1.04	2.12	5.38	5,380	8.590
	4/10/06	11.05	85.29	<5.0	12.6	130	352	495	30.3	<5.0	0.944	0.512	0.985	2.441	2,441	7.800
	7/20/06	11.40	84.94	<5.0	<5.0	<5.0	<15	ND	<5.0	<5.0	0.095	0.049	0.091	0.2352	235	5.460
	7/20/06D	NA	NA	<5.0	<5.0	<5.0	<15	ND	<5.0	<5.0	<0.075	0.045	0.067	0.1116	112	4.715
	10/10/06	11.89	84.45	<5.0	6.4	123	286	415	8.3	26.4	0.380	0.089	0.183	0.6523	652	6.481
	1/25/07	10.99	85.35	<5.0	7.5	172	568.1	748	40.9	128.0	0.653	0.385	1.570	2.608	2,608	7.866
	4/24/07	9.35	86.99	<5.0	<5.0	91	83.2	174	14.7	40.6	0.152	0.109	0.297	0.558	558	6.324
	10/4/07	12.46	83.88	<5.0	<5.0	<5.0	<10.0	ND	<5.0	24.8	0.194	0.0621	0.0638	0.3199	320	5.768
	3/11/08	9.43	86.91	<25	<25	545	2,054	2,599	111.0	376.0	2.38	1.16	2.91	6.45	6,450	8.771835
	5/1/08	10.16	86.18	<25.0	62.5	572	2,789	3,424	98.1	39.5	3.37	2.14	3.71	9.22	9,220	9.129130
ECS-7	2/13/03	10.14	85.83	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
95.97	9/8/05	9.75	85.79	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
95.54	1/25/06	9.05	86.49	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	4/10/06	9.90	85.64	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	7/20/06	9.78	85.76	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	10/10/06	9.96	85.58	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	4/24/07	9.47	86.07	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	10/4/07	10.41	85.13	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	3/11/08	9.24	86.30	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	5/1/08	9.62	85.92	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
ECS-8	2/13/03	11.63	84.09	<5.0	160	1,100	4,400	5,660	120	40	3.6	3.7	3.4			
95.72	9/8/05	10.35	85.08	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
95.43	9/8/05D	NG	NA	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	4/11/06	9.98	85.45	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	7/20/06	10.28	85.15	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	10/10/06	10.81	84.62	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	4/24/07	8.19	87.24	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	10/4/07	11.45	83.98	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	3/11/08	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS			
	3/24/08	8.56	86.87	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			
	5/1/08	9.02	86.41	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025			

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O'Connell Oil/Mobil Station
730 East Street
Pittsfield, Massachusetts

Table 3 (3 of 4)
Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground- water Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)	Sum VPH mg/L
*Revised MCP Method 1 Standards			GW-2:	2,000	50,000	20,000	9,000	NA	1,000	50,000	3.0	5.0	7.0	
			GW-3:	10,000	40,000	5,000	5,000	NA	20,000	50,000	50.0	50.0	50.0	
ECS-9	2/13/03	10.82	84.40	<5.0	<5.0	<5.0	85	85	<5.0	16	0.540	0.240	0.300	1.080
95.22	9/19/05	10.91	84.08	9.6	6.7	60.7	730	807	40.2	831	0.652	0.611	1.41	2.673
94.99	1/25/06	8.38	86.61	<10	12.7	57.9	568	639	26.6	1,090	0.660	0.429	1.11	2.199
	4/11/06	10.33	84.66	<25	<25	98.3	915	1013	47.3	3,970	1.73	0.770	1.53	4.030
	7/20/06	10.72	84.27	<25	<25	51.5	626	678	51.9	1,980	0.913	0.970	1.24	3.123
	10/10/06	11.12	83.87	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	0.000
	1/25/07	10.31	84.68	<10	<10	28.5	336	365	28.8	1,370	0.356	0.522	0.949	1.827
	4/24/07	8.57	86.42	<5.0	5.3	12.6	145	163	15.1	1,540	<0.075	0.262	0.571	0.833
	10/4/07	11.79	83.20	<50	<50	<50	<100	ND	<50	4,260	<0.75	0.399	1.290	1.689
	3/11/08	8.63	86.36	5.6	<5.0	<5.0	38.7	44	11.6	666	<0.075	0.140	0.400	0.540
	5/1/08	9.47	85.52	<5.0	12.7	<5.0	31.9	45	5.0	335	<0.075	0.0523	0.0995	0.152
ECS-10	2/13/03	10.11	85.79	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
95.90	9/8/05	9.59	86.16	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
95.75	1/25/06	8.57	87.18	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
	4/10/06	9.52	86.23	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
	7/20/06	9.42	86.33	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	10/10/06	9.64	86.11	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	4/24/07	8.53	87.22	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	
	10/4/07	10.18	85.57	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
	3/11/08	5.74	90.01	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	0.0625
	5/1/08	8.87	86.88	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025	

