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Transmitted via Overnight Courier

August 29, 2008

Mr. Richard Hull 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 3 (GECD330)

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Dear Mr. Hull:

Enclosed is a report entitled *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008* (Spring 2008 GMA 3 Report). This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) between January and June 2008, including the results of the spring 2008 round of sampling and analysis of groundwater for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area. In addition, certain modifications to the interim monitoring program at GMA 3 are proposed to address recent modifications made by MDEP to the Method 1 groundwater quality standards.

Please contact me if you have any questions or comments.

Ruhad W. Sates D3 for

Sincerely,

Richard W. Gates

Remediation Project Manager

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General Electric Company Pittsfield, Massachusetts

Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

August 2008

Groundwater Management Area 3 – Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

General Electric Company Pittsfield, Massachusetts

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August 2008

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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 soils, 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 areas at and near the GE Pittsfield facility have been divided into five 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 2 GMA, also known and referred to herein as GMA 3.

On April 24, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (GMA 3 Baseline Monitoring Proposal). The GMA 3 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 3 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 3 Baseline Monitoring Proposal by letter of November 21, 2001. Thereafter, certain modifications were made to the GMA 3 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.

Following performance of a limited baseline sampling event in spring 2002, the remainder of the 2002 and 2003 sampling rounds were deferred (with EPA approval) because certain property access issues could not be resolved prior to the scheduled performance of those sampling events. However, GE continued to perform NAPL and groundwater elevation monitoring on an interim basis at all locations for which access was available and collected groundwater samples from one well (78B-R) on a semi-annual basis for analysis of volatile organic compounds (VOCs) and, until fall 2003, PCBs.

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The final property access issues were resolved in February 2004, and, beginning with the spring 2004 sampling event, GE commenced the full semi-annual baseline groundwater quality sampling program at GMA 3. The baseline monitoring program consisted of four semi-annual groundwater quality sampling events (with annual sampling conducted at select wells), quarterly groundwater elevation monitoring, and NAPL monitoring and recovery activities, followed by preparation and submittal of semi-annual reports summarizing the groundwater/NAPL monitoring results, comparing the groundwater results with applicable Performance Standards, and, as appropriate, proposing modifications to the monitoring program. The full monitoring program included sampling and analysis of PCBs, certain non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3), and/or certain constituents (i.e., natural attenuation parameters) to assess intrinsic and natural processes that may be influencing VOC concentrations in groundwater. The fourth baseline monitoring report for GMA 3, titled Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2005 (Fall 2005 GMA 3 Monitoring Report), was submitted to EPA on February 26, 2006.

Section 6.1.3 of Attachment H to the SOW provides that if the two-year baseline period ends prior to the completion of soil-related response actions at all the RAAs within a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 3 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions.

Therefore, as the soil-related Removal Actions at the Unkamet Brook Area RAA within GMA 3 were not yet complete, the Fall 2005 GMA 3 Monitoring Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 3 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the Unkamet Brook Area RAA are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Fall 2005 GMA 3 Monitoring Report by letter dated May 2, 2006 and GE implemented the approved interim monitoring program during the spring 2006 sampling event, which also involved the collection of groundwater samples from certain wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program. Thereafter, certain modifications were made to the GMA 3 interim monitoring program as a result of EPA approval conditions, revisions to the Massachusetts Contingency Plan (MCP) Method 1 groundwater standards, and/or GE's evaluations of results of activities performed during implementation of the interim monitoring program. GE will continue the approved groundwater and NAPL monitoring program until the completion

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of the soil-related Removal Actions at the Unkamet Brook Area RAA. After those soil-related Removal Actions are completed, GE will submit a final baseline monitoring report, including a proposal concerning long-term groundwater quality and NAPL monitoring at GMA 3.

As part of the interim monitoring program for GMA 3, GE is required to submit reports on a semi-annual basis to summarize the groundwater/NAPL monitoring results and related activities and, as appropriate, to propose modifications to the monitoring program. GE's *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Fall 2007* (Fall 2007 GMA 3 Monitoring Report) presented the results of the 2007 annual interim groundwater quality sampling event and the semi-annual groundwater elevation and NAPL monitoring activities performed at this GMA during October and November 2007, as well as other routine groundwater elevation and NAPL monitoring/recovery activities performed between July and December 2007. That report also summarized the results of building inspections and subsurface soil gas and indoor air monitoring conducted beneath and within Buildings 51 and 59. The Fall 2007 GMA 3 Monitoring Report was conditionally approved by EPA by letter dated April 23, 2008.

The results of groundwater sampling activities performed at GMA 3 during May 2008, as well as other routine groundwater elevation and NAPL monitoring/recovery activities performed at this GMA between January and June 2008 (henceforth referred to as Spring 2008) are provided in this *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008* (Spring 2008 GMA 3 Monitoring Report).

The current GMA 3 groundwater sampling program is summarized in Table 1, while the groundwater elevation/NAPL monitoring program is summarized in Table 2. The locations of the monitoring wells utilized in spring 2008 are provided on Figure 2.

1.2 Background Information

1.2.1 GMA Description

GMA 3 encompasses the portion of the Unkamet Brook Area (as defined in the CD and SOW) located to the east of Plastics Avenue, and occupies an area of approximately 103 acres (as shown on Figures 1 and 2). This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located

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west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped except for the area associated with Building OP-3 and the commercial area along Merrill Road.

Several well pairs or closely-spaced shallow and deep well clusters have been installed within GMA 3. The approximate depth of a well in a cluster can be identified by the letter contained in the well name (e.g., cluster 39 contains wells 39A, 39B-R, 39D-R, and 39E) which represents the well series, specifically:

- A-series wells are generally screened approximately 45 to 50 feet below ground surface (bgs);
- B-series wells are generally screened at or near the water table, approximately 15 to 25 feet bgs;
- C-series wells are generally screened approximately 95 to 100 feet bgs;
- D-series wells are generally screened approximately 70 to 75 feet bgs; and
- E-series wells are generally screened at depths greater than 150 feet bgs.

Most of the GMA 3 well clusters consist of an A-series well paired with a B-series well, and sometimes one or more of the deeper series wells. In addition, there are individual wells installed at the RAA which were completed based on proposals by GE or in response to EPA requirements. The specifications of the wells monitored at GMA 3 in spring 2008 are listed in Table 3. Prior monitoring data from the well clusters has indicated that the vertical component of the hydraulic gradient is variable at GMA 3. In general, groundwater flows downward in the northern part of the GMA, moves laterally across the central areas, and rises to the south, near the Housatonic River.

Groundwater at GMA 3 generally flows in a southeasterly direction toward the Housatonic River, usually with a pattern that mimics the existing topography. However, localized variations in the flow direction exist due to fill materials used beneath building foundations in the GE Plastics area and the presence of Unkamet Brook. The subsurface conditions across GMA 3 are illustrated on cross-sections A-A' and B-B', presented as Figures 3 and 4, respectively. The locations of these cross-sections are provided on Figure 2. Figure 5 illustrates groundwater elevations and flow direction using data collected during the spring 2008 monitoring round. The horizontal hydraulic gradients are somewhat variable within GMA 3, but generally decrease toward the Housatonic River, corresponding to a flattening in the ground surface topography.

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The presence of NAPL in this area has been documented in prior GE reports. NAPL has been observed near Building 59 in coarse gravel that was assumed to be fill material for the foundation of that building. NAPL also has been observed in the vicinity of Building 51. That NAPL may have originated from underground storage tanks located on the northeast side of that building. Previous investigations have identified the NAPL as a light non-aqueous phase liquid (LNAPL) in the soil at and above the groundwater table interface. The LNAPL observed east of Building 51 has been analyzed and determined to be composed of multiple constituents, including PCBs, polynuclear aromatic hydrocarbons (PAHs), ethylbenzene, xylenes, 1,2,4-trichlorobenzene, and 1,4-dichlorobenzene, among other constituents.

Distribution of the LNAPL has been confined to the vicinity of Buildings 51 and 59, along the western boundary of the GMA, due primarily to: (a) the generally low hydraulic gradients in this area; (b) the difference in grain size between the coarse fill materials near and beneath the buildings and the grain size of the surrounding native soils; (c) an apparent groundwater mound present between Buildings 59 and 119, to the south of the NAPL area; and (d) the ongoing LNAPL recovery efforts (both automated and manual) conducted by GE. Prior to spring 2007, dense non-aqueous phase liquid (DNAPL) had not been encountered within any of the monitoring wells within GMA 3. However, DNAPL was observed on one occasion in a single monitoring well located to the south of the former interior landfill. Locations where NAPL has been previously documented are shown on Figure 6. The extent of NAPL observed in spring 2008 is illustrated on Figure 7. A discussion of the current extent of NAPL and the results of NAPL monitoring and recovery activities is provided in Section 3.3.

1.2.2 Interim Monitoring Program

As discussed in Section 1.1, the CD and the SOW provide the framework for the performance of groundwater-related activities at a number of GMAs, including the implementation of groundwater monitoring, assessment, and recovery programs. In general, these programs consist of a baseline monitoring program conducted over a period of at least two years to establish existing groundwater conditions and a long-term monitoring program performed to assess groundwater conditions over time and to verify the attainment of the Performance Standards for groundwater. The baseline monitoring program was to be initiated at GMA 3 in the spring of 2002, but, as discussed above, access issues prevented performance of the full baseline monitoring program until spring 2004. The fall 2005 sampling event constituted the fourth baseline sampling event at the majority of the wells in GMA 3. The baseline sampling program was concluded at the remaining wells with the spring 2006 sampling event.

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Beginning in spring 2006, as approved by EPA, an interim groundwater quality monitoring program was initiated, consisting of annual sampling (in the spring season) for the analysis of VOCs and natural attenuation parameters at 22 monitoring wells, plus annual sampling (alternating between the spring and fall seasons) for the analysis of VOCs at one additional well. Since the spring 2006 groundwater sampling event, GE has presented the results of each sampling event in interim groundwater quality and NAPL 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 1 of EPA's April 23, 2008 conditional approval letter, this report discusses the revised standards, evaluates their implications on the interim groundwater quality monitoring program, and proposes further modifications to that program in response to those new standards.

1.2.3 NAPL Monitoring Program

In addition to the wells that were sampled during the baseline monitoring period (each of which continues to be monitored for groundwater elevations on a semi-annual basis during the interim monitoring period), 27 monitoring wells are routinely monitored for groundwater elevation and the presence of NAPL on an established weekly, monthly, quarterly, or semi-annual schedule, as summarized in Table 2. The well locations are shown on Figure 2.

1.2.4 Format of Document

The remainder of this report is presented in five sections. Section 2 describes the groundwater- and NAPL-related activities performed at GMA 3 in spring 2008. Section 3 presents the analytical results obtained during the spring 2008 sampling event performed in April and May 2008. Section 4 provides a summary of the applicable groundwater quality and NAPL-related Performance Standards under the CD and SOW and provides an assessment of the results of the spring 2008 activities, including comparisons to the Performance Standards and the Upper Concentration Limits (UCLs) for groundwater, and an evaluation of the spring 2008 NAPL monitoring/recovery results. Section 5 presents GE's discussion of the implications of new and revised MDEP groundwater quality standards on the interim monitoring program and proposes certain modifications to that program. Finally, Section 6 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3.

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2. Field and Analytical Procedures

2.1 General

The activities conducted at GMA 3 during spring 2008 included measurement of groundwater elevations/NAPL levels, manual and automated removal of LNAPL, and the collection and analysis of groundwater samples at select monitoring wells within GMA 3, as described on Tables 1 and 2, and depicted on Figure 2. This section discusses the field procedures used to conduct those field activities and 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 Groundwater Elevation Monitoring

The spring 2008 semi-annual groundwater elevation monitoring round was performed between April 15 and 16, 2008. This activity involved the collection of groundwater level data at the locations listed in Table 4. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The groundwater elevation data presented in Table 4 from wells screened across or near the water table were used to prepare a groundwater elevation contour map for spring 2008 (Figure 5). A summary of all groundwater elevation data collected in spring 2008 is provided in Appendix A.

The spring 2008 groundwater elevations were, on average, approximately 0.14 feet lower than the elevations measured during the prior spring monitoring round in 2007 at water table monitoring locations measured during both monitoring events. Consistent with prior data, groundwater was found to generally flow toward the Housatonic River, with some localized variations in the vicinity of Buildings 51 and 59.

As directed by Condition No. 3 of EPA's April 23, 2008 conditional approval letter for the Fall 2007 GMA 3 Report, GE investigated the condition of monitoring wells 51-7, 51-9, 51-13, and 59-1 which were dry during the fall 2007 monitoring event. Three of these monitoring wells (51-7, 51-9 and 59-1) were found to contain water in spring 2008, while monitoring well 51-13 remained dry. An inspection of the four wells was performed during the spring 2008 monitoring event and each monitoring well was found to contain excess sediment build-ups at the base of the well. That sedimentation was above low water table levels typically encountered in the fall, but below the higher spring groundwater levels (with the exception of well 51-13). To address this situation, GE will re-develop each of these wells to remove the excess sediment prior to the fall 2008 monitoring round.

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2.3 LNAPL Monitoring and Recovery

This section describes the results of the LNAPL monitoring and recovery activities performed by GE within GMA 3 from January through June 2008, including the April 2008 semi-annual monitoring event and other routine and non-routine monitoring/recovery activities conducted during that period. These activities primarily include the operation of the automated LNAPL recovery systems at wells 51-21 and GMA3-17, the routine measurement of groundwater elevations and NAPL thickness (if present), and the manual removal of NAPL if sufficient thickness is present. All activities were performed in accordance with GE's approved FSP/QAPP.

Approximately three weeks prior to the semi-annual monitoring event, GE performed a bailing round involving the monitoring of all wells where the presence of NAPL was noted during the prior year and manual removal of any NAPL that was present. The purpose of these bailing rounds is to ensure that any NAPL present in a well is also present in the surrounding formation and not remnant oil which may have been trapped in the well since the prior removal event. These bailing round activities provide a consistent basis to compare the current presence and thickness of NAPL between wells that may otherwise be subject to varying NAPL removal schedules.

Routine NAPL monitoring was conducted at the monitoring wells listed in Table 2 on a semi-annual, quarterly, monthly, and/or weekly basis. Table 5 summarizes the overall spring 2008 NAPL monitoring and manual removal data on a well-by-well basis and Table A-1 in Appendix A presents all of the spring 2008 NAPL measurements and removal quantities (when performed) for each well at GMA 3. A month-by-month summary of the LNAPL volume removed by the automated recovery systems in spring 2008 is provided in Table 6. Approximately 31.4 gallons of LNAPL were recovery between January and June 2008 at GMA 3. Approximately 90% of this total was removed by the automated skimmer system at wells 51-21 (12.8 gallons) and the new skimmer system at well GMA 3-17 (14.5 gallons), and the remainder was manually recovered during routine monitoring rounds. Since 1997, approximately 1,449 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

DNAPL was observed at monitoring well GMA3-16 during the spring 2007 monitoring event, which was conducted shortly after installation of this well, and approximately 0.01 gallons of DNAPL was manually removed at that time. No DNAPL has been observed in that well, or any other wells within GMA 3, since that initial and isolated observation in well GMA3-16.

Figure 6 depicts the historical maximum extent of NAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of NAPL that has been observed and documented in prior GE reports, and is not indicative of

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current conditions. Figure 7 indicates the extent of NAPL observed during the semi-annual monitoring event conducted at GMA 3 in spring 2008. As shown on Figures 6 and 7, the northern (upgradient) extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities conducted in this area.

2.4 Groundwater Sampling and Analysis

The spring 2008 interim sampling event was performed between April 30, 2008 and May 15, 2008 at 25 monitoring wells, 22 of which were sampled as part of GE's ongoing natural attenuation assessment. Low-flow sampling techniques using either a bladder or peristaltic pump were utilized for the purging and collection of groundwater samples during this sampling event. The specific sampling method utilized, as well as a summary of any observations made during sampling are listed on the field sampling records contained in Appendix C. Field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured during purging and immediately prior to sampling at all monitoring wells. Each monitoring well that was sampled was purged until field parameters stabilized prior to sample collection. The stabilized field parameters are summarized in Table 7. A general summary of the stabilized field measurement results recorded during the spring 2008 monitoring event is provided below:

Parameter	Units	Range of Stabilized Readings
Turbidity	Nephelometric turbidity units	0 to 27
рН	pH units	6.29 to 8.57
Specific Conductivity	Millisiemens per centimeter	0.244 to 5.503
Oxidation-Reduction Potential	Millivolts	-264.80 to 136.50
Dissolved Oxygen	Milligrams per liter	0.47 to 6.51
Temperature	Degrees Celsius	6.43 to 14.99

As shown above and in Table 7 for this sampling event, none of the groundwater samples extracted from the monitoring wells had turbidity levels greater than the target level of 50 NTU upon stabilization. These results indicate that the sampling and measurement procedures utilized during this sampling event were effective in obtaining groundwater samples with low turbidity.

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The groundwater samples were submitted to SGS Environmental Services of Wilmington, North Carolina for laboratory analysis. Groundwater samples collected from the interim monitoring locations were submitted for analysis of VOCs using EPA Method 8260B and/or for PCB analysis (filtered samples) using EPA Method 8082. The groundwater quality samples collected from wells sampled for natural attenuation parameters were submitted for analysis of VOCs using Method 8260B, and for the following additional parameters using the associated EPA Methods:

Parameter	EPA Method
Alkalinity (total)	310
Chloride	325
Dissolved Organic Carbon	360
Ethane, Ethene, Methane	8319
Iron	6000
Nitrate Nitrogen	353.1
Nitrite Nitrogen	354.1
Sulfate (turbidimetric)	375

Select natural attenuation samples were also analyzed for two SVOCs that are breakdown byproducts of chlorobenzene (2-chlorophenol and 4-chlorophenol), using EPA Method 8270C.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the 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 spring 2008 analytical results were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. As discussed in the data validation report provided as Appendix D, 99.9% of the spring 2008 groundwater quality data are considered to be useable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. The SVOC, PCB, and natural attenuation parameter sample results were found to be 100% usable. VOC sample results were found to be 99.9% usable. The only rejected datum was one VOCs sample result from well 16B-R, where the 2-chloroethylvinylether result was rejected due to MS/MSD recovery deviations. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

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3. Groundwater Analytical Results

3.1 General

This section presents a description of the spring 2008 groundwater analytical results. Tables 8 and 9 provide a comparison of the concentrations of detected constituents with the applicable GW-2 and GW-3 groundwater quality Performance Standards established pursuant to the CD and SOW (for wells where those respective standards apply), while Table 10 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater (for all wells sampled in spring 2008). Table 11 provides a summary of the detected VOCs and natural attenuation parameters at the wells monitored for indications of natural attenuation processes. Table E-1 in Appendix E provides the complete analytical data set (constituents detected and not detected) for the groundwater samples analyzed during this sampling event. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.2 Groundwater Quality Results

3.2.1 VOC Results

Groundwater samples from 24 monitoring wells were analyzed for VOCs during the spring 2008 sampling event. The VOC analytical results are summarized in Table 10 (for constituents detected in one or more groundwater sample) and Table E-1 within Appendix E (for all constituents analyzed). VOCs were not detected above laboratory detection limits in six of the groundwater samples (from monitoring wells 16C-R, 90A, 90B, 111B-R, 115A, and 115B), while up to 11 individual VOCs were observed in one or more of the remaining 18 samples. The most commonly observed VOCs were chlorobenzene (detected in 14 wells) and benzene (detected in 10 wells). Where detected, total VOC concentrations ranged from an estimated concentration of 0.00015 parts per million (ppm) in natural attenuation monitoring well 111A-R to an estimated concentration of 130 ppm in natural attenuation monitoring well 2A.

3.2.2 PCB Results

Filtered groundwater samples from three monitoring wells were analyzed for PCBs as part of the spring 2008 sampling event. The PCB analytical results are summarized in Table E-1 of Appendix E. PCBs were not detected in any of the three groundwater samples.

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3.2.3 SVOC Results

Groundwater samples from six natural attenuation monitoring wells were analyzed for select SVOCs (i.e., 2-chlorophenol and 4-chlorophenol) in spring 2008 using EPA Method 8270C. The SVOC analytical results for the constituents analyzed are summarized in Table 10 and Table E-1 within Appendix E. The constituent 2-chlorophenol was observed in a single well (16A) at a concentration of 0.022 ppm. The constituent 4-chlorophenol was detected in the same well at a concentration of 0.062 ppm.

The groundwater sample collected from natural attenuation monitoring well 39B-R was also intended to be analyzed for 2-chlorophenol and 4-chlorophenol. However, this sample was inadvertently analyzed for all SVOCs typically analyzed by EPA Method 8270, which includes 2-chlorophenol, but not 4-chlorophenol. These SVOC analytical results are also summarized in Table 10 and Table E-1 of Appendix E. Five SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, naphthalene, and phenol) were detected in the sample from well 39B-R.

3.2.4 Natural Attenuation Monitoring Results

Groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters as part of the spring 2008 interim sampling event. The analytical results for these parameters (along with any detected VOCs or SVOCs) are provided in Table 11 and Table E-1 within Appendix E. A summary of the natural attenuation sampling results is provided below:

Parameter	Number Of Detects	Result Range (ppm)
Alkalinity	22	87 to 580
Chloride	21	ND to 1,900
Dissolved Organic Carbon	19	0.66 to 32.9
Ethane	0	ND
Ethene	2	ND to 0.76
Dissolved Iron	13	ND to 3.68
Methane	15	ND to 10.9
Nitrate (Nitrogen)	4	ND to 4.29
Nitrite (Nitrogen)	0	ND
Sulfate (turbidimetric)	19	ND to 169

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4. Assessment of Results

4.1 General

The information presented herein is based on the field monitoring and laboratory results obtained during spring 2008 monitoring period, supplemented with historical data when applicable. This section discusses the groundwater quality Performance Standards, NAPL-related Performance Standards and the results of the interim groundwater sampling event and NAPL monitoring and recovery program at GMA 3 in spring 2008.

4.2 Performance Standards

4.2.1 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 3 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 3 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the
 indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet
 of an existing occupied building and has an average annual depth below ground
 surface of 15 feet or less. Under the MCP, volatile constituents present within GW-2
 groundwater represent a potential source of organic vapors to the indoor air of the
 overlying occupied structures.
- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water. In accordance with the CD and SOW, all groundwater at GMA 3 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 3. The current MCP

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Method 1 GW-2 and GW-3 standards for the constituents detected in the spring 2008 sampling event are listed in Tables 8 and 9, respectively. For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

On February 14, 2008 MDEP implemented revised Method 1 numerical standards for a number of constituents in groundwater, and this report constitutes the first report at this GMA for which those standards will be applied. 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. As such, although neither metal was analyzed for in any of the samples collected during this sampling event, GE has utilized those Method 2 standards in its evaluation of whether there is any need for additional monitoring for those constituents.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 3 consist of the following:

- 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); or

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- (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 3 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 2.4, only selected wells were sampled in spring 2008, including a number of wells designated as natural attenuation monitoring wells, which are used to evaluate natural attenuation mechanisms in groundwater. In addition to the Performance Standards described above, analytical results from all groundwater monitoring wells sampled during the spring 2008 sampling event were compared to the MCP UCLs for groundwater.

4.2.2 NAPL-Related Performance Standards

Under the CD and SOW, GE is required to perform monitoring, recovery, assessment, and other response activities related to NAPL until the applicable NAPL-related Performance Standards are ultimately achieved. The NAPL-related Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.0) of the SOW. They consist of the following:

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- 1. Containment, defined as no discharge of NAPL to surface waters and/or sediments, which shall include no sheens on surface water and no bank seeps of NAPL.
- 2. For areas near surface waters in which there is no physical containment barrier between the wells and the surface water, elimination of measurable NAPL (i.e., detectable with an oil/water interface probe) in wells near the surface water bank that could potentially discharge NAPL into the surface water, in order to prevent such discharge and assist in achieving groundwater quality Performance Standards.
- 3. For areas adjacent to physical containment barriers, prevention of any measurable LNAPL migration around the ends of the physical containment barriers.
- 4. For NAPL areas not located adjacent to surface waters, reduction in the amount of measurable NAPL to levels which eliminate the potential for NAPL migration toward surface water discharge areas or beyond GMA boundaries, and which assist in achieving groundwater quality Performance Standards.
- 5. For NAPL detected in wells designed to assess GW-2 groundwater (i.e., located at average depths of 15 feet or less from the ground surface and within a horizontal distance of 30 feet from an existing occupied building), a demonstration that constituents in the NAPL do not pose an unacceptable risk to occupants of such building via volatilization and transport to the indoor air of such building. Such demonstration may include assessment activities such as: NAPL sampling, soil gas sampling, desk-top modeling of potential volatilization of chemicals from the NAPL (or associated groundwater) to the indoor air of the nearby occupied buildings, or sampling of the indoor air of such buildings. If necessary, GE shall propose corrective actions, including, but not limited to, containment, recovery, or treatment of NAPL and impacted groundwater.

In addition to these Performance Standards, GE has developed and implemented site-wide criteria for NAPL monitoring and manual recovery requirements, standard procedures for assessment of new NAPL occurrences, and the feasibility of the installation of new recovery systems. Those guidelines, which have been incorporated into GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP), are described below.

4.2.3 Manual NAPL Removal Criteria

During routine NAPL monitoring/removal activities at select GE monitoring wells, LNAPL accumulations observed in excess of 0.25 feet are manually removed at the time of monitoring. For DNAPL, accumulations in excess of 0.5 feet are manually removed. Exceptions to these criteria are in place for certain wells that are located either upgradient

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of sensitive receptors (i.e., any measurable quantities of NAPL are manually removed) or within the capture zone of automated recovery systems (i.e., no NAPL is manually removed). Any exception to the standard NAPL removal criteria applicable to a given well is shown in Table 2.

These manual removal criteria apply only during routine NAPL monitoring program events (i.e., weekly, monthly, and quarterly). No NAPL removal is required at wells monitored for other reasons between routine monitoring events (e.g., during well inventory inspections, or other non-routine data gathering activities) or in connection with GE's semi-annual NAPL monitoring round during the spring and fall quarterly monitoring events (due to the performance of a bailing round, as discussed below).

Approximately 1 to 2 weeks prior to the spring and fall semi-annual monitoring events, all wells where the presence of NAPL was observed during the prior year are monitored and any recoverable thicknesses of NAPL are manually removed (i.e., the bailing round). For those wells where NAPL was present, after allowing time for NAPL to return, the wells are monitored again as part of the semi-annual monitoring event and the data obtained are utilized to estimate the current thickness of LNAPL in the area. Due to the large number of wells included in the semi-annual monitoring program, and the desire to collect the groundwater elevation data from all wells in the same relative time period so as to provide a more accurate account of flow conditions, no manual removal of NAPL from monitoring wells is required during the actual semi-annual data collection event (i.e., the monitoring round) for those wells from which NAPL had been removed in the bailing round. The purpose for performing the bailing and monitoring rounds is to confirm that the NAPL present in a well is representative of the surrounding formation and does not reflect remnant oil that may have accumulated in the well since the last manual removal. This uniform removal procedure also provides a consistent basis for comparison of data with future NAPL monitoring data.

If a measurable thickness of NAPL is observed during the spring or fall semi-annual monitoring event in a well that was not addressed during the bailing round, the NAPL is manually removed and the well is again monitored after approximately one week to gauge the NAPL thickness. The information obtained during that supplemental monitoring round is utilized in GE's assessment of the seasonal extent of NAPL.

4.2.4 Assessment of New NAPL Observations

This section describes the process utilized to investigate new or anomalous NAPL observations. Such observations may include either instrument detection of NAPL at a new location or detection of a type of NAPL not typically associated with a particular well (e.g., if

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DNAPL was observed in a monitoring well where LNAPL is typically observed). This process generally includes the following steps:

- Confirmation that NAPL is actually present at the well by bailing or pumping the well to verify that an instrument error did not occur. Additionally, the NAPL will be physically observed in a jar to visually assess its relative density compared to water.
- 2. The GE Project Manager is notified of the new NAPL occurrence. The GE Project Manager will then arrange to make any required federal or state Agency notifications, as appropriate.
- 3. Initially, the monitoring frequency at the well will be modified to at least once per week for a period of at least one month, and any observed NAPL will be removed. If additional wells are located in the vicinity and screened at the appropriate interval, they will also be monitored for NAPL presence.
- 4. Based on the results of Steps 1 and 3 above, GE may recommend that: a) the well be further evaluated for the potential installation of an automated recovery system; b) additional soil borings/monitoring wells be installed in the vicinity; or c) enhanced NAPL monitoring/ recovery activities be implemented.

After completion of these initial assessment activities, monitoring and manual NAPL recovery (if NAPL thicknesses exceed the standard manual removal criteria) activities will revert to their normal intervals (unless more frequent monitoring is recommended), pending Agency approval of any recommendation made by GE.

4.2.5 Criteria for Installation of Automated Recovery Systems

To aid in the assessment of whether additional automated recovery systems are necessary and feasible at a given location where NAPL is present, several key factors should be considered, specifically:

- The presence of other nearby active NAPL recovery systems;
- Quantity of NAPL available (on a continuing basis) to be recovered;
- Migration potential of the NAPL (considering historical monitoring data and capture areas of existing recovery systems); and
- Technical feasibility and practicality of installing an automated recovery system.

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Each of these factors is discussed in more detail below.

If there are already active NAPL recovery systems operating nearby, an assessment must be made as to whether the NAPL area in question will be addressed by the existing system. Additional automated recovery systems are generally not required for NAPL areas that are within the capture zone of an operating active recovery system or positioned upgradient of it, such that the NAPL will ultimately be addressed by the existing recovery system.

If the NAPL area is not already addressed by an existing system, it must be confirmed whether sufficient quantities of NAPL are moving into a well to justify the potential installation of a recovery system. This determination is made through the performance of a NAPL recovery test conducted over a 2- to 3-day period. NAPL is manually removed from the well, initially on an hourly basis, and the amount of NAPL returning to the well between each removal interval is measured and recorded. Depending on the recovery rate, the time intervals of manual removal during the recovery test may be increased or decreased from the initial hourly interval. If the average NAPL quantity that returns to the well over the duration of the test is significant (e.g., greater than 0.5 liter per hour, or greater than 6 to 12 inches per hour in a 2-inch well), the location may be deemed a potential candidate for an automated recovery system based on NAPL quantity. NAPL samples may also be collected during this test and analyzed for chemical and/or physical parameters if such data do not already exist for the NAPL area in question. Physical testing will include specific gravity and viscosity. If warranted, interfacial tension may also be measured.

If it is determined that sufficient NAPL is potentially present, a more detailed analysis of NAPL migration potential is necessary to confirm whether operation of an automated recovery system is appropriate to address the NAPL occurrence and to obtain sufficient information to design such a system. This phase of the evaluation process will vary based on area-specific considerations, but will generally include:

- Assessment of the NAPL physical and chemical properties to assess the migration potential of the NAPL and to aid in selection of pumping equipment and disposal options.
- Assessment of factors that might limit NAPL migration, such as viscosity of the NAPL, soil types, hydraulic factors, and/or presence of existing physical containment barriers. NAPLs with limited potential to migrate offsite or toward surface water bodies may be more appropriately addressed through other measures, such as an enhanced manual removal program.

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Evaluation of potential migration pathways of the NAPL. This evaluation may include
the installation and monitoring of sentinel wells (if none already exist) downgradient of
the NAPL area. In some cases, installation of an automated recovery system may be
deferred until downgradient migration of NAPL can be further assessed by routine
monitoring of sentinel wells.

Finally, if after completion of the above evaluations it is determined that additional responses to the presence of NAPL are necessary, the physical characteristics of the area where the system would be located must be taken into consideration, as installation of a recovery system may not be practical in some areas. A generalized automated recovery system will involve a recovery well equipped with NAPL and/or groundwater removal pumps, a holding tank or vessel for the NAPL that is removed, and either piping to route purged groundwater to GE's treatment facility or a large holding tank to store groundwater for disposal (which would need to be accessible to a tanker truck). Some locations may not allow for the placement of these items due to physical or property ownership constraints. In those cases, it may be necessary to implement alternative response actions, such as increased manual monitoring/removal.

4.3 Groundwater Quality - Spring 2008

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the spring 2008 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 3. These Performance Standards are described in Section 4.2.1 above, and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the spring 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 8 and 9 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 10 presents a comparison of the concentrations of detected constituents with the groundwater UCLs.

4.3.1 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were collected from two designated GW-2 monitoring wells (i.e., wells 16B-R and 51-14) in spring 2008. The spring 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 8. None of the spring 2008 sample results from GW-2 monitoring wells 16B-R or 51-14 exceeded the GW-2 standards and total VOC concentrations were well below 5 ppm (the level specified in the SOW as a notification level for GW-2 wells within 30 feet of a school or

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occupied residential structure and as a trigger level for the proposal of interim response actions).

4.3.2 Groundwater Results Relative to GW-3 Performance Standards

A total of seven monitoring wells at GMA 3 designated as GW-3 monitoring points (i.e., wells 6B-R, 82B-R, 89B, 90B, 95B-R, 111B-R, and 114B-R) were sampled in spring 2008. The spring 2008 groundwater analytical results for all detected constituents and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 9. As shown in Table 9, the GW-3 standard for chlorobenzene (1 ppm) was exceeded at three wells (6B-R, 95B-R, and 114 B-R) at concentrations of 2.5 ppm, 10.2 ppm and 1.4 ppm, respectively. It should be noted that the MCP GW-3 standard for PCBs was increased from 0.0003 ppm to 0.01 ppm as part of the February 14, 2008 revisions. Although no PCBs were detected in any filtered samples analyzed in spring 2008, all prior results from GMA 3 that were recorded as exceedances of the prior standard are below the new standard of 0.01 ppm.

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed Method 1 GW-3 standards at downgradient perimeter monitoring wells, in which: (a) such an exceedence had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

For the three wells where the Method 1 GW-3 standards for chlorobenzene was exceeded (6B-R, 95B-R and 114B-R), historical VOC data has shown similar or greater concentrations than those detected during spring 2008. In addition, these wells are located in the vicinity of a known chlorobenzene plume. Therefore, GE's proposed response action to address these exceedances is to continue the natural attenuation monitoring program at these locations, as discussed further in Section 5 below.

4.3.3 Groundwater Results Relative to Upper Concentration Limits

In addition to comparing the spring 2008 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, all detected constituents have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)), as presented in Table 10. The results shown on Table 10 indicate that one constituent

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(chlorobenzene) was detected at levels above the applicable UCL. The UCL for chlorobenzene is 10 ppm, which was exceeded at natural attenuation wells 2A (77 ppm [97 ppm in the duplicate sample]), 16A (37 ppm), 39B-R (16 ppm), 89A (26 ppm), 89D-R (32 ppm), and 95B-R (10.2 ppm). Similar or higher chlorobenzene concentrations have previously been detected at all of these locations. Additionally, with the exception of well 95B-R, the UCL has also been previously exceeded at these locations. The spring 2008 concentration at well 95B-R (10.2 ppm) slightly exceeded the UCL (10 ppm) and the fall 2007 concentration (9.7 ppm). EPA and MDEP were informed of the new UCL exceedance at well 95B-R on May 29, 2008.

The screened intervals of three of these six wells are positioned at depths of approximately 50 feet bgs, indicating that the elevated chlorobenzene levels are associated with the midlevel groundwater unit, which is consistent with prior investigation results showing that the VOC plume is primarily present in the A-series wells to the south of the former Waste Stabilization Basin. Well 39B-R is a water table well located immediately adjacent to the downgradient edge of the former Waste Stabilization Basin. Well 95B-R is a water table well located near the downgradient edge of the known chlorobenzene plume. In Section 5, GE proposes to continue the current natural attenuation monitoring at these locations to further assess the VOC concentrations in groundwater at this area.

4.4 Natural Attenuation Monitoring Results

In addition to collecting and analyzing groundwater samples for comparison with the applicable MCP Method 1 groundwater standards and UCLs, groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters to assess intrinsic and natural processes that could mitigate groundwater impacts. The analytical results for these parameters (along with any detected VOCs) are provided in Table 11 and Appendix E. In addition, Table F-1 in Appendix F provides a summary of all available historical natural attenuation analytical data (as well as data for selected VOCs analyzed during the natural attenuation monitoring rounds) for the wells that were analyzed for these parameters in spring 2008.

As illustrated in Appendix F, the concentrations of VOCs have decreased significantly from their historical high levels at many locations that have large historical databases. The natural attenuation parameters can be variable at individual monitoring wells or on a spatial basis (both vertically and horizontally). Several natural attenuation parameters have remained relatively stable over time (e.g., alkalinity), or have only been occasionally observed at low levels (e.g., ethane and ethene). Chlorobenzene breakdown byproducts (i.e., 2- and 4-chlorophenol) are also observed in several wells, indicating the continued natural degradation of this constituent. GE will continue to track changes in concentrations of natural attenuation parameters during the course of the interim monitoring program and

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will provide updated assessments of these results in future interim summary reports following sampling events when natural attenuation data is collected (i.e., after the spring groundwater quality monitoring rounds). A complete assessment of the natural attenuation parameters and their significance with respect to natural breakdown of VOC constituents in groundwater will be presented in the Baseline Assessment Final Report for this GMA.

Filtered samples from natural attenuation monitoring well 114A were also analyzed for PCBs, in accordance with EPA's December 7, 2006 conditional approval letter which required such analyses to be performed whenever samples from water table well 114B-R were analyzed for PCBs. This analysis was required to assess potential vertical migration of PCBs at this well cluster after an increase in PCB concentrations were observed at well 114B-R in spring 2006. No PCBs were detected in either well 114A or 114B-R in spring 2008, which is consistent with the previous sampling round performed at this well cluster in fall 2007. In Section 5.2 below, GE proposes to discontinue PCB analyses at these wells since the spring 2006 PCB results from well 114B-R appear to be anomalous and are well below the revised MCP Method 1 GW-3 standard for PCBs.

4.5 Overall Assessment of Analytical Results

Graphs illustrating historical concentrations of total VOCs and total PCBs, including the spring 2008 concentrations, are provided in Appendix F for all wells sampled in spring 2008 that were analyzed for those constituents. In addition, Appendix F contains graphs of historical concentrations of individual constituents (i.e., benzene, carbon tetrachloride, and chlorobenzene) that exceeded the applicable MCP Method 1 GW-3 standards or UCLs at monitoring wells during any of the prior baseline monitoring program sampling events that were analyzed for those constituents in spring 2008.

Based on a review of the Concentration vs. Time graphs presented in Appendix F, it appears that concentrations of total VOCs have decreased in comparison to historical high levels in many of the wells downgradient of the former Waste Stabilization Basin, (i.e., the area known to contain the greatest VOC concentrations) where several years of prior data are available. While slight increases have been observed in a few wells during the baseline monitoring program, the constituent concentrations are generally well below historical high levels, particularly at wells (2A, 16A, 16C, 39B/B-R) that are closest to the waste stabilization basin. Total VOC concentrations have exhibited seasonal variation at well 6B/6B-R for the past several years. Specifically, VOC concentrations during the fall monitoring periods have trended upward since baseline monitoring was initiated in 2004, but remained at relatively low levels during the spring monitoring periods. To a lesser extent, the same trend is evident in the benzene and chlorobenzene concentrations at this well, although the chlorobenzene concentrations have decreased significantly from the historical high levels observed prior to the start of the baseline monitoring program. No

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trends are evident in the carbon tetrachloride concentrations at well 51-14, as the concentrations have remained at relatively low levels since an exceedance of the Method 1 GW-2 standard for this constituent was observed in spring 2005.

For PCBs, no trends are evident on the historical concentration graphs in Appendix F. Well 82B-R contained PCB concentrations at or near the former GW-3 standard during three monitoring events between spring 2005 and 2006, but all PCB results from this well are well below the new GW-3 standard of 0.010 ppm. Further, no PCBs were detected in the well prior to that time or in the spring 2008 samples. At well 114B-R, the former GW-3 standard was exceeded in the samples analyzed in spring 2006, but no PCBs have been detected in filtered samples analyzed during any other round and the spring 2006 concentration is well below the new GW-3 standard. Based on a review of the data from this well, the spring 2006 result is likely anomalous.

4.6 Evaluation of NAPL Monitoring and Recovery Activities

4.6.1 Extent of NAPL

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 6. The extent of LNAPL observed during the spring 2008 semi-annual monitoring event is shown on Figure 7. These figures show a significant decrease in the extent of measurable LNAPL observed in spring 2008 (similar to the fall 2007 event) compared to the known maximum extent, particularly along the northeastern edge of the LNAPL area. This reduction in LNAPL extent on the northeastern portion of the LNAPL plume is likely attributable to GE's active NAPL recovery program, which includes automatic skimmer systems in wells 51-21 and GMA3-17, and routine manual recovery of LNAPL at surrounding locations.

GE has also monitored well GMA4-3, located in GMA 4 across Plastics Avenue from well GMA3-13. NAPL has never been detected in that well. Moreover, in EPA's December 7, 2006 conditional approval letter, EPA required GE to include GMA 4 wells 60B and RF-14 in the groundwater elevation table and contour map for GMA 3. Accordingly, GE has included those wells in this report. Except for the potential presence of LNAPL in well GMA3-11 (based on a single suspect instrument reading in spring 2007), the reduction of LNAPL along the northern edge of the LNAPL area and occasional variations in LNAPL presence in well GMA3-13, the extent of LNAPL has remained relatively consistent in recent years.

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4.6.2 NAPL Recovery

As discussed in Section 2.4, approximately 35 gallons of LNAPL were recovered at GMA 3 in spring 2008. Of this total, approximately 12.8 gallons were removed by the automated skimmer system at well 51-21, approximately 14.5 gallons were removed by the new automated skimmer system at well GMA3-17, and the remaining 7.7 gallons were manually recovered from other monitoring wells (see Tables 5 and 6). For comparison, over the same time period in spring 2007, approximately 36.9 gallons of LNAPL were recovered at GMA 3 (approximately 31.6 gallons by the automated skimmer system at well 51-21, and approximately 5.3 gallons from other monitoring wells), indicating that the LNAPL recovery volume has been generally consistent with the prior year. Since 1997, approximately 1,449 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

Per Condition 4 of EPA's Conditional approval letter of the fall 2007 GMA 3 NAPL Monitoring Report dated April 23, 2008, GE has evaluated if a connection exists between groundwater elevations and LNAPL recovery volumes at GMA 3. The graphs presented in Appendix B compare the volumes of LNAPL recovered on a quarterly basis since summer 2000 to the average quarterly groundwater elevations of the wells within or adjacent to the known LNAPL area. A graph illustrating the data comparisons for the overall time period for which data were available (i.e., all results from summer 2003 to spring 2008) is presented to assess variations in groundwater elevations and LNAPL recovery between quarters. In addition, graphs of the data from each individual quarter are provided to assess if LNAPL recovery varied based on isolated wet or dry seasons over the same time period.

As shown in the overall data graph, Quarters 3 (July through September) and 4 (October through December), which are typically the seasons with decreased overall groundwater elevations, contained the greatest LNAPL removal during any given year. Quarter 2 (April through June) showed the least LNAPL recovery and the most elevated groundwater elevations compared to the other quarters. However, a review of the graphs for the individual quarters shows that there is only a slight correlation between ground water elevations and the recovery of LNAPL. Overall, groundwater elevations are relatively consistent in this area (generally slightly above or below 987 feet AMSL), and even more so when comparing data over the same time period from year to year, while the volume of LNAPL recovered showed a much greater degree of variation, even between quarters with similar average groundwater elevations.

Although these results may indicate a possibility of a correlation between lower groundwater elevations and higher LNAPL recovery, the relationship is not clearly established and does not appear to be sufficiently significant to warrant modifications to the ongoing NAPL recovery program to optimize recovery.

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5. Proposed Groundwater and NAPL Monitoring Program Modifications

5.1 General

The interim monitoring program now being conducted is designed to continue the natural attenuation monitoring program and 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 program.

This section contains GE's evaluation of the effect on the interim groundwater quality monitoring program of the recent revisions to the MCP Method 1 standards and UCLs for groundwater that became effective on February 14, 2008, and a description of GE's proposed modifications to the monitoring program. In light of the new standards, GE has re-evaluated the analytical results from the baseline and interim monitoring program to determine whether, and, if so, how the new Performance Standards should alter the wells and/or parameters included in the interim monitoring program. GE has also reviewed the groundwater analytical data from the spring 2008 interim sampling event for results that, independent of the changes in standards, would 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.

5.2 Evaluation and Proposed Modifications to Interim Monitoring Program

In the Fall 2005 GMA 3 Baseline Report, GE presented an evaluation of the baseline monitoring results from GMA 3 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.

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Following revisions to the MCP that became effective on April 3, 2006, GE repeated that evaluation, comparing all baseline and interim groundwater quality data to the new ("Wave 2") MCP Method 1 Standards. Based on the same inclusion criteria utilized in fall 2005 at GMA 3 (and at the other GMAs once their two-year baseline monitoring periods expired), GE's assessment indicated that certain baseline wells that were previously excluded from the interim monitoring program based on historical concentrations of certain constituents that were above the levels of the previously-effective MCP Method 1 standards either were much closer to the MCP Method 1 standards, such that interim monitoring was warranted to assess the need for inclusion of these locations in a long-term monitoring program, or were sufficiently below the MCP Method 1 standards such that further monitoring was not considered necessary. GE's assessment also indicated that certain wells previously included in the interim monitoring program based on historical concentrations of certain constituents near the levels of the prior MCP Method 1 standards were no longer of interest based on an increase in those standards. In the Spring 2006 GMA 3 Baseline Report, GE identified locations that should be added to the interim monitoring program and proposed to modify the interim monitoring program accordingly. Following EPA conditional approval of those modifications, GE implemented the revised interim monitoring program.

In light of the recent revisions to the MCP that became effective on February 14, 2008, GE has performed a similar evaluation to that conducted in 2006. Specifically, GE initially researched the GMA 3 database for any baseline analytical results where constituent concentrations of at least 50% of an applicable MCP Method 1 Standard were recorded. Any such locations/results were selected for further evaluation, consisting of a statistical evaluation of the constituents at each location, calculation of average concentrations, and a general review of concentrations over time to determine if an increasing trend may be present.

GE has identified several locations that should be added to or removed from the interim monitoring program and therefore proposes to modify the interim monitoring program. These modifications are discussed below. In particular, the modification of the Method 1 GW-3 standard for PCBs (from 0.0003 ppm to 0.010 ppm) has reduced the uncertainty of whether long-term monitoring for PCBs will be necessary to demonstrate compliance with the new GW-3 standard and a corresponding reduction in the GW-3 monitoring wells to be analyzed for PCBs during the interim monitoring program is proposed below.

In addition, as a new Method 1 GW-2 standard for PCBs has been promulgated in the 2008 MCP revision, GE evaluated the existing data from the GW-2 wells at GMA 3 to determine if additional sampling would be required to verify compliance with this new standard. As agreed with EPA, GE used filtered PCB results for this comparison. GE found that the existing PCB database for all dual-purpose GW-2/GW-3 monitoring wells was sufficient, but

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that the wells monitored solely for GW-2 compliance were not analyzed for PCBs during the baseline monitoring program, since no GW-2 standard for PCBs was in effect at the time the sampling was performed. As such, GE has proposed to conduct additional sampling for PCBs at those locations, as discussed below.

A summary of the proposed interim sampling program for GMA 3 is provided in Table 12, and the locations where sampling is proposed are illustrated on Figure 8. Specifically, GE proposes the following:

- Average filtered PCB concentrations are well below the new MCP GW-3 standard at all of the wells that are currently analyzed for PCBs under the interim monitoring program. As such, GE proposes that PCB analyses be discontinued at wells 82B-R and 114B-R, which are designated as GW-3 perimeter wells.
- In addition, GE proposes discontinuing monitoring at well 114A, where supplemental PCB analysis was performed to assess vertical migration of PCBs from the vicinity of water table well 114B-R through the water column at this well cluster. No PCBs have been detected in well 114A and, as discussed above, the PCB levels observed in well 114B-R (including the anomalous results from the spring 2006 sampling event) are well below the new MCP GW-3 standard.
- PCB sampling is proposed at the seven GW-2 monitoring wells that were sampled solely for VOCs during the baseline monitoring program. These wells are: 16B-R, 51-14, GMA3-2, GMA3-4, GMA3-8, GMA3-9, and OBG-2.

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 discontinue additional sampling or to add the well to the ongoing interim or long-term monitoring program at GMA 3. As agreed with EPA, GE will analyze filtered groundwater samples for comparison with the GW-2 standard.

The modification to the interim sampling program discussed above (i.e., semi-annual analysis for PCBs at selected GW-2 monitoring wells) is proposed to be initiated in fall 2008. Additional details on the sampling and reporting schedule at GMA 3 are provided in Section 6 below.

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5.3 NAPL Monitoring Program Modifications

As discussed in Section 2.2 above, GE will re-develop wells 51-7, 51-9, 51-13, and 59-1 to remove sediment which prohibited the collection of groundwater elevation data in fall 2007. GE will conduct those activities in September 2008 to allow the wells to stabilize prior to the fall 2008 monitoring event. If re-development of those wells is unsuccessful, GE will discuss the need for additional response actions (e.g., well replacement or substitutions in the monitoring program) with EPA. No other changes to GE's ongoing NAPL monitoring or recovery activities at GMA 3 are proposed at this time.

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6. Schedule of Future Activities

6.1 General

This section addresses the schedule for upcoming groundwater quality monitoring activities and reporting for GMA 3. This schedule assumes that the modifications to the interim groundwater monitoring program proposed in Section 5 will be implemented following EPA approval.

6.2 Field Activities Schedule

GE will continue its routine groundwater elevation and NAPL monitoring according to the current schedule approved by EPA. Also, as discussed in Section 5.3 above, GE will redevelop selected wells in September 2008. In accordance with the approved semi-annual monitoring schedule, the fall 2008 groundwater elevation monitoring and NAPL monitoring event is scheduled to be completed in October 2008. GE will conduct a NAPL bailing round approximately one to two weeks prior to the fall 2008 semi-annual NAPL monitoring event.

GE will conduct the fall 2008 interim groundwater sampling event at GMA 1 in October to November 2008, in conjunction with groundwater sampling activities that will be performed at the other GMAs. That sampling event will consist of the initial semi-annual sampling and analysis of filtered samples for PCBs 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 12). Approximately one month prior to that sampling event, GE will inspect and re-develop selected GW-2 monitoring wells that have not recently been utilized as part of the interim monitoring program.

The next natural attenuation monitoring event (conducted each spring) is scheduled for April 2009. GE will sample 22 wells, analyzing for VOCs and the natural attenuation parameters listed in Table 12.

Unlike the natural attenuation sampling, interim groundwater sampling activities alternate between the spring and fall seasons on an annual basis. The next full interim sampling event is scheduled for October 2009, when groundwater samples will be collected and analyzed for VOCs from monitoring wells 6B-R and 51-14, along with the continued semi-annual sampling and analysis for PCBs from the select GW-2 monitoring wells listed in Table 12.

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As described in Appendix E (Sub-Slab Soil Gas and Indoor Air Investigation Summary Report for Buildings 51 & 59 - Fall 2007) of GE's Fall 2007 GMA 3 Monitoring Report, during October 2008 GE will conduct its annual inventory within Buildings 51 and 59 of materials and/or products that could contain volatile constituents similar to those that have been previously detected in the indoor air samples and are common to the target constituents in the LNAPL or groundwater. Shortly following completion of the building inventories, GE will perform additional monitoring of soil gas beneath, and indoor air within, Buildings 51 and 59 at or near the same locations that were sampled in fall 2007. That sampling will be performed in conjunction with the fall 2008 interim groundwater sampling event, or sequentially after completion of the groundwater sampling activities.

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

6.3 Reporting Schedule

GE will submit the *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Fall 2008* by February 28, 2009, in accordance with the reporting schedule approved by EPA. That report will present the final, validated fall 2008 interim sampling results and a brief discussion of the results, including any proposals to further modify the interim monitoring program, if necessary. GE will also include the groundwater elevation monitoring results and NAPL monitoring and recovery data for the period of July 2008 through December 2008, along with a summary of other activities related to groundwater quality and NAPL monitoring recovery conducted at GMA 3 during that time period and any proposals to modify those activities, if applicable. Finally, that report will include the results of the fall 2008 round of Buildings 51 and 59 product inventories and sub-slab soil gas/indoor air sampling and analysis.

GE will also continue to provide the results of its ongoing groundwater, NAPL, soil gas, and indoor air monitoring activities and NAPL recovery efforts in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 1

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
2A	Natural Attenuation	Annual (1)	See Note 3	
6B-R	GW-3 Perimeter	Annual (2)	VOC	
16A	Natural Attenuation	Annual (1)	See Note 3	
16B-R	GW-2 Sentinel/Natural Attenuation	Annual (1)	See Note 4	
16C-R	Natural Attenuation	Annual (1)	See Note 4	
39B-R	Natural Attenuation	Annual (1)	See Note 3	
39D-R	Natural Attenuation	Annual (1)	See Note 4	
39E	Natural Attenuation	Annual (1)	See Note 4	
43A	Natural Attenuation	Annual (1)	See Note 4	
43B	Natural Attenuation	Annual (1)	See Note 4	
51-14	GW-2 Sentinel	Annual (2)	VOC	
82B-R	GW-3 Perimeter	Annual (2)	PCB	
89A	Natural Attenuation	Annual ⁽¹⁾	See Note 3	
89B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
89D-R	Natural Attenuation	Annual (1)	See Note 4	
90A	Natural Attenuation	Annual (1)	See Note 4	
90B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
95A	Natural Attenuation	Annual (1)	See Note 3	
95B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
111A-R	Natural Attenuation	Annual (1)	See Note 4	
111B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
114A	Natural Attenuation / Supplemental	Annual (1,2)	See Note 5	Supplemental sampling conducted for PCBs to assess results from GW-3 well 114B-R

Table 1 Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
114B-R	GW-3 Perimeter/Natural Attenuation	Annual (1,2)	See Note 5	
115A	Natural Attenuation	Annual (1)	See Note 4	
115B	Natural Attenuation	Annual (1)	See Note 4	

Notes:

- 1. Wells sampled under the natural attenuation monitoring program are sampled on an annual basis in the spring.
- 2. Wells designated for annual interim groundwater quality sampling, will be sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule alternates between the spring and fall seasons each year.
- 3. Samples analyzed for: VOCs, two SVOCs (2-chlorophenol and 4-chlorophenol), and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 4. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 5. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron) during the spring natural attenuation sampling rounds, and PCBs (filtered samples only)during the alternating spring/fall interim sampling rounds.

Table 2 Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

General Ele	ectric Comp	any - Pittsfield	, Massachusetts

Well Number	Monitoring Frequency ⁽¹⁾	Manual NAPL Removal	Comments
GMA 3 Monitorin		Criteria (2)	
2A	Semi-Annual	Any Recoverable	
6B-R	Semi-Annual	Any Recoverable	
16A	Semi-Annual	Any Recoverable	
16B-R	Semi-Annual	Any Recoverable	
16C-R	Semi-Annual	Any Recoverable	
39B-R	Semi-Annual	Any Recoverable	
39D-R	Semi-Annual	Any Recoverable	Well 39D-R installed as a replacement for well 39D.
39E	Semi-Annual	Any Recoverable	· ·
43A	Semi-Annual	Any Recoverable	
43B	Semi-Annual	Any Recoverable	
51-5	Monthly	Standard Criteria	
51-6	Monthly	Standard Criteria	
51-7	Monthly	Standard Criteria	
51-8	Weekly	Standard Criteria	
51-9	Monthly	Standard Criteria	
51-11	Monthly	Standard Criteria	
51-12	Monthly	Standard Criteria	
51-13	Monthly	Standard Criteria	
51-14	Monthly	Standard Criteria	
51-15	Monthly	Standard Criteria	
51-16R	Monthly	Standard Criteria	
51-17	Monthly	Standard Criteria	
51-18	Monthly	Standard Criteria	
51-19	Monthly	Standard Criteria	
51-21	None	LNAPL skimmer in operation	Periodic monitoring conducted as part of routine maintenance activities
54B-R	Semi-Annual	Any Recoverable	
59-1	Monthly	Standard Criteria	
59-3R	Monthly	Standard Criteria	
59-7	Monthly	Standard Criteria	
78B-R	Monthly	Any Recoverable	
82B-R	Semi-Annual	Any Recoverable	
89A	Semi-Annual	Any Recoverable	
89B	Semi-Annual	Any Recoverable	
89D-R	Semi-Annual	Any Recoverable	
90A	Semi-Annual	Any Recoverable	
90B	Semi-Annual	Any Recoverable	
95A	Semi-Annual	Any Recoverable	
95B-R	Semi-Annual	Any Recoverable	
111A-R	Semi-Annual	Any Recoverable	
111B-R	Semi-Annual	Any Recoverable	
114A	Semi-Annual	Any Recoverable	
114B-R	Semi-Annual	Any Recoverable	

Table 2
Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Frequency (1)	Manual NAPL Removal Criteria ⁽²⁾	Comments
115A	Semi-Annual	Any Recoverable	
115B	Semi-Annual	Any Recoverable	
GMA3-1	None	None	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.
GMA3-2	Semi-Annual	Any Recoverable	
GMA3-3	Semi-Annual	Any Recoverable	
GMA3-4	Semi-Annual	Any Recoverable	
GMA3-5	Semi-Annual	Any Recoverable	
GMA3-6	Semi-Annual	Any Recoverable	
GMA3-7	Quarterly	Any Recoverable	Monitored in place of UB-PZ-1.
GMA3-8	Semi-Annual	Any Recoverable	
GMA3-9	Semi-Annual	Any Recoverable	
GMA3-10	Weekly	Standard Criteria	
GMA3-11	Monthly	Any Recoverable	
GMA3-12	Weekly	Standard Criteria	
GMA3-13	Weekly	Any Recoverable	
GMA3-14	Monthly	Any Recoverable	
GMA3-15	Quarterly	Any Recoverable	Monitored in place of UB-PZ-2.
GMA3-16	Weekly	Any Recoverable	
GMA3-17	None	LNAPL skimmer in operation	Periodic monitoring conducted as part of routine maintenance activities
OBG-2	Semi-Annual	Any Recoverable	
UB-MW-10	Monthly	Any Recoverable	
UB-PZ-3	Monthly	Any Recoverable	
GMA 4 Monitoring	Wells		
60B-R	Semi-Annual	Any Recoverable	
GMA4-3	Monthly	Any Recoverable	
RF-14	Semi-Annual	Any Recoverable	
GMA 3 Staff Gauge	es		
GMA3-SG-1	Semi-Annual	Not Applicable	
GMA3-SG-2	Semi-Annual	Not Applicable	
GMA3-SG-3	Semi-Annual	Not Applicable	
GMA3-SG-4	Semi-Annual	Not Applicable	

Notes:

- 1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present, and may also consist of manual removal of NAPL thickness greater than the well-specific criteria is observed during a monitoring event.
- Standard LNAPL Removal Criteria: LNAPL is manually removed from a well with this designation if a thickness of greater than 0.25 feet is
 observed during a monitoring event. At other wells, any recoverable quantities of LNAPL will be removed (except at wells 51-21 and GMA3-17, v
 are equipped with automated skimmers).
- 3. Any NAPL observed during the bailing round conducted prior to the spring and fall semi-annual monitoring events is manually removed.
- 4. No NAPL is manually removed from any wells during the spring and fall semi-annual monitoring events, provided that NAPL was removed during bailing round.
- 5. No NAPL is manually removed from any wells during non-routine data collection activities.

Monitoring Well Construction Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 3

Well ID	Survey Co		Well Diameter	Ground Surface Elevation	Measuring Point Elevatin	Depth to Top of Screen	Screen Length	Top of Screen Elevation	Base of Screen Elevation	Average Depth to Groundwater	Average Groundwater Elevation
	Northing	Easting	(inches)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft AMSL)
2A	537005.10	138853.90	1.00	991.50	994.16	45.00	5.00	946.50	941.50	5.8	985.73
6B-R	537191.50	138910.00	2.00	991.40	993.62	2.00	10.00	989.40	979.40	4.8	986.63
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50	6.9	984.59
16B-R	536738.18	139076.37	2.00	991.80	994.87	3.08	10.00	988.72	978.72	6.2	985.59
16C-R	536734.00	139112.40	2.00	991.40	993.23	90.00	10.00	901.40	891.40	7.7	983.67
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40	7.2	984.18
34B	536293.70	138394.20	2.00	1,000.50	1,000.56	20.00	5.00	980.50	975.50	14.9	985.60
35B	536443.40	138525.40	2.00	998.03	997.36	18.00	5.00	980.03	975.03	12.6	985.40
39B-R	536938.60	138862.60	2.00	992.29	991.97	4.00	10.00	988.29	978.29	6.8	985.50
39D-R	536941.50	138854.80	2.00	992.30	994.73	55.00	10.00	937.30	927.30	6.3	985.95
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34	5.8	986.49
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90	5.1	986.81
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	971.90	4.2	987.75
50B	538647.00	139106.20	2.00	989.76	991.76	8.50	5.00	981.26	976.26	1.1	988.67
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91	10.5	986.39
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57	10.9	986.70
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26	10.6	986.66
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39	11.2	986.19
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76	10.2	987.56
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62	8.6	986.04
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83	7.6	989.26
51-13	536917.10	138579.80	2.00	997.68	997.42	5.00	10.00	992.68	982.68	9.2	988.46
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93	10.7	986.24
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68	10.4	986.33
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70	10.2	986.50
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48	10.0	986.44
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38	11.0	986.36
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65	10.5	986.13
51-21	536767.70	138442.35	4.00	996.70*	1,001.49	5.00	10.00	991.70	981.70	10.4	986.28
54B-R	537827.30	139113.60	2.00	989.00	991.49	3.00	10.00	986.00	976.00	2.2	986.80
59-01	536488.80	138238.60	2.00	997.78	997.52	4.00	20.00	993.78	973.78	10.9	986.89
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52	11.5	986.34
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27	11.8	986.42

Monitoring Well Construction Summary

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Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Table 3

Well ID	Survey Co	oordinates Easting	Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevatin (ft AMSL)	Depth to Top of Screen (ft bgs)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)	Average Depth to Groundwater (ft bgs)	Average Groundwater Elevation (ft AMSL)
74B	537490.90	138374.90	1.00	996.05	995.54	15.00	5.00	981.05	976.05	8.1	987.97
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	977.29	1.6	987.48
82B-R	536937.40	139621.60	2.00	987.80	989.90	2.00	10.00	985.80	975.80	2.5	985.33
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00	940.60	935.60	0.8	982.81
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	979.10	976.10	-0.4	983.48
89D-R	536072.20	139434.90	2.00	984.40	987.11	67.50	10.00	916.90	906.90	1.4	983.00
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	941.50	936.50	3.7	982.79
90B	536251.60	139761.00	2.00	986.50	989.10	8.00	3.00	978.50	975.50	3.9	982.56
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	5.00	940.30	935.30	4.4	980.94
95B-R	535637.20	139722.30	2.00	984.30	986.24	3.00	10.00	981.30	971.30	3.5	980.75
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	5.00	890.30	885.30	1.2	984.07
111A-R	535824.10	139087.80	2.00	995.10	997.35	40.00	10.00	955.10	945.10	11.5	983.61
111B-R	535828.40	139092.00	2.00	994.80	997.48	7.18	10.00	987.62	977.62	11.7	983.12
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20	3.6	979.64
114B-R	535503.90	139786.90	2.00	983.50	985.54	4.00	10.00	979.50	969.50	4.1	979.36
114C	535500.50	139792.80	1.00	983.70	986.68	88.00	5.00	895.70	890.70	3.8	979.91
115A	N/A	N/A	1.00	986.69	988.53	36.00	5.00	950.69	945.69	7.8	978.89
115B	N/A	N/A	1.00	988.25	990.90	11.00	5.00	977.25	972.25	8.4	979.89
115C	N/A	N/A	1.00	987.24	988.37	109.00	5.00	878.24	873.24	10.1	977.12
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06	7.9	984.34
GMA3-3	538094.20	138178.20	2.00	990.86	990.45	2.00	10.00	988.86	978.86	2.1	988.81
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37	7.6	987.39
GMA3-5	537323.20	139766.90	2.00	991.50	993.67	4.00	10.00	987.50	977.50	5.5	985.96
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74	12.3	985.49
GMA3-7	536291.70	138397.40	2.00	1000.45	1000.17	10.00	10.00	990.45	980.45	13.1	987.36
GMA3-8	536339.60	138899.10	2.00	994.50	996.24	5.00	10.00	989.50	979.50	8.8	985.68
GMA3-9	537383.20	138385.60	2.00	992.90	992.39	3.00	10.00	989.90	979.90	5.3	987.59
GMA3-10	536659.10	138056.40	2.00	997.78	997.54	9.00	10.00	988.78	978.78	11.0	986.77
GMA3-11	536353.70	138147.90	2.00	997.78	997.25	9.00	10.00	988.78	978.78	10.8	987.03
GMA3-12	536469.20	138169.70	4.00	998.04	997.84	7.00	15.00	991.04	976.04	11.3	986.69
GMA3-13	536534.30	138035.90	2.00	998.00	997.73	8.06	10	989.94	979.94	11.3	986.66
GMA3-14	536710.30	137953.20	2.00	997.66	997.42	7.25	10	990.41	980.41	10.7	986.92
GMA3-15	536710.30	137953.20	2.00	994.60	996.74	6.00	10.00	988.60	978.60	9.0	985.60

Table 3
Monitoring Well Construction Summary

Well ID		oordinates	Well Diameter	Ground Surface Elevation	Measuring Point Elevatin	Depth to Top of Screen	Screen Length	Top of Screen Elevation	Base of Screen Elevation	Average Depth to Groundwater	Average Groundwater Elevation
	Northing	Easting	(inches)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft)	(ft AMSL)	(ft AMSL)	(ft bgs)	(ft AMSL)
GMA3-16	537542.70	138665.00	2.00	989.80	989.26	2.00	10.00	987.80	977.80	1.5	988.27
GMA3-17	536497.80	138261.50	4.00	998.36	1,002.00	7.00	10.00	991.36	981.36	12.2	986.18
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84	5.0	987.21
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21	9.8	986.45
UB-PZ-1	536336.80	138383.90	1.00	999.00	999.70	9.00	5.00	990.00	985.00	12.2	986.77
UB-PZ-2	536726.10	138735.70	1.00	994.40	994.77	4.00	10.00	990.40	980.40	9.2	985.23
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55	12.3	986.28
GMA 4 Monito	ring Wells										
60B-R	536021.40	138133.00	2.00	1,003.04	1,002.79	12.00	10.0	991.04	981.04	15.4	987.62
GMA4-3	536289.60	137999.80	2.00	1,004.14	1,003.95	16.09	10.0	988.05	978.05	17.5	986.64
RF-14	536833.60	137753.70	4.00	1,001.90	1,001.59	7.00	15.0	994.90	979.90	11.2	990.74

Notes:

- 1. The listed wells have been utilized for baseline/interim groundwater quality sampling, groundwater elevation/NAPL monitoring, or hydraulic conductivity testing.
- 2. ft AMSL: Feet above mean sea level
- 3. ft bgs: Feet below ground surface
- 4. ft: Feet
- 5. N/A: Information not available.

Groundwater Elevation Data - Spring 2008

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Table 4

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts

Well Number	Overall Average Groundwater Elevation	Average Spring Groundwater Elevation	Spring 2008 Groundwater Elevation	Thickness	Spring 2008 DNAPL Thickness
	(ft AMSL)	(ft AMSL)	(ft AMSL)	(ft)	(ft)
GMA3 Monito	oring Wells Screened	at Water Table			
02A	985.73	986.64	986.93	0.00	0.00
6B-R	986.63	987.26	987.06	0.00	0.00
16B-R	985.59	985.90	986.06	0.00	0.00
39B-R	985.50	986.22	986.50	0.00	0.00
43B	987.75	987.94	988.44	0.00	0.00
50B	988.67	989.08	989.30	0.00	0.00
51-05	986.71	986.85	987.69	0.00	0.00
51-06	987.04	987.26	988.25	0.00	0.00
51-07	987.11	987.04	987.92	0.00	0.00
51-08	986.54	986.83	987.71	0.02	0.00
51-09	987.96	988.22	988.61	0.00	0.00
51-11	986.31	986.98	987.58	0.00	0.00
51-12	989.50	989.58	989.50	0.00	0.00
51-13	989.27	987.52	<987.61	0.00	0.00
51-14	986.58	986.74	987.36	0.00	0.00
51-15	986.65	986.89	987.75	0.01	0.00
51-16R	986.86	986.92	987.67	0.01	0.00
51-17	986.81	987.00	987.80	0.02	0.00
51-18	986.70	986.83	987.56	0.00	0.00
51-19	986.46	986.74	987.40	0.01	0.00
51-21	986.84	986.61	987.61	<0.01	0.00
54B-R	986.80	987.30	987.86	0.00	0.00
59-01	987.59	987.11	988.10	0.00	0.00
59-03R	986.69	986.89	987.95	0.01	0.00
59-07	986.79	986.96	987.81	0.01	0.00
78B-R	987.48	987.78	988.63	0.00	0.00
82B-R	985.33	986.53	986.66	0.00	0.00
89B	983.48	983.35	983.55	0.00	0.00
90B	982.56	983.25	983.58	0.00	0.00
95B-R	980.75	980.97	981.00	0.00	0.00
111B-R	983.12	983.79	984.01	0.00	0.00
114B-R	979.36	979.77	980.37	0.00	0.00
115B	979.89	980.25	981.19	0.00	0.00
GMA3-2	984.34	985.17	985.78	0.00	0.00
GMA3-3	988.81	989.85	989.90	0.00	0.00
GMA3-4	987.39	988.28	989.10	0.00	0.00
GMA3-5	985.96	986.66	986.66	0.00	0.00
GMA3-6	985.49	985.68	982.29	0.00	0.00
GMA3-7	987.36	987.58	988.22	0.00	0.00
GMA3-8	985.68	986.96	986.92	0.00	0.00
GMA3-9	987.59	988.46	989.21	0.00	0.00
GMA3-10	987.47	987.54	988.03	0.81	0.00
GMA3-11	987.68	987.76	988.13	0.00	0.00
GMA3-11	987.42	987.37	987.93	0.12	0.00
GMA3-13	987.61	987.53	987.98	0.12	0.00
GMA3-14	987.84	987.65	988.10	0.00	0.00
GMA3-14 GMA3-15	987.06	986.44	986.64	0.00	0.00
GMA3-16	988.27	988.66	988.86	0.00	0.00
GMA3-16	986.18	986.70	986.70	<0.01	0.00
OBG-2	987.21	987.84	987.99	0.00	0.00
UB-MW-10	986.76	986.94	987.83	0.00	0.00
UB-PZ-3	986.65	986.66	987.83	0.57	0.00

Table 4
Groundwater Elevation Data - Spring 2008

Well Number	Overall Average Groundwater Elevation	Average Spring Groundwater Elevation	Elevation Thickness		Spring 2008 DNAPL Thickness	
	(ft AMSL)	(ft AMSL)	(ft AMSL)	(ft)	(ft)	
GMA4 Monito	oring Wells Screened	at Water Table				
60B-R	987.62	988.25	989.69	0.00	0.00	
GMA4-3	986.64	987.06	988.04	0.00	0.00	
RF-14	990.74	993.45	994.85	0.00	0.00	
Monitoring W	ells Screened Below	Water Table				
16A	984.59	985.46	985.57	0.00	0.00	
16C-R	983.67	985.41	986.15	0.00	0.00	
39D-R	985.95	986.56	987.03	0.00	0.00	
39E	986.49	987.12	987.41	0.00	0.00	
43A	986.81	987.89	988.97	0.00	0.00	
89A	982.81	983.66	983.60	0.00	0.00	
89D-R	983.00	983.77	983.82	0.00	0.00	
90A	982.79	983.56	982.69	0.00	0.00	
95A	980.94	981.08	981.12	0.00	0.00	
111A-R	983.61	984.67	984.72	0.00	0.00	
114A	979.64	980.19	980.99	0.00	0.00	
115A	978.89	981.36	982.02	0.00	0.00	
GMA 3 Staff (Gauges					
GMA3-SG-1	NA	NA	993.23	0.00	0.00	
GMA3-SG-2	NA	NA	984.16	0.00	0.00	
GMA3-SG-3	NA	NA	994.41	0.00	0.00	
GMA3-SG-4	NA	NA	989.42	0.00	0.00	

Notes:

- 1. Groundwater elevation/NAPL thickness data collected on April 15 and 16, 2008.
- 2. Groundwater elevations denoted <## indicate that the well was dry on the date measured and the referenced elevation represents the base of well elevation.
- 3. Average groundwater elevations based on available seasonal groundwater elevation data since 2000.
- 4. NA Data Not Available

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

Number of		Measuring	Depth t	o Water	LNA	APL Observat	ions	Manual LNAP	Manual LNAPL Recovery (7)	
Well Name	Measurements	Point Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)	
GMA 3 Monitor	ring Wells									
002A	2	994.16	7.23	7.54	0			0.00	0.00	
6B-R	2	993.62	6.56	6.76	0			0.00	0.00	
16A	2	991.77	6.20	6.48	0			0.00	0.00	
16B-R	2	994.87	8.81	8.98	0			0.00	0.00	
16C-R	2	993.23	7.08	7.30	0			0.00	0.00	
39B-R	3	991.97	5.47	5.65	0			0.00	0.00	
39D-R	3	994.73	7.70	7.99	0			0.00	0.00	
39E	2	992.21	4.80	4.90	0			0.00	0.00	
43A	3	993.79	4.82	4.93	0			0.00	0.00	
43B	3	993.61	5.14	5.17	0			0.00	0.00	
50B	1	991.76	2.46	2.46	0			0.00	0.00	
51-05	7	996.44	3.78	9.99	0			0.00	0.00	
51-06	6	997.36	9.11	10.60	0			0.00	0.00	
51-07	6	997.08	9.16	10.60	0			0.00	0.00	
51-08	27	997.08	9.30	12.03	27	0.01	1.13	3.02	0.80	
51-09	6	997.70	9.09	10.40	0			0.00	0.00	
51-11	6	994.37	6.60	8.10	0			0.00	0.00	
51-12	6	996.55	6.85	7.75	0			0.00	0.00	
51-13	6 ⁴	997.42	Dry at 9.82-9.8	33 feet						
51-14	8	996.77	9.30	11.48	0			0.00	0.00	
51-15	7	996.43	8.69	10.11	7	0.01	0.13	0.07	0.02	
51-16R	7	996.39	8.73	10.04	4	0.01	0.05	0.00	0.00	
51-17	7	996.43	8.65	10.99	7	0.02	1.23	1.01	0.27	
51-18	6	997.12	9.56	10.70	0			0.00	0.00	
51-19	7	996.43	9.02	10.74	7	0.01	0.59	0.39	0.10	
51-21	26	1,001.49	13.70	15.69	25	<0.01	0.1	0.00	0.00	

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

	Number of	Measuring Point	Depth t	o Water	LNA	APL Observat	ions	Manual LNAP	L Recovery ⁽⁷⁾
Well Name	Measurements	Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)
54B-R	1	991.49	3.63	3.63	0			0.00	0.00
59-01	7	997.52	9.41	11.04	0			0.00	0.00
59-03R	7	997.64	9.70	12.30	7	0.01	1.6	2.59	0.68
59-07	7	997.96	9.36	12.18	7	0.01	0.78	0.53	0.14
78B-R	6	988.83	0.15	0.60	0			0.00	0.00
82B-R	2	989.90	3.24	3.47	0			0.00	0.00
89A	2	985.76	2.16	2.60	0			0.00	0.00
89B	2	986.03	2.48	2.91	0			0.00	0.00
89D-R	2	987.11	3.29	3.91	0			0.00	0.00
90A	2	988.07	5.38	5.47	0			0.00	0.00
90B	2	989.10	5.52	6.70	0			0.00	0.00
95A	2	987.18	6.06	6.81	0			0.00	0.00
95B-R	2	986.24	5.24	5.79	0			0.00	0.00
111A-R	2	997.35	12.63	13.27	0			0.00	0.00
111B-R	2	997.48	13.47	14.30	0			0.00	0.00
114A	2	986.16	5.17	5.98	0			0.00	0.00
114B-R	2	985.54	5.17	5.99	0			0.00	0.00
115A	2	988.53	6.51	8.12	0			0.00	0.00
115B	2	990.90	9.71	11.51	0			0.00	0.00
GMA3-2	1	991.94	6.16	6.16	0			0.00	0.00
GMA3-3	1	990.45	0.55	0.55	0			0.00	0.00
GMA3-4	1	994.60	5.50	5.50	0			0.00	0.00
GMA3-5	1	993.67	7.01	7.01	0			0.00	0.00
GMA3-6	1	997.49	15.20	15.20	0			0.00	0.00
GMA3-7	2	1,000.17	11.95	13.29	0			0.00	0.00
GMA3-8	1	996.24	9.32	9.32	0			0.00	0.00
GMA3-9	1	992.39	3.18	3.18	0			0.00	0.00

Table 5
LNAPL Monitoring/Manual Recovery Data Summary

	Novebound	Measuring	Depth t	o Water	LNAPL Observations			Manual LNAP	L Recovery (7)
Well Name	Number of Measurements	Point Elevation (Feet AMSL)	Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (liters)	LNAPL Recovery (Gallons)
GMA3-10	26	997.54	9.72	11.55	26	0.02	0.95	4.57	1.21
GMA3-11	24	997.25	8.98	12.40	0			0.00	0.00
GMA3-12	27	997.84	9.80	11.88	27	0.02	0.21	0.58	0.15
GMA3-13	26	997.73	9.59	11.65	22	0.01	0.48	1.31	0.35
GMA3-14	5	997.42	9.32	10.78	0			0.00	0.00
GMA3-15	2	996.74	10.10	10.92	0			0.00	0.00
GMA3-16	24	989.26	0.40	1.12	0			0.00	0.00
GMA3-17 ⁶	27	1,002.00	15.18	16.80	25	<0.01	0.43	1.11	0.29
OBG-2	1	992.20	4.21	4.21	0			0.00	0.00
UB-MW-10	6	995.99	8.16	9.50	0			0.00	0.00
UB-PZ-3	7	998.15	10.85	12.03	7	0.11	0.64	0.30	0.08
GMA 4 Monito	ring Wells (Adjac	cent to GMA 3)							
RF-14	1	1,001.59	6.74	6.74	0			0.00	0.00
GMA4-3	6	1,003.95	15.91	18.70	0			0.00	0.00
60B-R	1	1,002.79	13.1	13.10	0			0.00	0.00

Total Amount of LNAPL Manually Recovered - January 2008 through June 2008: 15.47 liters

4.09 gallons

Notes:

- 1. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
- 2. ft BMP feet Below Measuring Point.
- 3. ft AMSL Feet Above Mean Sea Level
- 4. Groundwater was not present in the well at the time measurements were conducted.
- 5. ft AMSL Feet Above Mean Sea Level
- 6. LNAPL recovery data for well GMA3-17 represents manual recovery prior to initiation of automated recovery operations in February 2008.
- 7. Automated LNAPL recovery data for wells GMA3-17 and well 51-21 is provided in Table 6.

Table 6 Automated LNAPL Recovery System Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 **Groundwater Management Area 3**

General Electric Company - Pittsfield, Massachusetts

Removal Action Area / Recovery System	January 2008 LNAPL Recovery (Gallons)	February 2008 LNAPL Recovery (Gallons)	March 2008 LNAPL Recovery (Gallons)	April 2008 LNAPL Recovery (Gallons)	May 2008 LNAPL Recovery (Gallons)	June 2008 LNAPL Recovery (Gallons)	Spring 2008 Total LNAPL Recovery (Gallons)
51-21	3.7	4.2	1.4	1.6	1.4	0.5	12.8
GMA3-17	¹	5.1	6.5	2.7	0.2	0.0	14.5

GMA 3 TOTAL

Total Amount of LNAPL Recovered by Automated Skimmer Systems - January 2008 through June 2008:

27.3

Notes:

Recovery Well GMA3-17 was placed into service on February 7, 2008.

Table 7
Field Parameter Measurements - Spring 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (standard units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
2A	1	10.73	8.24	0.394	-80.2	1.90
6B-R	3	7.33	7.17	0.644	-95.9	1.20
16A	27	14.77	7.93	5.503	-161.9	0.63
16B-R	3	10.65	7.25	1.805	-49.5	2.52
16C-R	5	11.05	7.97	0.244	136.5	1.66
39B-R	3	8.31	7.15	0.983	-39.2	3.67
39D-R	12	9.03	8.57	0.309	10.3	3.98
39E	10	11.64	7.04	0.260	-60.9	0.48
43A	10	8.86	7.20	1.081	-82.5	0.47
43B	4	8.64	7.34	1.176	-91.9	4.90
51-14	0	8.36	6.39	0.462	60.5	6.51
82B-R	1	6.43	6.29	0.566	2.8	0.81
89A	26	11.80	7.74	1.909	-170.3	0.53
89B	8	11.18	6.77	0.950	-67.3	1.32
89D-R	4	11.22	8.08	2.698	-102.8	1.08
90A	10	8.86	7.99	0.428	-157.6	3.62
90B	2	7.42	7.15	0.279	-116.8	0.84
95A	20	12.30	7.63	0.280	-139.4	1.01
95B-R	7	9.70	7.08	1.148	-53.8	0.48
111A-R	2	11.47	8.22	0.723	-11.3	2.06
111B-R	11	14.55	7.67	0.722	29.5	6.11
114A	11	14.99	8.08	0.383	-264.8	0.70
114B-R	6	12.68	7.19	1.019	-68.9	1.70
115A	4	8.64	7.80	0.308	-131.1	4.04
115B	2	7.44	6.86	0.514	-136.2	1.60

Notes:

- 1. Measurements collected during spring 2008 GMA 3 baseline monitoring program sampling activities conducted between April 30 and May 15, 2008.
- 2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
- 3. NTU Nephelometric Turbidity Units
- 4. mS/cm Millisiemens per centimeter
- 5. mV Millivolts
- 6. mg/L Milligrams per liter (ppm)

Table 8 Comparison of Groundwater Analytical results to MCP Method 1 GW-2 Standards

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		16B-R 05/01/08	51-14 05/02/08		
Volatile Organics						
Benzene		2	0.00075 J	ND(0.0010)		
Carbon Tetrach	loride	0.002	ND(0.0010)	0.0013		
Chlorobenzene		0.2	0.0011	ND(0.0010)		
Chloroform		0.05	ND(0.0010)	0.0039		
Trichloroethene		0.03	0.00044 J	ND(0.0010)		
Total VOCs		5	0.0023 J	0.0052		

Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS (approved March 15, 2007 and re-submitted March 30, 2007).
- 3 Only detected volatiles are summarized and presented for the MCP Method 1 GW-2 Standards Comparison.
- 4. Total VOC results are being compared to the notification level in the SOW of 5 ppm, as there is no MCP Method 1 GW-2 Standard for Total VOCs.