NOTES: Depth to water in feet from PVC. Elevation of PVC in feet.

ft = feet. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = Not applicable/available.

MCP Method 1 Standards as set forth by 310 CMR 40.0974(2).

Shading indicates value or detection limit exceeds GW-2 standard.

Bolding indicates value or detection limit exceeds GW-3 standard.

D = Duplicate sample.

O'Connell Oil/Mobil Station
730 East Street
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Table 3 (3 of 4)
Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground- water Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphthalene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)	Sum VPH mg/L
*Revised MCP Method 1 Standards			GW-2:	2,000	50,000	20,000	9,000	NA	1,000	50,000	3.0	5.0	7.0	
			GW-3:	10,000	40,000	5,000	5,000	NA	20,000	50,000	50.0	50.0	50.0	
ECS-11	1/25/06	9.28	87.42	18.0	<10	<10	<30	18.0	12.5	1,040	1.08	0.056	0.059	
96.70	4/10/06	10.94	85.76	<5.0	<5.0	<5.0	<10.0	ND	<5.0	277	0.226	<0.025	0.029	
	7/20/06	11.31	85.39	<5.0	<5.0	<5.0	<10.0	ND	<5.0	243	0.164	<0.025	0.025	
	10/10/06	11.81	84.89	<5.0	<5.0	<5.0	<10.0	ND	<5.0	598	0.261	0.047	0.077	
	1/25/07	10.98	85.72	<5.0	<5.0	<5.0	<10.0	ND	<5.0	359	0.133	<0.025	0.041	
	4/24/07	9.35	87.35	5.8	5.1	<5.0	<10.0	10.9	<5.0	628	0.369	<0.025	0.026	
	10/4/07	12.47	84.23	5	<5.0	<5.0	<10.0	5.0	<5.0	207	0.899	0.124	0.072	
	3/11/08	9.36	87.34	14.5	<5.0	<5.0	<10.0	14.5	6.9	387	0.982	0.029	0.093	
	5/1/08	10.28	86.42	<5.0	5.7	<5.0	<10.0	5.7	13.0	81.4	0.639	0.0685	0.0669	
ECS-12	1/25/06	8.64	87.51	47.0	54.0	1,960	9,690	11,751	399	<20	14.1	6.04	13.6	33.74
96.15	4/10/06	10.60	85.55	<10	37.3	86.6	437	561	98.9	20.9	5.94	6.69	12.9	25.53
	7/20/06	10.95	85.20	<10	32.4	19.9	59	111	53.9	14.7	3.38	4.39	6.60	14.37
	10/10/06	11.42	84.73	<10	33.7	53.0	270	357	69.3	32.2	2.72	3.07	6.17	11.96
	10/10/06D	NA	NA	<10	70.9	53.9	288	412	102	45.9	4.14	3.21	7.13	14.48
	1/25/07	12.55	83.60	<5.0	50	29.8	149.6	229	63.8	17.1	3.22	2.07	3.82	9.11
	1/25/07D	12.55	83.60	<25	40.3	30	147	217	64.5	<25.0	3.03	2.14	4.10	9.27
	4/24/07	8.83	87.32	<10	56.2	18.8	29.7	105	74.6	<10	3.95	1.20	4.31	9.46
	4/24/07D	8.83	87.32	<5.0	33.3	11.7	17.5	62.5	54.5	<5.0	2.06	1.46	2.88	6.4
	10/4/07	12.04	84.11	5.7	<5.0	12.2	30.3	48.2	54	<5.0	2.88	1.44	3.44	7.76
	10/4/07D	12.04	84.11	<5.0	<5.0	10.7	29.9	40.6	46.9	<5.0	2.21	1.10	2.74	6.05
	3/11/08	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS	0
	3/24/08	9.15	87.00	<10	<10	17.1	67.9	85.0	60	<10	2.20	1.76	1.95	5.91
	3/24/08D	9.15	87.00	<10	<10	24.5	78.7	103.2	76	<10	2.39	2.33	2.68	7.40
	5/1/08	9.71	86.44	<25.0	<25.0	43.7	151.3	195.0	96.9	<25.0	2.47	1.58	4.48	8.53
	5/1/08D	9.71	86.44	<25.0	<25.0	29.4	66.5	95.9	87.4	<25.0	2.48	1.48	4.48	8.44

NOTES: Depth to water in feet from PVC. Elevation of PVC in feet.

ft = feet. µg/L = micrograms per liter. mg/L = milligrams per liter. NA = Not applicable/available.

MCP Method 1 Standards as set forth by 310 CMR 40.0974(2).

Shading indicates value or detection limit exceeds GW-2 standard.

Bolding indicates value or detection limit exceeds GW-3 standard.

D = Duplicate sample.

O'Connell Oil/Mobil Station 730 East Street Pittsfield, Massachusetts	Table 3 (4 of 4) Site Monitoring Data

Monitoring Well & Elevation (ft)	Sampling Date	Depth to Water (ft)	Ground-water Elevation (ft)	Benzene (µg/L)	Toluene (ug/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	S BTEX (µg/L)	Naphtha-lene (µg/L)	MtBE (µg/L)	C_5 - C_8 Aliphatics (mg/L)	C_9 - C_{12} Aliphatics (mg/L)	C_9 - C_{10} Aromatics (mg/L)
*Revised MCP Method 1 Standards			GW-2:	2,000	50,000	20,000	9,000	NA	1,000	50,000	3.0	5.0	7.0
			GW-3:	10,000	40,000	5,000	5,000	NA	20,000	50,000	50.0	50.0	50.0
ECS-13	1/25/06	NG	NA	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
97.66	4/10/06	12.20	85.46	77.8	9,600	4,780	**22,430**	36,888	566	342	28.9	5.66	11.0
	7/20/06	12.53	85.13	<5.0	9.2	223	753	985	36.5	<5.0	0.727	0.454	0.809
	10/10/06	13.01	84.65	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025
	1/25/07	12.18	85.48	<5.0	<5.0	<5.0	<10	ND	<5.0	36.3	<0.075	<0.025	<0.025
	4/24/07	10.51	87.15	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	<0.075	<0.025	<0.025
	10/4/07	13.64	84.02	<5.0	11.1	451	206.3	668	33.0	<5.0	0.598	0.434	1.29
	3/11/08	10.80	86.86	<5.0	<5.0	266	22.9	289	11.4	<5.0	0.50	0.345	0.704
	5/1/08	11.28	86.38	<50.0	178.0	2,470	**6,044**	8,692	371	<50	6.00	2.35	7.54
ECS-14	4/10/06	10.00	86.25	<5.0	11.7	<5.0	<15	12	15.2	<5.0	1.22	0.278	0.328
96.25	7/20/06	10.31	85.94	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	10/10/06	10.79	85.46	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/25/07	9.87	86.38	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	4/24/07	8.51	87.74	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	10/4/07	11.35	84.90	7.2	5.0	<5.0	42.8	55	57.6	<5.0	2.32	0.710	1.22
	3/11/08	8.80	87.45	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	5/1/08	9.19	87.06	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
ECS-15	4/10/06	10.47	85.98	<5.0	<5.0	<5.0	<10	ND	<5.0	<5.0	0.307	<0.025	0.032
96.45	7/20/06	10.72	85.73	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	10/10/06	11.23	85.22	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/25/07	10.37	86.08	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	4/24/07	8.93	87.52	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	10/4/07	11.91	84.54	<5.0	<5.0	<5.0	<10	ND	<5.0	52.7	<0.075	<0.025	<0.025
	3/11/08	9.92	86.53	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	5/1/08	9.76	86.69	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS

NOTES: Depth to water in feet from PVC. Elevation of PVC in feet.

ft = feet. µg/L = micrograms per liter. mg/L = millograms per liter. NA = Not applicable/available.