Data Qualifiers:

Organics (volatiles)

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

Table 9
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

	Sample ID:	Method 1 GW-3	6B-R	82B-R	89B	90B	95B-R	111B-R	114B-R	
Parameter	Date Collected:	Standards	05/02/08	05/02/08	05/05/08	05/14/08	05/08/08	05/14/08	05/13/08	
Volatile Organ	Volatile Organics									
Benzene		10	4.3	NA	0.0067	ND(0.0010)	2.3	ND(0.0010)	0.020 J	
Chlorobenzene		1	2.5	NA	0.048	ND(0.0010)	10	ND(0.0010)	1.4	
Toluene		40	0.086 J	NA	ND(0.0020)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.040)	
PCBs-Filtered										
None Detected			NA		NA	NA	NA	NA		
Semivolatile O	Semivolatile Organics									
None Detected			NA	NA		NA		NA	NA	
Natural Attenu	ation Parameters									
Alkalinity		Not Listed	NA	NA	160	110	240	160	230	
Chloride		Not Listed	NA	NA	180	8.5	160	4.3	160	
Dissolved Iron		Not Listed	NA	NA	0.902	3.68	0.0214 J	0.0449 J	0.0461 B	
Dissolved Orga	nic Carbon	Not Listed	NA	NA	5.28	5.77	3.92	1.31	4.61	
Ethane		Not Listed	NA	NA	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10)	
Ethene		Not Listed	NA	NA	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10)	
Methane		Not Listed	NA	NA	0.338	0.0700	0.871	ND(0.00720)	1.32	
Nitrate Nitrogen	1	Not Listed	NA	NA	ND(0.300)	ND(0.300)	ND(0.300)	4.29	ND(0.300)	
Nitrite Nitrogen		Not Listed	NA	NA	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(3.00)	
Sulfate (turbidin	netric)	Not Listed	NA	NA	0.582	12.1	4.76	169	9.43	

Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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 parenthesis is the associated detection limit.
- With the exception of natural attenuation parameters only those constituents detected in one or more samples are summarized.
- Shading indicates that value exceeds GW-3 Standards.
- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:	MCP UCL	2A	6B-R	16A	16B-R			
Parameter Date Collected:	for GroundWater	05/01/08	05/02/08	05/01/08	05/01/08			
Volatile Organics								
1,4-Dioxane	100	ND(1000) J [ND(1000) J]	ND(20) J	ND(200) J	ND(0.10) J			
2-Butanone	100	ND(50) J [ND(50) J]	ND(1.0) J	ND(10) J	ND(0.0050) J			
Acetone	100	ND(50) J [ND(50) J]	ND(1.0) J	ND(10) J	ND(0.0050) J			
Benzene	100	21 [23]	4.3	13	0.00075 J			
Carbon Tetrachloride	50	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)			
Chlorobenzene	10	77 [97]	2.5	37	0.0011			
Chloroform	100	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)			
Toluene	100	1.1 J [1.3 J]	0.086 J	0.62 J	ND(0.0010)			
Trichloroethene	50	6.4 J [7.5 J]	ND(0.20)	ND(2.0)	0.00044 J			
PCBs-Filtered								
None Detected		NA	NA	NA	NA			
Semivolatile Organics								
1,2-Dichlorobenzene	20	NA	NA	NA	NA			
1,3-Dichlorobenzene	100	NA	NA	NA	NA			
1,4-Dichlorobenzene	80	NA	NA	NA	NA			
2-Chlorophenol	100	ND(0.0051) [ND(0.0051)]	NA	0.022	NA			
4-Chlorophenol	Not Listed	ND(0.0051) [ND(0.0051)]	NA	0.062	NA			
Naphthalene	100	NA	NA	NA	NA			
Phenol	100	NA	NA	NA	NA			

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	16C-R	39B-R	39D-R	39E		
Parameter	Date Collected:	for GroundWater	05/01/08	04/30/08	04/30/08	05/06/08		
Volatile Organics								
1,4-Dioxane		100	ND(0.10) J	ND(40) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(0.0050) J	ND(2.0) J	ND(0.0050) J	ND(0.0050) J		
Acetone		100	ND(0.0050) J	ND(2.0) J	ND(0.0050) J	ND(0.0050) J		
Benzene		100	ND(0.0010)	0.67	0.00033 J	ND(0.0010)		
Carbon Tetra	achloride	50	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	ND(0.0010)	16	0.040	0.00024 J		
Chloroform		100	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(0.0010)	0.21 J	0.00015 J	0.00025 J		
Trichloroethe	ene	50	ND(0.0010)	0.20 J	0.00017 J	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ed		NA	NA	NA	NA		
Semivolatile	organics							
1,2-Dichlorol	benzene	20	NA	0.12	NA	NA		
1,3-Dichlorol	benzene	100	NA	0.0090 J	NA	NA		
1,4-Dichlorol	benzene	80	NA	0.25	NA	NA		
2-Chlorophe	nol	100	NA	ND(0.053)	NA	NA		
4-Chlorophe	nol	Not Listed	NA	NA	NA	NA		
Naphthalene)	100	NA	0.091	NA	NA		
Phenol		100	NA	0.038 J	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:		MCP UCL	43A	43B	51-14
Parameter	Date Collected:	for GroundWater	04/30/08	04/30/08	05/02/08
Volatile Org	janics				
1,4-Dioxane		100	0.18 J	0.041 J [ND(0.10) J]	ND(0.10) J
2-Butanone		100	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Acetone		100	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Benzene		100	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Tetra	achloride	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0013
Chlorobenze	ene	10	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform		100	ND(0.0010)	ND(0.0010) [ND(0.0010)]	0.0039
Toluene		100	ND(0.0010)	ND(0.0010) [0.00019 J]	ND(0.0010)
Trichloroeth	ene	50	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
PCBs-Filter	ed				
None Detect	ted		NA	NA	NA
Semivolatile	e Organics				
1,2-Dichloro	benzene	20	NA	NA	NA
1,3-Dichloro	benzene	100	NA	NA	NA
1,4-Dichloro	benzene	80	NA	NA	NA
2-Chlorophe	enol	100	NA	NA	NA
4-Chlorophe	enol	Not Listed	NA	NA	NA
Naphthalene		100	NA	NA	NA
Phenol		100	NA	NA	NA

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	82B-R	89A	89B				
Parameter	Date Collected:	for GroundWater	05/02/08	05/05/08	05/05/08				
Volatile Organics									
1,4-Dioxane		100	NA	ND(100) J	ND(0.20) J				
2-Butanone		100	NA	ND(5.0) J	ND(0.010) J				
Acetone		100	NA	ND(5.0) J	ND(0.010) J				
Benzene		100	NA	7.1	0.0067				
Carbon Tetra	chloride	50	NA	ND(1.0)	ND(0.0020)				
Chlorobenzer	ne	10	NA	26	0.048				
Chloroform		100	NA	ND(1.0)	ND(0.0020)				
Toluene		100	NA	ND(1.0)	ND(0.0020)				
Trichloroethe	ne	50	NA	ND(1.0)	ND(0.0020)				
PCBs-Filtere	ed								
None Detecte	ed			NA	NA				
Semivolatile	Organics								
1,2-Dichlorob	enzene	20	NA	NA	NA				
1,3-Dichlorob	enzene	100	NA	NA	NA				
1,4-Dichlorob	enzene	80	NA	NA	NA				
2-Chloropher	nol	100	NA	ND(0.0052)	ND(0.0051)				
4-Chloropher	nol	Not Listed	NA	ND(0.0052)	ND(0.0051)				
Naphthalene		100	NA	NA	NA				
Phenol		100	NA	NA	NA				

Table 10
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	89D-R	90A	90B	95A		
Parameter	Date Collected:	for GroundWater	05/05/08	05/14/08	05/14/08	05/14/08		
Volatile Organics								
1,4-Dioxane		100	ND(160) J	ND(0.10) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J		
Acetone		100	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J		
Benzene		100	8.1	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Carbon Tetra	achloride	50	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	32	ND(0.0010)	ND(0.0010)	0.00035 J		
Chloroform		100	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Trichloroeth	ene	50	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ted		NA	NA	NA	NA		
Semivolatile	e Organics							
1,2-Dichloro	benzene	20	NA	NA	NA	NA		
1,3-Dichloro	benzene	100	NA	NA	NA	NA		
1,4-Dichloro	benzene	80	NA	NA	NA	NA		
2-Chlorophe	enol	100	NA	NA	NA	ND(0.0052)		
4-Chlorophe	enol	Not Listed	NA	NA	NA	ND(0.0052)		
Naphthalene)	100	NA	NA	NA	NA		
Phenol		100	NA	NA	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	95B-R	111A-R	111B-R	114A		
Parameter	Date Collected:	for GroundWater	05/08/08	05/06/08	05/14/08	05/13/08		
Volatile Organics								
1,4-Dioxane		100	ND(40) J	ND(0.10) J	ND(0.10) J	ND(0.10) J		
2-Butanone		100	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	0.011 J		
Acetone		100	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	0.15 J		
Benzene		100	2.3	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Carbon Tetra	achloride	50	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Chlorobenze	ene	10	10	ND(0.0010)	ND(0.0010)	0.00018 J		
Chloroform		100	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
Toluene		100	ND(0.40)	0.00015 J	ND(0.0010)	ND(0.0010)		
Trichloroethe	ene	50	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)		
PCBs-Filter	ed							
None Detect	ted		NA	NA	NA			
Semivolatile	e Organics							
1,2-Dichloro	benzene	20	NA	NA	NA	NA		
1,3-Dichloro	benzene	100	NA	NA	NA	NA		
1,4-Dichloro	benzene	80	NA	NA	NA	NA		
2-Chlorophe	nol	100	ND(0.014)	NA	NA	NA		
4-Chlorophe	nol	Not Listed	ND(0.022)	NA	NA	NA		
Naphthalene)	100	NA	NA	NA	NA		
Phenol		100	NA	NA	NA	NA		

Table 10 Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 **Groundwater Management Area 3**

General Electric Compnay - Pittsfield, Massachusetts

(Results are presented in parts per million, ppm)

Sample ID:	MCP UCL	114B-R	115A	115B					
Parameter Date Collected:	for GroundWater	05/13/08	05/15/08	05/15/08					
Volatile Organics									
1,4-Dioxane	100	ND(4.0) J	ND(0.10) J	ND(0.10) J					
2-Butanone	100	ND(0.20) J	ND(0.0050) J	ND(0.0050) J					
Acetone	100	ND(0.20) J	ND(0.0050) J	ND(0.0050) J					
Benzene	100	0.020 J	ND(0.0010)	ND(0.0010)					
Carbon Tetrachloride	50	ND(0.040)	ND(0.0010)	ND(0.0010)					
Chlorobenzene	10	1.4	ND(0.0010)	ND(0.0010)					
Chloroform	100	ND(0.040)	ND(0.0010)	ND(0.0010)					
Toluene	100	ND(0.040)	ND(0.0010)	ND(0.0010)					
Trichloroethene	50	ND(0.040)	ND(0.0010)	ND(0.0010)					
PCBs-Filtered									
None Detected			NA	NA					
Semivolatile Organics									
1,2-Dichlorobenzene	20	NA	NA	NA					
1,3-Dichlorobenzene	100	NA	NA	NA					
1,4-Dichlorobenzene	80	NA	NA	NA					
2-Chlorophenol	100	NA	NA	NA					
4-Chlorophenol	Not Listed	NA	NA	NA					
Naphthalene	100	NA	NA	NA					
Phenol	100	NA	NA	NA					

Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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.
- ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- With the exception of natural attenuation parameters, only those constituents detected in one or more samples are summarized. Natural attenuation parameter results are presented in Table 11. Field duplicate sample results are presented in brackets.
- 6. Shading indicates that value exceeds UCL Standards.
- 7. -- Indicates that all constituents for the parameter group were not detected.
- 8.

Data Qualifiers:

Organics (volatiles, 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.

Natural Attenuation Parameters

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

Table 11
Natural Attenuation Parameter Analytical Results

	Sample ID:	2A	16A	16B-R	16C-R	39B-R
Parameter	Date Collected:	05/01/08	05/01/08	05/01/08	05/01/08	04/30/08
Volatile Orga	nics					
1,4-Dioxane		ND(1000) J [ND(1000) J]	ND(200) J	ND(0.10) J	ND(0.10) J	ND(40) J
2-Butanone		ND(50) J [ND(50) J]	ND(10) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Acetone		ND(50) J [ND(50) J]	ND(10) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Benzene		21 [23]	13	0.00075 J	ND(0.0010)	0.67
Chlorobenzen	е	77 [97]	37	0.0011	ND(0.0010)	16
Toluene		1.1 J [1.3 J]	0.62 J	ND(0.0010)	ND(0.0010)	0.21 J
Trichloroether	ne	6.4 J [7.5 J]	ND(2.0)	0.00044 J	ND(0.0010)	0.20 J
PCBs-Filtered	d					
None Detecte	d	NA	NA	NA	NA	NA
Semivolatile	Organics					
1,2-Dichlorobe	enzene	NA	NA	NA	NA	0.12
1,3-Dichlorobe	enzene	NA	NA	NA	NA	0.0090 J
1,4-Dichlorobe	enzene	NA	NA	NA	NA	0.25
2-Chloropheno	ol	ND(0.0051) [ND(0.0051)]	0.022	NA	NA	ND(0.053)
4-Chloropheno	ol	ND(0.0051) [ND(0.0051)]	0.062	NA	NA	NA
Naphthalene		NA	NA	NA	NA	0.091
Phenol		NA	NA	NA	NA	0.038 J
Natural Atten	uation Parameters					
Alkalinity		170 [170]	450	530	120	310
Chloride		8.9 [8.6]	1900	270	1.2	110
Ethane		ND(0.020) [ND(0.020)]	ND(0.10)	ND(0.10)	ND(0.020)	ND(0.020)
Dissolved Iron)	ND(0.100) J	1.23	0.0246 J	ND(0.100) J	ND(0.100) J
Dissolved Org	anic Carbon	2.09 [2.17]	32.9	6.44	0.856	6.24
Ethene		ND(0.020) [ND(0.020)]	0.37	ND(0.10)	ND(0.020)	ND(0.020)
Methane		ND(0.00720) [ND(0.00720)]	1.91	1.52 J	ND(0.00720)	0.182
Nitrate Nitroge		ND(0.300) [ND(0.300)]	ND(0.300)	ND(0.300)	0.190 B	0.507
Nitrite Nitroge		ND(0.300) [ND(0.300)]	ND(3.00)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbid	imetric)	22.2 [21.9]	0.951	15.7	6.38	5.61

Table 11
Natural Attenuation Parameter Analytical Results

Sample ID: Parameter Date Collected:	39D-R 04/30/08	39E 05/06/08	43A 04/30/08	43B 04/30/08	89A 05/05/08
Volatile Organics	0-7700700	00/00/00	0-1/00/00	0-400100	00/00/00
1,4-Dioxane	ND(0.10) J	ND(0.10) J	0.18 J	0.041 J [ND(0.10) J]	ND(100) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(5.0) J
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(5.0) J
Benzene	0.00033 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	7.1
Chlorobenzene	0.040	0.00024 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]	26
Toluene	0.00015 J	0.00025 J	ND(0.0010)	ND(0.0010) [0.00019 J]	ND(1.0)
Trichloroethene	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(1.0)
PCBs-Filtered		<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
None Detected	NA	NA	NA	NA	NA
Semivolatile Organics					
1,2-Dichlorobenzene	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA NA	
2-Chlorophenol	NA	NA	NA	NA	ND(0.0052)
4-Chlorophenol	NA	NA	NA	NA	ND(0.0052)
Naphthalene	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA
Natural Attenuation Parameters					
Alkalinity	130	87.0	520	580 [580]	330
Chloride	5.5	25	22	53 [50]	380
Ethane	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	ND(0.20)
Dissolved Iron	0.0401 J	1.21	ND(0.100) J	0.0246 J	ND(0.100) J
Dissolved Organic Carbon	0.844 B	4.35	2.03	2.77 [2.74]	7.00
Ethene	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	ND(0.20)
Methane	ND(0.00720)	1.16	0.0180	1.51 [1.66]	4.36
Nitrate Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	ND(0.300)
Nitrite Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	ND(3.00)
Sulfate (turbidimetric)	20.4	ND(0.300)	103	ND(0.300) [ND(0.300)]	ND(0.300)

Table 11
Natural Attenuation Parameter Analytical Results

Parameter	Sample ID: Date Collected:	89B 05/05/08	89D-R 05/05/08	90A 05/14/08	90B 05/14/08	95A 05/14/08	95B-R 05/08/08
Volatile Organ		03/03/06	03/03/06	03/14/06	03/14/00	03/14/06	03/06/06
1,4-Dioxane	IIC5	ND(0.20) J	ND(160) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(40) J
2-Butanone		ND(0.20) J ND(0.010) J	ND(160) J	ND(0.10) J ND(0.0050) J	\ /	ND(0.10) J	ND(40) J
		\ /	(/ -	. ,	ND(0.0050) J	\ /	\ /
Acetone		ND(0.010) J	ND(8.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(2.0) J
Benzene		0.0067	8.1	ND(0.0010)	ND(0.0010)	ND(0.0010)	2.3
Chlorobenzene	9	0.048	32	ND(0.0010)	ND(0.0010)	0.00035 J	10
Toluene		ND(0.0020)	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)
Trichloroethen		ND(0.0020)	ND(1.6)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)
PCBs-Filtered							
None Detected	l	NA	NA	NA	NA	NA	NA
Semivolatile C	Organics						
1,2-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobe	nzene	NA	NA	NA	NA	NA	NA
2-Chloropheno	ol	ND(0.0051)	NA	NA	NA	ND(0.0052)	ND(0.014)
4-Chloropheno	ol	ND(0.0051)	NA	NA	NA	ND(0.0052)	ND(0.022)
Naphthalene		NA	NA	NA	NA	NA	NA
Phenol		NA	NA	NA	NA	NA	NA
Natural Attent	uation Parameters						
Alkalinity		160	320	180	110	130	240
Chloride		180	590	14	8.5	0.77	160
Ethane		ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)
Dissolved Iron		0.902	0.141 J	0.0211 J	3.68	ND(0.100) J	0.0214 J
Dissolved Orga	anic Carbon	5.28	8.52	1.60	5.77	0.660 B	3.92
Ethene		ND(0.020)	0.76	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)
Methane		0.338	1.62	0.0930	0.0700	0.156	0.871
Nitrate Nitroge	n	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Nitrite Nitroger		ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Sulfate (turbidi		0.582	2.68	14.2	12.1	4.41	4.76

Table 11
Natural Attenuation Parameter Analytical Results

Sample ID Parameter Date Collected		111B-R 05/14/08	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
	03/06/06	05/14/06	03/13/06	05/15/06	05/15/06	05/15/06
Volatile Organics	ND(0.40) I	LID(0.40)	ND(0.40) I	LID(4.0)	ND(0.40)	ND(0.40)
1,4-Dioxane	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(4.0) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050) J	ND(0.0050) J	0.011 J	ND(0.20) J	ND(0.0050) J	ND(0.0050) J
Acetone	ND(0.0050) J	ND(0.0050) J	0.15 J	ND(0.20) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.020 J	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	ND(0.0010)	0.00018 J	1.4	ND(0.0010)	ND(0.0010)
Toluene	0.00015 J	ND(0.0010)	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.040)		ND(0.0010)	ND(0.0010)
PCBs-Filtered						
None Detected	NA	NA			NA	NA
Semivolatile Organics						
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameter	S					
Alkalinity	140	160	170	230	150	220
Chloride	86	4.3	1.4	160	ND(0.3)	18
Ethane	ND(0.020)	ND(0.020)	ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Dissolved Iron	0.0432 J	0.0449 J	ND(0.100)	0.0461 B	ND(0.100)	ND(0.100)
Dissolved Organic Carbon	1.18	1.31	4.36	4.61	ND(1.0)	ND(1.0)
Ethene	ND(0.020)	ND(0.020)	ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Methane	ND(0.00720)	ND(0.00720)	10.9	1.32	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	ND(0.300)	4.29	ND(0.300)	ND(0.300)	ND(0.300)	0.168 B
Nitrite Nitrogen	ND(0.300)	ND(0.300)	ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbidimetric)	71.6	169	1.88	9.43	4.03	14.8

Notes:

- 1. Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- 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).
- NA Not Analyzed.
- 4. ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- 5. With the exception of natural attenuation parameters only those constituents detected in one or more samples are summarized.
- 6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

Natural Attenuation Parameters

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

Table 12
Proposed Interim Groundwater Quality Monitoring Program

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

		Sampli	ng Schedule &	Analyses		
Well Number	Monitoring Well Usage	Current Annual Analyses	Proposed ^(2,3) Annual Analyses	Proposed ⁽⁴⁾ Semi-Annual Analyses	Basis for Inclusion or Exclusion/Comments	
2A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
6B-R	GW-3 Perimeter	VOC	VOC (3)	NONE	Average chlorobenzene concentrations are greater than the GW-3 Standard. Continued interim sampling and analysis proposed to assess increase in VOC concentrations observed since fall 2005, including exceedance of GW-3 Standard for benzene detected in fall 2007.	
16A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
16B-R	GW-2 Sentinel/Natural Attenuation	See Note 6	See Note 6 (2)	PCB	Interim sampling proposed to continue under the natural attenuation monitoring program and to evaluate compliance with new MCP GW-2 standard for PCBs.	
16C-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39B-R	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39D-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
39E	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
43A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
43B	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
51-14	GW-2 Sentinel	VOC	VOC (3)	PCB	Average carbon tetrachloride concentration is slightly below the GW-2 Standard (i.e., greater than 50%). Continued interim sampling for VOCs proposed to further assess. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	
82B-R	GW-3 Perimeter	PCB	NONE	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB concentrations are well below revised GW-3 standard, no further PCB sampling proposed.	
89A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
89B	GW-3 Perimeter/Natural Attenuation	See Note 5	See Note 5 (2)	NONE	Average chlorobenzene concentration is greater than the GW-3 Standard. Interim sampling to continue under the natural attenuation monitoring program.	
89D-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	

Table 12
Proposed Interim Groundwater Quality Monitoring Program

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008

		Sampli	ing Schedule &	Analyses		
Well Number	Monitoring Well Usage	Current Annual Analyses	Proposed ^(2,3) Annual Analyses	Proposed ⁽⁴⁾ Semi-Annual Analyses	Basis for Inclusion or Exclusion/Comments	
90A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
90B	GW-3 Perimeter/Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. No changes to the natural attenuation monitoring program are proposed.	
95A	Natural Attenuation	See Note 5	See Note 5 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
95B-R	GW-3 Perimeter/Natural Attenuation	See Note 5	See Note 5 (2)	NONE	Average chlorobenzene concentration is greater than the GW-3 Standard. Interim sampling to continue under the natural attenuation monitoring program.	
111A-R	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
111B-R	GW-3 Perimeter/Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. No changes to the natural attenuation monitoring program are proposed.	
114A	Natural Attenuation / Supplemental	See Note 7	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed. PCBs have not been detected in this well and PCB concentrations in adjacent water table well 114B-R are well below revised GW-3 standard, no further supplemental PCB sampling proposed.	
114B-R	GW-3 Perimeter/Natural Attenuation	See Note 7	See Note 6 (2)	NONE	Average chlorobenzene concentration is slightly below the GW-3 Standard (i.e., greater than 50%). Interim sampling proposed to continue under the natural attenuation monitoring program. PCB concentrations are well below revised GW-3 standard, no further PCB sampling proposed.	
115A	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
115B	Natural Attenuation	See Note 6	See Note 6 (2)	NONE	No changes to the natural attenuation monitoring program are proposed.	
GMA3-1	GW-3 Perimeter	NONE	NONE	Deferred	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.	
GMA3-2	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	
GMA3-4	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.	

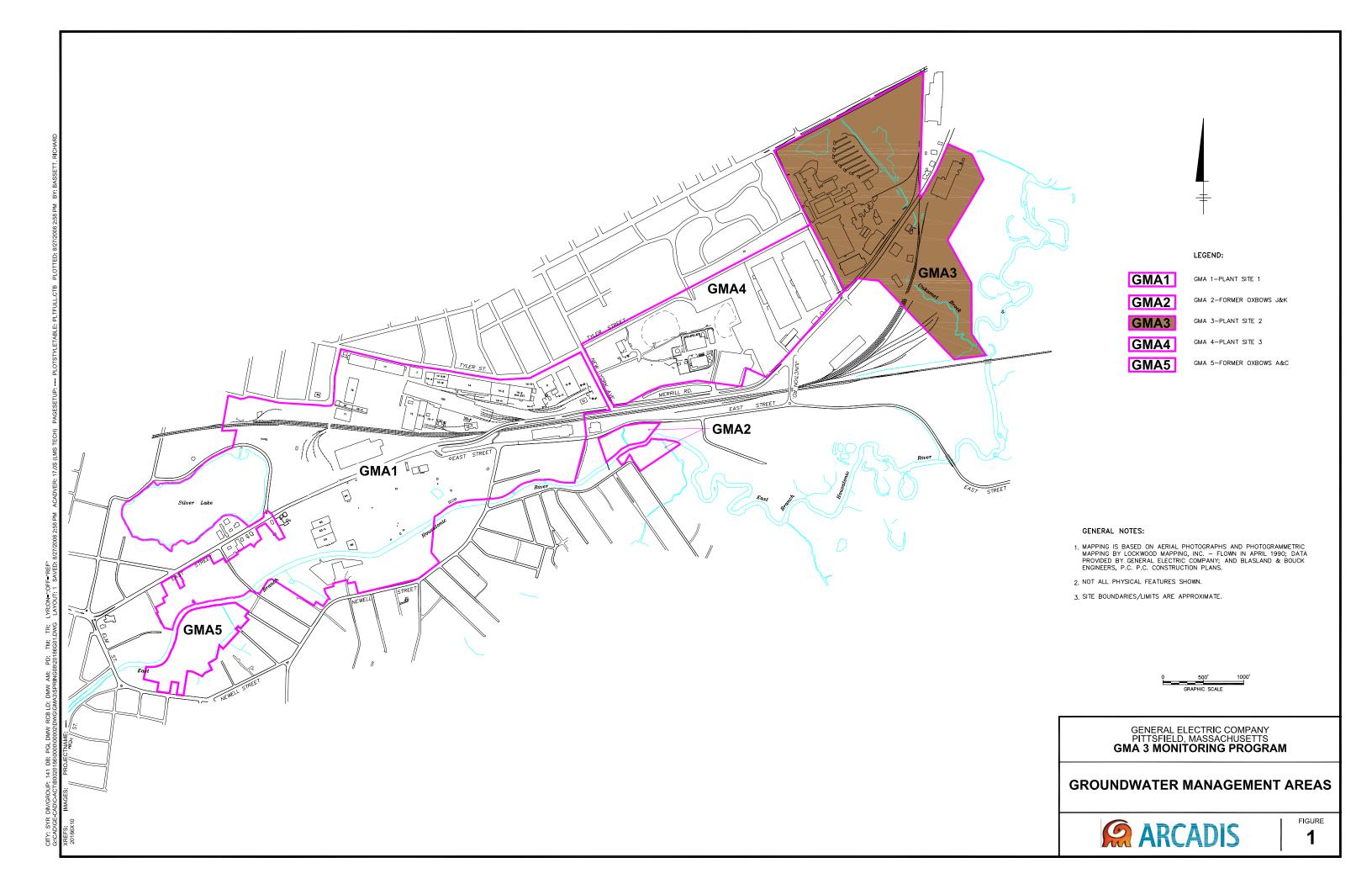
Table 12
Proposed Interim Groundwater Quality Monitoring Program

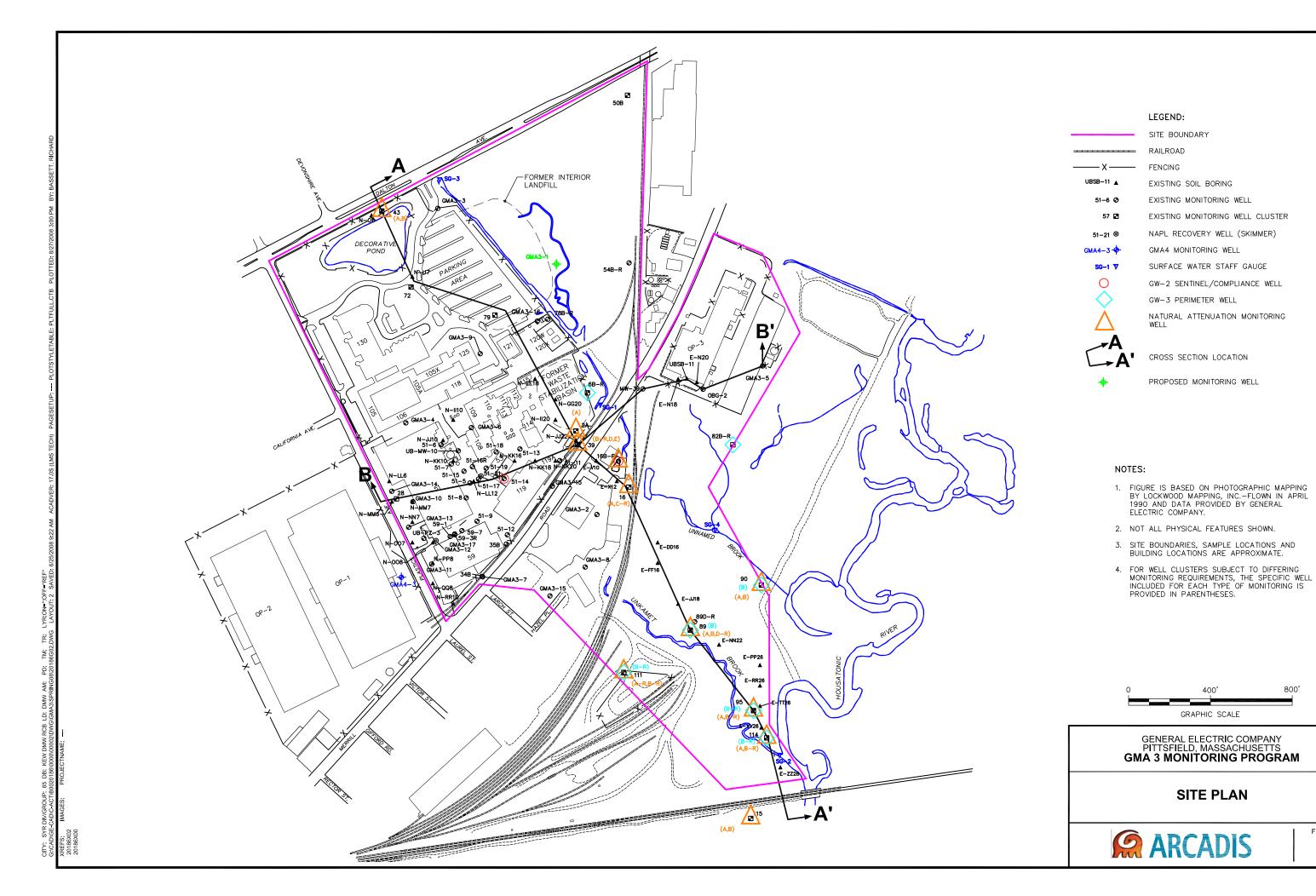
		Sampling Schedule & Analyses			
Well Number	Monitoring Well Usage		Semi-Annual	Basis for Inclusion or Exclusion/Comments	
GMA3-8	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.
GMA3-9	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.
OBG-2	GW-2 Sentinel	NONE	NONE	PCB	No exceedances/near exceedances of applicable Performance Standards observed during baseline program. PCB analyses proposed to evaluate compliance with new MCP GW-2 standard.

NOTES:

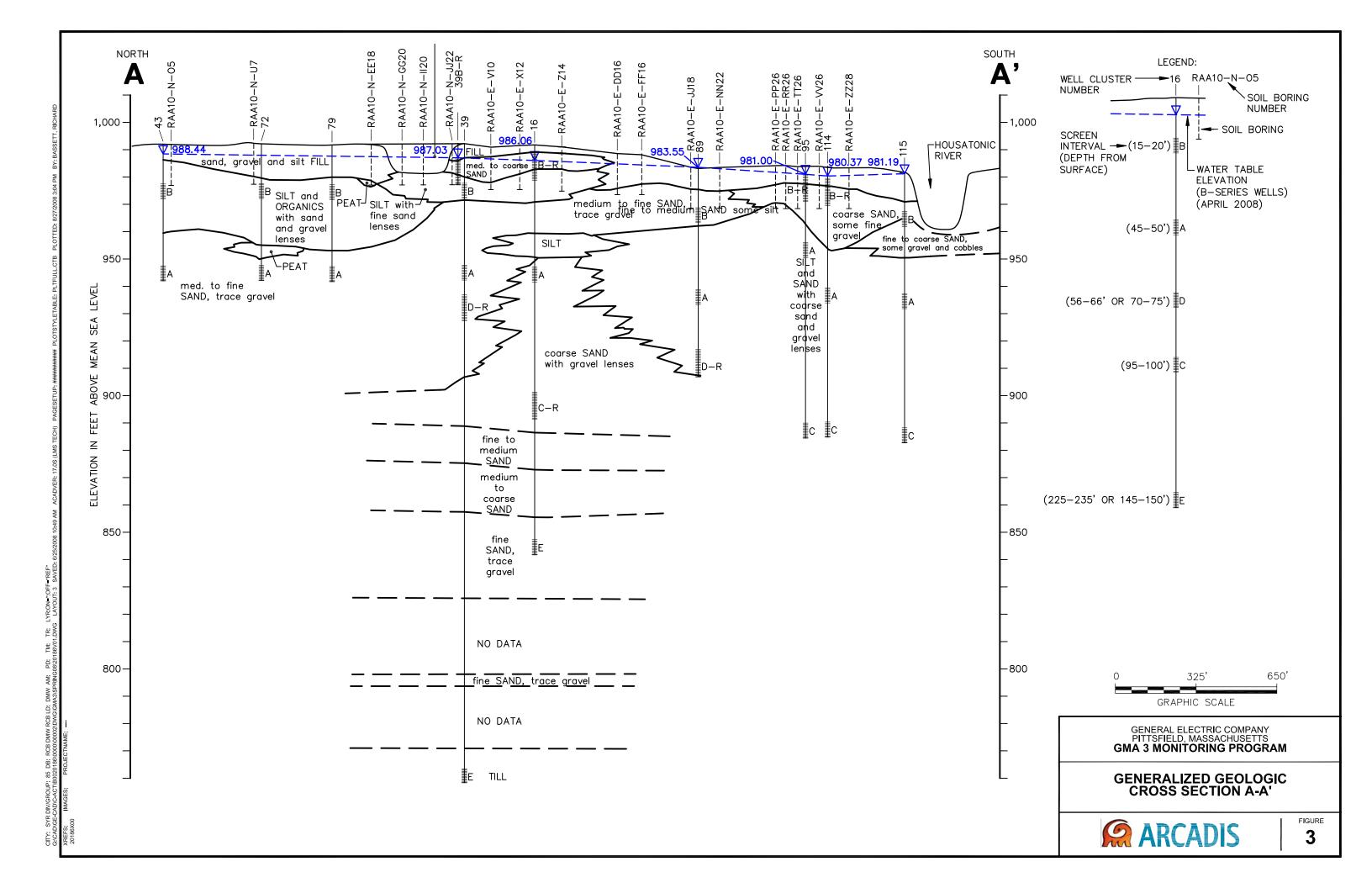
- 1. The wells listed above have been sampled as part of the baseline monitoring program at GMA 3 and/or during the interim groundwater quality monitoring program.
- 2. Wells sampled under the natural attenuation monitoring program are proposed to continue to be sampled on an annual basis in the spring.
- 3. Wells proposed for annual interim groundwater quality sampling, will be sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule is proposed to alternate between the spring and fall seasons each year, with the next sampling round scheduled for fall 2009.
- 4. The wells proposed for semi-annual groundwater quality sampling 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.
- 5. Samples proposed to be analyzed for: VOCs, two SVOCs (2-chlorophenol and 4-chlorophenol), and Natural Attenuation Parameters (methane, ethane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 6. Samples proposed to be analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
- 7. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron) during the spring natural attenuation sampling rounds, and PCBs (filtered samples only) during the alternating spring/fall interim sampling rounds.
- 8. All analyses for PCB and metals will be performed on filtered samples only.