*MCP Method 1 Standards as set forth by 310 CMR 40.0974(2) revised on Feburary 14, 2008.

Shading indicates value or detection limit exceeds GW-2 standard.

Bolding indicates value or detection limit exceeds GW-3 standard.

D = Duplicate sample.

O'Connell Mobil 730 East Street Pittsfield, Massachusetts	Table 4 Quality Assurance/Quality Control (QA/QC) Samples (MADEP VPH Method Revision 1.1) Results/Method Detection Limits [1]					
Sample Location	ECS-12	ECS-12D	RPD (%)	TB	Groundwater Standards[2]	
Sampling Date	5/1/08	5/1/058		5/1/08	GW-2	GW-3
VPH (mg/L)						
C5-C8 Aliphatics	2.47	2.48	0.4	<0.075	3	50
C9-C12 Aliphatics	1.58	1.48	6.5	<0.025	5	50
C9-C10 Aromatics	4.48	4.48	0.0	<0.025	7	50
Targeted VPH Analytes (µg/L)						
Benzene	<25	<25	NA	<5.0	2,000	10,000
Ethylbenzene	43.7	29.4	39.1	<5.0	20,000	5,000
Methyl-tert-butyl ether	<25	<25	NA	<5.0	50,000	50,000
Naphthalene	96.9	87.4	10.3	<5.0	1,000	20,000
Toluene	<25	<25	NA	<5.0	50,000	40,000
m,p-Xylenes	117.0	66.5	55.0	<10.0	9,000 [3]	5,000 [3]
o-Xylene	34.3	<25	NA	<5.0		

NOTES: RPD = Relative Percent Difference.

Shaded indicates concentration exceeds GW-2 standard; bold indicates concentration exceeds GW-3 standard.

[1]Milligrams per liter (mg/L) or micrograms per liter (µg/L) as noted.

[2]MCP Method 1 Groundwater Standards from Table 1, 310 CMR 40.0974(2). Revised 2/14/08

[3]Standards for total xylenes.

Table 5
Decay Rates based on Steady-State Analytical Solution

	Seepage Velocity	Retardation Coefficient	Contaminant Velocity	Dispersivity α	Attenuation Rate (k)	Decay rate λ	% Biodecay λ/k
	ft/day	R	ft/day	ft	%/day	%/day	%
2005 - 2007	0.344	5.75	0.06	9.65	1.85	0.44	24

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Appendix F

Soil Boring/
Well Installation Logs

Date Start/Finish: 11/25/08
Drilling Company: Parratt Wolff
Driller's Name: Joel Runscher
Drilling Method: HSA
Auger Size: 7"
Rig Type: HSA
Sampling Method: 2" x 2' SS