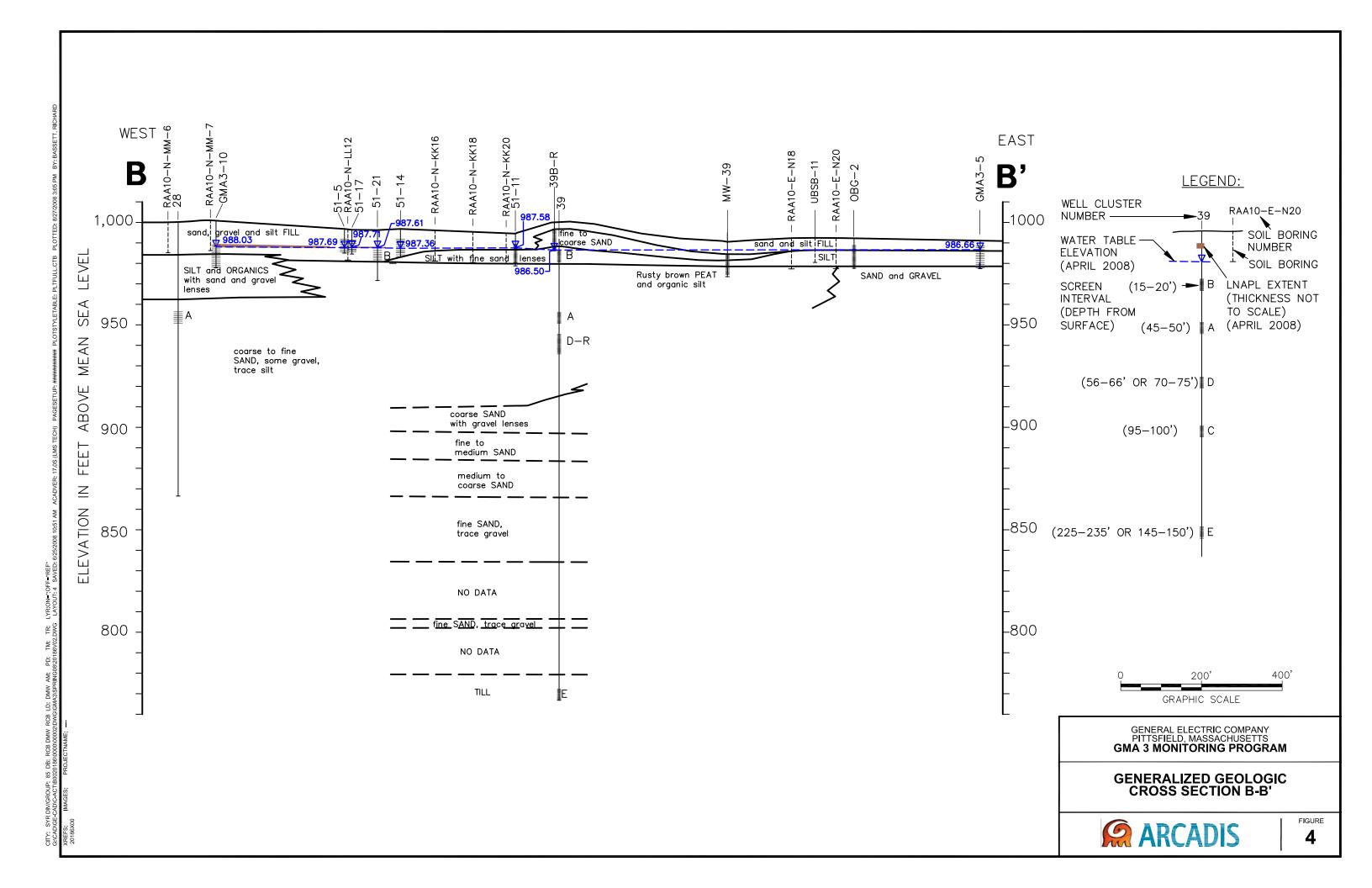
Figures

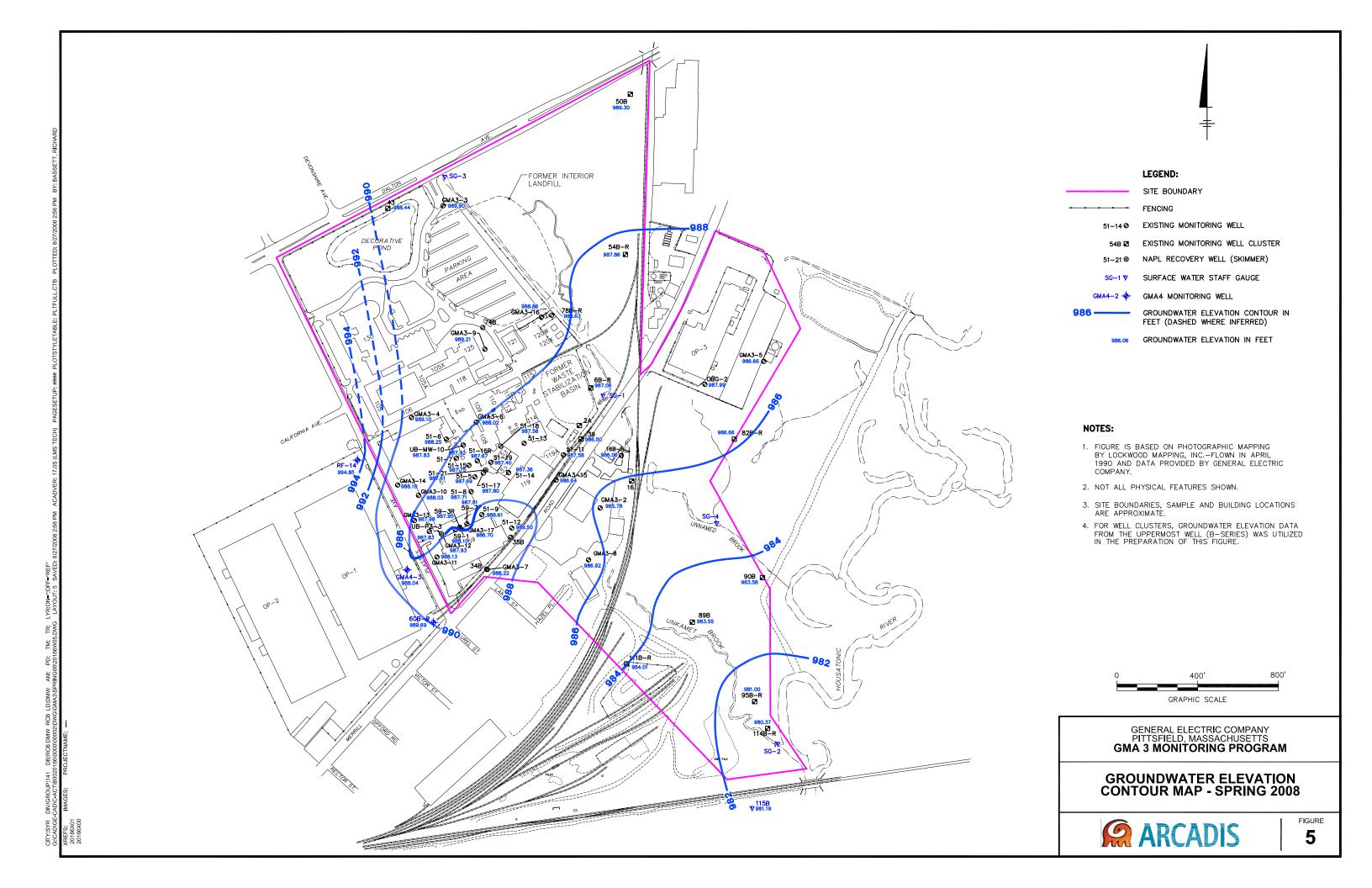


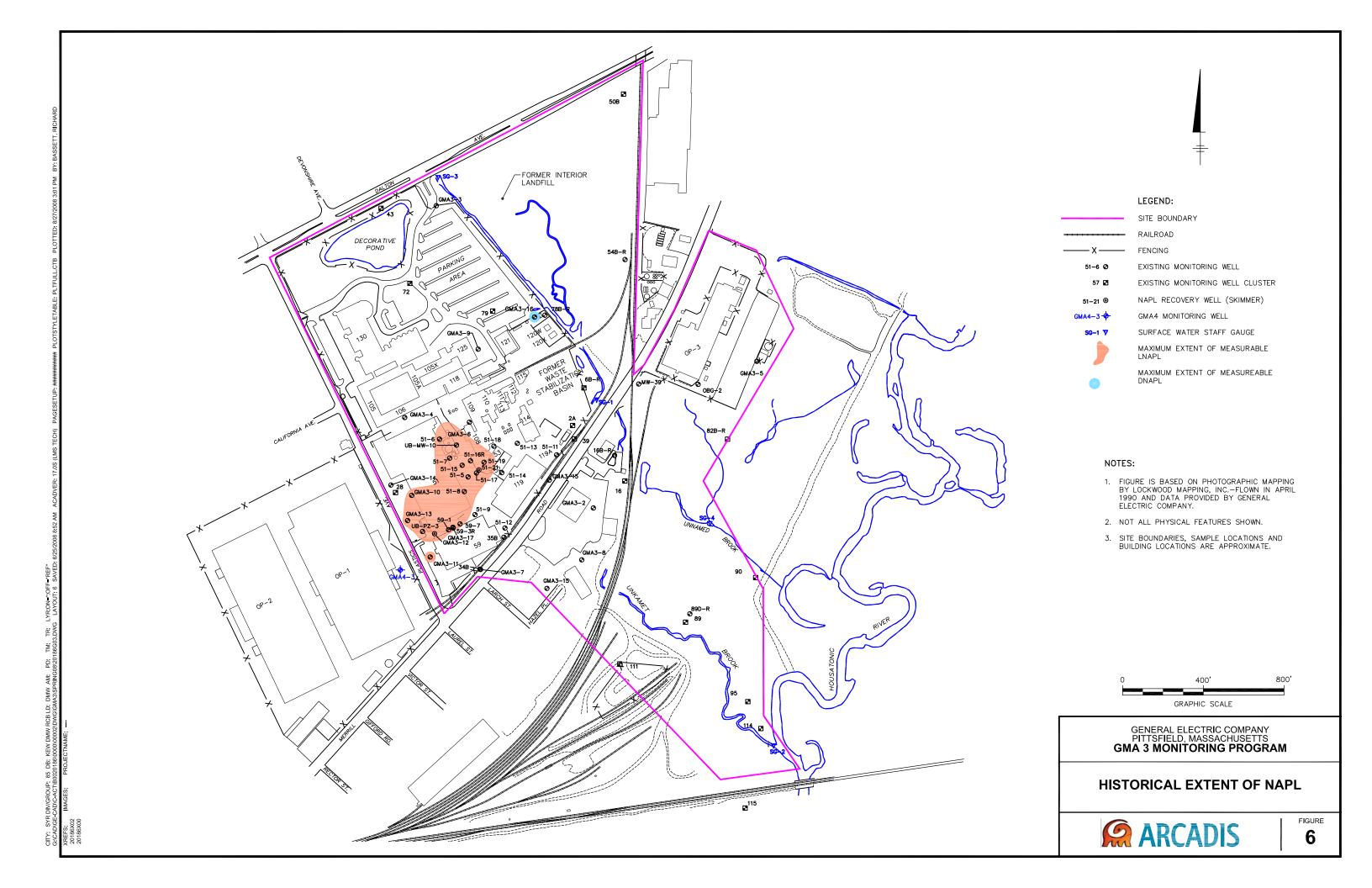


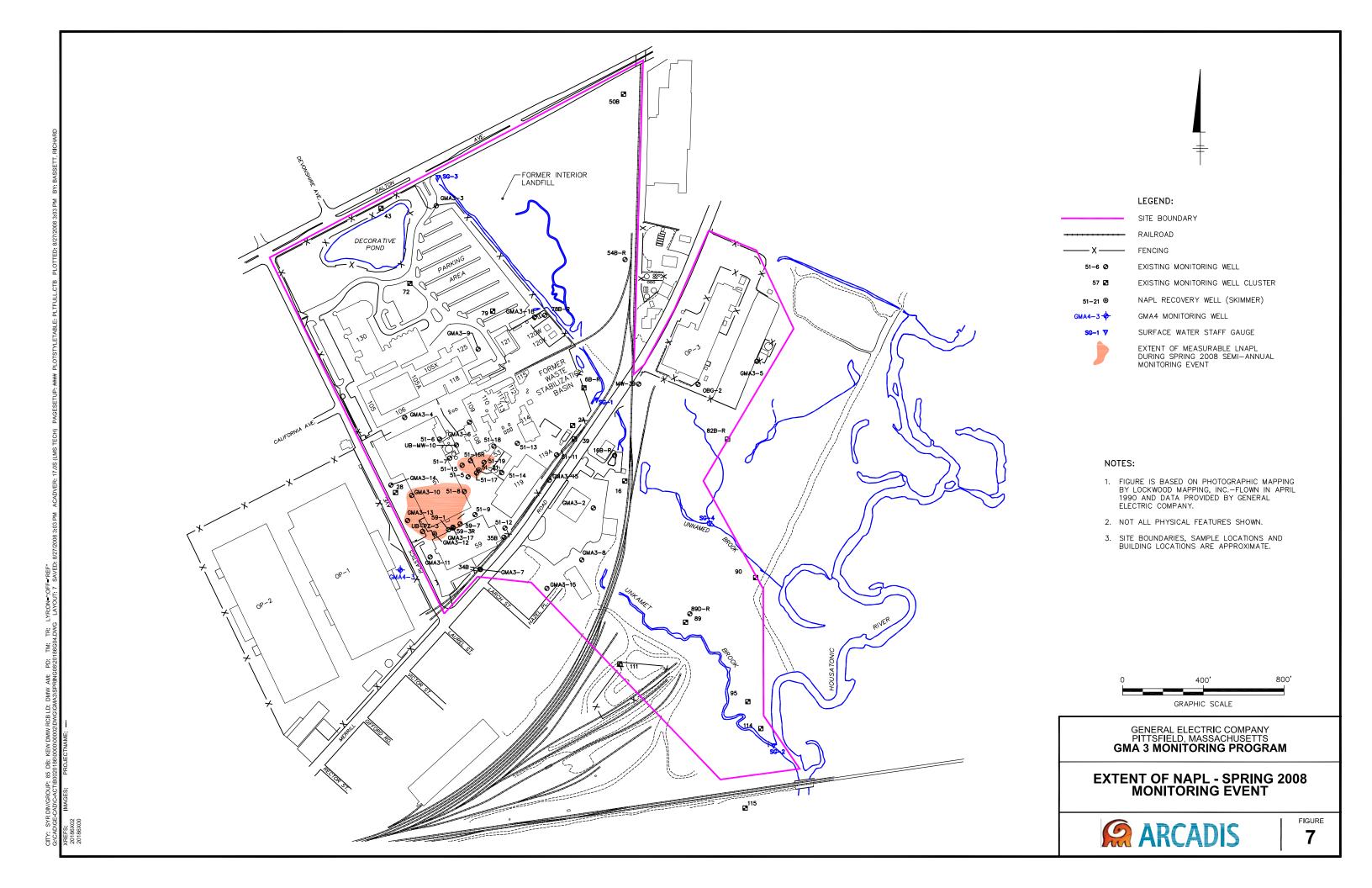
FIGURE

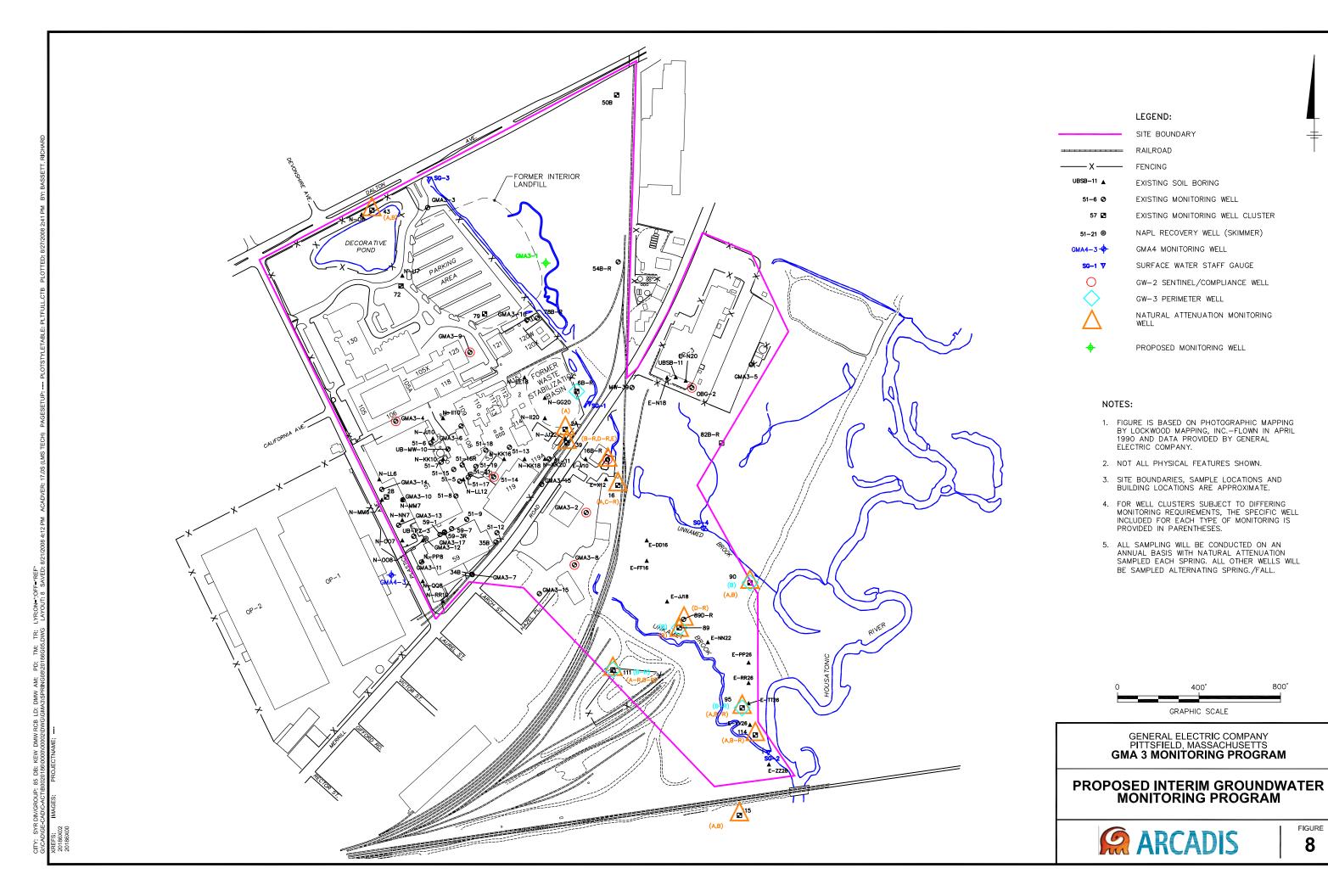












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Appendices

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Appendix A

Groundwater Elevation and NAPL Monitoring/Recovery Data

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
GMA 3 Monitori	ng Wells										
002A	994.16	4/15/2008	7.23		0.00		55.10	0.00	986.93		
002A	994.16	5/1/2008	7.54		0.00		54.95	0.00	986.62		
006B-R	993.62	4/15/2008	6.56		0.00		14.81	0.00	987.06		
006B-R	993.62	5/2/2008	6.76		0.00		14.61	0.00	986.86		
016A	991.77	4/16/2008	6.20		0.00		51.07	0.00	985.57		
016A	991.77	5/1/2008	6.48		0.00		50.90	0.00	985.29		
016B-R	994.87	4/16/2008	8.81		0.00		16.45	0.00	986.06		
016B-R	994.87	5/1/2008	8.98		0.00		16.56	0.00	985.89		
016C-R	993.23	4/16/2008	7.08		0.00		102.90	0.00	986.15		
016C-R	993.23	5/1/2008	7.30		0.00		102.10	0.00	985.93		
039B-R	991.97	4/15/2008	5.47		0.00		13.89	0.00	986.50		
039B-R	991.97	4/28/2008	5.65		0.00		13.70	0.00	986.32		
039B-R	991.97	4/30/2008	5.65		0.00		13.70	0.00	986.32		
039D-R	994.73	4/15/2008	7.70		0.00		63.46	0.00	987.03		
039D-R	994.73	4/28/2008	7.99		0.00		63.29	0.00	986.74		
039D-R	994.73	4/30/2008	7.99		0.00		63.29	0.00	986.74		
039E	992.21	4/15/2008	4.80		0.00		239.82	0.00	987.41		
039E	992.21	5/6/2008	4.90		0.00		239.92	0.00	987.31		
043A	993.79	4/15/2008	4.82		0.00		51.45	0.00	988.97		
043A	993.79	4/28/2008	4.93		0.00		51.20	0.00	988.86		
043A	993.79	4/30/2008	4.93		0.00		51.20	0.00	988.86		
043B	993.61	4/15/2008	5.17		0.00		16.26	0.00	988.44		
043B	993.61	4/28/2008	5.14		0.00		22.15	0.00	988.47		
043B	993.61	4/302008	5.14		0.00		22.15	0.00	988.47		
050B	991.76	4/15/2008	2.46		0.00		15.08	0.00	989.30		
51-05	996.44	1/16/2008	9.99		0.00		10.89	0.00	986.45		
51-05	996.44	2/26/2008	9.20		0.00		10.90	0.00	987.24		
51-05	996.44	3/31/2008	9.87		0.00		10.85	0.00	986.57		
51-05	996.44	4/3/2008	7.96		0.00		10.63	0.00	988.48		
51-05	996.44	4/15/2008	8.75		0.00		10.75	0.00	987.69		
51-05	996.44	5/20/2008	9.21		0.00		10.65	0.00	987.23		
51-05	996.44	6/24/2008	3.78		0.00		10.60	0.00	992.66		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008
Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-06	997.36	1/16/2008	10.59		0.00		14.36	0.00	986.77		
51-06	997.36	2/26/2008	9.90		0.00		14.40	0.00	987.46		
51-06	997.36	3/25/2008	9.14		0.00		14.35	0.00	988.22		
51-06	997.36	4/15/2008	9.11		0.00		14.27	0.00	988.25		
51-06	997.36	5/20/2008	10.13		0.00		14.41	0.00	987.23		
51-06	997.36	6/24/2008	10.60		0.00		14.35	0.00	986.76		
51-07	997.08	1/16/2008	10.58		0.00		11.23	0.00	986.50		
51-07	997.08	2/26/2008	9.90		0.00		11.25	0.00	987.18		
51-07	997.08	3/25/2008	9.20		0.00		11.20	0.00	987.88		
51-07	997.08	4/15/2008	9.16		0.00		11.21	0.00	987.92		
51-07	997.08	5/20/2008	10.10		0.00		11.20	0.00	986.98		
51-07	997.08	6/24/2008	10.60		0.00		11.22	0.00	986.48		
51-08	997.08	12/31/2007	12.03	10.98	1.05		14.60	0.00	986.03	0.648	
51-08	997.08	1/8/2008	12.02	10.90	1.12		14.61	0.00	986.10	0.691	
51-08	997.08	1/16/2008	11.78	10.65	1.13		14.60	0.00	986.35	0.697	
51-08	997.08	1/23/2008	10.85	10.80	0.05		14.60	0.00	986.28		
51-08	997.08	1/30/2008	11.70	10.85	0.85		14.62	0.00	986.17	0.524	
51-08	997.08	2/5/2008	11.40	10.70	0.70		14.62	0.00	986.33	0.432	
51-08	997.08	2/12/2008	11.20	10.45	0.75		14.62	0.00	986.58		
51-08	997.08	2/20/2008	10.02	9.98	0.04		14.61	0.00	987.10		
51-08	997.08	2/26/2008	10.02	10.01	0.01		14.60	0.00	987.07		
51-08	997.08	3/5/2008	10.12	10.10	0.02		14.60	0.00	986.98		
51-08	997.08	3/11/2008	9.48	9.46	0.02		14.60	0.00	987.62		
51-08	997.08	3/18/2008	9.57	9.55	0.02		14.60	0.00	987.53		
51-08	997.08	3/25/2008	9.48	9.45	0.03		14.60	0.00	987.63		
51-08	997.08	3/31/2008	9.71	9.61	0.10		14.67	0.00	987.46		
51-08	997.08	4/3/2008	9.46	9.42	0.04		14.58	0.00	987.66	0.025	
51-08	997.08	4/9/2008	9.30	9.25	0.05		14.62	0.00	987.83		
51-08	997.08	4/15/2008	9.39	9.37	0.02		14.58	0.00	987.71		
51-08	997.08	4/22/2008	9.72	9.71	0.01		14.60	0.00	987.37		
51-08	997.08	4/29/2008	9.81	9.80	0.01		14.60	0.00	987.28		
51-08	997.08	5/6/2008	10.00	9.98	0.02		14.60	0.00	987.10		
51-08	997.08	5/14/2008	10.30	10.25	0.05		14.60	0.00	986.83		

Table A-1
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Groundwater Management Area 3

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-08	997.08	5/20/2008	10.35	10.33	0.02		14.60	0.00	986.75		
51-08	997.08	5/27/2008	10.54	10.50	0.04		14.60	0.00	986.58		
51-08	997.08	6/2/2008	10.75	10.72	0.03		14.61	0.00	986.36		
51-08	997.08	6/10/2008	10.67	10.65	0.02		14.60	0.00	986.43		
51-08	997.08	6/18/2008	10.80	10.70	0.10		14.60	0.00	986.37		
51-08	997.08	6/24/2008	10.90	10.73	0.17		14.60	0.00	986.34		
51-09	997.70	1/16/2008	10.36		0.00		11.59	0.00	987.34		
51-09	997.70	2/26/2008	9.45		0.00		11.60	0.00	988.25		
51-09	997.70	3/25/2008	9.14		0.00		11.60	0.00	988.56		
51-09	997.70	4/15/2008	9.09		0.00		11.58	0.00	988.61		
51-09	997.70	5/20/2008	9.90		0.00		11.58	0.00	987.80		
51-09	997.70	6/24/2008	10.40		0.00		11.60	0.00	987.30		
51-11	994.37	1/16/2008	7.48		0.00		13.45	0.00	986.89		
51-11	994.37	2/26/2008	7.30		0.00		13.48	0.00	987.07		
51-11	994.37	3/25/2008	6.60		0.00		13.54	0.00	987.77		
51-11	994.37	4/15/2008	6.79		0.00		13.52	0.00	987.58		
51-11	994.37	5/20/2008	7.90		0.00		13.52	0.00	986.47		
51-11	994.37	6/24/2008	8.10		0.00		13.50	0.00	986.27		
51-12	996.55	1/16/2008	7.32		0.00		13.33	0.00	989.23		
51-12	996.55	2/26/2008	6.98		0.00		13.32	0.00	989.57		
51-12	996.55	3/25/2008	6.85		0.00		13.34	0.00	989.70		
51-12	996.55	4/15/2008	7.05		0.00		13.34	0.00	989.50		
51-12	996.55	5/20/2008	7.35		0.00		13.35	0.00	989.20		
51-12	996.55	6/24/2008	7.75		0.00		13.34	0.00	988.80		
51-13	997.42	1/16/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	2/26/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	3/25/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-13	997.42	4/15/2008	Dry at 9.82 (fee	t BMP)			9.82	0.00	NA		
51-13	997.42	5/20/2008	Dry at 9.82 (fee	t BMP)			9.82	0.00	NA		
51-13	997.42	6/24/2008	Dry at 9.83 (fee	t BMP)			9.83	0.00	NA		
51-14	996.77	11/2/2007	11.48		0.00		14.64	0.00	985.29		
51-14	996.77	1/16/2008	10.49		0.00		14.68	0.00	986.28		
51-14	996.77	2/26/2008	9.85		0.00		14.66	0.00	986.92		

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Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-14	996.77	3/25/2008	9.30		0.00		14.66	0.00	987.47		
51-14	996.77	4/15/2008	9.41		0.00		14.70	0.00	987.36		
51-14	996.77	5/2/2008	9.87		0.00		14.46	0.00	986.90		
51-14	996.77	5/20/2008	10.25		0.00		14.60	0.00	986.52		
51-14	996.77	6/24/2008	10.60		0.00		14.62	0.00	986.17		
51-15	996.43	1/16/2008	10.06	9.97	0.09		14.38	0.00	986.45		
51-15	996.43	2/26/2008	9.31	9.26	0.05		14.40	0.00	987.17		
51-15	996.43	3/31/2008	9.00	8.87	0.13		14.48	0.00	987.55		
51-15	996.43	4/3/2008	8.80	8.69	0.11		14.40	0.00	987.73	0.068	
51-15	996.43	4/15/2008	8.69	8.68	0.01		14.38	0.00	987.75		
51-15	996.43	5/20/2008	9.64	9.60	0.04		14.38	0.00	986.83		
51-15	996.43	6/24/2008	10.11	10.10	0.01		14.40	0.00	986.33		
51-16R	996.39	1/16/2008	9.98	9.96	0.02		14.55	0.00	986.43		
51-16R	996.39	2/26/2008	9.22		0.00		14.55	0.00	987.17		
51-16R	996.39	3/31/2008	8.94		0.00		14.57	0.00	987.45		
51-16R	996.39	4/3/2008	9.72		0.00		14.56	0.00	986.67		
51-16R	996.39	4/15/2008	8.73	8.72	0.01		14.52	0.00	987.67		
51-16R	996.39	5/20/2008	9.65	9.60	0.05		14.52	0.00	986.79		
51-16R	996.39	6/24/2008	10.04	10.02	0.02		14.52	0.00	986.37		
51-17	996.43	1/16/2008	10.99	9.76	1.23		14.49	0.00	986.58	0.760	
51-17	996.43	2/26/2008	9.32	9.14	0.18		14.50	0.00	987.28		
51-17	996.43	3/31/2008	9.26	8.81	0.45		14.59	0.00	987.59		
51-17	996.43	4/3/2008	8.99	8.58	0.41		14.55	0.00	987.82	0.253	
51-17	996.43	4/15/2008	8.65	8.63	0.02		14.47	0.00	987.80		
51-17	996.43	5/20/2008	9.68	9.65	0.03		14.48	0.00	986.78		
51-17	996.43	6/24/2008	10.04	9.95	0.09		14.50	0.00	986.47		
51-18	997.12	1/16/2008	10.63		0.00		12.61	0.00	986.49		
51-18	997.12	2/26/2008	10.00		0.00		12.60	0.00	987.12		
51-18	997.12	3/25/2008	9.60		0.00		12.60	0.00	987.52		
51-18	997.12	4/15/2008	9.56		0.00		12.57	0.00	987.56		
51-18	997.12	5/20/2008	10.44		0.00		12.60	0.00	986.68		
51-18	997.12	6/24/2008	10.70		0.00		12.60	0.00	986.42		
51-19	996.43	1/16/2008	10.74	10.15	0.59		14.09	0.00	986.24	0.364	

Table A-1 **Groundwater Elevation And Monitoring/Recovery Data** January 2008 - June 2008 **Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008**

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
51-19	996.43	2/26/2008	9.54	9.50	0.04		14.09	0.00	986.93		
51-19	996.43	3/31/2008	9.27	9.21	0.06		14.15	0.00	987.22		
51-19	996.43	4/3/2008	9.02	8.98	0.04		14.07	0.00	987.45	0.025	
51-19	996.43	4/15/2008	9.04	9.03	0.01		14.07	0.00	987.40		
51-19	996.43	5/20/2008	9.97	9.90	0.07		14.06	0.00	986.53		
51-19	996.43	6/24/2008	10.24	10.21	0.03		14.05	0.00	986.22		
51-21	1,001.49	1/2/2008	15.38	Р	< 0.01		NM	0.00	986.11	6.44	
51-21	1,001.49	1/8/2008	15.32	Р	< 0.01		NM	0.00	986.17	2.27	
51-21	1,001.49	1/15/2008	15.10	15.09	0.01		NM	0.00	986.40		
51-21	1,001.49	1/22/2008	15.20	15.19	0.01		NM	0.00	986.30	4.16	
51-21	1,001.49	1/29/2008	15.39		0.00		NM	0.00	986.10	1.14	
51-21	1,001.49	2/6/2008	15.28	Р	< 0.01		NM	0.00	986.21		
51-21	1,001.49	2/14/2008	14.70	Р	< 0.01		NM	0.00	986.79		
51-21	1,001.49	2/19/2008	14.37	14.36	0.01		NM	0.00	987.13		
51-21	1,001.49	2/27/2008	14.51	14.50	0.01		NM	0.00	986.99		
51-21	1,001.49	3/4/2008	14.70	14.69	0.01		NM	0.00	986.80		
51-21	1,001.49	3/12/2008	14.10	14.04	0.06		NM	0.00	987.45		
51-21	1,001.49	3/18/2008	14.02	13.99	0.03		NM	0.00	987.50		
51-21	1,001.49	3/25/2008	14.70	14.60	0.10		NM	0.00	986.88		
51-21	1,001.49	4/3/2008	13.80	Р	< 0.01		NM	0.00	987.69		
51-21	1,001.49	4/7/2008	13.70	Р	< 0.01		NM	0.00	987.79		
51-21	1,001.49	4/15/2008	13.88	Р	< 0.01		NM	0.00	987.61		
51-21	1,001.49	4/22/2008	14.18	Р	< 0.01		NM	0.00	987.31		
51-21	1,001.49	4/29/2008	14.75	Р	< 0.01		NM	0.00	986.74		
51-21	1,001.49	5/6/2008	14.47	Р	< 0.01		NM	NM	987.02		
51-21	1,001.49	5/13/2008	14.79	Р	< 0.01		NM	NM	986.70		
51-21	1,001.49	5/21/2008	15.69	Р	< 0.01		NM	NM	985.80		
51-21	1,001.49	5/28/2008	15.00	Р	< 0.01		NM	NM	986.49		
51-21	1,001.49	6/4/2008	15.20	Р	< 0.01		NM	0.00	986.29		
51-21	1,001.49	6/11/2008	15.02	Р	< 0.01		NM	0.00	986.47		
51-21	1,001.49	6/17/2008	15.20	Р	< 0.01		NM	0.00	986.29		
51-21	1,001.49	6/25/2008	15.11	Р	< 0.01		NM	0.00	986.38		
054B-R	991.49	4/15/2008	3.63		0.00		15.58	0.00	987.86		

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Groundwater Management Area 3

C	Broundwater Qu Broundwater Ma Beneral Electric	nagement Area	-	•	Spring 2008
	Well	Measuring Point Elev.	Date	Depth to Water	Depth to

Well	Measuring Point Elev.	Date	Depth to Water	Depth to LNAPL	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)	Date	(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
59-01	997.52	1/16/2008	11.04		0.00		11.43	0.00	986.48		
59-01	997.52	2/26/2008	10.30		0.00		11.38	0.00	987.22		
59-01	997.52	3/31/2008	9.90		0.00		11.49	0.00	987.62		
59-01	997.52	4/3/2008	9.41		0.00		11.47	0.00	988.11		
59-01	997.52	4/15/2008	9.42		0.00		11.43	0.00	988.10		
59-01	997.52	5/20/2008	10.35		0.00		11.40	0.00	987.17		
59-01	997.52	6/24/2008	10.90		0.00		11.40	0.00	986.62		
59-03R	997.64	1/16/2008	12.14	11.17	0.97		17.04	0.00	986.40	0.599	
59-03R	997.64	2/26/2008	11.43	10.40	1.03		17.03	0.00	987.17	0.636	
59-03R	997.64	3/31/2008	11.51	10.00	1.51		17.11	0.00	987.53		
59-03R	997.64	4/3/2008	9.76	9.75	0.01		17.05	0.00	987.89	0.006	
59-03R	997.64	4/15/2008	9.70	9.69	0.01		17.03	0.00	987.95		
59-03R	997.64	5/20/2008	12.30	10.70	1.60		17.02	0.00	986.83	0.987	
59-03R	997.64	6/24/2008	11.74	11.15	0.59		17.03	0.00	986.45	0.364	
59-07	997.96	1/16/2008	12.18	11.40	0.78		23.48	0.00	986.51	0.482	
59-07	997.96	2/26/2008	10.68	10.66	0.02		23.50	0.00	987.30		
59-07	997.96	3/31/2008	9.36	9.26	0.10		23.54	0.00	988.69		
59-07	997.96	4/3/2008	10.14	10.07	0.07		23.48	0.00	987.89	0.043	
59-07	997.96	4/15/2008	10.16	10.15	0.01		23.53	0.00	987.81		
59-07	997.96	5/20/2008	11.00	10.98	0.02		23.50	0.00	986.98		
59-07	997.96	6/24/2008	11.46	11.43	0.03		23.48	0.00	986.53		
078B-R	988.83	1/16/2008	0.36		0.00		11.68	0.00	988.47		
078B-R	988.83	2/26/2008	0.15		0.00		11.70	0.00	988.68		
078B-R	988.83	3/25/2008	Well under water	er			NA	NA	NA		
078B-R	988.83	4/15/2008	0.20		0.00		11.71	0.00	988.63		
078B-R	988.83	5/20/2008	0.60		0.00		11.73	0.00	988.23		
078B-R	988.83	6/24/2008	Well is under w	ater			11.73	0.00	NA		
082B-R	989.90	4/16/2008	3.24		0.00		11.87	0.00	986.66		
082B-R	989.90	5/2/2008	3.47		0.00		11.80	0.00	986.43		
089A	985.76	4/16/2008	2.16		0.00		47.32	0.00	983.60		
089A	985.76	5/5/2008	2.60		0.00		47.12	0.00	983.16		
089B	986.03	4/16/2008	2.48		0.00		8.95	0.00	983.55		
089B	986.03	5/5/2008	2.91		0.00		8.73	0.00	983.12		

Table A-1 **Groundwater Elevation And Monitoring/Recovery Data** January 2008 - June 2008 **Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008**

	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
089D-R	987.11	4/16/2008	3.29		0.00		80	0.00	983.82		
089D-R	987.11	5/4/2008	3.91		0.00		79.08	0.00	983.20		
090A	988.07	4/16/2008	5.38		0.00		51.65	0.00	982.69		
090A	988.07	5/14/2008	5.47		0.00		51.42	0.00	982.60		
090B	989.10	4/16/2008	5.52		0.00		12.93	0.00	983.58		
090B	989.10	5/14/2008	6.70		0.00		12.69	0.00	982.40		
095A	987.18	4/16/2008	6.06		0.00		51.02	0.00	981.12		
095A	987.18	5/14/2008	6.81		0.00		50.82	0.00	980.37		
095B-R	986.24	4/16/2008	5.24		0.00		13.63	0.00	981.00		
095B-R	986.24	5/8/2008	5.79		0.00		13.55	0.00	980.45		
111A-R	997.35	4/16/2008	12.63		0.00		52.08	0.00	984.72		
111A-R	997.35	5/6/2008	13.27		0.00		52.10	0.00	984.08		
111B-R	997.48	4/16/2008	13.47		0.00		19.77	0.00	984.01		
111B-R	997.48	5/14/2008	14.30		0.00		19.54	0.00	983.18		
114A	986.16	4/16/2008	5.17		0.00		6.42	0.00	980.99		
114A	986.16	5/13/2008	5.98		0.00		52.18	0.00	980.18		
114B-R	985.54	4/16/2008	5.17		0.00		15.26	0.00	980.37		
114B-R	985.54	5/13/2008	5.99		0.00		15.00	0.00	979.55		
115A	988.53	4/16/2008	6.51		0.00		42.76	0.00	982.02		
115A	988.53	5/15/2008	8.12		0.00		42.58	0.00	980.41		
115B	990.90	4/16/2008	9.71		0.00		15.75	0.00	981.19		
115B	990.90	5/18/2008	11.51		0.00		15.50	0.00	979.39		
GMA3-2	991.94	4/16/2008	6.16		0.00		14.98	0.00	985.78		
GMA3-3	990.45	4/15/2008	0.55		0.00		12.22	0.00	989.90		
GMA3-4	994.60	4/15/2008	5.50		0.00		13.17	0.00	989.10		
GMA3-5	993.67	4/16/2008	7.01		0.00		15.50	0.00	986.66		
GMA3-6	997.49	4/15/2008	15.20		0.00		23.55	0.00	982.29		
GMA3-7	1,000.17	1/16/2008	13.29		0.00		19.83	0.00	986.88		
GMA3-7	1,000.17	4/15/2008	11.95		0.00	-	19.86	0.00	988.22		
GMA3-8	996.24	4/16/2008	9.32		0.00		15.72	0.00	986.92		
GMA3-9	992.39	4/15/2008	3.18		0.00		12.65	0.00	989.21		
GMA3-10	997.54	12/31/2007	11.47	11.45	0.02		17.78	0.00	986.09		
GMA3-10	997.54	1/8/2008	11.47	11.30	0.17		17.78	0.00	986.23	0.105	

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	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-10	997.54	1/16/2008	11.30	11.06	0.24		17.80	0.00	986.46		
GMA3-10	997.54	1/23/2008	11.40	11.00	0.40		17.78	0.00	986.51	0.247	
GMA3-10	997.54	1/30/2008	11.23	11.11	0.12		17.78	0.00	986.42		
GMA3-10	997.54	2/5/2008	11.55	11.15	0.40		17.78	0.00	986.36	0.297	
GMA3-10	997.54	2/12/2008	11.08	10.87	0.21		17.78	0.00	986.66	0.130	
GMA3-10	997.54	2/20/2008	10.56	10.38	0.18		17.70	0.00	987.15		
GMA3-10	997.54	2/26/2008	10.40	10.22	0.18		17.72	0.00	987.31		
GMA3-10	997.54	3/5/2008	10.32	10.30	0.02		17.73	0.00	987.24		
GMA3-10	997.54	3/11/2008	10.15	9.86	0.29		17.74	0.00	987.66	0.179	
GMA3-10	997.54	3/18/2008	10.14	9.75	0.39		17.73	0.00	987.76	0.241	
GMA3-10	997.54	3/25/2008	9.78	9.60	0.18		17.74	0.00	987.93		
GMA3-10	997.54	4/3/2008	9.99	9.60	0.39		17.74	0.00	987.91	0.241	
GMA3-10	997.54	4/9/2008	9.72	9.40	0.32		17.74	0.00	988.12	0.197	
GMA3-10	997.54	4/15/2008	10.26	9.45	0.81		17.71	0.00	988.03	0.500	
GMA3-10	997.54	4/22/2008	10.60	9.65	0.95		17.72	0.00	987.82	0.586	
GMA3-10	997.54	4/29/2008	10.54	9.89	0.65		17.71	0.00	987.60	0.401	
GMA3-10	997.54	5/6/2008	10.48	10.04	0.44		17.74	0.00	987.47	0.271	
GMA3-10	997.54	5/14/2008	10.80	10.30	0.50		17.71	0.00	987.21	0.308	
GMA3-10	997.54	5/20/2008	10.85	10.45	0.40		17.74	0.00	987.06	0.247	
GMA3-10	997.54	5/27/2008	10.98	10.60	0.38		17.74	0.00	986.91	0.234	
GMA3-10	997.54	6/2/2008	11.10	10.80	0.30		17.71	0.00	986.72	0.185	
GMA3-10	997.54	6/10/2008	11.04	10.87	0.17		17.76	0.00	986.66		
GMA3-10	997.54	6/18/2008	11.00	10.94	0.06		17.74	0.00	986.60		
GMA3-10	997.54	6/24/2008	11.30	10.97	0.33		17.72	0.00	986.55	0.204	
GMA3-11	997.25	12/31/2007	12.40		0.00		18.10	0.00	984.85		
GMA3-11	997.25	1/8/2008	10.60		0.00		18.07	0.00	986.65		
GMA3-11	997.25	1/16/2008	10.38		0.00		18.10	0.00	986.87		
GMA3-11	997.25	1/23/2008	10.38		0.00		18.08	0.00	986.87		
GMA3-11	997.25	1/30/2008	10.45		0.00		18.08	0.00	986.80		
GMA3-11	997.25	2/5/2008	10.50		0.00		18.05	0.00	986.75		
GMA3-11	997.25	2/12/2008	10.18		0.00		18.10	0.00	987.07		
GMA3-11	997.25	2/20/2008	9.75		0.00		18.02	0.00	987.50		
GMA3-11	997.25	2/26/2008	9.70		0.00		18.03	0.00	987.55		

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	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-11	997.25	3/5/2008	9.65		0.00		18.02	0.00	987.60		
GMA3-11	997.25	3/11/2008	9.40		0.00		18.02	0.00	987.85		
GMA3-11	997.25	3/18/2008	9.30		0.00		18.01	0.00	987.95		
GMA3-11	997.25	3/25/2008	9.20		0.00		18.00	0.00	988.05		
GMA3-11	997.25	4/3/2008	9.17		0.00		18.03	0.00	988.08		
GMA3-11	997.25	4/9/2008	8.98		0.00		18.00	0.00	988.27		
GMA3-11	997.25	4/15/2008	9.12		0.00		18.08	0.00	988.13		
GMA3-11	997.25	4/22/2008	9.20		0.00		17.98	0.00	988.05		
GMA3-11	997.25	4/29/2008	9.40		0.00		17.98	0.00	987.85		
GMA3-11	997.25	5/6/2008	9.58		0.00		17.98	0.00	987.67		
GMA3-11	997.25	5/14/2008	9.70		0.00		17.98	0.00	987.55		
GMA3-11	997.25	5/20/2008	9.76		0.00		17.95	0.00	987.49		
GMA3-11	997.25	5/27/2008	9.90		0.00		17.98	0.00	987.35		
GMA3-11	997.25	6/2/2008	10.10		0.00		17.95	0.00	987.15		
GMA3-11	997.25	6/24/2008	10.25		0.00		17.96	0.00	987.00		
GMA3-12	997.84	12/31/2007	11.88	11.75	0.13		21.20	0.00	986.08		
GMA3-12	997.84	1/8/2008	11.74	11.61	0.13		21.20	0.00	986.22	0.321	
GMA3-12	997.84	1/16/2008	11.50	11.38	0.12		21.22	0.00	986.45		
GMA3-12	997.84	1/23/2008	11.44	11.35	0.09		21.22	0.00	986.48		
GMA3-12	997.84	1/30/2008	11.62	11.50	0.12		21.22	0.00	986.33		
GMA3-12	997.84	2/5/2008	11.66	11.50	0.16		21.23	0.00	986.33		
GMA3-12	997.84	2/12/2008	11.36	11.18	0.18		21.20	0.00	986.65	0.111	
GMA3-12	997.84	2/20/2008	10.83	10.65	0.18		21.20	0.00	987.18		
GMA3-12	997.84	2/26/2008	10.64	10.58	0.06		21.21	0.00	987.26		
GMA3-12	997.84	3/5/2008	10.72	10.65	0.07		21.21	0.00	987.19		
GMA3-12	997.84	3/11/2008	10.19	10.14	0.05		21.20	0.00	987.70		
GMA3-12	997.84	3/18/2008	10.20	10.13	0.07		21.21	0.00	987.71		
GMA3-12	997.84	3/25/2008	10.07	9.95	0.12		21.21	0.00	987.88		
GMA3-12	997.84	3/31/2008	10.35	10.14	0.21		21.23	0.00	987.69		
GMA3-12	997.84	4/3/2008	9.98	9.92	0.06		21.22	0.00	987.92	0.148	
GMA3-12	997.84	4/9/2008	9.80	9.78	0.02		21.22	0.00	988.06		
GMA3-12	997.84	4/15/2008	10.02	9.90	0.12		21.20	0.00	987.93		
GMA3-12	997.84	4/22/2008	10.17	10.14	0.03		21.22	0.00	987.70		

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Groundwater Management Area 3
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Well	Measuring Point Elev.	Date	Depth to Water	Depth to	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)	Date	(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-12	997.84	4/29/2008	10.35	10.33	0.02		21.22	0.00	987.51		
GMA3-12	997.84	5/6/2008	10.52	10.50	0.02		21.24	0.00	987.34		
GMA3-12	997.84	5/14/2008	10.75	10.70	0.05		21.22	0.00	987.14		
GMA3-12	997.84	5/20/2008	10.94	10.87	0.07		21.25	0.00	986.97		
GMA3-12	997.84	5/27/2008	11.11	11.03	0.08		21.22	0.00	986.80		
GMA3-12	997.84	6/2/2008	11.25	11.22	0.03		21.24	0.00	986.62		
GMA3-12	997.84	6/10/2008	11.30	11.21	0.09		21.22	0.00	986.62		
GMA3-12	997.84	6/18/2008	11.38	11.30	0.08		21.24	0.00	986.53		
GMA3-12	997.84	6/24/2008	11.40	11.35	0.05		21.22	0.00	986.49		
GMA3-13	997.73	12/31/2007	11.65		0.00		17.40	0.00	986.08		
GMA3-13	997.73	1/8/2008	11.48		0.00		17.40	0.00	986.25		
GMA3-13	997.73	1/16/2008	11.30		0.00		17.40	0.00	986.43		
GMA3-13	997.73	1/23/2008	11.63	11.15	0.48		17.40	0.00	986.55	0.296	
GMA3-13	997.73	1/30/2008	11.55	11.24	0.31		17.40	0.00	986.47	0.191	
GMA3-13	997.73	2/5/2008	11.41	11.33	0.08		17.40	0.00	986.39	0.049	
GMA3-13	997.73	2/12/2008	11.18	11.03	0.15		17.40	0.00	986.69	0.093	
GMA3-13	997.73	2/20/2008	10.78	10.55	0.23		17.40	0.00	987.16	0.142	
GMA3-13	997.73	2/26/2008	10.85	10.39	0.46		17.40	0.00	987.31		
GMA3-13	997.73	3/5/2008	10.55	10.48	0.07		17.40	0.00	987.25	0.043	
GMA3-13	997.73	3/11/2008	10.25	10.01	0.24		17.38	0.00	987.70		
GMA3-13	997.73	3/18/2008	10.10	9.95	0.15		17.40	0.00	987.77	0.093	
GMA3-13	997.73	3/25/2008	9.90	9.84	0.06		17.40	0.00	987.89	0.037	
GMA3-13	997.73	4/3/2008	9.80	9.75	0.05		17.40	0.00	987.98	0.031	
GMA3-13	997.73	4/9/2008	9.59	9.56	0.03		17.40	0.00	988.17	0.019	
GMA3-13	997.73	4/15/2008	9.85	9.74	0.11		17.46	0.00	987.98	0.068	
GMA3-13	997.73	4/22/2008	9.90	9.89	0.01		17.38	0.00	987.84	0.006	
GMA3-13	997.73	4/29/2008	10.12	10.10	0.02		17.38	0.00	987.63	0.012	
GMA3-13	997.73	5/6/2008	10.25	10.21	0.04		17.38	0.00	987.52	0.025	
GMA3-13	997.73	5/14/2008	10.50		0.00		17.40	0.00	987.23		
GMA3-13	997.73	5/20/2008	10.64	10.63	0.01		17.38	0.00	987.10		
GMA3-13	997.73	5/27/2008	10.87	10.82	0.05		17.38	0.00	986.91	0.031	
GMA3-13	997.73	6/2/2008	11.03	10.96	0.07		17.40	0.00	986.77	0.043	
GMA3-13	997.73	6/10/2008	11.17	11.03	0.14		17.40	0.00	986.69		

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Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
GMA3-13	997.73	6/18/2008	11.20	11.19	0.01		17.40	0.00	986.54	0.006	
GMA3-13	997.73	6/24/2008	11.35	11.15	0.20		17.38	0.00	986.57	0.123	
GMA3-14	997.42	1/16/2008	10.47		0.00		16.55	0.00	986.95		
GMA3-14	997.42	2/26/2008	10.00		0.00		16.50	0.00	987.42		
GMA3-14	997.42	4/15/2008	9.32		0.00		16.51	0.00	988.10		
GMA3-14	997.42	5/20/2008	10.24		0.00		16.44	0.00	987.18		
GMA3-14	997.42	6/24/2008	10.78		0.00		16.45	0.00	986.64		
GMA3-15	996.74	1/16/2008	10.92		0.00		17.21	0.00	985.82		
GMA3-15	996.74	4/15/2008	10.10		0.00		17.28	0.00	986.64		
GMA3-16	989.26	12/31/2007	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	1/8/2008	Water just abov	e riser			12.48	0.00	NA		
GMA3-16	989.26	1/16/2008	0.47		0.00		12.50	0.00	988.79		
GMA3-16	989.26	1/23/2008	0.93		0.00		12.50	0.00	988.33		
GMA3-16	989.26	1/30/2008	0.96		0.00		12.50	0.00	988.30		
GMA3-16	989.26	2/5/2008	Water just abov	e riser			12.48	0.00	NA		
GMA3-16	989.26	2/12/2008	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	2/20/2008	Water just abov	e riser			12.50	0.00	NA		
GMA3-16	989.26	2/26/2008	0.40		0.00		12.42	0.00	988.86		
GMA3-16	989.26	3/5/2008	Water just abov	e riser			NM	NA	NA		
GMA3-16	989.26	3/11/2008	Water just abov	e riser			12.44	0.00	NA		
GMA3-16	989.26	3/18/2008	Water just abov	e riser			12.43	0.00	NA		
GMA3-16	989.26	3/25/2008	Water just abov	e riser			12.43	0.00	NA		
GMA3-16	989.26	4/3/2008	Water just abov	e riser			12.38	0.00	NA		
GMA3-16	989.26	4/9/2008	Water just abov	e riser			12.32	0.00	NA		
GMA3-16	989.26	4/15/2008	0.40		0.00		12.28	0.00	988.86		
GMA3-16	989.26	4/22/2008	0.79		0.00		12.35	0.00	988.47		
GMA3-16	989.26	4/29/2008	0.70		0.00		12.35	0.00	988.56		
GMA3-16	989.26	5/6/2008	0.78		0.00		12.35	0.00	988.48		
GMA3-16	989.26	5/14/2008	1.12		0.00		12.34	0.00	988.14		
GMA3-16	989.26	5/20/2008	0.68		0.00		12.35	0.00	988.58		
GMA3-16	989.26	5/27/2008	0.98		0.00		12.34	0.00	988.28		
GMA3-16	989.26	6/2/2008	0.96		0.00		12.35	0.00	988.30		
GMA3-16	989.26	6/24/2008	0.50		0.00		12.35	0.00	988.76		

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	Measuring		Depth	Depth to	LNAPL	Depth to	Total	DNAPL	Corrected	LNAPL	DNAPL
Well	Point Elev.	Date	to Water	LNAPL	Thickness	DNAPL	Depth	Thickness	Water Elev.	Removed	Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
GMA3-17	1,002.00	12/31/2007	15.95	15.91	0.04		23.28	0.00	986.09	0.099	
GMA3-17	1,002.00	1/8/2008	15.97	15.82	0.15		23.28	0.00	986.17	0.371	
GMA3-17	1,002.00	1/16/2008	15.60	15.55	0.05		23.29	0.00	986.45	0.124	
GMA3-17	1,002.00	1/23/2008	15.75	15.58	0.17		23.29	0.00	986.41	0.420	
GMA3-17	1,002.00	1/30/2008	15.77	15.71	0.06		23.29	0.00	986.29	0.037	
GMA3-17	1,002.00	2/5/2008	15.79	15.70	0.09		23.27	0.00	986.29	0.056	
GMA3-17	1,002.00	2/12/2008	Skimmer Install	ed			NA	NA	NA		
GMA3-17	1,002.00	2/14/2008	16.45	Р	< 0.01		NM	0.00	985.55		
GMA3-17	1,002.00	4/22/2008	16.70	Р	< 0.01		NM	0.00	985.30		
GMA3-17	1,002.00	2/19/2008	16.18	16.16	0.02		NM	0.00	985.84		
GMA3-17	1,002.00	2/27/2008	16.02	16.00	0.02		NM	0.00	986.00		
GMA3-17	1,002.00	5/14/2008	16.70	Р	< 0.01		NM	0.00	985.30		
GMA3-17	1,002.00	3/4/2008	16.30	16.29	0.01		NM	0.00	985.71		
GMA3-17	1,002.00	3/12/2008	16.59	16.16	0.43		NM	0.00	985.81		
GMA3-17	1,002.00	3/18/2008	15.61	15.60	0.01		NM	0.00	986.40		
GMA3-17	1,002.00	3/25/2008	15.31	15.30	0.01		NM	0.00	986.70		
GMA3-17	1,002.00	4/3/2008	15.30	Р	< 0.01		NM	NM	986.70		
GMA3-17	1,002.00	4/7/2008	15.18	Р	< 0.01			NM	986.82		
GMA3-17	1,002.00	4/15/2008	15.30	Р	< 0.01		NM	NM	986.70		
GMA3-17	1,002.00	4/22/2008	15.55	15.54	0.01		NM	NM	986.46		
GMA3-17	1,002.00	4/29/2008	15.75	Р	< 0.01		NM	0.00	986.25		
GMA3-17	1,002.00	5/6/2008	15.90	Р	< 0.01		NM	NM	986.10		
GMA3-17	1,002.00	5/13/2008	16.17	Р	< 0.01		NM	NM	985.83		
GMA3-17	1,002.00	5/21/2008	16.63		0.00		NM	NM	985.37		
GMA3-17	1,002.00	5/28/2008	16.51	Р	< 0.01		NM	NM	985.49		
GMA3-17	1,002.00	6/17/2008	16.80	Р	< 0.01		NM	NM	985.20		
GMA3-17	1,002.00	6/25/2008	16.78	Р	< 0.01		NM	NM	985.22		
OBG-2	992.20	4/16/2008	4.21		0.00		14.88	0.00	987.99		
UB-MW-10	995.99	1/16/2008	9.43		0.00		14.46	0.00	986.56		
UB-MW-10	995.99	2/26/2008	8.70		0.00		14.45	0.00	987.29		
UB-MW-10	995.99	3/25/2008	8.20		0.00		14.30	0.00	987.79		
UB-MW-10	995.99	4/15/2008	8.16		0.00		14.45	0.00	987.83		
UB-MW-10	995.99	5/20/2008	9.10		0.00		14.30	0.00	986.89		

Table A-1
Groundwater Elevation And Monitoring/Recovery Data
January 2008 - June 2008
Groundwater Quality and NARL Monitoring Interim Report for Spring

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2008 Groundwater Management Area 3

General Electric Company - Pittsfield, Massachusetts

Well	Measuring Point Elev.	Date	Depth to Water	Depth to LNAPL	LNAPL Thickness	Depth to DNAPL	Total Depth	DNAPL Thickness	Corrected Water Elev.	LNAPL Removed	DNAPL Removed
Name	(feet)		(ft BMP)	(ft BMP)	(feet)	(ft BMP)	(ft BMP)	(feet)	(feet)	(Liters)	(Liters)
UB-MW-10	995.99	6/24/2008	9.50		0.00		14.35	0.00	986.49		
UB-PZ-3	998.15	1/16/2008	12.03	11.87	0.16		13.41	0.00	986.27		
UB-PZ-3	998.15	2/26/2008	11.41	11.04	0.37		13.42	0.00	987.08	0.057	
UB-PZ-3	998.15	3/31/2008	11.12	10.48	0.64		13.41	0.00	987.63		
UB-PZ-3	998.15	4/3/2008	10.93	10.36	0.57		13.41	0.00	987.75	0.138	
UB-PZ-3	998.15	4/15/2008	10.85	10.28	0.57		13.40	0.00	987.83		
UB-PZ-3	998.15	5/20/2008	11.48	11.30	0.18		13.42	0.00	986.84	0.063	
UB-PZ-3	998.15	6/24/2008	11.95	11.84	0.11		13.40	0.00	986.30	0.038	
Unkamet Brook	Staff Gauges										
GMA3-SG-1	988.90	4/15/2008	4.33	Chiseled squ	uare in concre	te headwall	at Outfall 00	9C	993.23		
GMA3-SG-2	981.61	4/16/2008	2.55	See note 6 r	egarding dep	th to water			984.16		
GMA3-SG-3	989.42	4/15/2008	4.99		egarding dep				994.41		
GMA3-SG-4	989.71	4/16/2008	0.50	See note 6 r	egarding dep	th to water			989.42		
GMA 4 Monitorin	ng Wells (Adjac	ent to GMA3)									
060B-R	1,002.79	4/17/2008	13.10		0.00		20.78	0.00	989.69		
GMA4-3	1,003.95	1/15/2008	17.52		0.00		26.25	0.00	986.43		
GMA4-3	1,003.95	2/26/2008	18.70		0.00		26.24	0.00	985.25		
GMA4-3	1,003.95	3/26/2008	16.00		0.00		26.24	0.00	987.95		
GMA4-3	1,003.95	4/17/2008	15.91		0.00		26.23	0.00	988.04		
GMA4-3	1,003.95	5/20/2008	16.80		0.00		26.24	0.00	987.15		
GMA4-3	1,003.95	6/24/2008	17.40		0.00		26.21	0.00	986.55		
RF-14	1,001.59	4/17/2008	6.74		0.00		22.60	0.00	994.85		

Notes:

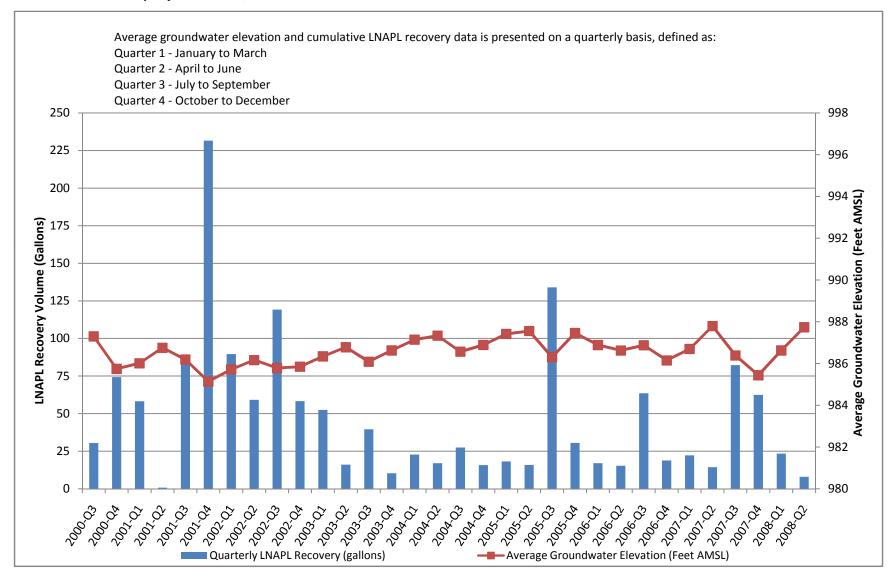
- 1. ft BMP feet Below Measuring Point.
- 2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
- 3. NA indicates information not available.
- 4. NM indicates information not measured.
- 5. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as such.
- 6. Survey reference points were established on the GMA 3 staff gauges. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.

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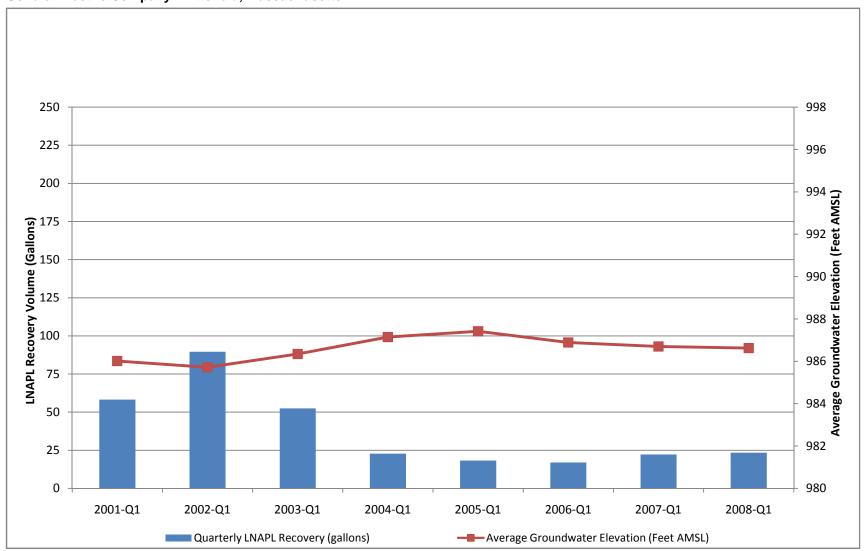
Appendix B

Comparison of Quarterly LNAPL Recovery Volumes to Average Groundwater Elevations

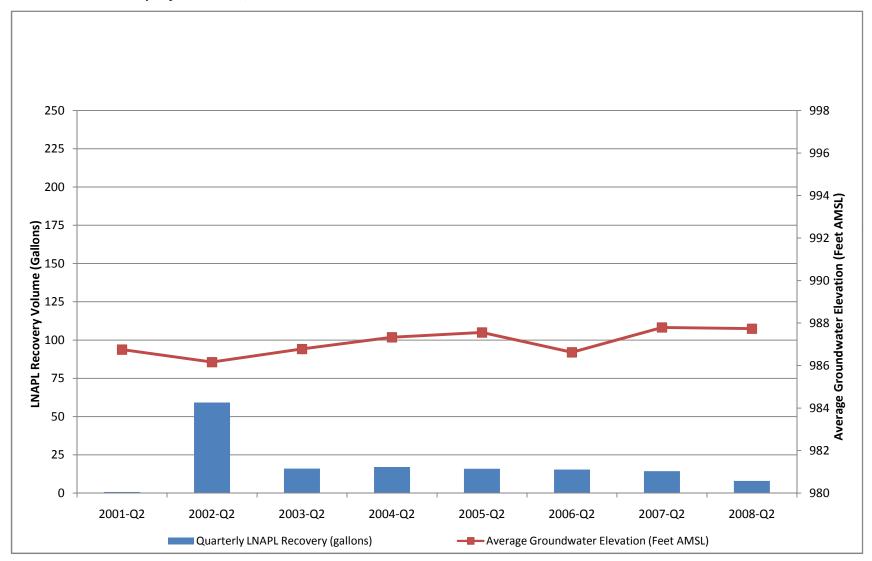
Appendix B
Comparison of Quarterly LNAPL Recovery to Groundwater Elevation



Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 1 (January - March), 2001 to 2008

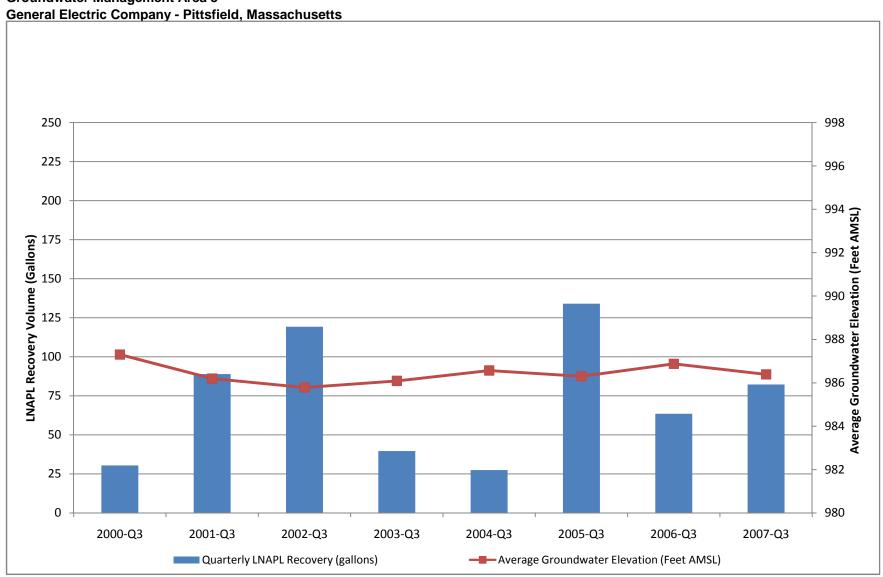


Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 2 (April - June), 2001 to 2008



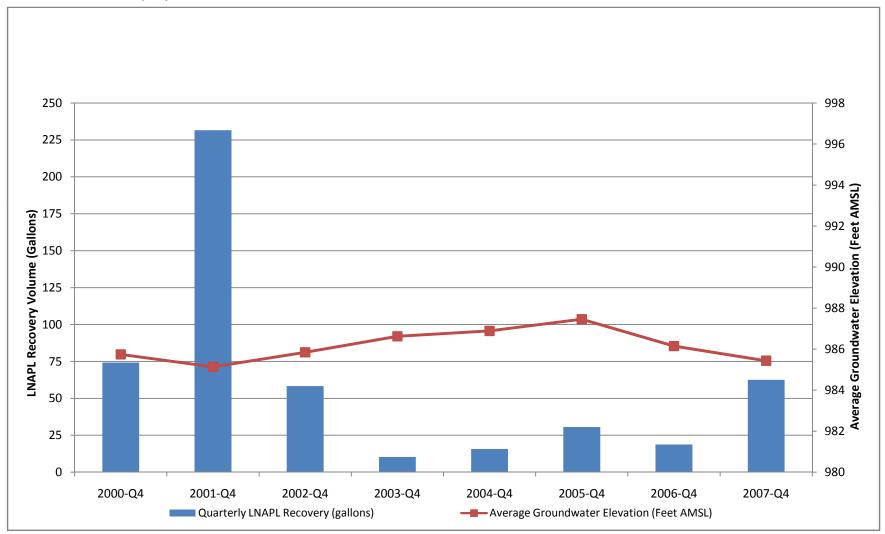
Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 3 (July - September), 2000 to 2007

Groundwater Management Area 3



Appendix B LNAPL Recovery vs. Groundwater Elevation Quarter 4 (October - December), 2000 to 2007

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts



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Appendix C

Field Sampling Data

WELL INFO			4		Weeth	- Clear	≈ 50° Semple 11•		
Refere							Sample Th		
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Height	ios Point Mark	ed? Y N		10.50		f	Sample	ID EM HS	-ZA
	of Reference P		Meas. Fro	mGRADE			Duplicate	((1)	DUP 2
Pa	Well Diam en interval De		Z v :-	m Bas			MSAM: Spilt Sample		
	Veter Table De		Meas. Fro				- Shitt Switchin	10/17	
	Well De	oth <u>\$4.95</u>		·		Required	. Anabeti	cal Parameters:	Collec
-	of Water Colu		Boullons			(X)		Ca (Std. list)	(24)
	e of Water in V n of Pump/Fub		Meas, Fro	7,0		() (x)	VOC	Ca (Exp. list) SVOCa	(
n,ance Dapa	10.000			" ———		()	PO	Se (Total)	
	int identificatio	-				()	PCB	e (Discolved)	(
•	iner (PVC) Ca Cuin (Pontoni	•				()		nonganica (Total)	(
•	Outer (Protect Ground Surfec					()		ganios (Dissolved) unide (Dissolved)	(
						()	=	mide (Dissolved)	ì
edevelop?	Y (N)					()	PCI	DOs/PCDFs	(
						()	Pesticio	ion/Horbicides	
									(
P Minu Volume of V	INFORMATIC rump Start Tim rump Stop Tim rites of Pumpin Vater Remove id Well Go Dry	7403 \ 15:30 82 246	408 2 4.39al	' llons	Evacuation M Peristatic Pur Pump Type: Samples colle	mp (X) se	Othe	al Attenuation or (Specify) Fump () () Other/	(Sipecify ()
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P Minu Volume of V Di	rump Start Tim retes of Pumpin vater Remove d Wall Go Dry Water Quelity Pump Rate	##63 1	Serial Numbers: Water Level	YST. Temp. (Cataius)	Peristatic Pur Pump Type: Samples colle 556	ethod: Bailer (mp (X) Su Cleo M f S Sp. Cond. (ms/cm)	Other Distriction of the Control of	Altenuation or (Specify) Pump () () Other/or on? N (sp	Specify () ecify) ORP (mV)
P Mins Volume of V Di	rump Start Tim res of Pumpin vater Remove d Wall Go Dry Water Quality Pump Rate (L/mirc.)	Motor Type(a)/	Serial Numbers: Water Level (RTC)	YSI.	Peristatic Pur Pump Type: Samples colle	ethod: Bailer (mp (X) Su CLO Cted by seme me M f S	Other District of the Control of the	Altenuation or (Specify) Pump () () Other/on? N (sp	Specify ()
Minu Volume of V Di	rump Start Tim rites of Pumpin vater Remove id Well Go Dry Water Quelity Pump Rate (L/mir.)	Meter Type(a)/: Total Gallone Ramoved 8,37	Serial Numbers: Water Level	YST. Temp. (Coicius) (3%)	Peristatic Pur Pump Type: Samples colle 5 5 6 pH [0.1 units]*	ethod: Bailer (mp (X) Su GLO cted by same me M F S Sp. Cond. (mS/cm) (3%)*	Other Distriction of the Control of	Altenuation or (Specify) Pump () () Other/ on? N (sp 4 6 A OCI (mg/f) [10% or 0.1 mg/f)	Specify () scify) ORP (mV) [10 mV]
Volume of V	rump Start Time rump Stop Time rises of Pumpin Vater Remove d Well Go Dry Water Quality Pump Rate (L/min.)	Motor Type(a) // Total Gallone Removed 8:37 0.63	Serial Numbers: Water Level (RTC) 7.72	YST. Temp. (Column) [3%]* [0.43]	Peristatic Pur Pump Type: Samples cofe 556 pH j0.1 unite;*	sethod: Bailer (mp (X) Started by serine me M f 5 Sp. Cond. (m@lem) (3%)* 0.336	Other District of the Control of the	Altenuation or (Specify) Pump () () Other/or on? N (sp 4 6 A] OC (mg/l) (10% or 0.1 mg/l) 3.8/	Specify () ecify) ORP (mV) [10 mV]
Valume of V Di Time 1415 420 425	rump Start Tim rites of Pumpin vater Remove id Well Go Dry Water Quelity Pump Rate (L/mir.)	#63 15:30 82 46 67 7 10 10 10 10 10 10 10	Seriel Numbers: Water Level (RTIC) 7.72 7.74 7.74	YST. Temp. (Column) 13%)* 10.83	Peristatic Pur Pump Type: Samples colle 5 5 6 pH j0.1 unitate 9.08 8.68	ethod: Bailer (mp (X) Su GLO Cted by same me M f S (ms/em) (3%)** 0.336 0.357	Other State of the Control of the Co	Alternation or (Specify) Pump () () Other/lon? N (sp 4 6 A] DO (mg/f) (10% or 0.1 mg/f) 3.8/ 3.79	Specify () scily) ORP (mV) [10 mV] -34.9
Minu Volume of V DI Time 1415 420 436 430	rump Start Time rump Stop Time rises of Pumpin Vater Remove d Well Go Dry Water Quality Pump Rate (L/min.)	#63 15':30' 82 24' 6 7	Serial Numbers: Water Level (NTIC) 7.72 7.74 7.74 7.74	YST. Temp. (Codatus) 13%7 10.43 10.87 10.45	Peristatic Pur Pump Type: Semples colle 556 pH j0.1 uniter 9.08 8.68 8.45	ethod: Bailer (mp (X) Su GLO (Cted by series me M f S (ms/cm) (3%)* 0.336 0.337	Other District of the Control of the	Alternation or (Specify) Pump () () Other/or (Specify) OC (mg/f) (10% or 0.1 mg/f) 3.87 2.89	Specify () ecsty) (mv) [10 mv] -34.9 -2[9.5
1415 420 435	rump Start Time tees of Pumpin voter Remove d Wall Ga Dry Water Quality Pump Rate (L/min.) 200	#63 15:30 82 46 67 7 10 10 10 10 10 10 10	Seriel Numbers: Water Level (RTIC) 7.72 7.74 7.74	YST. Temp. (Colsius) 13%7 10.83 10.87 10.45 10.78	Peristatic Pur Pump Type: Samples colle 556 pH j0.1 unitat* 9.08 8.68 8.45 8.36	athod: Bailer (mp (X) Su GLO	Other Discourse of the Control of th	Alternation of (Specify) Pump () () Other/a on? N (sp 4 6 A (mg/l) (10% or 0.1 mg/l 3.8/ 3.79 2.89	Specify () colly) ORP (mV) 10 mV) -34.8 -219.8 -181. -157.
1415 420 435	rump Start Timites of Pumpin Ites of Pumpin Ites of Pumpin Ites of Pumpin Ites of Pumpin Items (Limite.)	#63 15':30' 82 24' 6 7	Serial Numbers: Water Level (RTIC) 7.72 7.74 7.74 7.74 7.74	YST. Temp. (Codatus) 13%7 10.43 10.87 10.45	Peristatic Pur Pump Type: Semples colle 556 pH j0.1 unital* 9.08 8.68 8.45 8.36 8.34	ethod: Bailer (mp (X) Su GLO (Cted by series me M f S (ms/cm) (3%)* 0.336 0.337	Other State of the Control of the Co	Alternation or (Specify) Pump () () Other/or (Specify) OC (mg/f) (10% or 0.1 mg/f) 3.87 2.89	Specify () cally) ORP (mV) 10 mV) -34.8 -219.8 -181. -157.
1415 420 436 436 440	rump Start Time tees of Pumpin voter Remove d Wall Ga Dry Water Quality Pump Rate (L/min.) 200	#63 15':30' 25':30' 82 2 4 6 7 7 N Meter Type(a) 1 1 1 1 1 1 1 1 1	Serial Numbers: Water Level (RTIC) 7.72 7.74 7.74 7.74 7.74	YST. Temp. (Colsius) 13%7 10.83 10.87 10.45 10.78	Peristatic Pur Pump Type: Samples colle 556 pH j0.1 unitat* 9.08 8.68 8.45 8.36	Selection Sele	Other Discourse of the Control of th	Alternation of (Specify) Pump () () Other/a on? N (sp 4 6 A (mg/l) (10% or 0.1 mg/l 3.8/ 3.79 2.89	Specify () ecify) (mV) [10 mV] -34.9 -2[9.6 -181. -157.
Minu Volume of V Di Time 1415 420 425	rump Start Timites of Pumpin Ites of Pumpin Ites of Pumpin Ites of Pumpin Ites of Pumpin Items (Limite.)	#63 15:30 82 46 7 10 10 10 10 10 10 10	Serial Numbers: Water Level (NTIC) 7.72 7.74 7.74 7.74	YSI. Temp. (Calaina) 1357 10.43 10.45 10.74 10.52	Peristatic Pur Pump Type: Samples colle 556 pH j0.1 unitar* 9.08 8.68 8.45 8.36 8.36 8.34	athod: Bailer (mp (X) Su GLO	Other State of the Control of the Co	Attenuation or (Specify) Pump () () Other/ on? N (sp 4 6 A] OG (mg/l) (10% or 0.1 mg/l) 3.8/ 2.89 2.83 2.38	ORP (mV)

			!	GROUNDWA	TER SAMPLI	NG LOG	•		
	2A				te/GMA 'Name ling Personnel Date Weather	KR/1 5/1108	3-7H D Z		
WELL INFORM	AATION - See	Page 1 Total	Water	Temp.	pН	Sp. Cond.	Turbidity	DO	ORP
Time	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	(mg/l) [10% or 0.1 mg/l]*	(mV) [10 mV]*
1455	280	2.21	7.74	10,45	8,27		2	2.21	
1455		2.48		10.68			2	2.10	-85
1505		2-74	7.71	10.64	425	0.393	2	1.98	-49.1
1508		2.90	7.71	10.73	8.25	0.393	1	1.94	-814
1511	1	3-06	7.71	10.73	8.24	0.394	1	1.90	-40.2
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BSERVATIONS	S/SAMPLING N	METHOD DEVIA	TIONS _	Temp,	I55hes	Due	is) is listed in each Syn		

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233 150 0-66 753 7.86 6,40 0.329 2 4	76.75-	35.6
-58 120 0.82 755 7.83 6.85 0.359 2	3,13	79.6
243 120 038 825 825 6.88 0.379	2.11 -9	82.5
244 120 1.14 7.79 6.92 0.396	1.79 -	87.2
53 120 1.29 8.84 7.80 6.94 0.422 2	1.63	12-890
stabilization criterie for each field perameter (three consecutive readings collected at 3- to 6-minute intervals) is listed in each collected.		4 00
ERVATIONS/SAMPLING METHOD DEVIATIONS 7.82 PH on 1243	m making.	· · · · · · · · · · · · · · · · · · ·
PLE DESTINATION		*
aboratory: 563		
	1 0	

Well No. 6B-R	Site/GMA Name
	Sampling Personnel DA > KLC
	Date 5/2/08
	Weather Diverget 3480

WELL INFORMATION - See Page 1

Time	Pump Rate	Total Gallons	Water Level	Temp. (Celsius)	На	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*		[10% or 0.1 mg/l]*	[10 mV]*
1258	120	1.45	9.12	7.67	6.98	0,446	2	1,53	-89.8
121303		1.61		7.57	7.01	0.479	<u> </u>	1.41	-88.3
1306		1.71	9,42	7,31	7.05	0.611	2 3	1.87	-82.1
1309		1-80		7.34	7.05	0.620	3	1,47	- 1813
1312		1.90	9.56	7.39	7.08	0.626	6	1.29	-90.7
1315	V	1.99	9.68	7.40	7.11	0.628	5	1.24	-94.2
1318	120	2.09		7.41	7.14	0.631	3	1.23	-958
1321	.1	2.18	10/2	7.39	7.15	0.638	3 2	1.24	-98.3
1324	A	2.28		7.33	7.17	0.644	3	1.20	-95.9
				10-7				•	
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* The sta	bilization criteri	a for each fie	ld param	eter (three conse	ecutive readings	collected at 3	3- to 5-minu	ute intervals) is listed in each column heading.	
OBSERV	/ATIONS/SAMI	PLING METH	10D DEV	IATIONS					
Ø	Hose (c	me out	04	Jones Coking	and stuk	ed to D	no Hy	20	
				5					

	· · ·			Sa.	Silu/GBIA Ner ripling Personn Da Weeth		A3 GE	PIBRELO	
Height	PRIMATION non Point Meric of Reference P Well Diams non Interval De	oput 3",	Meas. From	m <u>Grou</u> m	<u>.</u>	t	Semple 7in Sample Duplicate MS/MS Split Sample	HD \GA)
y Longit Volum	Water Table De Well De I of Water Colu Ie of Water in V th of Pump/Tub	pth 50.90 mn 7.25 vell 44.43	Mass. From			Required (×) (×)	, AOC	cal Parameters: Ca (Std. list) ia (Exp. list) SVOCa Sa (Total)	Collected (X)
TIC: Top of I	eint identification nner (PVC) Cer Outer (Protecti Ground Surfec Y	sing ye) Casing				() () () ()	PCB Metale/in Metale/inon EPA Cye PAC Cye PCD Peeticki	ss (Dissolved) in (Dissolved) iorganics (Total) ganics (Dissolved) nide (Dissolved) iox/PCDFs iox/Herbicides i Attenuation	() () () () ()
1	I INFORMATIO Pump Start Time Pump Stop Time	• 15:50 11:35		•	Evacuation M	h /		* ' '	() Specify ()
Volume of \	utee of Pumpin Nater Remove id Well Go Dry' '; Water Quality	5	E759 wll o	ns <u>YSL 5</u>	Pump Type:	Grosom	_ `		ecity)
Volume of \	Water Removed id Well Go Dry' Water Quality Pump Rate	Meter Type(s) / S Total Gallons	Serial Numbers:	YSI F	Pump Type: Samples colle	Cted by same in	othod se evecuation Turbidity (NTU)	DO (mg/f)	ORP (mv)
Volume of V	Water Removed id Well Go Dry Water Quality	Meter Type(e) / 5	Serial Numbers: Water Level (RTIC)	Y51 5	Pump Type: Samples colle	CTEOPOING	Turbidity (NTU)	00392	ORP (mv)
Volume of V	Water Removed id Well Go Dry' Water Quality Pump Rate (Limits)	Motor Type(s)/S Total Gallons Removed 0.17	Water Level (RTIC)	Tomp. (Colaius) [3%]	Pump Type: Samples colle 556 Y	Cted by same in	othod se evecuation Turbidity (NTU)	DO (mg/f) (10% or 0.1 mg/	ORP (mv)
Volume of V	Water Removed Id Well Go Dry' Water Quality Pump Rate (L/min.) 125	Meter Type(e)/5 Total Gallons Removed 0.17 0.33	Water Lovel (RTIC) 6,96	Tomp. (Coistus) [3%]	Pump Type: Samples colle 556 YY pH (0.1 units)*	Cted by same in	Turbidity (NTU) (10% or 1 NTUP	DO (mg/f) (10% or 0.1 mg/	ORP (mV)
Volume of V	Water Removed id Well Go Dry' Water Quality Pump Rate (Limits)	Motor Type(s)/S Total Gallons Removed 0.17	Water Level (RTIC)	Tomp. (Coistus) [3%]	Pump Type: Samples colle 556 YY pH (0.1 units)*	Crocking Cted by same in PS # 2 [Sp. Cond. (Instern) [3%]*	Turbidity (NTU)	DO (mg/f) (10% or 0.1 mg/	ORP (mV)
Time 11:30 11:35 11:38	Water Removed to Well Go Dry' Water Quality Pump Rate (L/min.) 125	Meter Type(s)/S Total Gallons Removed 0.17 0.33	Water Level (RTIC) 6.74 6.19	Tomp. (Coistus) [3%]	Pump Type: Samples colle 556 YY pH (0.1 units)*	Crocking Cted by same in PS # 2 [Sp. Cond. (Instern) [3%]*	Turbidity (NTU) [10% or 1 NTUP	DO (mg/f) (10% or 0.1 mg/	ORP (mV)
Time 11:30 11:35 11:38 11:45	Water Removed Id Well Go Dry' Water Quality Pump Rate (L/min.) 125 125 125	Meter Type(e)/S Total Gallons Removed 0.17 0.33 0.43	Wester Level (RTIC) 6.72 6.96 6.19 7.14	YSI E Temp. (Colaitan) [3%]**	Pump Type: Samples colle 556 YY pH (0.1 units)*	Crocking Cted by same in PS # 2 [Sp. Cond. (Instern) [3%]*	Turbidity (NTU) [10% or 1 NTUP	DO (mg/f) (10% or 0.1 mg/	ORP (mV)
Time 11:30 11:35 11:38 11:45	Water Removed Well Go Dry' Water Quality Pump Rate (L/min.) 125 125 125	Meter Type(e)/S Total Gallons Removed 0.17 0.33 0.43 0.61	Water Level (# TIC) 6.72 6.96 6.19 7.14 7.59	Tomp. (Colsius) [3%]*	Pump Type: Samples colle 556 YY pH (0.1 units)*	Sp. Cond. (ms/cm) (3%)	Turbidity (NTU) [10% or 1 NTUP	DO (mg/f) [10% or 0.1 mg/	ORP (mV)
Time 11:30 11:35 11:45 11:50 12:15 12:30	Pump Rate (Limin.) 125 125 125 100 100 100	Total Gallons Removed 0.17 0.33 0.43 0.61 0.74 1.90 1.80	Wester Level (RTIC) 6.72 6.96 6.19 7.14 7.59 7.75 7.61	YSIF Temp. (Calaius) [3%]	Pump Type: Samples colle 56 Y pH (0.1 unite)*	Sp. Cond. (Instern) (3%)	Turbidity (NTU) (10% or 1 NTU) 13% 115 110 114 110 115 138 129	DO (mg/f) (10% or 0.1 mg)	ORP (mv)
Time 11:30 11:35 11:38 11:45 11:50 12:15 12:30 "The stabilization On Restrict	Water Removed Id Well Go Dry' Water Quality Pump Rate (L/min.) 125 125 100 100 100 n criteria for ea	Total Gallons Removed 0.17 0.33 0.43 0.61 0.74 1.90 1.80	Water Level (RTIC) 6.73 6.96 6.19 7.14 7.59 7.75 7.58 7.61 Fr (Green consequent)	Torrap. (Codelius) [3%]	Pump Type: Samples colle 56 M pH (0.1 unite)*	Sp. Cond. (Instant) (3%)	110	DO (mg/h) (10% or 0.1 mg/	ORP (mv)

Well No.	$A \otimes A$	Site/GMA 'Name	GMB3
_		Sampling Personnel	O. ADAUTI
		Date	Slilox
		Weather	July 60°F

WELL INFORMATION - See Page 1

, Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Cetalus) [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]*
12:35	100	1.93	7.65		_	_	111	-	_
12:45		2.13	7.68	<u></u>	_		133	-	
13:00	75_	2.43	7.60	من	_	_	135_		_
13:05	75	2.53	7,60	~			107		
13:15	75	2.73	7.54			-	116	_	
13:25	75	2.93	752				103		
13:35	75	3.13	7,49		-		97	-	~
13:45	60	3.29	7.47		_	~	81	-	-
13:55	60/15	3.49	7.46			-	79		_
14:05	75	3.69	7.51	-		-مب	63		
14:10	<u> 75</u>	3.79	7.52			_	59	-	_
14:13	75	3.83	7.53	<u>~</u>		_	50	-	, -
14:30	75	3.99	7.49	14,99	7.85	2'439	54	4.40	-1543
14:35	75	4.09	7.50	15.05	7.93	5.457	48	1,39	-165.0
14:30	75	4.19	7.51	14.98	7.93	5,480	39	0,90	-1887
14:35	75	4.29	7,52	<u> 15.21</u>	7,93	5,488	40	65,0	-175'6
14:40	75	4.39	7.53	15,09	7.93	5,518	36	0.68	-173.2
14:45	75_	4.49	7.54	15.08	7.93	5,510	_30_	0.68	-1727
14:48	75	4.55	7.55	15:11	7,95	5.517	39	0.68	-174.0
14:51	75	4.61	7.55	14.95	7.94	5,503	28	0.66	- 168.6
14:54	75	4.67	7,55	14.89	7.94	5,499	27	0.65	-165.5
14:67		4.73	7.56	רר.או	7.93	5,503	<u> </u>	0,63	-1619
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	* 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										
FIL	al Porce	E 12005	CLEMI	HIJIA	MODERVATIF	(200k					