Northing: 534995.6
Easting: 132799.7
Casing Elevation: 1023.47

Borehole Depth: 17.5' bgs
Surface Elevation: D.ZUCK

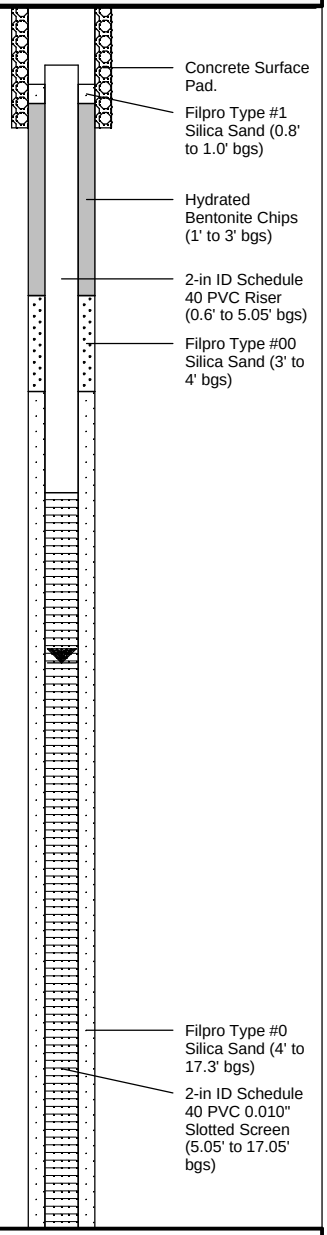
Descriptions By: Dan Zuck

Well/Boring ID: **A7-R**

Client: General Electric

Location: Pittsfield, MA

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0			0-2	NA	NA	NA	0.0 PPM		Solid cement fill.
									Med brown, Silty SAND, few fine pebbles, trace granules 2-3cm, moist
			2-4	NA	NA	NA	0.0 PPM		
	1020	1	4-6	11"	5, 8, 5, 4	NA	0.0 PPM		Med. brown, silty M.-F. (+) sub angular SAND, few L. pebbles, trace C. pebbles, wet, loose
5		2	6-8	5"	5, 6, 9, 13	NA	0.0 PPM		Lt. Brown - Lt. Gray, Silty M- F(+) sub angular SAND, few angular fine pebbles, trace sub rounded large pebbles, stone blocking tip (quartzite), moist, loose Water level BMP 11/26/08
	1015	3	8-10	11"	4, 4, 6, 19	NA	0.0 PPM		0-6": Med. brown, Silty M-F. subangular-subrounded SAND, trace L. pebbles @ 5-6", wet-saturated, loose. 6"-11": solid wood, wet, 4cm VL. pebble stuck in tip.
10		4	10-12	10"	18, 49, 40, 53	NA	0.0 PPM		0-4"; same as 0-6" from 8'-10' core: Med. brown, Silty M-F. subangular-subrounded SAND, trace L. pebbles, wet-saturated, loose. 4-6"; same as 6-11" from 8'-10' core: solid wood, wet 6-10"; Med Gray, Silty (+)sm.-L. sub rounded GRAVEL(pebbles), few M-F. sub angular sand, VL. pebble stuck in tip, saturated, loose
		5	12-14	22"	34, 35, 37, 31	NA	0.0 PPM		0-4"; SAA from 6-10" in 10-12' core, saturated, looks to contain fragments of wood and plastic 4"-22"; Med. brown, f. -c. (pebbles) Gravely SILT, some vf. sands, wet, slight plasticity, stiff - Med. Dense



Remarks: DTW: 6.83 (BMP)
Outer Casing Elevation: 1024.08 (ft AMSL)

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Date Start/Finish: 11/25/08
Drilling Company: Parratt Wolff
Driller's Name: Joel Runscher
Drilling Method: HSA
Auger Size: 7"
Rig Type: HSA
Sampling Method: 2" x 2' SS

Northing: 534995.6
Easting: 132799.7
Casing Elevation: 1023.47

Borehole Depth: 17.5' bgs
Surface Elevation: D.ZUCK

Descriptions By: Dan Zuck

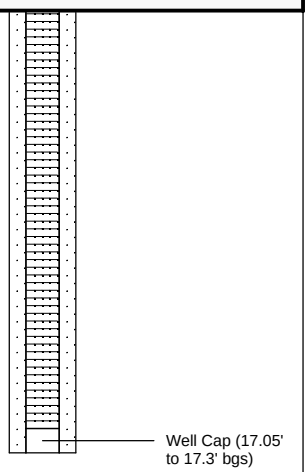
Well/Boring ID: **A7-R**

Client: General Electric

Location: Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blow Counts	N - Value	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
1010	6	14-16	21"	(11, 31, 51, 50/4)	NA	0.0 PPM		0-7"; SAA from 4-22" in 12-14' core, Saturated 7"-16"; Reddish Brown, vf. SAND, few silts, trace C. sub angular sand, wet, med. dense 16"-21"; SAA, Except color is white with yellow tint
15								
	7	16-16.4	4"	REF.	NA	0.0 PPM		0-4"; No positive recovery, slough
					NA	0.0 PPM		0-1"; White, vf. sub angular SAND, some white Sandstone fragments 1cm Diam., trace mica, moist, med. dense, REFUSAL AT 17.6' BLS
	8	17.5-18.5	1"	REF.	NA	0.0 PPM		

Well/Boring Construction



Remarks: DTW: 6.83 (BMP)
Outer Casing Elevation: 1024.08 (ft AMSL)

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