Well		OB-R	L		SHA/GHLA N	MOS /つし/4	6 - 1-7-	Pits Reld.	
Kay		Ex-37	_	s	ampling Person		1/1/2		
PID (Background (ppm)	1			# 44	1 3/1/2	86	
Well	Headepace (olben)			. Week	10°	Sunn		
WILL DEFO	THE PARTY OF							<i>1</i> ·	2 11.1
	room Point Mar	tend? V s	N .				Semple 11		2 /1/41
	of Reference	- 1		irom \$6re	26	'	Sample		
	Wed Disn		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10010	<u> </u>		Duplicate	80/6B-RH	de las s
Sa	reen interval D	opth 3.08-L	300 Maga F	rom BGS			Spill Sample	,	15/HSD
,	Water Table D		Mone. F	rom TC			opm omnipm		
	C leave			rom		Required	. Annhri	cal Parameters:	Collected
	h of Water Col ne of Water in 1		ullons			$\langle \times \rangle$, vo	Cs (Std. list)	(A)
	th of Pump/Tui			om TIC		()	VO	Co (Exp. list)	()
·			(1)			()	or or	SVOCE	()
Reference P	oint identificati	20:				()		CBe (Total) is (Dissolved)	()
	nner (PVC) Ca					()		norganics (Total)	()
	Outer (Protect					()		Metals/Inorganics (Dissolved)	
Serenting;	Ground Surfer					()	_	mide (Dissolved)	()
Redevelop?	YN					()	-	mide (Dissolved)	()
-						()		DDs/PCDFs los/Herbicides	()
						(X)		al Attenuation	()
	i informati					()		or (Specify)	(2)
	Pump Shert Tire	2500							
Mini Volume of \	utee of Pumpin Nater Remove Id Well Go Dry	2.25				Mars	ubmersible Pump = halk -Sum	om Que	pecify ()
Mini Volume of \	utes of Pumpir Natur Remova Id Well Go Dry	d 2.25	quilons	X1551	Peristatic Pu Pump Type: Samples call	mp Source in	ubmerable Pump = h ~ l k - Susa ethod an evacuation	on? N (spec	cify)
Mini Volume of \ D	water of Pumpin Water Removs id Well Go Dry Water Quality Pump		Seriel Numbers:	Temp.	Peristatic Pu Pump Type: Samples call	mp Mar For	ubmerable Pump b alk - Syst ethod an evecuetic A Turbidity	om Que	cify)
Mini Volume of \	utes of Pumpin Valer Removs Id Well Go Dry Water Quality	110 2.25 7 Y B	Serial Numbers	Temp. (Celaius)	Peristatic Pur Pump Type: Samples colle	scted by same m 2 3 C 1 4 (b) Sp. Cond. (in@fem)	three special control of the special control	Other/S On? VN (special Control Contro	ORP (mV)
Mini Volume of \ D	vice of Pumpin Valor Ramova Id Wall Go Dry Water Quality Pump Rate (Limin.)	Meter Type(s) / Total Gallone Removed	Seriel Numbers: Water Level (RTIC)	Temp.	Peristatic Pur Pump Type: Samples colle	mp Mar For	ubmerable Pump h ~ k - System ethod an evacuation A #S H Turbidity (NTU) [10% or 1 NTUP	Other/S On? VN (special Control Contro	ORP (mV)
Minivolume of Volume Time	Water Clember Water Ramovs id Well Go Dry Water Quality Pump Rate (L/min.)	Meter Type(s)/ Total Gallone Removed O. 40	Seriel Numbers: Water Level (RTIC)	Temp. (Celsius) [3%]*	Peristatic Pur Pump Type: Samples colle	sched by same m 30,40 Sp. Cond. (m@/em)	the state of the s	Office/S On? Y N (aper ACH 210 OO (mg/f) [10% or 0.1 mg/f]	ORP (mV)
Min Volume of Volume Time 90925	Water Clearity Water Quelity Water Quelity Pump Rate (Limits)	Meter Type(a) / Total Gallone Removed 0.40 0.57	Seriel Numbers: Water Level (R TIC) 9,55	Temp. (Ceiaius) [3%]*	Peristatic Pur Pump Type: Samples colle pH C pH (0.1 units)	Sp. Cond. (ms/cm) (3%)	ubmerable Pump h ~ k - System ethod an evacuation A #S H Turbidity (NTU) [10% or 1 NTUP	One (mg/l) [10% or 9.1 mg/l]	ORP (mV)
Minivolume of Volume of Volume Time 90925 930 935	Water Ol Pumpin Water Remove id Well Go Dry Water Quality Pump Rate (L/min.) /50 /25	110 2,25 7 18 Meter Type(a) / Total Gallone Removed 0.40 0.57 0.70	Seriel Numbers: Water Level (RTIC) 9,55 9,76 9,85	Temp. (Coistum) [3%]* 09.57- 9.46	Peristatic Pur Pump Type: Samples colid pH [0.1 unite]*	Sp. Cond. (m6/em) [34]	the state of the s	Office/S On? Y N (aper ACH 210 OO (mg/f) [10% or 0.1 mg/f]	ORP (mV) [10 mV]*
Mini Volume of Volume of Volume Time 90925 930 935	Water Clearity Water Quelity Water Quelity Pump Rate (Limits)	Meter Type(a) / Total Gallone Removed 0.40 0.57	Seriel Numbers: Water Level (R TIC) 9,55	Temp. (Coistum) [3%]* 09.57- 9.46	Peristatic Pur Pump Type: Samples colid pH [0.1 unite]*	Sp. Cond. (m6/em) [34]	the state of the s	Office/8 On Que On? (V) N (apart) ACH 210 On (mg/l) [10% or 0.1 mg/l] 10,08 7:75	ORF (mv) (10 mv) (136.0)
Time 90925 930 935	Water Ol Pumpin Water Remove id Well Go Dry Water Quality Pump Rate (L/min.) /50 /25	110 2,25 7 18 Meter Type(a) / Total Gallone Removed 0.40 0.57 0.70	Seriel Numbers: Water Level (RTIC) 9.55 9.76 9.85	Temp. (Ceinium) (3%)* 09.57 9.46 9.26	Peristatic Pur Pump Type: Samples collection pH i0.1 unitati 7.15 7.19	Sp. Cond. (m6/cm) (36/7 1,507	the state of the s	One (mg/f) [10% or 0.1 mg/f] [10, 08 [7, 75] [6, 54]	ORP (mV) [10 mV] 142,7 136,0
Time 90925 930 935 940	Water Of Pumpin Nater Remove (Limin.) 150 125 100 100	110 2.25 10 2.25 10 10 10 10 10 10 10 1	Seriel Numbers: Water Level (RTIC) 9,55 9,76 9,85 9,91	Temp. (Coinium) (3%)* 09.57 9.46 9.26 9.41	Peristatic Pur Pump Type: Samples cold	30146 30146 30146 (matern) (3747 1,507 1,519 1,511	the state of the s	Office/8 On Que On? (P) N (apart) ACH 210 On (mg/f) [10% or 0.1 mg/f) 10,08 7,75 6,54 5,5	ORP (mv) [10 mv] 142,7 136,0 [19,1] 91,]
Time 00925 0930 0935 0946 0945	Water Of Pumpin Nater Remove Id Well Go Dry Water Quelity Pump Rate (Limin.) 150 125 100 100 75	110 2.25 7 18 Meter Type(a) / 10tal Galfone Removed 0.40 0.57 0.70 0.83 0.96 1.06	Seriel Numbers: Water Level (RTIC) 9,65 9,76 9,85 9,91 10,13	Temp. (Ceinium) (3%)* 09.57 9.46 9.26 9.41 9.83	Peristatic Pur Pump Type: Samples colid pH [0.1 unlar] 7.15 7.19 7.18 7.18	Sp. Cond., (Inflorm) [34]? 1,507 1,509 1,519 1,547	the state of the s	Other/8 On Quic On Quic On Quic On Quic On (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,97	ORP (mV) [10 mV] 142,7 136,0 191, 191, 191, 191, 191, 191, 191, 19
Time 0925 0930 0935 0940 0945 0950	Water Of Pumpin Nater Remove Remove Id Well Go Dry Water Quality Pump Rate (Limin.) 150 125 100 100 75	110 2.25 7	Seriel Numbers: Vister Level (RTIG) 9.55 9.76 9.85 9.91 10.13 10.16 10.32	Temp. (Coinium) (3%)* 09.57 9.46 9.26 9.41	Peristatic Pur Pump Type: Samples cold	30146 30146 30146 (matern) (3747 1,507 1,519 1,511	the state of the s	Office/8 On Que On? (P) N (apart) ACH 210 On (mg/f) [10% or 0.1 mg/f) 10,08 7,75 6,54 5,5	ORP (mV) [10 mV] 142,7 136,0 191, 191, 191, 191, 191, 191, 191, 19
Time 00925 0930 0935 0946 0945	Water Of Pumpin Nater Remove Id Well Go Dry Water Quelity Pump Rate (Limin.) 150 125 100 100 75	110 2.25 7 18 Meter Type(a) / 10tal Galfone Removed 0.40 0.57 0.70 0.83 0.96 1.06	Seriel Numbers: Water Level (RTIC) 9,65 9,76 9,85 9,91 10,13	Temp. (Ceinium) (3%)* 09.57 9.46 9.26 9.41 9.83	Periodatic Pur Pump Type: Samples cold DMPS C pH (0.1 under) 7.15 7.19 7.18 7.18	Sp. Cond. (m8/cm) (3%) (1.607 1.619 1.509 1.511 1.583	ubmerable Pump - h N - Sustained an evacuation A I - # S	Office/8 On Quit On? (P) N (apart) ACH 210 On (mg/f) [10% or 0.1 mg/f) 10,08 7,75 6,54 5,5 4,97 4.38	ORP (mv) (10 mv) (10 mv) (136.0) (19.1) (91.) (44.3) (23.0)
Time 90925 930 935 946 950 955	Water Of Pumpin Nater Remove Id Well Go Dry Water Quality Pump Rate (Limits) 150 125 100 100 75 75	110 2.25 Y R Meter Type(a) / Total Gallone Removed 0.40 0.57 0.70 0.83 0.96 /.06 /.16 /.26	Seriel Numbers: Water Level (RTIG) 9,55 9,76 9,85 9,91 10,13 10,16 10,32 10,50	70mp. (Cointum) (3%) 09.57 9.46 9.26 9.21 9.83 9.88	Periodatic Pur Pump Type: Samples cold DMPS C DMPS	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/8 On Quit On? (P) N (apart ACH 216 OG (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82	ORP (mV) [10 mV] 142,7 136,0 191, 191, 191, 191, 191, 191, 191, 19
Time 00925 0930 0935 0946 0950 0955 000	Water Of Pumpin Nater Remove Id Well Go Dry Water Quality Pump Rate (Limits) 150 125 100 100 75 75 151 151 151 151 151 151 151 151 1	110 2.25 Y R Meter Type(a) / Total Gallone Removed 0.40 0.57 0.70 0.83 0.96 /.06 /.16 /.26	Seriel Numbers: Water Level (RTIC) 9.66 9.76 9.85 9.91 0.13 0.16 0.32 0.50 0.16 0.50	70mp. (Cointum) (3%) 09.57 9.46 9.26 9.21 9.83 9.88	Periodatic Pur Pump Type: Samples cold DMPS C DMPS	Second S	ubmerable Pump - h N - Sustained an evacuation A I - # S	Other/8 On Quit On? (P) N (apart ACH 216 OG (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82	ORP (mv) (10 mv) (10 mv) (136.0) (19.1) (91.) (44.3) (23.0)
Time 0925 0930 0935 0940 0945 0950 0955	Water Of Pumpin Nater Remove Id Well Go Dry Water Quality Pump Rate (Limits) 150 125 100 100 75 75 151 151 151 151 151 151 151 151 1	110 2,25 7 18 Meter Type(e) / 10 Callone Removed 0,40 0.57 0.70 0.83 0.96 /.16 /.26 oh field perimete METHOD DIEVIA	Seriel Numbers: Water Level (RTIC) 9.65 9.76 9.85 9.91 10.13 10.16 10.32 10.50 Ir (three consecutions	Temp. (Calatum) (S%)* 09.57 9.46 9.26 9.41 9.83 9.88 10.01 Ulive readings of	Peristatic Pur Pump Type: Samples colin Indian Indi	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m
Minima of Volume	Water Of Pumpin Nater Remove id Well Go Dry Water Quality Pump Rate (Limin.) 150 100 100 75 75 criteria for each USANIPLING I	110 2,25 Y	Seriel Numbers: Water Level (R TIG) 9.65 9.76 9.85 9.91 10.13 10.16 10.32 10.50 Ir (three consecutions	Temp. (Celaium) (3%)* 09.57 9.46 9.26 9.41 9.83 9.88 10.01 where readings on	Peristatic Pur Pump Type: Samples colin Indian Indi	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 mv) (136.0) (19.1) (91.) (44.3) (23.0)
Time DO925 930 940 945 955 000 stabilization	Water Of Pumpin Nater Remove R	110 2.25 7 18 100	Seriel Numbers: Vector Level (RTIC) 9,55 9,76 9,85 9,91 10,13 10,16 10,32 10,50 or (three conesc	70000000000000000000000000000000000000	Peristatic Pur Pump Type: Samples collected at 3- to the collected a	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m
Time 00925 0930 0935 0940 0945 0955 0960 0955 0955 0955 0955 0955 095	Water Guestly Water Questly Water Questly Water Questly Pump Rate (Limin.) 150 100 100 75 75 75 criteria for each Pump Rate Coxcern	110 2.25 7 18 100	Seriel Numbers: Water Level (RTIC) 9.55 9.76 9.85 9.91 10.13 10.16 10.32 10.50 ar (three consecutions	70000000000000000000000000000000000000	Peristatic Pur Pump Type: Samples collected at 3- to the collected a	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m
Minima of Volume	Water Guestly Water Questly Water Questly Pump Rate (Limin.) 150 105 100 155 100 100 155 100 100 155 100 100	110 2.25 7 18 100	Seriel Numbers: Water Level (RTIC) 9.55 9.76 9.85 9.91 10.13 10.16 10.32 10.50 ar (three consecutions	70000000000000000000000000000000000000	Peristatic Pur Pump Type: Samples collected at 3- to the collected a	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m
Minima of Volume	Water Guestly Water Questly Water Questly Pump Rate (Limin.) 150 100 100 75 75 100 100 75 75 College for each purchase f	110 2.25 7 18 100	Seriel Numbers: Water Level (RTIC) 9.55 9.76 9.85 9.91 10.13 10.16 10.32 10.50 ar (three consecutions	70000000000000000000000000000000000000	Peristatic Pur Pump Type: Samples collected at 3- to the collected a	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m
Time PO925 930 935 940 945 950 955 0655 0655 0755	Water Guelly Water Quelly Water Quelly Pump Rate (Limin.) 150 100 165 160 100 155 160 175 175 175 175 175 175 175 175 175 175	110 2.25 7 18 100	Seriel Numbers: Water Level (RTIC) 9.55 9.76 9.85 9.91 10.13 10.16 10.32 10.50 ar (three consecutions	70000000000000000000000000000000000000	Peristatic Pur Pump Type: Samples collected at 3- to the collected a	Second S	ubmerable Pump - h N k - Syst ethod an evacuation A / # S	Other/S On Quit On? (P) N (apart ACH 210 Oca (mg/l) [10% or 0.1 mg/l] 10,08 7,75 6,54 5,5 4,92 4,38 3,82 column heading.	ORP (mv) (10 mv) (10 m

Well No.	168-R	Site/GMA 'Name	GMA3-GEP, Hofild
		Sampling Personnel	
		Date	5/1/08
		Weather	603 Junny

WELL INFORMATION - See Page 1

, Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Ceisius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/li) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1005	75	1.36	10,55	10,19	7,21	1.672	5	3.62	-11,9
1010	75	1.46	10,63	10,20	722	1.711	4	3,52	-24,0
1015	76	1-55	10,73	10.20	7,22	1,732	4	3,42.	-25.9
1000	75	1.65	10,77	10,55	736	1,751	4	3.16	-34.D
1025	75	1.75	10,50	10,56	7.22	1,765	4	2,88	-40.1
1028	75	1.81	10.88	10,71	7,23	1,772	3	2175	-40,3
1031	75	1-87	10.98	10,56	7,21	1.784	3	2.64	-40.7
1034	75	1.93	10.93	10.78	7,24	1.784	33	2,57	-47.1
1037	75	1-99	10.96	10.65	7,25	1.8D5	3	2.52	-49.5
1040		\longrightarrow	Sam	Selq.	0 10	40		4 4	**********
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									1007.1.20

* The stabilization criteria for each field parameter (three consecutive readings of	ollected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	,

Water Gold / Water in V f Pump/Tub sientification r (PVC) Ca inr (Protect)	pert) pert) pert) pert) pert) pert p	Mean. Fr Mean. Fr Mean. Fr Mean. Fr		West		DAVTI	10 <u>THC-R</u> 10 - 000	
IATION Point Meri Reference F Well Diem Priterval Di Well Die Well Di Water Colo (Water in V F Pump/Tut Islantification (PVC) Ce Int (Pvol) Ce Int (Protect)	cod? Y (Point Shippin 90-1 point 102.1 from 94.5 Vell 25.4 ing 95	Moss. Fr	om Gwan	. D Week	5110	Semple 11 Semple Duplicate MSA6	16 - Sep -	
IATION Point Meri Reference F Well Dierr Printerval Di Writer Cole Water Cole F Pump/Tut Islantificatio ((PVC) Ca	read? Y solution of the soluti	Moss. Fr	om Grown	West		Semple 11 Semple Duplicate MSA6	16 - Sep -	
Point Meri Reference F Well Dierr Well Dierr Well Dierr Weller Cole Water Cole (Water in V F Pump/Tut Islantification (PVC) Ca er (PvC) Ca	Point 2 1 1 1 1 1 1 1 1 1	Moss. Fr	om Grown	<u></u>	r	Sample Ouplicate MSA6	16 - Sep -	
Neference F Well Dierr Property Dierr Well D	Point 2 1 1 1 1 1 1 1 1 1	Moss. Fr	om Grown	<u>J</u>	ı	Sample Ouplicate MSA6	16 - Sep -	
Well Dient or Table Di Well Di Water Cole f Water in V f Pump/Tub Islantification or (PVC) Ce or (PVC) Ce	neter 3" 90-1 ppth 90-1 ppth 102.1 cmm 94.5 year 15.4 year 15.4 years	Monn. Fr Monn. Fr Monn. Fr Monn. Fr 2 g a, fl way	om Grown	<u></u>		Duplicate MS/M	ID	
o Interval Di well Di Water Cole Water in V F Pump/Tub Identification r (PVC) Ce or (Pvotecti	apth 90-1 poth 102.1 mm 94.5 Vell 15.4 ming 95	Mane, Fr 30' 1 a flant	m 716	<u>J</u>		MSM	50 -	
or Table Di Well Di Water Cole f Water in V f Pump/Tub islantificatio r (PVG) Ce or (Pvolecti	poth 1.3 poth 102.7 poth 94.5 vel 75.4 poing 95	Mane, Fr 30' 1 a flant	m 716	<u>J</u>		Spit Sample	ID	
Well Di Water Gold / Water in V f Pump/Tub identification r (PVG) Ca ior (Protecti	poth 102.11 94.5 Vett 15.41 ing 95	Mace, Fr 30' 19allana	om 776					
f Water in V f Pump/Tut !dentification r (PVC) Ca er (Protecti	Vell <u>75.47</u> ing <u>95</u>	in them			Required	- American	had Damas at a sa	
f Pump/Tut Identification r (PVC) Ce er (Protecti	ing <u>95</u>				(X)		Cal Parameters: Cs (Std. list)	Collected
Identification r (PVC) Ca ar (Protect	0:	Meas, Fro	T-1.		(3	,	Ca (Esp. Het)	()
r (PVC) Ce er (Protect			m		()		SVOCE	()
er (Protect					()		Be (Total)	()
					()		t (Discolved) torganics (Total)	()
und Surfac					()		ganica (Disectved)	()
AM STANC					()		nide (Dissolved)	()
(N)					()	•	nide (Dissolved)	()
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FORMATIC	M				()	Othe	r (Specify)	()
r Remove (ell Go Dry	~3.6 Y (P)	,	Y51 E	Pump Type:	CEDEDY	Nhod as evacuation	on? Y N (spec	
Pump	Total	Water	Temp.	pH				7 7 7 10 10
	- Gamone				Sp. Cond.	Turbidity	00	ORP
(L/min.)	Removed	(R TIC)	(Coleius)		(mS/cm)	(NTU)	(mg/l)	ORP (mV)
(Unin.) (25		(R TIC)	(Caleius)	(0.1 units)*	, , ,	(NTU) [10% or 1 NTUP	1	ORP
25	0.17	7.39	725	(0,1 units)*	(ImS/cm) [3%]*	(NTU)	(mg/l) [10% or 0.1 mg/l)*	ORP (mV) [10 mV]*
125 25	0.17	7.39 7.96	1063	(0,1 units)*	(matem)	(NTU) [10% or 1 NTUP	(mg/f) [10% or 0.1 mg/f*	ORP (mV) [10 mV]*
125 25 25.	0.17 0.33 0.50	7.39 7.96 8.51	1063 10.54	7.68	(matern) (3%) 0.252 0.249	(NTU) [10% or 1 NTUP	(mg/l) [10% or 0.1 mg/l) - - - - - - - - - - - - - - - - - - -	ORP (mV) [10 mV]*
125 25 25 25	0.17 0.33 0.50 0.66	7.39 7.96 8.51 9.11	1063 10.54 10.60	7.68 7.72	(matem)	(NTU) (10% or 1 NTUP \6 \0	(mg/f) [10% or 0.1 mg/f*	ORP (mV) [10 mV]*
125 25 25 25 25	0.17 0.33 0.50 0.66 0.83	7.96 8.51 9.11 9.46	1063 10.54	7.68	(matern) (3%) 0.252 0.249	(NTU) 10% or 1 NTUP	(mg/l) [10% or 0.1 mg/l) - - - - - - - - - - - - - - - - - - -	ORP (mV) [10 mVP - 154.7 147.2 147.6
125 25 25 25	0.17 0.33 0.50 0.66 0.83 0.99	7.39 7.96 8.51 9.11	1063 10.54 10.60	7.68 7.72	0.244 0.244 0.252 0.249	(NTU) (10% or 1 NTUP \6 \0	(mg/f) [10% or 0.1 mg/f) - - - - - - - - - - - - - - - - - - -	ORP (mV) [10 mVP - 154,7 147.2 147.6
125 25 25 25 25	0.17 0.33 0.50 0.66 0.83	7.96 8.51 9.11	1063 10.54 10.60 10.71	7.68 7.72 7.75 7.35 7.95	0.248 0.248 0.248 0.248 0.349	(NTU) 110% or 1 NTUP 16 10 7 6 5	(mg/f) 110% or 0.1 mg/f) - 3.40 3.5% 2.60 2.35 2.03	ORP (mV) [10 mVP - 154.7 147.2 147.6 144.7 139.0
125 25 25 25 25 25	0.17 0.33 0.50 0.66 0.83 0.99	7.96 8.51 9.11 9.46 9.87	10.63 10.54 10.60 10.71	7.73 7.75 7.75 7.75	0.248 0.248 0.248 0.248 0.349	(NTU) 110% or 1 NTUP 16 10 7 6 5	(mg/f) [10% or 0.1 mg/f* - - - - - - - - - - - - - - - - - - -	ORP (mV) [10 mVP - 154,7 147.2 147.6
	o Start Time o Stop Time of Pumping or Removed (eli Go Dry' ' ;	in Quality Meter Type(a) /	o Start Time 9.55 o Stop Time 11.15 of Pumping 30 or Removed 20.5 c. 1000 J eli Go Dry? Y N istr Quality Meter Type(a) / Serial Numbers:	o Start Time 9:55 o Stop Time 11:15 of Pumping 80 or Removed 20 0 1/00 5 left Go Dry? Y N intr Quality Meter Type(a) / Serial Numbers:	o Start Time 9.55 o Stop Time 11.15 of Pumping 80 of Removed 20.6 c. I (Un) J Pump Type: fell Go Dry? Y R Semples colle for Quality Meter Type(s) / Serial Numbers:	O'REMATION District Time 9.55 District Time 9.55 District Time 9.55 District Time 9.55 Peristettic Pump (X) Si Removed 9.50 Pump Type: 9.50 Samples collected by series me	Posticion Office (X) Netura Other Ostart Time 9.55 Ostart Time 11.15 Evacuation Method: Bailer () Bladder Poristatic Pump (X) Submersible Pump Pump Type: (Scort) Samples collected by same method as evacuation	Other (Specify) Other (Spe

			9	ROUNDWA	TER SAMPLI	NG LOG	•		
Well No.	16C-	V.		•	ite/GMA 'Name ling Personnel Date	CMA D ADO SILIDO SUULA	ital	E Ameria	₹2
WELL INFOR	MATION - See	Page 1			Weather	<u>ruauc</u>	,50°		
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Cetalus) [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	125	1-49	10.66	10,94	8.03	0,245	5	1.75	131,9
10:45	125	1-65	10.50	11.04	7,99	0,244	5	1.69	134.8
10:50	125	1.82		11.05	7,97	0.244	5	1.66	136,5
10:55	Spm	PLE .							
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				xlive readings c	ollected at 3- to	5-minute interva	is) is listed in each	column heading.	
PJERVALIUN	JOANITLING!	METHOD DEVIA							
									

	Well No.	. <u> </u>	`		_	ite/GMA Name	(70/4	S, GE	PHSFIEL	<i>y</i>
	Key No.				_ Samp	ling Personnel		•		
	PID Bac	kground (ppm	n)	_	_	Date				
	Well He	adspace (ppm	1)			Weather	<u> /a</u>	0405	Overcos	
	WELL INFOR	MATION						Sample Time	• <u>1430 </u>	
		e Point Market						Sample II	-39B-8	7
	Height of	Reference Poi	nt <u>- 2 ''</u>		<u> BGS</u>			Duplicate II	·	· · · · · · · · · · · · · · · · · · ·
		Well Diamet		<u> </u>	م عداليد			MS/MSE		
	Scree	en Interval Dep	th <u>4-14</u>		THE B	<u>4</u> 3		Split Sample ID)	
	W	ater Table Dep		Meas. From	-	Ė				
		Well Dep		-		<u>_</u>	Required		al Parameters:	Collected
			in <u>8.051</u>				(X)	•	Standard List)	(X)
	Volume	of Water in We	ell /.3/90	- non-	 /.		()	•	Expanded List)	()
	intake Depth	of Pump/Tubin	1g 2/2	Meas. From	776		(X)		(VOCs	(X)
	5 (D.)	-111464					()		(Unfiltered) s (Filtered)	()
	Reference Point						()		anics (Unfiltered)	()
	TIC: Top of In:						()	_	ganics (Filtered)	()
	Grade/BGS: G	•					()		nide (Unfiltered)	()
	Gladerboo. C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					()		inide (Filtered)	()
	Redevelop?	v (N)					()	•	nide (Filtered)	()
	reactorep.						()	-	Ds/PCDFs	()
							()	Pesticide	es/Herbicides	()
							(X)	Natural	Attenuation	('X')
	EVACUATION	INFORMATIO	N				()	Other	r (Specify)	()
	P Minu Volume of V Di	id Well Go Dry?	98 2.69al		Ver-si		ted by same me	bmersible Pump (n? N (speci	•
	P Minu Volume of V Di	tump Stop Time utes of Pumping Vater Removed id Well Go Dry'i	98 2.69al		<u>YS1-53</u>	Peristaltic Pum Pump Type: Samples collec	ted by same me	bmersible Pump (() Other/Spo	fy)
	P Minu Volume of V Di	tump Stop Time utes of Pumping Vater Removed id Well Go Dry's Water Quality	Meter Type(s) / S	Serial Numbers:	Temp.	Peristaltic Pum Pump Type: Samples collec	ted by same me	bithod as evacuation Hack Z Turbidity	Other/Spi	ORP
	P Minu Volume of V Di	tump Stop Time utes of Pumping Vater Removed id Well Go Dry'i Water Quality	4 2 6 9 6 7 7 N	Serial Numbers:	7	Peristaltic Pum Pump Type: Samples collec	ip (X) Su Lt. Lt. Lt. Lt. Lt. Lt. Lt. Lt. Lt. Lt.	thod as evacuation Turbidity (NTU)	Other/Spi	fy)
	P Minu Volume of V Di	tump Stop Time utes of Pumping Vater Removed id Well Go Dry's Water Quality Pump Rate	Meter Type(s) / S Total Gallons	Serial Numbers: Water Level	Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	sp (X) Su (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	thod as evacuation Turbidity (NTU)	Other/Spi	ORP
3 <i>D</i>	P Minu Volume of V Di	tump Stop Time utes of Pumping Vater Removed id Well Go Dry's Water Quality Pump Rate	Meter Type(s) / S Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	sp (X) Su (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	thoracsible Pump (Other/Spi N (speci DO (mg/l) [10% or 0.1 mg/l]*	ORP
3D	P Minu Volume of V Di	ump Stop Time utes of Pumping Vater Removed id Well Go Dry Water Quality Pump Rate (L/min.)	Meter Type(s) / S Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	Peristaltic Pum Pump Type: Samples collect pH [0.1 units]*	sp (X) Su (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	thod as evacuation Turbidity (NTU) [10% or 1 NTU]*	Other/Spi N (speci DO (mg/l) [10% or 0.1 mg/l]*	ORP
3D	P Minu Volume of V Di Time	Pump Stop Time Ites of Pumping Vater Removed Id Well Go Dry's Water Quality Pump Rate (L/min.)	Meter Type(s) / S Total Gallons Removed O. O8 O. Z1	Water Level (ft TIC)	Temp. (Celsius) [3%]* 8:27	Peristaltic Pum Pump Type: Samples collect Ph pH [0.1 units]*	sp. Cond. (mS/cm) [3%]*	thorersible Pump (Other/Spi N (speci DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
3D	73.35 13.44 13.35	Pump Stop Time utes of Pumping Vater Removed id Well Go Dry's Water Quality Pump Rate (L/min.)	Meter Type(s) / S Total Gallons Removed O. O.S O.34	Water Level (ft TIC) 55.428 5.465	Temp. (Celsius) [3%]* 824 8,27 8,38	Peristaltic Pum Pump Type: Samples collect Pump Type: Samples collect Pump Type: Samples collect Pump Type: Pu	sp. Cond. (mS/cm) [3%]*	thod as evacuation Turbidity (NTU) [10% or 1 NTU]*	Other/Spi N (speci DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
3D	Time /3.35 /344 /3.45	ump Stop Time utes of Pumping Vater Removed id Well Go Dry Water Quality Pump Rate (L/min.)	Meter Type(s) / S Total Gallons Removed 0.08 0.34 0.48	Water Level (ft TIC) \$5.65 5.68	Temp. (Celsius) [3%]* 8:24 8:27 8:38 8:49	Peristaltic Pum Pump Type: Samples collect PH [0.1 units]*	sp. Cond. (mS/cm) [3%]* 1.259 1.230	thorersible Pump (The control of t	DO (mg/l) [10% or 0.1 mg/l]* 3.01 1.77 2.07	ORP (mV) [10 mV]* -92,1 -84.8
3 <i>D</i>	Time /3.25 /3.45 /3.45 /3.45	Pump Stop Time Ites of Pumping Vater Removed Id Well Go Dry's Water Quality Pump Rate (L/min.) / O O / O O	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61	Water Level (ft TIC) \$5.68 5.68	Temp. (Celsius) [3%]* 8,24 8,37 8,38 8,49 8,52	Peristaltic Pum Pump Type: Samples collect M P pH [0.1 units]*	sp. Cond. (mS/cm) [3%]* 1.259 1.230 1.158	thod as evacuation Turbidity (NTU) [10% or 1 NTU]* 3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DO (mg/l) [10% or 0.1 mg/l] 3.01 1.77 2.07 2.82	ORP (mV) [10 mV]* -92,1 -84.8 -72,7
3 <i>D</i>	Time /3.25 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) / OO / OO / OO / OO	98 2.6 9	Water Level (ft TIC) \$5.68 5.68 5.68 5.68	Temp. (Celsius) [3%]* 8:24 8:37 8:38 8:49 8:52 8:50	Peristaltic Pum Pump Type: Samples collect M P pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]* 1.259 1.230 1.055	thorersible Pump (The control of t	DO (mg/l) [10% or 0.1 mg/l] 3.01 1.77 2.07 2.82	ORP (mV) [10 mV]* -92,1 -84.8 -72,7
	Time /3.35 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /3.45 /4.00	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00	#5.68 5.68 5.68 5.68 5.68	Temp. (Celsius) [3%]* 8,24 8,37 8,38 6,49 8,52 8,50 8,77 8,71	Peristaltic Pum Pump Type: Samples collect Ph ph [0.1 units]*	sp. Cond. (m\$/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 494 1, 339	thorersible Pump (The control of t	DO (mg/l) [10% or 0.1 mg/l]* 3.01 1.77 2.07 2.82 3.37 2.10 2.82	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -(.3.4) -56.7
	Time /3.25 /3.45	Pump Stop Time sites of Pumping Vater Removed did Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spr. Other/Spr. Other/Spr. N (special property) DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -(.3.4) -56.7
	Time /3.25 /3.45	Pump Stop Time sites of Pumping Vater Removed did Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92,1 -84,8 -72,7 -(-3,4) -56,7
	Time /3.25 /3.45	Pump Stop Time sites of Pumping Vater Removed did Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thorersible Pump (Parish Pump) thood as evacuation the Carlo (NTU) (10% or 1 NTU)* 3 1 1 8 1 3 9 8 7	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -(.3.4) -56.7
	Time /3.25 /3.45	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]*	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -(.3.4) -56.7
	Time /3.25 /3.45	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]*	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -(.3.4) -56.7
	Time /3.25 /3.45	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]*	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -1.3.4 -56.7
	Time /3.25 /3.45 /3.45 /3.45 /3.45 /3.55 /3.45 /3.55 /3.55 /3.50 13.55 //00 *The stabilization IMTIMAL F	Pump Stop Time Intes of Pumping Vater Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 100 100 100 100 Incomposite of the stop of the st	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,37 8,49 8,50 8,72 8,71 utive readings of	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]*	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13 9 8 13	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -1.3.4 -56.7
	Time /3.25 /344 /3.35 /345 /350 /355 /350 /355 //00 *The stabilization OBSERVATION INTINAL F	Pump Stop Time ates of Pumping Vater Removed id Well Go Dry id Water Quality Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,38 8,49 8,50 8,72 8,70 1000 1	Peristaltic Pum Pump Type: Samples collect PH [0.1 units]*	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92.1 -84.8 -72.7 -1.3.4 -56.7
	Time /3.25 /344 /3.35 /345 /350 /355 /400 *The stabilization OBSERVATION INTINAL F	Pump Stop Time ates of Pumping Vater Removed id Well Go Dry id Water Quality Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,38 8,49 8,50 8,72 8,70 1000 1	Peristaltic Pum Pump Type: Samples collected pH [0.1 units]* 7,17 7,17 7,17 7,17 7,16 collected at 3- to see the samples collected.	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92,1 -84,8 -72,7 -(-3,4) -56,7
	Time /3.25 /344 /3.35 /345 /350 /355 /400 *The stabilization OBSERVATION INTINAL F	Pump Stop Time ates of Pumping Vater Removed id Well Go Dry id Water Quality Water Quality Pump Rate (L/min.) 100 100 100 100 100 100 100 100 100 1	Meter Type(s) / S Total Gallons Removed 0.08 0.21 0.34 0.48 0.61 0.74 0.87 1.00 ach field paramet	#5.68 5.68 5.68 5.68 6:68	Temp. (Celsius) [3%]* 8,27 8,38 8,49 8,50 8,72 8,70 1000 1	Peristaltic Pum Pump Type: Samples collect PH [0.1 units]*	sp. Cond. (mS/cm) [3%]* 1, 259 1, 230 1, 158 1, 055 1, 049 1, 339 5-minute interval	thod as evacuation Hack 2 Turbidity (NTU) [10% or 1 NTU]* 3 1 1 8 1 3 9 8 7 8 13 9 8 13 13 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Other/Spring Other/Spring Other/Spring Other/Spring N (special property of the	ORP (mV) [10 mV]* -92, 1 -84, 8 -73, 7 -56, 7

		2.0
Well No. 398-R	Site/GMA Name	GMA3 GE PIHSRELD ,
	Sampling Personnel	ICIC .
	Date	4/30/08
	Weather	overrioust, low york
ELL INFORMATION - See Page 1		

WELL INFORMATION	- See	Page	1
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Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1405	100	1.14	15.66	8,70	7,19	1.163	5	3.41	-56.8
1410	100	1.27	15.67	8.63	7,18	1.083	5	3.58	- 52.3
1415	100	1.40	15.68	8,49	7,17	1.034	3	3.62	-47.0
1420	100	1.53	15.68	8,45	7.16	1.007	C##4	3.61	-43.9
1425	100	1.67	15,68	8.30	7.15	.985	4	3.67	- 40.8
1428	100	1.80	15,68	8.31	7.15	.983	3	3.67	-39.2
1430		<u>→</u> S	ample	e e	1436				
· · · · · · · · · · · · · · · · · · ·			,						
		1							

* The stabilization criteria for each field parameter (three consecutive reading	gs collected at 3- to 5-minute intervals) is listed in each colum	ın heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS		;
*DD seems high, no bobbles	in Dlow thosah cell or	hbina.
	0	0

Weil No		39D-F	2		Site/GMA Name	GM	43		
Key No). ***			Samı	oling Personne		D. A	danti	
PID Ba	ckground (ppn	n)		~	Date)	4/30/08		
Well He	eadspace (ppn	n) <u> </u>		-	Weathe			Cloudy 10	20
WELL INFOR	MATION						Sample Time	14:50	
Referen	ce Point Market	d? Y N					Sample ID	390-12	
Height o	Reference Poi	7,11	Meas. From				Duplicate ID		
Con	Well Diamet			A	,	a	MS/MSC		
	en interval Dep 'ater Table Dep	th <u>36-64</u> th 7,99	Meas. From Meas. From	Ground	<u> </u>	. •	Split Sample ID)	
•••	Well Dep	7000	Meas, From	****	_	Required	Analytica	l Parameters:	Collected
Length	of Water Colum					(X)		Standard List)	(مر)
Volume	of Water in We	ell 9.02	allons			()	VOCs (E	xpanded List)	()
Intake Depth	of Pump/Tubin	19 <u>60,</u>	Meas. From	TIL		()	s	VOCs	()
						()		(Unfiltered)	()
	nt Identification					()		(Filtered)	()
· ·	ner (PVC) Casi Outer (Protectiv	-				()	•	anics (Unfiltered)	()
· ·	Ground Surface	. •				()		ganics (Filtered) iide (Unfiltered)	()
	^					()	•	nide (Filtered)	()
Redevelop?	(Y) N					()		nide (Filtered)	()
	\smile					()	PCDI	0s/PCDFs	()
						()	Pesticide	s/Herbicides	()
FVACUATION	INCORMATIO					(X)		Attenuation	(\mathcal{L})
	INFORMATION ump Start Time	300				. ()	Other	(Specify)	()
	Water Quality I	Meter Type(s) / S	erial Numbers:	Y51	556 N	NP5 # 3	3, 03c	1461 AC	
	Pump	Total	Water	Temp.	Hq	Sp. Cond.	Turbidity	DO	ORP
Time	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	(mg/l) [10% or 0.1 mg/l]*	(mV) [10 mV]*
13:50	<i>3</i> 00	0.26	8.30		-	-	49		**
13:55	175	0.49	8,23	9.03	8.51	0.327	<u>5</u> 2	15.01	<u>57.3</u>
14:00	132	0.66	8.31	8,99	8,63	0,317	48	9,30	40.0
14:05	135	0.82	8.31	9.28	51.63	0.310	44	6.92	<u> </u>
14:10	135	0.99	8.31	9.26	8.62	0.309	37	5.91	26.0
14:15	150	1.19	2/33	9.22	8,61	0.309	28	5,43	22.9
M:30	150	1.39	8.23	9.11	8.60	0,309	24	5.11	18.2
14.25	150	1.58	4,93	8,95	8,60	0.309	16	4,73	15,5
		ch field paramete METHOD DEVIA		tive readings ox	ollected at 3- to	5-minute interval	s) is listed in each	column heading.	
SAMPLE DESTI Laboratory: _ Delivered Via: _	565				ield Sampling				2

Well No. 390 R	Site/GMA Name	CMA3
	Sampling Personnel	O. Doguti
	Date	4/30/03
	Weather	Guran, 40°

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	' DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:30	150	1.78	8,23	8,86	8.58	0.309	15	4.61	15.9
14:35	150	1.98	8,23	8.97	8,57	0,309	13	4.24	14.8
14:40	150	2.18	8,23	8,98	8.56	0.309	\3	4.14	11.1
14:45	150	2.38	8,23	9,03	8.67	0.309	13	3,98	10.3
	ļ	<u> </u>							
							NAME OF THE PERSON OF THE PERS		
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	* 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
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9	

Reference Point Markach? N Height of Reference Point -2 / 10 Meas. From Sr0 W.nd Semple 10 -3 / 2 Meas. From Sr0 W.nd Sp8 Sample 10 -3 / 2 Meas. From Sr0 W.nd Sp8 Sample 10 W.nd Sp8 Sample 10 Meas. From Sr0 W.nd Sp8 Sample 10 Sp8 Sample 10 W.nd Sp8 Sample 10 W.nd Sp8 Sample 10 Sp8 Sampl	Sampling Personnel	PID Baci Well Hee	kground (pp			Sw					
### Weather ### ### ### ### ### ### ### ### ### #	Weal Headspace (ppm)	Well Hee						- V///-//	- N/-		
Reference Point Marked? N Height of Reference Point 13:25 Sample 10 39£ Dupkcete 10 Meas. From 10 19 Meas. From 10 19 Meas. From 10 Meas. From	Reference Point Markad? N Height of Reference Point Markad? N Height of Reference Point Markad? N Height of Reference Point Point Sample ID 39 £ Duplicate ID Meas. From 510 kml. Spell Sample ID Spell Sa		nderrece /por				· Da	5/6/0	18		
Reference Point Members 2 10	Reference Point Marked? N			m) _ <i>O</i>		-	Weeth	M MOST	ערחשבע,	165-0%	
Reference Point Members 2 10	Reference Point Marked? N	WELL INFORM	MATION	_					Samola Tin	13:25	
Height of Reference Point	Height of Reference Point	Reference	e Point Marke	d? (Ÿ) N		_		τ			
West Depth 25 23 25 25 25 25 25 25	West Table Depth 3.5 2	Height of F	Reference Po	m -0.10	Meas. Fr	om Groune	<u>\$</u>		•		
Wester Table Depth 1.90 Meass. From 71 Required Amentical Paremeters Colimon Wester Octum 2.3 2.92 Meass. From 71 Required Amentical Paremeters Colimon Colomon 2.3 2.92 Meass. From 71 Colomon Colomon 2.3 2.92 Meass. From 71 Colomon	Wester Tables Despits 4.9 Messs. From 71 Wester Tables Despits 23.9.92 Messs. From 77 Required Analytical Parameters: Column of Wester in West 23.9.92 Messs. From 77 C Required Analytical Parameters: Column of Wester in West 23.9.92 Messs. From 77 C VOCa (Exp. list) Vo		Well Diame	4 0					•		
Weel Depth 239.2/ Mease. From 7/c Required Analytical Parameters: Coling Colon C	Well Depth 2 39.92 Meas. From 77 to Required Amentical Parameters: Colored						<u>/_</u>		Spill Sample !	D	
Langth of Water Calumn 235-02 Yourne of Water in West 153-4/3 1971 19	Length of Welter Column 235.02 VOCa (Set. set) VOCa (Set.	West	tor Table Dep	m <u>4.90'</u>	Moss. Fr	om 710					
Volume of Water in West	Votume of Water in Weal 53.41/2 1/3		Well Dep	m <u>237.9</u>	Meas. Fr	om <u>71 t</u>		Required	Amelytic	al Parameters;	Colle
SVOCa Form Trick Form	Intake Depth of Pump/Tubing 230 Meas. From 7/6 () SVOCs () PCBs (Total) () PCBs (Dissolved) () PCBs (Disso							(X)	VOC	Ca (Stri. list)	(+
PCBa (Total)	PCBs (Total) PCBs (Total)	Volume o	of Water in Wi	4 75 3.1	1701000			()	VOC	la (Exp. list)	(
PCBa (Dissolved)	C. Top of Innex (PVC) Casing	intake Depth o	of Pump/Tubir	ng <u>2.30</u>	Meas. Fro	om <u>716</u>		()	;	SVOCa	(
C. Top of Inner (PVC) Casing	C: Top of Inner (PVC) Casing	O-i-A	N 0 - 4	_				()		, ,	(
C: Top of Outer (Protective) Casing Metalafinorganics (Dissolved)	Color Colo							()		•	(
Color Colo	PAC Cyanida (Dissolved) PAC Cyanida (PAC			•				()			(
PAG Cyanide (Dissolved) PAG Cyanide (Dissolved) PCDDa/PCDFs	Californian	•	•					()		•	(
Color Colo	California Cal			,				()	=	•	(
Columbian Colu	Pesticides/Herbicides	rdevelop?	Y (N)					()			(
ACUATION INFORMATION	ACUATION INFORMATION	·						()			,
ACUATION INFORMATION Pump Start Time Pump Stop Time Minutes of Pumping Additional of Water Removed Did Well Go Dry? Weter Quality Meter Type(s) / Serial Numbers: Pump Total Rabe Galione Lavel (Calabasa) (RTIC)	Other (Specify)							(سد)			ىدن
Evacuation Netron	ACUATION INFORMATION							, - ,			
Time Rate (Limin.) Removed (RTIC) [3%]* [0.1 units]* (mS/cm) (NTU) (mg/l) (ms/l) (ms/cm) (10% or 1 NTU)* [10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (10% or 1 NTU)* (10% or 0.1 mg/l* [10 m] (ms/cm) (m	Time Rate (Limin.) Removed (RTIG) (Celeius) (D.1 units) (mS/cm) (NTU) (mg/l) (Pun Pun Minute:	np Start Time np Stop Time as of Pumping	12:10		•			() Bladder	Pump ()	ecity ()
[Limin.] Removed (RTIC) [3%] $[0.1 \text{ units}]$ [3%] $[10\% \text{ or } 1 \text{ NTUP}]$ [10% or 0.1 mg/lp [10 m] $[10 \text{ mg/lp}]$	[Limin.] Removed (RTIG) [3%]" [0.1 units]" [3%]" [10% or 1 NTUP [10% or 0.1 mg/l]" [10 m 2 : 15" 100 m 0.13 5.08 55" - 17 - 17 - - 17 - - 17 - - 17 10 m 10	Pun Pun Minute Volume of Wat Did V	onp Start Time onp Stop Time as of Pumping ster Removed Well Go Dry?	12:10 13:45 95 2.50 Y		: <u> </u>	Peristattic Pur Pump Type: Samples colle	mp (X) Si	() Bladder ubmersible Pump 2 24 MD 2 ethod as evacuation	Pump () () Other/Sp in?	ify)
$\frac{1}{15}$ 100 m/ 0.13 5.08 - - - 55 - - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - 17 - 17 17	2:15 100m 0.13 5.08 - - - 55 - - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - - 17 - 17 17	Pun Pun Minute Volume of Wat Did V	np Start Time np Stop Time s of Pumping ster Removed Well Go Dry? Vater Quality I	/ Z : //0 /3:45 95 2.50 Y N	Serial Numbers	Temp.	Peristatic Pur Pump Type: Samples colle	Se S	() Bladder ubmersible Pump 2 who 2 ethod as evacuation Turbidity	Pump () () Other/Sp on? P N (spec	orp
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Pun Pun Minuter Volume of Wat Did V	mp Start Time mp Stop Time s of Pumping ster Removed Well Go Dry? Vater Quality I	/ 2 : //0 /3:45 95 2-50 Y N	Sorial Numbers Water Level	Temp. (Geleius)	Peristatitic Pur Pump Type: Samples colle	Sp. Cond. (mS/cm)	() Bladder ubmersible Pump 2 ethod as evacuation Turbidity (NTU)	Pump () () Other/Sp on? P N (spec	ORP
1.30 100ml 0.53 5.35 11.42 6.88 0.226 10 1.28 .47. 1.35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 153.4 1.40 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.8	1.30 100ml 0.53 5.35 11.42 6.88 0.226 10 1.28 -47. 1.35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 53.6 1.40 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.	Pun Pun Minuter Volume of Wat Did V Wi	mp Start Time mp Stop Time s of Pumping ster Removed Well Go Dry? ster Quality M Pump Rate (L/min.)	/ 2 : //0 /3:45 95 2-50 9 Y N Meter Type(s) /: Gallone Removed	Serial Numbers Water Level (ft TIC)	Temp. (Geleius)	Peristatitic Pur Pump Type: Samples colle	Sp. Cond. (mS/am)	() Bladder ubmersible Pump 2 ethod as evacuation Turbidity (NTU) [10% or 1 NTU]	Pump () () Other/Sp in? () N (spec D	orp
1.30 100ml 0.53 5.35 11.42 6.88 0.226 10 1.28 .47. 1.35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 .53.4 140 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.8	1.30 100ml 0.53 5.35 11.42 6.88 0.226 10 1.28 -47. 1.35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 153.6 1.40 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.	Pun Pun Minuter Volume of Wat Did V	mp Start Time mp Stop Time as of Pumping dar Removed Well Go Dry? Vater Quality N Pump Rate (Limin.)	/ 2:10 /3:45 95 2:50 s Y N Meter Type(s)/3 Total Gallone Removed 0.13	Water Level (ft TIC)	Temp. (Geleius)	Peristatitic Pur Pump Type: Samples colle	Sp. Cond. (mS/am)	() Bladder ubmersible Pump 2 ethod as evacuation (a. 4 2/0) Turbidity (NTU) [10% or 1 NTU]	Pump () () Other/Sp in? () N (spec D	ORP
1.35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 53.4 140 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.2	-:35 100ml 0.66 5.39 11.43 6.94 0.228 9 0.87 53.0 240 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.	Pun Pun Minute Volume of Wat Did V	mp Start Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) / OO m /	/ 2 : //0 /3:45 95 2-50 9 Y N Meter Type(s) /: Gallone Removed 0.13 0.26	Water Level (RTIC) 5-20	Temp. (Cetajus) [3%)*	Peristatitic Pur Pump Type: Samples colle To M PS pH i0.1 units*	Sp. Cond. (mS/cm)	Bladder ubmersible Pump 2 ethod as evacuation as (NTU) [10% or 1 NTU]	Pump () () Other/Sp in? () N (spec O / >	ORP
240 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.	:40 100ml 0.79 5.40 11.54 6.97 0.231 8 0.77 -57.	Pun Pun Minuter Volume of Wat Did V W Time	mp Start Time mp Stop Time mp Stop Time mp stor Pumping ter Removed Well Go Dry? Inter Quality It Pump Rate (Limin.) / OO m.	/ 2:10 /3:45 95 2:50 o Y N Meter Type(s)/3 Gallone Removed 0.13 0.26 0.40	Water Level (ft TIC) 5-08 5-20 5-30	Temp. (Calaius) [3%]*	Peristatic Pur Pump Type: Samples colle To M PS pH j0.1 units*	Sp. Cond. (mS/cm) [3%]*	Bladder ubmerable Pump 2 ethod as evacuation as (NTU) [10% or 1 NTU] 5 5	Pump () () Other/Sp in? () N (spec DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV
:45 100ml 0.92 5.41 11.52 7.00 0.236 9 0.68 -61.4	.45 100ml 0.92 5.41 11.52 7.00 0.236 9 0.68 -61.	Pun Pun Minuter Volume of Wat Did V W Time 2: /5: 20 / .: 25 /	mp Start Time mp Stop Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) / OO m /	/ 2:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53	Water Level (RTIC) 5-08 5-20 5-30 5-35	Temp. (Geleius) [3%)*	Peristatic Pur Pump Type: Samples colle G M PS pH j0.1 units*	Sp. Cond. (ms/cm) [3%]* 0.226	Bladder Jump 2 ethod as evacuation Turbidity (NTU) [10% or 1 NTUP 7 7 7 7	Pump () () Other/Sp in? () N (spec 0 /	ORP
		Pun Pun Minuter Volume of Wat Did V W Time 2: /3- / 2: 20 / 2: 25 / 2: 30 / 2: 35 / 2	mp Start Time mp Stop Time mp Stop Time mp stop Pumping ster Removed Well Go Dry? Inter Quality II Pump Rate (Limin.) / 00 m / / 00 m / / 00 m /	/ 2:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53 0.66	Water Level (RTIC) 5-08 5-30 5-35 5.39	Temp. (Calaium) [3%]*	Peristalitic Pur Pump Type: Samples colle To MPS pH j0.1 units* 6.78 6.88 6.94	Sp. Cond. (ms/cm) [3%]	Bladder Jump 2 ethod as evacuation Turbidity (NTU) [10% or 1 NTUP 7 7 7 7	Pump () () Other/Sp on? () N (spec OP	ORP (mV) [10 mV
1.50 100ml 1.06 5.40 11.48 7.00 12.241 9 0.59 -62.	:50 100m1 1.06 5.40 11.48 7.00 0.241 9 0.59 -62.	Pun Pun Minuter Volume of Wat Did V W Time 2:/5- 2:25 / 2:25 / 2:30 / 2:40 / 2	mp Start Time mp Stop Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) /OO m /	/ Z:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53 0.66 0.79	Serial Numbers Water Level (RTIC) 5-08 5-30 5-35 5-37 5-40	Temp. (Calajus) [3%]* -]1.54 11.43 11-54	Peristatic Pur Pump Type: Samples colle G M PS pH j0.1 units* G.78 G.94 G.97	Sp. Cond. (mS/cm) [3%]* 0.226 0.228 0.231	() Bladder ubmersible Pump 2 ethod as evacuation (NTU) [10% or 1 NTU] 55 17 7 7 10 8	Pump () () Other/Sp in? () N (spec 0/P	ORP (mV) [10 mV] -31-1
	stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.	Pun Pun Minuter Volume of Wat Did V W Time 2: /5- / 2: 20 / 2: 30 / 2: 40 / 2: 45-	np Start Time np Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality II Pump Rate (Limin.) /OO m / /OO m /	72:10 13:45 95 2.50 Y N Meter Type(s)/: Gallone Removed 9.13 0.26 0.40 0.53 0.66 0.79 0.92	Serial Numbers Water Level (RTIC) 5-08 5-20 5-30 5-35 5-37 5-40 5-41	Temp. (Calaiss) [3%]* - 11.54 11.43 11.54 11.552	Peristatic Pur Pump Type: Samples colle To MPS pH j0.1 units*	Sp. Cond. (mS/cm) [3%]* 0.226 0.228 0.231	Bladder ubmersible Pump 2 ethod as evacuation fund 2/01 Turbidity (NTU) [10% or 1 NTUP 55 7 7 7 7 9 8 9 9	Pump () () Other/Sp in? () N (special Special Speci	ORF (mV) [10 m) -31.1 -47.1 -53.4
		Pun Pun Minuter Volume of Wat Did V	mp Start Time mp Stop Time as of Pumping dar Removed Well Go Dry? Vater Quality N Pump Rate (Limin.)	/ 2:10 /3:45 95 2:50 s Y N Meter Type(s)/3 Total Gallone Removed 0.13	Water Level (ft TIC)	Temp. (Geleius)	Peristatitic Pur Pump Type: Samples colle	Sp. Cond. (mS/am)	() Bladder ubmersible Pump 2 ethod as evacuation (a. 4 2/0) Turbidity (NTU) [10% or 1 NTU]	Pump () () Other/Sp in? () N (spec D	المان
		Pun Pun Minute /olume of Wai Did V W Time 2: /3- 2: 70 /30 /0	mp Start Time mp Stop Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) / OO m /	/ 2:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53	Water Level (RTIC) 5-08 5-20 5-30 5-35	Temp. (Geleius) [3%)*	Peristatic Pur Pump Type: Samples colle G M PS pH j0.1 units*	Sp. Cond. (ms/cm) [3%]* 0.226	Bladder Jump 2 ethod as evacuation Turbidity (NTU) [10% or 1 NTUP 7 7 7 7	Pump () () Other/Sp in? () N (spec 0 /	OR (m) [10 m] -31.
(1)	-30 /	Pun Pun Minute /olume of Wat Did V W Time 2:/5- / 2:25 / 30 / 33 / 4	mp Start Time mp Stop Time mp Stop Time mp stop Pumping ster Removed Well Go Dry? Inter Quality II Pump Rate (Limin.) / 00 m / / 00 m / / 00 m /	/ 2:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53 0.66	Water Level (RTIC) 5-08 5-30 5-35 5.39	Temp. (Calaium) [3%]*	Peristalitic Pur Pump Type: Samples colle To MPS pH j0.1 units* 6.78 6.88 6.94	Sp. Cond. (ms/cm) [3%]	Bladder Jump 2 ethod as evacuation Turbidity (NTU) [10% or 1 NTUP 7 7 7 7	Pump () () Other/Sp on? () N (spec OP	ORI (mv) [10 m
		Pun Pun Minute /olume of Wai Did V W Time 2: /5- / 2: 70 / 33 / (0 2:40 / 2	mp Start Time mp Stop Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) /OO m /	/ Z:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53 0.66 0.79	Water Level (RTIC) 5-08 5-30 5-35 5.39	Temp. (Calaium) [3%]*	Peristatic Pur Pump Type: Samples colle G M PS pH j0.1 units* G.78 G.94 G.97	Sp. Cond. (ms/cm) [3%]	() Bladder ubmersible Pump 2 ethod as evacuation (NTU) [10% or 1 NTU] 55 17 7 7 10 8	Pump () () Other/Sp on? () N (spec OP	ORI (mv [10 m
		Pun Pun Minute: /olume of Wai Did V W Time ?:/5: 20 / .: 30 / .: 35 / .: 40 / .: 40 /	mp Start Time mp Stop Time mp Stop Time s of Pumping ster Removed Well Go Dry? Inter Quality M Pump Rate (Limin.) /OO m /	/ Z:10 /3:45 95 2.50 g Y N Meter Type(s)/: Gallone Removed 0.13 0.26 0.40 0.53 0.66 0.79	Serial Numbers Water Level (RTIC) 5-08 5-30 5-35 5-37 5-40	Temp. (Calajus) [3%]* -]1.54 11.43 11-54	Peristatic Pur Pump Type: Samples colle G M PS pH j0.1 units* G.78 G.94 G.97	Sp. Cond. (mS/cm) [3%]* 0.226 0.228 0.231	() Bladder ubmersible Pump 2 ethod as evacuation (NTU) [10% or 1 NTU] 55 17 7 7 10 8	Pump () () Other/Sp in? () N (spec 0/P	ORI (mV [10 m -31-1 -47.

Well No. 39E	Site/GMA Name	GE Pitsfild/GMA3	
	Sampling Personnel	GAR/RAB	
		5/6/08	
	Weather	Mostly sunny, 70°F	

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]*
12:55	100ml	1.19	5.40	11.57	7.03	0.245		0.56	-64.4
13:00	100ml		5.40	11.63	7.04	0.249	8	0.54	-66.3
سی ماحق	rooml	1	5.35	11.52	7.04	0.250	11	0.52	~67. Z
	100ml		5.36	11.56	7.04	0.254	10	0.52	-66.5
13:15-	100ml	1.72		1	7.05	0.257	9	0.47	-61.6
13:20		7	5.36	11.64	7.04	0.260	10	0.48	-60.9
			y						
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									-
-									

* The stabilization criteria for each field parameter (three consec	cutive readings	collected at 3- to	5-minute interva	als) is listed in eac	h column heading.	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS						

Well No	a	43 A			She/GMA Nan	· (3M	13,06	ALISRAID	
Kay No	o	F_{λ}	-37	Sam	pling Personn	N E	10		
PID Ba	ickground (pp	m)		-	· Dat				
Well H	leadepace (pp	m)			Weath	4015	Clowdy	1, Snow)
VELL INFOR							Sample Tim		- 105
	voe Point Merke	~ (12 - C	200	r	Sample I		
Height o	of Reference Po	1)	Meas. From	n 1346	Mane		Ouplicate II		
	Well Diame		77	n TIC	0		MSMS		
	oen Interval Dep Vater Table Dep	m <u>45-61</u> m <u>493</u>	Mess. From Mess. From	TIC			Spilt Sample II)	
	Well Dep	m 5/120	Meas, From	TIC	-	Required	Annivito	al Paremeters;	Collected
Length	of Water Colum	nn				(x)	VOC	is (Std. list)	$\langle \times \rangle$
	e of Water in W			Tin		()		a (Exp. list)	()
intake Depth	h of Pump/Tubi	ng N471	Meas. From	116		()		SVOCs	()
						()		Sa (Total)	()
	int Identification					()		(Dissolved)	()
	nner (PVC) Cas	•				()		organics (Total) anics (Dissolved)	()
•	Outer (Protectiv Ground Surface					()	_	nide (Dissolved)	()
						()	-	ide (Dissolved)	()
edevelop?	Y(N)					()	•	Ds/PCDFs	()
	_					()	Pasticid	es/Herbicides	()
						(X)	Natura	Attenuation	(V)
						()	Othe	r (Specify)	$\langle \cdot \rangle$
Volume of V	utes of Pumping Vister Removed id Well Go Dry?	3.39al		\\ \tau \cdot \\	•	np (X) Su CLOPU cted by same me	thod as evacuatio	n? Y N (spec	≇y)
Volume of V	Vater Removed id Well Go Dry?	125 3.39al		YSJ S	Peristallic Pun Pump Type:	np (X) Su CLOPU cted by same me	nhod as evacuatio	() Other/Sp	≇y)
Volume of V Di	Vater Removed id Well Go Dryf Water Quality	125 13.39al 1 Y N Meter Type(s)/5	Serial Numbers:	·	Perietatic Pur Pump Type: Samples colle	np (X) Su CLOPL cted by same me	m P.Z thod as evacuation 310	Officer/Span () Other/Span () N (spec	H tur
Volume of V	Nater Removed id Well Go Dryft Water Quality	725 3.390/1 Y N Meter Type(s)/5	Serial Numbers:	Temp.	Perietatic Pur Pump Type: Samples colle	cted by same me	thod as evacuation Turbidity (NTU) [10% or 1 NTU]	Other/Sp n? Y N (spec	ORP (mV)
Valume of V	Vater Removed id Well Go Dry's Water Quality Pump Rate	725 7.390.// Y N Meter Type(a)/S Total Gailone Removed	Serial Numbers: Water Level	Temp. (Celsius) [3%]*	Peristatic Pur Pump Type: Samples colle 66 MPS pH [0.1 units]*	sp. Cond. (mS/cm)	thod se evacuatio	Other/Sp n? Y N (spec	ORP (mV) [10 mV]*
Volume of V Di	Water Removed id Well Go Dry's Water Quality Pump Rate (Linsin.)	725 7 3 3 90.// Y N Meter Type(s) / S Total Gallone Removed	Sorial Numbers: Water Level (ft TIC)	Temp. (Celsius)	Peristatic Pur Pump Type: Samples colle 66 MP	sp. Cond. (mS/cm)	thod as evacuation Turbidity (NTU) [10% or 1 NTU]	0 P HAC DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Time 933	Vater Removed id Well Go Dry's Water Quality Pump Rate (L/roin.)	725 7.390.// Y N Meter Type(a)/S Total Gailone Removed	Sorial Numbers: Water Level (ft TIC)	Temp. (Cofsius) [3%]* 8,79 8,90	Peristatic Pur Pump Type: Samples colle 66 MPS pH [0.1 units]*	sp. Cond. (mS/cm)	thod as evacuation Turbidity (NTU) [10% or 1 NTU]	0 P HAC DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Time 933 938 943	Water Removed id Well Go Dry's Water Quality Pump Rate (Linsin.)	725 3.390/19 Y N N Meter Type(e)/5 Total Gallons Removed 0.69 0.69 1.09 1.28	Sorial Numbers: Water Level (RTIC) 9.32 11.92 13.14 13.75	Temp. (Colstus) [3%]* 8, 79 8, 90 8, 90	Peristatic Pur Pump Type: Samples colle 66 MPS pH (0.1 units)*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	0 P HAC DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Time 933 938 943 948	Water Removed id Well Go Dry's Water Quality Pump Rate (Linsins.) 200 50 150	725 3.390/1 Y N Meter Type(s)/5 Total Gailone Removed 0.69 0.69 1.09 1.28 1.48	Water Level (RTIC) 9.32 11,92	Temp. (Cofsius) [3%]* 8,79 8,90	Peristatic Pur Pump Type: Samples colle 66 MP pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 31 35 16 15	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV] ———————————————————————————————————
Volume of V	Water Removed id Well Go Dry's Water Quality Pump Rate (Liroin.) 200 /50 /50	725 3.390/19 Y N N Meter Type(e)/5 Total Gallons Removed 0.69 0.69 1.09 1.28	Sorial Numbers: Water Level (RTIC) 9.32 11.92 13.14 13.75	Temp. (Colstus) [3%]* 8, 79 8, 90 8, 90	Peristatic Pur Pump Type: Samples colle 66 MPS pH (0.1 units)*	(mS/cm) [3%]* 0.663 0.770 0.816	Turbidity (NTU) [10% or 1 NTU] 31 35 16	0 P HAC DO (mg/l) [10% or 0.1 mg/l] 2, 45 1, 33	ORP (mV) [10 mV] ———————————————————————————————————
Time 2933 9938 9943 9948 2963	Water Removed id Well Go Dry's Water Quality Pump Rate (Linsins.) 200 50 150	725 3.390/1 Y N Meter Type(s)/5 Total Gailone Removed 0.69 0.69 1.09 1.28 1.48	Water Level (RTIC) 9.32 11.92 13.14 13.75 14.49	Temp. (Colsius) [3%]* 8,79 8,90 8,90	Peristatic Pur Pump Type: Samples colle 66 MPS pH (0.1 units)*	Succeeding Suc	Turbidity (NTU) [10% or 1 NTU] 31 35 16 15	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV]* 134,9 135,9 133,4 119.0
Time 933 938 943 948 953	Water Removed id Well Go Dry's Water Quality Pump Rate (Linois.) 200 150 50	725 7.390/19 Y N Motor Type(s)/5 Total Gallons Removed 0.69 0.89 1.09 1.28 1.48	Water Level (RTIC) 9.32 11.92 13.14 13.75 14.49	Temp. (Cofestus) 13%1" ————————————————————————————————————	Peristatic Pur Pump Type: Samples colle 66 MPS pH [0.1 units]* 7.95 7.82 7.50 7.48	Su P Su P P P P P P P P P	Turbidity (NTU) [10% or 1 NTU] 31 35 16 15 14	0 P HAC DO (mg/l) [10% or 0.1 mg/l] 2, 45 1, 33 1, 01 0, 89 0, 79	ORP (mV) [10 mV]* - 134,9 - 135,9 - 123,4 - 112,3
Time 933 938 943 948 963 958 0958	Water Removed id Well Go Dry's Water Quality Pump Rate (Liroin.) 200 150 50 50 100 100 100	725 7.390.// Y N Meter Type(s)/5 Total Gallone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88	Water Level (RTIC) 9.32 11.92 13.14 13.75 14.49 14.99 14.99 15.98	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	Turbidity (NTU) [10% or 1 NTU] 31 35 16 15 14	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 943 948 953 958 003 008	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 50 150 150 150 100 100	725 7.390.// Y N Meter Type(s)/5 Total Gallone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.49 15.98 16.52 16.52 16.652	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 943 948 953 958 003 008	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 50 150 150 150 100 100	7.3 90.// Y N Meter Type(s)/5 Total Gailone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88 ch field parameter	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.49 15.98 16.52 16.52 16.652	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 943 948 953 958 003 008	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 50 150 150 150 100 100	7.3 90.// Y N Meter Type(s)/5 Total Gailone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88 ch field parameter	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.99 15.98 10.52 In (three consecutions	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 943 948 953 958 068 e stabilization SERVATION	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 150 150 100	7.3 90.// Y N Meter Type(s)/5 Total Gailone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88 ch field parameter	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.99 15.98 10.52 In (three consecutions	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 948 948 953 948 958 068 e stabilization	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 150 150 150 100	7.3 90.// Y N Meter Type(s)/5 Total Gailone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88 ch field parameter	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.99 15.98 10.52 In (three consecutions	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*
Time 933 938 943 948 963 958 03 08 e stabilization	Water Removed id Well Go Dry's Water Quality Pump Rate (Linden.) 200 150 150 150 100	7.3 90.// Y N Meter Type(s)/5 Total Gailone Removed 0.69 1.09 1.28 1.48 1.48 1.74 1.88 ch field parameter	Water Level (ft TIC) 9.32 11.9 13.14 13.75 14.49 14.99 15.98 10.52 In (three consecutions	Temp. (Colsius) 13%1" 8,79 8,90 9,11 9,00 9,05 9,14	Peristatic Pur Pump Type: Samples colle 66 MP 66 MP 10.1 unite! 7.95 7.95 7.98 7.43 7.38 7.36	(mS/cm) (mS/cm	15 14 15 20	0 Other/Sp n? Y N (spec O P HAC DO (mg/l) [10% or 0.1 mg/l] 	ORP (mV) [10 mV)*

Well No.	43A	i .	Site/GMA Name	GMA 3 / GE Pittsfield	
			Sampling Personnel	K/C	
			Date	4/30/06	_
			Weather	Particil Clouds, 50s	_

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]*
1013	3 100	2.01	17.04	9,34	7.33	0.936	19	0.59	-99.6
1018	OOI	2.14	17.38	9.38	7,31	0.954	19	0.53	-96.
1023	100	2.27	13.86	9.22	7,29	0.978	16	0.54	-941)
1028	100	2.40	18.44	9.07	7.26	0.999	14	0.52	-91.4
1033	100	2.54	18.64	8.99	7.26	1,018	13	0,48	-87.4
1038	100	2.67	18.80	8.95	7,22	1,033	12	0.51	-86,7
1043	100	2.80	19.14	8,90	7.22	1,051	- 11	0.48	- 85,4
1048	100	2.93	19,29	8,90	7,20	1,071	10	0.47	- 84.0
1053	100	3.07	19.37	3.86	7,20	1.081	10	0.47	-82.5
1056		\Rightarrow S	ample	001	D570.				
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					. 1				

* The stabilization crit	eria for each field para	meter (three consecutive r	eadings collec	ted at 3- to 5-minute	e intervals) is liste	d in each colum	n heading.	
OBSERVATIONS/SA	MPLING METHOD DE	VIATIONS						
X Hard to	requilate	ATT temp	AIV	temp d	ropped	drantic	Mr. d	UNI YA
Dercoha	~ 10	wouds cell	Wes	Sheilder	Brom	He	SUM	7
7 3 3							•	

Well N	m 428	ጓ			She/GMA Nam	GFP	"Hs field /	GMA3	
Key N	····			San	one one in		Devis	<u> </u>	
•	ackground (pp	m)			Dat		0-4		
Well !	Headepace (pp	m)			Weathe	سنتك 💌	~ , 40°		
WELL INFO	RMATION						Sample Tim	422	10:35
•	nce Point Marks	id? Y N				f	Sample I		10.3.
Height	of Reference Po	olint	Meas. From	m			Duplicate I	0 GMA 3	1# 9W
	Well Diame	ter <u> </u>		_			MS/MS	D	
		m 15 - 20		n <u>-065-6</u>	mund		Spilt Sample (i	D	
,	Water Table Dep Well Dep		Meas. From Meas, From	A-I		Required	Anabelo	al Paremeters:	Collected
Length	n of Water Colum	· · · · · · · · · · · · · · · · · · ·	······ (House, Club)	"		(×)		is (Std. list)	(X)
_		0.69 a	Don			(3		(Exp. list)	(7)
Intake Dept	th of Pump/Tubi	ng <u>\</u>	Moss. Fron	n TIL		()		SVOCs	()
						()		Ba (Total)	()
	oint Identification nner (PVC) Cas	="				()		(Dissolved)	()
•	Outer (Protectly	· ·				()		organics (Total) snics (Dissolved)	()
•	Ground Surface	40 k + 100				()	_	nide (Dissolved)	()
						()	PAC Cyar	ide (Dissolved)	()
Redevelop?	Y (N)	¥m				()		Ds/PCDFs	()
						()		es/Herbicides Attenuation	()
				•		(X)		r (Specify)	(36)
Min Volume of	Pump Start Time Pump Stop Time utes of Pumping Water Removed	11:00	- - - - - - - - - - - - - - - - - - -	ני	Evacuation Me Peristatic Pun Pump Type:		() Bladder i ubmersible Pump (Pum p 2		ecify ()
	Nd Well Go Dry'i		Sarial Musmban-	Y51-5	•	-	ethod as evacuation	m? N (spec	
<u> </u>	Water Quality	Meter Type(s) / 5	Serial Numbers:	Temp.	•	Ha.			
Time	Water Quality Pump Rate	Meter Type(s) / S Total Gallone	Water Level	Temp. (Celsius)	5 ⁻ 6 <i>МР</i> 5	Sp. Cond.	Turbidity (NTU)	m? O N (speci アルトらん) : DO (mg/l)	ORP (mV)
Time	Water Quality	Meter Type(s) / 5	Water Level (ft TIC)	Temp.	5-6 MPS	Ha.	Turbidity (NTU) [10% or 1 NTU]	m? O N (speci アルトらん) : DO (mg/l)	ORP
7 25	Pump Rate (Linsin.)	Total Gallone Removed	Water Level (fit TIC) 5, 66	Temp. (Celeium) [3%]*	5~6 <i>M P</i> 5 pH j0.1 unitsP	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
7 25 9 35	Pump Rate (Linein.)	Total Gallone Removed 0.46	Water Level (ft TIG) 5.66	Temp. (Cefaium) [3%]*	5-6 MPS pH i0.1 unitsP	#a., Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTUP	7 N (speci 7 L - B / G / r DO (mg/l) [10% or 0.1 mg/l]*	ORP (mv)*
71me 9 25 9:35 9:40	Pump Rute (Umin.)	Total Gailone Removed 0.46	Water Level (#TIC) 5.66 7.09	Temp. (Coisius) [3%]* 	5~6 <i>M P</i> 5 pH j0.1 unitsP	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTUP	70 N (speci 70 C) N (speci DO (mg/l) (10% or 0.1 mg/l) 26.65	ORP (mV) [10 mV]*
9 25 9 35 9 40 9 45	Pump Rate (L/min.) 175 150 150	Total Gallone Removed 0.46 0.86	Water Level (ft TIG) 5.66	Temp. (Coisius) [3%]* 	5-6 MPS pH i0.1 unitsP	#a., Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) (10% or 0.1 mg/l) 26.65 9.74	ORP (mv)*
71me 9 25 9:35 9:40	Pump Rute (Umin.)	Total Gailone Removed 0.46	Water Level (#TIC) 5.66 7.09	Temp. (Coisius) [3%]* 	5-6 MPs pH i0.1 unitsip 	Hen, Sp. Cond. (mS/cm) (3%)*	Turbidity (NTU) [10% or 1 NTUP	70 N (speci 70 C) N (speci DO (mg/l) (10% or 0.1 mg/l) 26.65	ORP (mV) [10 mV]*
9 25 9 35 9 40 9 45	Pump Rate (L/min.) 175 150 150	Total Gallone Removed 0.46 0.86	Water Level (#TIC) 5.66 7.09 7.15	Temp. (Cotatus) [3%]* 8,66 8,44	5-6 MPS pH j0.1 unitsp	1.144 1.153	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) (10% or 0.1 mg/l) 26.65 9.74	ORP (may) [10 my]*
71me 9 25 9:35 9:40 9:45 9:50	Pump Rate (Linsin.) 175 150 150	Total Gallone Removed 0.46 0.66 1.06	Water Lavel (#TIG) 5.66 7.09 7.15 \$7.30 7.34	Temp. (Cofetum) [3%]* 8.66 8.44 8.58 8.72	5-6 MPs pH i0.1 unitar - 6,96 7.15 7.278	Ha, Sp. Cond. (mS/cm) [3%]* 1.144 1.153 1.156	Turbidity (NTU) [10% or 1 NTUP	10% or 0.1 mg/f* 26.65 12.53 9.78	ORP (mv) [10 mv]*
9:35 9:35 9:40 9:45 9:50	Pump Rate (L/min.) \75 \50 \50 \50	Total Gallone Removed O.46 O.66 O.86 /.06	Water Level (NTC) 5.66 7.09 7.15 \$7.30 7.34	Temp. (Cotatus) [3%]* 3.66 3.44 3.53 3.72 3.55	5-6 MPs pH 10.1 units P	1.144 1.153 1.155	Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) (10% or 0.1 mg/l) 26.65 12.53 9.7% 9.29	ORP (mv) [10 mv]* - 52.4 - 78.9 - 67.2 - 64.9
7 35 9:35 9:40 9:45 9:50 9:55 10:00 10:05	Pump Rate (L/min.)	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTU] O 8 7 6 5	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05	Pump Rate (L/min.)	Total Gallone Removed 0.46 0.66 0.86 1.29 1.49 1.68	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05	Pump Rate (L/min.)	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05	Pump Rate (L/min.)	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05	Pump Rate (L/min.)	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7:35 9:45 9:45 9:56 10:00 10:05 The stabilization	Pump Rate (L/min.) 175 150 150 150 150 150 n criteria for ean	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7 25 9:35 9:40 9:45 9:50 9:55 10:00 10:05 The stabilization DBSERVATION	Pump Rate (L/min.) 175 150 150 150 150 150 150 ISSAMPLING I	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalium) [3%]* 8.66 8.44 8.58 8.72 8.73 8.79	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.158 1.165	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*
7:35 9:45 9:45 9:56 10:00 10:05 The stabilization	Pump Rate (L/min.) 175 150 150 150 150 150 150 150 150 150 15	Total Galforre Removed O.46 O.66 O.86 I.06 I.29 I.49 I.68 ch field parameter	Water Level (#TIC) 5.66 7.09 7.15 \$7.30 7.31 7.31 7.36 er (three consecu	Temp. (Cotalum) [3%]* 8.66 8.44 8.58 8.35 8.69 8.79 white readings of	5-6 MPs pH j0.1 unitsp	1.144 1.153 1.155 1.156 1.155 1.165 5-minute interva	Turbidity (NTU) [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l]* 26.65 12.53 9.78 9.29 8.98 7.90 6.85	ORP (mv) [10 mv]*

C:WORNOSESnoundenter(#4198AttachmentS-

Well No. GMA3	430	Site/GMA Name	GE Pittsfill / GMA3
		Sampling Personnel	
	•	Date	4/30/08
		Weather	Junny, 40°

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	175	1.92	7.34	8.82	7.31	1.168	5	6.08	-54.8
10:15	150	2.11	7.27	9.01	7.34	טרוו	4	5.45	-89.2
70:30	150	2.31	7.23	78.87	7.35	1,173	4	5.06	-90.1
10:25	175	2.54	7.32	8.68	7.35	1,175	4	4,95	-93.5
10130	150	2.74	7.26	8.64	7.34	1.176	4	4.90	-91.9
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the stabilization chiefla for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is lister	d in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	}

V:\GE_Pittsfield_General_Conf:Jential\Reports and Presentations\FSP_QAPP UpdateREV04\Attachment D-2GV sampform_DRAFEV1.xis

Key No	o. <u>51-14</u>		· · · · · · · · · · · · · · · · · · ·				- GE I	17 tstield		_
-		4 . 74		Sam	pling Personne		DAZ		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_
	ckground (ppn				Date	· 5/a/ps				
Well H	eadspace (ppn	1) NY/At			Weathe	code	Livet,	<u>5015</u>		_
		•						1000		
WELL INFOR							Sample Time			_
Referen	ice Point Market	1? Y N					Sample ID	61-14		
Height o	of Reference Poi	711	Meas. From	n			Duplicate ID	-		_
	Well Diamet			***	Ø1.c		MS/MSE	-	······································	
	en Interval Dep			n IFE	BLS		Split Sample ID			
٧	Vater Table Dep			n <u>IFC</u>	····					
	Well Dept	7 7	Meas. From	n 110		Required	\(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2	I Parameters:	Collected	
Length	of Water Colum	n 7777	- 1100			(X)	-	Standard List)	(
		0.744		TIC		()		xpanded List)	()	
Intake Depti	h of Pump/Tubin	0 ~/3	Meas. Fron	11 <u>C</u>		()		VOCs	()	
						()	PCBs	(Unfiltered)	()	
,,	int Identification					()		(Filtered)	()	
•	ner (PVC) Casi	-				()	•	anics (Unfiltered)	()	
•	Outer (Protective	e) Casing				()		ganics (Filtered)	()	
⊰rade/BGS:	Ground Surface					()	-	ide (Unfiltered)	()	
	.	~ _ ' '	7			()	· · · · · · · · · · · · · · · · · · ·	nide (Filtered)	()	
Redevelop?	W N -	re-insta	111 ! にいなど			()		nide (Filtered)	()	
		re-insta No cun Broken PVC	Dissex.			()		Ds/PCDFs	() ·	
		Broken PVC	ノレいか			()		s/Herbicides	()	
		-				()		Attenuation	()	
	INFORMATIO	~~~/				()	Other	(Specify)	()	
	Pump Start Time		2					.		
	Pump Stop Time	C	<u>.</u> 0		Evacuation Me		· ·	Pump (X)		
	utes of Pumping				Peristattic Pun	am / \ C:				
\/\nl::m^ ^*'		/	11-				ubmersible Pump(
	Water Removed iid Well Go Dry?	Y	3.07.110	CNI	Pump Type:	Marso		stem on	<u> </u>	-
C	oid Well Go Dry? Water Quality ! Pump	Y N) Meter Type(s) / S	Serial Numbers:	√ S <i>I S S</i>	Pump Type: Samples colle	oted by same m	ethod as evacuation Turbidity	AI, HAC	(y) CH 2100 ORP	- P to]
	oid Well Go Dry? Water Quality I Pump Rate	Y N Meter Type(s) / S Total Gallons	Gerial Numbers: Water Level	VSI SS Temp. (Celsius)	Pump Type: Samples colle 6 HRS	oted by same m 3 03 Sp. Cond. (mS/cm)	ethod as evacuation Turbidity (NTU)	AI, HA((mV)	P to
Time	Water Quality F Pump Rate (L/min.)	Y N Meter Type(s) / S Total Gallons Removed	Gerial Numbers: Water Level (ft TIC)	√ S <i>I S S</i>	Pump Type: Samples colle	oted by same m	ethod as evacuation Turbidity (NTU) [10% or 1 NTU]*	AI, HAC	(y) CH 2100 ORP	P to
C	Water Quality Pump Rate (L/min.)	Y (N) Meter Type(s) / S Total Gailons Removed	Gerial Numbers: Water Level	VSI SS Temp. (Celsius)	Pump Type: Samples colle 6 HRS	oted by same m 3 03 Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTU]*	AI, HA((mV)	P to
Time 1002	Water Quality F Pump Rate (L/min.)	Y (N) Meter Type(s) / S Total Gallons Removed 2.83	Water Level (ft TIC)	VST SS Temp. (Celsius) [3%]*	Pump Type: Samples colle 6 MRS pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	ethod as evacuation as evacuat	DO (mg/l) [10% or 0.1 mg/l]*	(mV)	Pto
Time 2007	Water Quality Pump Rate (L/min.)	Y (N) Meter Type(s) / S Total Gailons Removed	Gerial Numbers: Water Level (ft TIC)	VSI SS Temp. (Celsius)	Pump Type: Samples colle 6 HRS	oted by same m 3 03 Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTU]*	AI, HA((mV)	Pto
Time 2007	Water Quality I Pump Rate (L/min.) 450	Veter Type(s) / S Total Gailons Removed J. 83 /. 24 /. 49	Water Level (ft TIC) 9,92	VSI SS Temp. (Celsius) [3%]* 8.42 8.39	Pump Type: Samples colle 6 MRS pH [0.1 units]* 6.43 6.42	May so oted by same m #3 03 Sp. Cond. (mS/cm) [3%]* 0.469 0.466	ethod as evacuation as evacuat	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	Pto
Time 1002	Pump Rate (L/min.) 450 175	Veter Type(s) / S Total Gallons Removed J. 83 J. 26	Water Level (ft TIC) 9,92 9,97 9,91	VSI SS Temp. (Celsius) [3%]*	Pump Type: Samples colle 6 H/S pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	ethod as evacuation as evacuat	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	Pto
Time 1002 1007 1012 1017 1022 1027	Water Quality I Pump Rate (L/min.) 450	Veter Type(s) / S Total Gailons Removed J. 83 /. 24 /. 49	Water Level (ft TIC) 9,92	VSI SS Temp. (Celsius) [3%]* 8.42 8.39	Pump Type: Samples colle 6 MRS pH [0.1 units]* 6.43 6.42	May so oted by same m #3 03 Sp. Cond. (mS/cm) [3%]* 0.469 0.466 0.463 0.461	ethod as evacuation as evacuat	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	Pto
Time 1002 1007 1012 1017 1022 1027 1027 102	Pump Rate (L/min.) 450 175	Veter Type(s) / S Total Gallons Removed 2.83 /.26 /.49 /.72	Water Level (ft TIC) 9,92 9,97 9,91 9,92	Temp. (Celsius) [3%]* 8.42 8.39 8.39 8.36	Pump Type: Samples colle 6 MPS pH [0.1 units]* 6.43 6.42 6.42 6.41 6.39	May so oted by same me #3 03 Sp. Cond. (mS/cm) [3%]* 0.469 0.466 0.463 0.461 0.461	ethod as evacuation of the service o	DO (mg/l) [10% or 0.1 mg/l]* 9.27 8.77 8.43	ORP (mV) [10 mV]* 6 3.2 60.7 61.5 62.1	Pto
Time 1002 1007 1012 1017 1022 1027 1027 102	Pump Rate (L/min.) 450 175	Veter Type(s) / S Total Gallons Removed J. 83 /. 249 /. 72 /. 92	Water Level (ft TIC) 9,92 9,97 9,91	Temp. (Celsius) [3%]* 4,42 4,39 8,39	Pump Type: Samples colle 6 MRS pH [0.1 units]* 6.43 6.42 6.41 6.39	May so oted by same m #3 03 Sp. Cond. (mS/cm) [3%]* 0.469 0.466 0.463 0.461	ethod as evacuation and sevacuation as evacuation as evacuation and sevacuation and sevacuation are sevacuation as evacuation and sevacuation are sevacuation as evacuation as evacuatio	DO (mg/l) [10% or 0.1 mg/l]* 9.27 8.77 8.43 7.65	ORP (mV) [10 mV]*	Pto
Time 1002 1012 1017 1027 1027 1027 1032 1037 The stabilization	Pump Rate (L/min.) 450 175 175 150 150 0 on criteria for ea	Veter Type(s) / S Total Gallons Removed 1.03 /.26 /.49 /.72 /.92 2.12 2.31	Water Level (ft TIC) 9,92 9,97 9,91 9,92 9,94	Temp. (Celsius) [3%]* #,42 #,39 #,39 #,36 9,31 8,24	Pump Type: Samples colle 6 MRS pH [0.1 units]* 6.43 6.42 6.42 6.39 6.39 6.39 collected at 3- to	May 50 oted by same m #3 03 Sp. Cond. (mS/cm) [3%]* 0.469 0.465 0.461 0.461 0.461 5-minute interverse	ethod as evacuation and the service of the service	DO (mg/l) [10% or 0.1 mg/l]* 9.27 8.77 8.77 8.43 7.65 7.22 7.05	ORP (mV) [10 mV]* 63.2 60.7 61.5 62.1 62.0	Pto

				GROUNDWA	IEK SAMPLIF	IO LOG			
Well No.	51	1-14			its/GMA 'Name iing Personnel	GMA DAZ/	1-3 KLC 4 , 45° W		
					Date	5/2/0	4		
					Weather	Ovarast.	, 75 W	na	
WELL INFORM	ATION - 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/i) [10% or 0.1 mg/i]*	ORP (mV) (10 mV)*
1042	1	2.51	9.89	828	6.39	0.461	1	6.51	60.9
1047	$\neg t$	271	9.89	8.33	6.39	0.462	l	6.46	619
1052		291	9.91	8.36	6.39	0.462	0	6.51	60.5
	and a state of the			0,77	0.77	162		200	,
·				A Marian	The beauty to the way of the confidence of the party of the continue of the co	ALCOHOLD STATE OF THE STATE OF	Marie on the tip and the distance of the second second		
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				cutive readings c	collected at 3- to 5	5-minute interval	s) is listed in each	column heading.	
SERVATIONS	VSAMPLING N	METHOD DEVIA	TIONS _						
· · · · · · · · · · · · · · · · · · ·	************								

	to <u>828</u>			·		mo GEP	7137760	07473	
-	6. <u>253</u>				mpling Person				
PID B	ackground (pp				· Da	<u> </u>	B		
Well	Headepace (pp	m) 0			Weat	over	iasts light	rain, 50%	<i>-</i>
WELL INFO		_						ne 12:05	···
	nce Point Merk	, •		^		r	Sample	10 828-R	
Height	of Reference P	oint <u>+ 2.46</u> ¹	Meas. Fr	rom Groune	<u></u>		Duplicate	D SMA3-D	UP-3
	Well Diame						MS/MS	o Collectu	Here
Scr	reen interval De	pth 2'-12'	Moss. Fr	rom 7+ Gr	Lrus		Sp#t Sample		
1	Water Table De	pm 7.47	Meas, Fr	om TIL					· · · · · · · · · · · · · · · · · · ·
	Well De	pth 11.80		om T/L		Required	Annivitie	al Parameters:	Collec
Lengt	n of Witter Colu	mn 8.33'				()		Ca (Std. list)	,
Volum	ne of Water in W	1.36 co	Ilons			, 3		Ca (Exp. list)	,
	th of Pump/Tubi			om Grown	7	, ,		SVOCs	,
				****	*****	()		Bs (Total)	,
telerance Pr	oint Identification	n:						• •	(
	nner (PVC) Cas					:		(Dissolved)	(X
•	Outer (Protecti	~				()		lorganica (Total)	(
•	Ground Surface	. •				()		ganics (Dissolved)	(
smaanses:	Ground Surraic					()	EPA Cyn	nide (Dissolved)	(
	🚓					()	PAC Cym	nide (Dissolved)	1
ledevelop?	Y (19)	•				()	PCD	Os/PCDFs	(
•						()	Pesticio	les/Herbicides	(
						()	Natura	Attenuation	(
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Valume of		2.75 90	Lilons			Geo Pu			ecity ()
Valume of	Water Removed Did Well Go Dry	2.75 ge	_	: <u> </u>	Pump Type: Samples colle	Geo Pu	mp 2	() Other/Sp on? N (spec	ify)
Volume of	Water Removed Did Well Go Dry	2.75 ge	_	. <u>V</u> SI - 5:	Pump Type: Samples colle	Geo Pu	mp 2	on? N (spec	ify)
Valume of	Water Removed Did Well Go Dry Water Quality Pump Rate	Meter Type(s) /: Total Gallone	Serial Numbers		Pump Type: Samples colle	Geo Puected by same m	mp 2 ethod as evacuation ch 2/00/	P-Turbid	iv) I, inct
Volume of	Water Removed Did Well Go Dryf Water Quality	Meter Type(s)/:	Serial Numbers	Тетр.	Pump Type: Samples colle	Geo Puected by same me	mp 2 othod as evacuation of 2 100 in Turbidity	DO (mg/l)	in ct
Volume of	Water Removed Did Well Go Dry Water Quality Pump Rate	Meter Type(s) /: Total Gallone	Serial Numbers Water Level (ft TIC) 3.52	Temp. (Cossius) [3%]*	Pump Type: Samples colle 5 6 AM PJ	Geo Puected by same model of the same model of t	mp 2 ethod as evacuation of 2/00 in Turbidity (NTU)	DO (mg/l)	ORP (mV)
Volume of 1	Water Removed Mel Go Dry's Water Quality Pump Rate (L/min.) /// M /	Y (B) Meter Type(s) /: Total Gallone Removed 0-13 0-40	Serial Numbers Water Level (ft TIC) 3.52 3.53	Temp. (Cotatus) [3%]*	Pump Type: Samples colle 5 6 M P J pH i0.1 units†*	Geo Puected by same many same same many same many same many same many same many same many same same many same many same same many same same same same same same same same	mp Z othod as evacuation ch Z/00 / Turbidity (NTU) [10% or 1 NTUP	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV
Volume of 1	Water Removed Did Weil Go Dry Water Quality Pump Rate (L/min.) /00 m /00 m	X 2.75 ac Y B Meter Type(a)/: Total Gailone Removed O.13 O.40 O.53	Serial Numbers Water Level (RTIC) 3.52 3.53 3.53	Temp. (Celeius) [3%]* — 6.79	Pump Type: Samples colli 56 M P3 pH i0.1 units;*	Geo Puected by same me Ho Sp. Cond. (mS/cm) [3%]* 0.599	mp 2 ethod as evacuation of 2/00 in the control of	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV
Time /: 05* /: 15	Water Removed Hid Well Go Dry's Water Quality Pump Rate (Limin.) /00 m / /00	Y (B) Meter Type(s) /: Total Gallone Removed 0.13 0.40 0.53 0.66	Water Level (ft TIC) 3.52 3.53 3.53	Temp. (Catalus) [3%]* - 6.79 6.65 6.54	Pump Type: Samples colle 56 M P3 pH j0.1 units** 6.33 6.29 6.28	Geo Puected by same me Ho Sp. Cond. (ms/cm) [3%]* - 0.599 0.598	mp Z ethod as evacuation of Z / 200 / Turbidity (NTU) [10% or 1 NTU] Z] Z	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04	ORP (mV) [10 mV
Time /: 05 /: 15 /: 20 /: 25	Water Removed Did Well Go Dry Water Quality Pump Rate (Limin.) /// // // // // // // // // // // // /	2.75 ac Y (B) Meter Type(a) / 3 Total Galione Removed 0.13 0.40 0.53 0.66 0.79	Serial Numbers Water Level (R TIC) 3.52 3.53 3.53 3.53	Temp. (Celatus) [3%]* - 6.79 6.65 6.54 6.52	Pump Type: Samples colle 5 6 M P 3 pH i0.1 units!* 6.33 6.29 6.28	Geo Puected by same many House (ms/cm) [3%]*	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44	ORP (mV) [10 mV 4.0 3.3 2.7 2.4
Time /: 05 /: 15 /: 20 /: 25	Water Removed Med Well Go Dry Water Quality Pump Rate (Umin.) /00 m /00 m /00 m /00 m /00 m	2.75 qo Y (R) Meter Type(a) /: Total Gallone Removed 0.13 0.40 0.53 0.66 0.79 0.92	Water Level (ft TIC) 3.52 3.53 3.53 3.53 3.53	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51	Pump Type: Samples colls 56 M P3 pH i0.1 units: 6.33 6.29 6.28 6.28	Geo Puected by same many period by same many p	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] 2 1 2 2 2	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21	ORP (mV) [10 mV 4.0 3.3 2.7 2.4 2.4
Time /: 05 /: 15 /: 20 /: 25 /: 30 /: 35 : 40	Water Removed Did Well Go Dry Water Quality Pump Rate (Limin.) 100 m 100 m	2.75 qo Y (R) Meter Type(a) /: Total Gallone Removed 0.13 0.40 0.53 0.66 0.79 0.92	Serial Numbers Water Level (RTIC) 3.52 3.53 3.53 3.53 3.53	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54	Pump Type: Samples colli 56 M P 5 pH j0.1 units;* 6.33 6.29 6.28 6.28 6.28 6.28	Geo Puected by same many period by same many p	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21	ORP (mV) [10 mV 4.0 3.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45	Water Removed Well Go Dry Water Quality Pump Rate (Units.) /// M / / / / / / / / / / / / / / / /	2.75 go Y ® Meter Type(a)/: Total Gallone Removed 0.13 0.40 0.53 0.66 0.79 0.92 1.06 1.19	Seriel Numbers Water Level (fit TIC) 3.52 3.53 3.53 3.53 3.53 3.54 3.54 3.54	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52	Pump Type: Samples colls 56 M P 3 pH j0.1 unite; 6.33 6.29 6.28 6.28 6.28 6.28	Geo Puected by same many period by same many p	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z Z I	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV 4.0 3.3 2.7 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization BERVATION	Water Removed Meli Go Drying Water Quality Pump Rate (Union.) ///////////////////////////////////	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52 cutive readings of	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same me Ho Sp. Cond. (ms/cm) [3%]* 0.599 0.596 0.596 0.580 0.577 5-minute interval	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] 2 1 2 2 2	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV] 7.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization BERVATION	Water Removed Meli Go Drying Water Quality Pump Rate (Union.) ///////////////////////////////////	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52 cutive readings of	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same me Ho Sp. Cond. (ms/cm) [3%]* 0.599 0.596 0.596 0.580 0.577 5-minute interval	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z Z I	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV] 7.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization BERVATION	Water Removed Meli Go Drying Water Quality Pump Rate (Union.) ///////////////////////////////////	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same me Ho Sp. Cond. (ms/cm) [3%]* 0.599 0.596 0.596 0.580 0.577 5-minute interval	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z Z I	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV] 7.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization BERVATION	Water Removed Well Go Dry Water Quality Pump Rate (Union.) 100 m l	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52 cutive readings of	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same me Ho Sp. Cond. (ms/cm) [3%]* 0.599 0.596 0.596 0.580 0.577 5-minute interval	mp 2 ethod as evacuation of 2/00 / Turbidity (NTU) [10% or 1 NTU] Z I Z Z I	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV 4.0 3.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization servation servation in time	Water Removed Well Go Dry Water Quality Pump Rate (Union.) 100 m 100 m	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Temp. (Catalus) [3%]* - 6.79 6.65 6.54 6.52 6.51 6.54 6.52 cutive readings of	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same model by s	mp 2 ethod as evacuation of 2/00 in Turbidity (NTU) [10% or 1 NTU] 2 2 1 2 2 1 2 1 a) is listed in each	DO (mg/l) [10% or 0.1 mg/l]* 6.20 3.15 2.04 1.44 1.21 1.07 0.94 column heading.	ORP (mV) [10 mV 4.0 3.3 2.7 2.4 2.4 2.4
Time /: 05 /: 15 /: 25 /: 30 /: 35 : 40 : 45 e stabilization servation servation in time	Water Removed Well Go Dry Water Quality Pump Rate (Limin.) 100 m l	A 2.75 go Y (B) Meter Type(a) /: Total Gailone Removed 0.13 0.40 0.53 0.66 0.79 0.9 Z 1.06 /-19 ch field paramete METHOD DEVM	######################################	Tomp. (Catalina) [3%]* 6.79 6.65 6.54 6.52 6.51 6.54 6.52 cutive readings of the codor	Pump Type: Samples colle 56 M P 5 pH j0.1 units f 6.33 6.29 6.28 6.28 6.28 6.28 collected at 3- to	Geo Puected by same model by s	mp 2 ethod as evacuation of 2/00 in Turbidity (NTU) [10% or 1 NTU] 2 2 1 2 2 1 2 1 2 1 3 is listed in each	DO (mg/l) [10% or 0.1 mg/l] 6.20 3.15 2.04 1.44 1.21 1.07 0.94	ORP (mV) [10 mV] 7.3 2.7 2.4 2.4 2.4

C:SMORPOREGroundwelp/054198Attachuppet(D-3

Well No.	82B-R	P	Site/GMA Name	GE Pitsfield-GMA3
			Sampling Personnel	GARIRIP
		•	Date	5/2/08
			Weather	Overcast, 500F

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 ṁV]*
11:50	100ml	1.32	3.52	6.52	6.29	0.574	Z	0.90	2.3
11:55	100ml	1.45	3.52	6.47	6.29	0.571	1	0.83	2.5
12:00	100ml	1.59	3.52	6.43	6.29	0.566	1	0.81	2.8
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• 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	

Well	<u> </u>				SMO/GMA Nan	· GMA.). C1F	PHIS	neld
Key I		-37			mpling Personn	المراجع الم			
-	lackground (pp	m) —			паовит упиции Ва		108		
	Headepace (pp				Weath		108 14 70		······
							14-19-		······································
	PRIMATION						Sample Tir	ne <u>/ </u>	100
	ince Point Merki					r	Sample	10 <u> 89.</u>	9
Height	of Reference Po Well Diame		Meas. Fro	m			Duplicate		
Sc	roen Interval De		2 Mars Fm	m Ground)		MSAMS		
	Water Table Dep		Meas. From				Sp#t Sample	ID	
	Well Dep	M 47,1	Z Meas, From	m		Required	Annivit	cal Parameters:	Collected
_	h of Water Colur					(%)	VO	Cs (Skd. list)	1 2
	ne of Water in W	-	milen s			())	, , , voc	Ca (Exp. list)	()
ntaka Dep	th of Pump/Tubi	ng 145	Meas, From	n <u>774</u>		(**)		SVOCs	(>>)
ference P	oint Identification	ı .				()		Bs (Total)	()
	nner (PVC) Cas					()		s (Dissolved) rorganics (Total)	()
-	Outer (Protectiv	•				()		rorganics (Total) genics (Dissolved)	()
de/BGS:	Ground Surface	, ·				()		nide (Dissolved)	()
	(A)					()		nide (Dissolved)	()
develop?	Y (N)	•				()		DDs/PCDFs	()
						()		les/Herbicides	()
						· * ' * '		al Attenuation or (Specify)	
CUATIO	N INFORMATIO	Ν							• •
Min Valume of	Pump Start Time Pump Stop Time sutes of Pumping Water Removed 2id Well Go Dry?	1450	[lons	,		Geopen	ibmersible Pump		Specify ()
Min Valume of	Pump Stop Time unter of Pumping Water Removed 2id Well Go Dry? Water Quality I	1450 150 4 09 M	Serial Numbers:	YSI_	Peristaitic Pun Pump Type: Samples colle	np (X) Su GLD PLX cted by same me	nbmersible Pump	() Other/s	· · · · · · · · · · · · · · · · · · ·
Min olume of r	Pump Stop Time sutes of Pumping Water Removed Did Well Go Dry?	1450 150 4 (6.09)	_	YSI Temp. (Coisius)	Peristaitic Pun Pump Type: Samples colle	CLO PLANCED BY SAME THE COMPS O	abmersible Pump 202 ethod as evacuation 300397	() Other/s on? Y N (spi ZAC 77 Z	HACH É
Min Nume of I	Pump Stop Time unter of Pumping Water Removed bid Well Go Dry? Water Quality I	// SO / SO / SO / Y N Meter Type(s)/S Total Gallone Removed	Serial Numbers:	Temp.	Peristatic Pun Pump Type: Samples colle	mp (X) Si GLD PLM cted by same me	abmersible Pump 202 ethod as evacuation 300397 Turbidity (NTU)	() Other/s	ORP
Min folume of I	Pump Stop Time unter of Pumping Water Removed Did Well Go Dry? Water Quality I Pump Rate	// SO / SO / SO / Y N Meter Type(s)/S	Serial Numbers:	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 550 T	CLID PLANCTON COMMENTS OF CONTROL (m.S/cm)	abmersible Pump 202 ethod as evacuation 300397 Turbidity (NTU)	Other/s	ORP
Minolume of E	Pump Stop Time suites of Pumping Water Removed bid Well Go Dry? Water Quality ! Pump Rate (L/min.)	// SO / SO / SO / Y N Meter Type(s)/S Total Gallone Removed	Serial Numbers: >> Water Level (ft TIC) 2,60	Temp. (Celeius) [3%]*	Perintaltic Pun Pump Type: Samples colle 550 1 pH [0.1 units]*	Cond. (mS/cm) [3%]*	abmersible Pump 202 ethod as evacuation 300397 Turbidity (NTU) [10% or 1 NTUP	() Other/s on? Y N (spi CAE 77 7 DO (mg/l) [10% or 0.1 mg/l	ORP (mV) [10 mV]
Minolume of E	Pump Stop Time suites of Pumping Water Removed bid Well Go Dry? Water Quality ! Pump Rate (L/mirs.) / 50	V R Gallons Removed	Serial Numbers: Water Level (ft TIC) 2.60 0.79	Temp. (Cetatus) [3%]*	Peristatic Pun Pump Type: Samples colle 550 1 pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]	abmersible Pump AP 2 ethod as evacuation 3CO 3 9 2 Turbidity (NTU) [10% or 1 NTUP 24	() Other/s on? Y N (spi 2 A C 77 DO (mg/l) [10% or 0.1 mg/l	ORP (mV) [10 mV]*
Minime of E	Pump Stop Time suites of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/mire.) / 50 / 50	Vector Type(s)/S Total Gallone Removed 0.59	Serial Numbers: Water Level (ft TIC) 2,60 0.79 0.99	Temp. (Cotatus) [3%]*	Perintaltic Pun Pump Type: Samples colle 550 1 pH i0.1 units!*	Calo pix Calo pix Cated by same me MPS O Sp. Cond. (mStem) [3%]	abmersible Pump AP 2 ethod as evacuation 300397 Turbidity (NTU) [10% or 1 NTUP 24 20	() Other/s on? Y N (spo	ORP (mV) -171,5 -214,7
Minime of D	Pump Stop Time suites of Pumping Water Removed Did Well Go Dry? Water Quality I Pump Rate (L/min.) /50 /50	JUSO JSO Y R Vector Type(s)/S Gallone Removed O.59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 0.99	Temp. (Celakus) [3%]" 12.13 11.18 11.99	Perintaltic Pun Pump Type: Samples colle 550 1 pH j0.1 units]* 8133 8.165	Inp (X) Sic GLD PLAN cted by same me MPS O Sp. Cond. (ms/cm) [3%]* 1. 6ZZ 1. 6J4	abmersible Pump AP 2 ethod as evacuation 3CO 3 9 2 Turbidity (NTU) [10% or 1 NTUP 24	() Other/s on? Y N (spi CAC 77 DO (mg/l) [10% or 0.1 mg/l 4, 42 1, 90 1, 34	ORP (mV) [10 mV]*
Minime of Columns of C	Pump Stop Time suites of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/mire.) / 50 / 50	Vector Type(s)/S Total Gallone Removed 0.59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 0.99	Temp. (Cotatus) [3%]*	Perintaltic Pun Pump Type: Samples colle 550 1 pH i0.1 units!*	Calo pix Calo pix Cated by same me MPS O Sp. Cond. (mStem) [3%]	abmersible Pump AP 2 ethod as evacuation 300397 Turbidity (NTU) [10% or 1 NTUP 24 20	() Other/s on? Y N (spo	ORP (mV) -171,5 -214,7
Min / Alume of	Pump Stop Time suites of Pumping Water Removed Did Well Go Dry? Water Quality I Pump Rate (L/min.) /50 /50	JUSO JSO Y R Vector Type(s)/S Gallone Removed O.59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 0.99 1.19	Temp. (Celakus) [3%]" 12.13 11.18 11.99	Perintaltic Pun Pump Type: Samples colle 550 1 pH j0.1 units]* 8133 8.165	mp (X) Si GLD PIX Cted by same me MPS O "Sp. Cond. (mS/cm) [3%] 1, 622 1, 624 1, 614	abmersible Pump AP 2 ethod as evacuation 3CO 3 9 2 Turbidity (NTU) [10% or 1 NTUP 24 20 18 19	() Other/s on? Y N (spi CAC 77 DO (mg/l) [10% or 0.1 mg/l 4, 42 1, 90 1, 34	ORP (mV) -171,5 -214,7 -228,5 -239,1
Min	Pump Stop Time suites of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50	JUSO JSO Wester Type(s)/S Gallons Removed O.59 JOO JOO JOO JOO JOO JOO JOO JOO JOO JO	Serial Numbers:	Temp. (Colaius) [3%]* 12.13 11.18 11.99 11.89	Perintaltic Pun Pump Type: Samples colle 550 1 pH i0.1 units!* 8133 8165 8177 8177	Inp (X) Si GLD PIX Cted by same me MPS O Sp. Cond. (mS/cm) [3%] 1.622 1.614 1.614 1.614	abmersible Pump AP 2 othod as evacuation 3CO 3 9 3 Turbidity (NTU) [10% or 1 NTUP 24 20 18 10 20	() Other/s on? Y N (spo	ORP (mv) 171,5 -214,7 -228,5 -234,3
Minume of 15	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 /50	1450 150 4.09 A Y R Wester Type(s) 15 Gallone Removed 0.59 -450 -450 -450 -450 -450 -450	Serial Numbers: Water Level (ft TIC) 2,60 0.79 0.99 1.19 1.39 1.59 1.78 1.78 1.78	Temp. (Codsius) [3%]* 12.13 11.18 11.99 11.89 11.98	Peristatic Pun Pump Type: Samples colle 6560 1 pH i0.1 units! 8133 8.65 8.77 8.77 8.79 8.82	(ms/cm) [3%] [1.622 [1.614 [1.614 [1.614] [1.614]	abmersible Pump AP 2 ethod as evacuation 3CO 3 9 2 Turbidity (NTU) [10% or 1 NTUP 24 20 18 19 20 20 20	() Other/s on? Y N (spi 2AC #7 DO (mg/l) [10% or 0.1 mg/l 4, 42 1, 9D 1, 34 1, 1D 5, 96 0, 81	ORP (mV) [10 mV]* -171,5 -214,7 -228,5 -234,1 -234,3 -249,7
Minime of 15 Time 35 50 55 00 05 10	Pump Stop Time inter of Pumping Water Removed Water Quality I Pump Rate (Limin.) /50 /50 /50 /50 /50	1450 150 6.09 A Y R Wester Type(s) 15 Gallons Removed 0.59 -450 -450 -450 -450 1.100	Serial Numbers: Water Level (ft TIC) 2.60 0.79 0.99 1.19 1.39 1.78 1.98	Temp. (Codalus) [3%]* 12.13 11.18 11.99 11.89 11.98 11.98	Perintantic Pun Pump Type: Samples colle 550 Y pH j0.1 units]* 8133 8165 8177 8179 8179	(ms/cm) [3%] [1.622 [1.614 [1.614 [1.614 [1.614 [1.622	stomersible Pump 10.2 ethod as evacuatic 300392 Turbidity (NTU) [10% or 1 NTUP 24 20 18 10 20 20 39	() Other/s on? Y N (spi 2AC 77 DO (mg/l) [10% or 0.1 mg/l 4, 4Z 1.9D 1.34 1.1D 5.96 0.81 6.74	ORP (mv) 171,5 -214,7 -228,5 -234,3
Minime of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pump Stop Time inter of Pumping Water Removed Did Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 /50 /50 /5	JUSO JSO GOGA Y Removed O.59 JOO JOO JOO HOD JOO HOD HOD HOD HOD HOD HOD HOD HOD HOD H	Serial Numbers:	Temp. (Codalus) [3%]* 12.13 11.18 11.99 11.89 11.98 11.98	Perintantic Pun Pump Type: Samples colle 550 Y pH j0.1 units]* 8133 8165 8177 8179 8179	(ms/cm) [3%] [1.622 [1.614 [1.614 [1.614 [1.614 [1.622	abmersible Pump AP 2 ethod as evacuation 3CO 3 9 2 Turbidity (NTU) [10% or 1 NTUP 24 20 18 19 20 20 20	() Other/s on? Y N (spi 2AC 77 DO (mg/l) [10% or 0.1 mg/l 4, 4Z 1.9D 1.34 1.1D 5.96 0.81 6.74	ORP (mV) [10 mV]* -171,5 -214,7 -228,5 -234,1 -234,3 -249,7
Minime of Control of C	Pump Stop Time tutes of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/mins.) /50 /50 /50 /50 /50 /50 /50 /5	JUSO JSO GOGA Y N Wester Type(s)/S Gailons Removed O.59 JOO JOO JOO HOD JOO HOD HOD HOD HOD HOD HOD HOD HOD HOD H	Serial Numbers: Water Level (ff TIC) 2.60 0.79 0.99 1.79 1.39 1.78 1.78 1.98 Ir (three consecutions	Temp. (Cotatus) [3%]* 12.13 11.18 11.99 11.89 11.89 11.98 11.73 itive readings on	Perintaltic Pun Pump Type: Samples colle 550 1 pH j0.1 units!* 8133 8165 8177 877 877 877	Inp (X) Si GLD PLX Cted by same me MPS O PS	abmersible Pump AP 2 othod as evacuation 3CO 3 9 3 Turbidity (NTU) [10% or 1 NTU] A4 A AD 18 10 20 21 31 31 31 31 31 31 31 31 31	() Other/s on? Y N (spo	ORP (mV) [10 mV]* -171,5 -214,7 -228,5 -234,1 -234,3 -249,7
Minime of Interest	Pump Stop Time suites of Pumping Water Removed Old Well Go Dry? Water Quality I Pump Rate (L/mins.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s) / SO G. Og A Y R Meter Type(s) / S Gallone Removed O. 59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.39 1.78 1.78 1.98 er (three consecutions	Temp. (Cotatum) (3%)* 12.13 11.18 11.99 11.89 11.98 11.73 ither readings on the country of the country o	Perintantic Pun Pump Type: Samples colle 550 1 pH i0.1 units 8133 8165 8177 8177 8179 8179 8179 8174 ollected at 3- to 5	Inp (X) Six GLD P(X) Cted by same me MPS O Sp. Cond. (m3/cm) [3%] 1. 622 1. 614 1. 614 1. 614 1. 614 1. 614 1. 614 1. 622 5-minuto interval	abmersible Pump 202 ethod as evacuatic 300392 Turbidity (NTU) [10% or 1 NTUP 24 20 18 10 20 39 is listed in each	() Other/s on? Y N (spi 2AC 77 DO (mg/l) (10% or 0.1 mg/l 1, 42 1, 9D 1, 34 1, 1D 5, 96 0, 81 6, 74 column heading.	ORP (mV) [10 mV]* -171,5 -214,7 -228,5 -234,1 -234,3 -249,7
Minime of International Intern	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 mortifier for each IS/SAMPLING N	Meter Type(s)/3 G. Og an Y (P) Gallone Removed O. 59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.19 1.39 1.78 1.78 1.78 I.78 I.78 I.78 I.78 I.78	Temp. (Codelius) [3%]* 12.13 11.18 11.99 11.89 11.98 11.98 11.73 ittive readings of gel +	Perintaltic Pun Pump Type: Samples colle 550 1 pH j0.1 units]* 8133 8,65 8,77 8,77 8,79 8,82 8,74 olected at 3- to 5	Inp (X) Six GLD P(X) Cted by same me MPS O Sp. Cond. (m3/cm) [3%] 1. 622 1. 614 1. 614 1. 614 1. 614 1. 614 1. 614 1. 622 5-minuto interval	abmersible Pump 202 ethod as evacuatic 300392 Turbidity (NTU) [10% or 1 NTUP 24 20 18 10 20 39 is listed in each	() Other/s on? Y N (spo	ORP (mV) [10 mV]* -171,5 -214,7 -228,5 -234,1 -234,3 -249,7
Minime of the control	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 mortifier for each IS/SAMPLING N	Meter Type(s) 1: Gellone Removed 0.59 -450 -	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Codelius) [3%]* 12.13 11.18 11.99 11.89 11.98 11.73 itive readings of gel +	Perintaltic Pun Pump Type: Samples colle 550 1 pH i0.1 units!" 8133 8,65 8,77 8,77 8,77 8,79 8,82 8,74 olected at 3- to 5	Sp. Cond. (mS/cm) [3%] 1.622 1.614 1.614 1.619 1.622 5-minute interval	abmersible Pump AP 2 othod as evacuation 3CO 3 9 3 Turbidity (NTU) [10% or 1 NTUP AU AD 18 10 20 39 a) is listed in each	() Others on? Y N (spo) CAE 77 DO (mg/l) [10% or 0.1 mg/l 1, 9D 1, 34 1, 1D 0, 96 0, 81 0, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7
Time 35 45 50 55 00 stabilization Time A CLLEY 68	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality I Pump Rate (L/noin.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s)/3 G. Og an Y (P) Gallone Removed O. 59	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Goldina) [3%]* 12.13 11.18 11.99 11.89 11.98 11.73 itive readings of the continuous of t	Perintatic Pun Pump Type: Samples colle 550 1 pH i0.1 units!* 8133 8.165 8.77 8.77 8.79 8.82 8.74 ollected at 3- to 5 Ye gulge Lucy Level	J. 614 1. 614 1. 614 1. 614 1. 614 1. 614 1. 622 5-minute interval	abmersible Pump 100 2 othod as evacuatic 300393 Turbidity (NTU) (10% or 1 NTUP 24 20 18 10 20 39 a) is listed in each	() Other/s on? Y N (spi 2AC 77 DO (mg/l) (10% or 0.1 mg/l 1, 42 1, 9D 1, 34 1, 1D 5, 96 0, 81 6, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7
Minimo of the contract of the	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality I Pump Rate (L/noin.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s) 1: Gellone Removed 0.59 -450 -	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Goldina) [3%]* 12.13 11.18 11.99 11.89 11.98 11.73 itive readings of the continuous of t	Perintatic Pun Pump Type: Samples colle 550 1 pH i0.1 units!* 8133 8.165 8.77 8.77 8.79 8.82 8.74 ollected at 3- to 5 Ye gulge Lucy Level	J. 614 1. 614 1. 614 1. 614 1. 614 1. 614 1. 622 5-minute interval	abmersible Pump AP 2 othod as evacuation 3CO 3 9 3 Turbidity (NTU) [10% or 1 NTUP AU AD 18 10 20 39 a) is listed in each	() Others on? Y N (spo) CAE 77 DO (mg/l) [10% or 0.1 mg/l 1, 9D 1, 34 1, 1D 0, 96 0, 81 0, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7
Minime of Interest	Pump Stop Time inter of Pumping Water Removed Old Well Go Dry? Water Quality I Pump Rate (L/noin.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s) 1: Gellone Removed 0.59 -450 -	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Goldina) [3%]* 12.13 11.18 11.99 11.89 11.98 11.73 itive readings of the continuous of t	Perintatic Pun Pump Type: Samples colle 550 1 pH i0.1 units!* 8133 8.165 8.77 8.77 8.79 8.82 8.74 ollected at 3- to 5 Ye gulge Lucy Level	J. 614 1. 614 1. 614 1. 614 1. 614 1. 614 1. 622 5-minute interval	abmersible Pump 100 2 othod as evacuatic 300393 Turbidity (NTU) (10% or 1 NTUP 24 20 18 10 20 39 a) is listed in each	() Others on? Y N (spo) CAE 77 DO (mg/l) [10% or 0.1 mg/l 1, 9D 1, 34 1, 1D 0, 96 0, 81 0, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7
Ime Ime Ime Ime Ime Ime Ime Ime	Pump Stop Time inter of Pumping Water Removed Did Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s) 1: Gellone Removed 0.59 -450 -	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Colation) (3%)* 12.13 11.18 11.99 11.89 11.89 11.73 ither readings of the poly (1.73) (2.13) (3.13) (4.18) (5.13) (6.18) (7.18)	Perintatic Pun Pump Type: Samples colle 550 1 pH i0.1 units!* 8133 8.165 8.77 8.77 8.79 8.82 8.74 ollected at 3- to 5 Ye gulge Lucy Level	J. 622 J. 614 J. 622 J. 614 J. 622 J. 614 J. 622 J. 622	abmersible Pump 100 2 othod as evacuatic 300393 Turbidity (NTU) (10% or 1 NTUP 24 20 18 10 20 39 a) is listed in each	() Others on? Y N (spo) CAE 77 DO (mg/l) [10% or 0.1 mg/l 1, 9D 1, 34 1, 1D 0, 96 0, 81 0, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7
Minime of Interest	Pump Stop Time inter of Pumping Water Removed Did Well Go Dry? Water Quality ! Pump Rate (L/min.) /50 /50 /50 /50 /50 /50 /50 /5	Meter Type(s) 1: Gellone Removed 0.59 -450 -	Serial Numbers: Water Level (ft TIC) 2.60 0.79 1.79 1.79 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	Temp. (Colation) (3%)* 12.13 11.18 11.99 11.89 11.89 11.73 ither readings of the poly (1.73) (2.13) (3.13) (4.18) (5.13) (6.18) (7.18)	Perintatic Pun Pump Type: Samples colle 550 1 pH j0.1 units!* 8133 8.165 8.77 8.77 8.79 8.82 8.74 ollected at 3- to 8 require R K-W H IS O'	J. 622 J. 614 J. 622 J. 614 J. 622 J. 614 J. 622 J. 622	abmersible Pump 100 2 othod as evacuatic 300393 Turbidity (NTU) (10% or 1 NTUP 24 20 18 10 20 39 a) is listed in each	() Others on? Y N (spo) CAE 77 DO (mg/l) [10% or 0.1 mg/l 1, 9D 1, 34 1, 1D 0, 96 0, 81 0, 74 column heading.	ORP (my) 17 (10 my) 214.7 -228.5 -234.3 -234.3 -236.7

Well No.	89 A	Site/GMA Name	GNAZ GE PINSFEID
		Sampling Personnel	KIC
		Date	5/5/08
		Weather	70 Sunny Slight breeze

WELL	INFORMATION -	See Page 1
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	Pump	Total '	Water	Temp.	pН	Sp. Cond.	Turbidity	DO	ORP
Time	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius) [3%]*	[0.1 units]*	(m\$/cm)	(NTU)	(mg/l)	(mV)
1315	150	1.5	2.18	11,1,7		1,774	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	[10 mV]*
1320	150	+,65	2.38	11.65	7,78	1.871	53 53	0.60	-197,7
1325	150	1.80	2.58	11,60	7.83	1.892	39	0.58	-189.5
1330	150	1.95	2.77	11.59	7.82	1.898	38	0.57	-182.5
1335	150	2.10	2.97	11,74	7.82	1.897	36	0.56	-175,0
1338	15D	a. a5	3.09	11.65	7.87	1,904	33	0,56	-172,6
1341	150		3.21	11.76	7,72	1,904	33	0,54	-172.4
1344	150	a. 66	3.33	11,68	7,75	1,908	28	0.54	-172,3
1347	150	_	3.45	11.59	7,77	1,908	29	0.55	-1723
1350	150	8.95	3.57	11.58	7.76	1,908	27	0.54	-171.9
1353	150	3,10	3~69	11,67	7,79	1,908	25	0.54	-171,4
1356	150	3,25	3.80	11.73	7,78	1,908	a5	0,55	8.0F1-
1359	150	3.40	2.55	11.80	7,74	1,909	26	0,53	-170,3
1400-	-	\rightarrow S	ampl	e) (e)	140		Kic	£	
	\mathcal{C}	3.92	×3.25			7	7000		

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

Referen	RMATION non Point Marks of Reference Po	270	Mean. Fro	om <u>£</u>		ı	Sample Tim Sample i Ouplicate i		
	Well Diame			m BLS			MSAMS		
∤ Scne W	oon interval Do Vator Table De	pen 2,91	Meas. Fro				Sp# Sample !!	0	
	Well De	m <u>8,73</u>	Meas, Fro	A-francisco de la constante de		Required	-	al Parameters:	Collected
Length	of Water Colur a of Water in W	$\frac{5.79}{0.94}$	ullon					ls (Std. list) a (Exp. list)	(/
take Depti	h of Pump/Tubi	ng 15,5	Meas. Fro	m TIC		ixi		SVOCa	(بد)
_						()		Bs (Total)	()
	int Identification mer (PVC) Cas	-				()		(Dissolved) organics (Total)	()
•	Outer (Protectiv	•				()		anics (Dissolved)	()
de/BGS; (Ground Surface					()	-	nide (Dissolved) nide (Dissolved)	()
evelop?	YN					()	•	Ds/PCDFs	()
						()		es/Herbicides	()
						(X)		Attenuation	(+)
p Minu Olume of V	I INFORMATIO Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry	12:13 1355 102 5.794	- 7/ons	•	Peristatic Pun Pump Type:	<u> 0</u> €			pecify ()
p Minu olume of V	Pump Start Time Pump Stop Time vites of Pumpin Water Removed id Well Go Dry'	12:13 1355 102 15:49A Y N	Serial Numbers		Peristatic Pun Pump Type: Samples colle	ted by same me	Bladder Burnersible Pump For fun, p 2 Bethod as evacuation	Pump () () Other/S on? N (spec	P Turkin
p P Minu olume of V Di	Pump Start Time Pump Stop Time Pump Stop Time Vater Removed Id Well Go Dry Water Quality Pump Rate		Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle	Sp. Cond.	Bladder briessible Pump O P(W, P 2 whod as evacuation Turbidity (NTU)	Pump () () Other/S on? () N (special () 2/00 DO (mg/l)	ORP (mV)
p P Minu olume of V Di	Pump Start Time Pump Stop Time utes of Pumpine Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.)	2; 3 355 	Serial Numbers: Water Level (ft TIC)	Temp.	Peristatic Pun Pump Type: Samples colle	sup (X Superior Super	Bladder briensible Pump Copulation Buthod as evacuation Turbidity (NTU)	Pump () () Other/S on? N (spec	ORP (mV)
p P Minu olume of V Di	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	12; 3 1355 102 5. 49A Y N N N N N N N N N	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle VGT 5 pH (0.1 units)*	Sp. Cond.	Bladder briessible Pump O P(W) P Z ethod as evacuation Turbidity (NTU) [10% or 1 NTUP	Pump () () Other/S on? () N (special ()) N (special ()) (mg/ll) [10% or 0.1 mg/l]	ORP (mV) [10 mV]
p P Minu olume of V Di	Pump Start Time Pump Stop Time utes of Pumpine Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.)	12; 3 1355 155 155 	Serial Numbers: Water Level (ft TIC)	Temp. (Celaius) [3%]"	Peristatic Pun Pump Type: Samples colle VGT 5 pH i0.1 units*	Sp. Cond.	Bladder briensible Pump Copulation Buthod as evacuation Turbidity (NTU)	Pump () () Other/S in? () N (special Color Co	ORP (mV) [10 mV]*
Minute of V Di	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	12:13 13:55 13:55 10:2- 25: 19:4 Y N N Meter Type(s) / S Total Gallone Removed	Serial Numbers: Water Level (ft TIC)	Temp. (Celaius) [3%]"	Peristatic Pun Pump Type: Samples colle VGT 5 pH i0.1 units]*	Sp. Cond. (mS/cm) [3%] 0.943	Bladder britishe Pump Co f(M) f 2 whod as evacuation Turbidity (NTU) [10% or 1 NTUF 2 3	Pump () () Other/S () Other/S () N (special No. 2/00 (mg/li) (10% or 0.1 mg/li) 22.29 16.36	ORP (mV) [10 mV]* -36, 0
Minusolume of V Di Time 13 -25 -30 -35	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	2; 3 355 1355 102 5.49A Y N Meter Type(s)/5 Total Gallone Removed 0-63 0-89 /-//6	Serial Numbers: Water Level (ft TIC)	Temp. (Coloius) [3%]" 10.80 155.10.61 [0.54	Peristatic Pun Pump Type: Samples collections VGT 5 pH i0.1 units 1*	Sup (X) Superior (X) George (X) George (X) George (X) George (X) Sp. Cond. (Inssem) (3%) (1947) (1947) (1947) (1947) (1947) (1947) (1947)	Bladder ibmersible Pump Po Pus P S Holder S Hold	Pump () () Other/s in? () N (special 2/00 DO (mg/l) [10% or 0.1 mg/l] 22.29 16.36	ORP (mV) [10 mV]* -36, 0 -21, 2 -26, 4
Minus Mi	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	2; 3 355 102 5.49A Y N N N N N N N N N N	Serial Numbers: Water Level (ft TIC)	Temp. (Coloius) [3%]" 10.80 15.10.61 [0.54	Peristatic Pun Pump Type: Samples collections VGT 5 pH i0.1 units p	Sup (X) Super model of the super	Bladder ibmersible Pump 2 flat p 2 https://doi.org/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/10.1000/	Pump () () Other/S in? () N (special No. 100 (mg/l) [10% or 0.1 mg/l] 22.27 [16.36 [2.47 8,26	ORP (mV) [10 mV] -36.0 -21.2 -26.4 -35.5
Minusolume of V Di Time 13 -25 -30 -35 -40 -45	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	2: 3 355 1355 102 5:49A Y N N Meter Type(s) 5 Total Gallone Removed 	Serial Numbers: Water Level (ft TIC)	Temp. (Gelesten) [3%]* 10.80 16.54 10.49 10.62	Peristatic Pun Pump Type: Samples collections VGT 5 pH i0.1 units 1*	Sp. Cond. (mS/cm) [3%]* 0.943 0.947 0.950 0.961	Bladder ibmersible Pump of Pus P 2 sethod as evacuation of the pump of the pum	Pump () () Other/S in? () N (specially of the series of	ORP (mV) [10 mV]* -36, 0 -21, 2 -26, 4 -35, 5 -47, 2
Minusolume of V Di Time 13 -25 -30 -35 -40 -45 -50	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/mins.)	12:13 13:55 13:55 10:2 1:5: 49A Y N N N N N N N N N N	Serial Numbers: Water Level (ft TIC)	Temp. (Coloites) [3%]" 10.80 16.10.61 10.54 10.49 10.62 10.71	Peristatic Pun Pump Type: Samples collections VGT 5 pH i0.1 units]* GC/5 6.16 6.20 U.31 6.52 6.58	Sup. Cond. (Ins.) (Ins.	Bladder ibrnersible Pump of fus p 2 hithod as evacuation (NTU) (10% or 1 NTU) 2 3 (6) (1) 11 9 (7)	Pump () () Other/S on? () N (specially constitution of the cons	ORP (mV) [10 mV]* -36,0 -21.2 -26,4 -35,5 -47.2 -55.2
Minusolume of V Discourse of Discourse of V Discourse of Discourse of Discourse o	Pump Start Time Pump Stop Time Uses of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.) 200	12:13 13:55 10:2 5:49A Y N N Meter Type(s) / S Total Gallone Removed 0-63 0-89 1-16 1-42 1-69 1-95 2-22	Serial Numbers: Water Level (ft TIC) Z[]	Temp. (Geleise) [3%]* 10.80 #6.10.61 [0.54 10.49 10.62 10.71	Peristatic Pun Pump Type: Samples collections VGT 5 pH i0.1 units 1* 6.16 6.20 6.31 6.52 6.58 6.67	Sup. Cond. (Inssem) (Syp. Cond. (Instem) (Syp. Cond. (Syp. Cond. (Syp	Bladder ibmersible Pump of Pus p 2 http://www.pc.com/pc.co	Pump () () Other/S in? () N (special State St	ORP (mV) [10 mV]* -36, 0 -21, 2 -26, 4 -35, 5 -47, 2
Minusolume of V Di	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.) ZOO	12:13 13:55 10:2 5:49A Y N N Meter Type(s) / S Total Gallone Removed O-G3 O-89 / 1-16 / 1-69 / 1	Water Level (ft TIC) City	Temp. (Geleius) [3%]* 10.80 15.0.61 [0.54 10.49 10.49 10.77 10.77 cutive readings on	Peristatic Pun Pump Type: Samples collection VGT 5 pH i0.1 units!* G-16 6-20 C-31 G-52 G-58 G-67	Sup. Cond. (Inssem) (Syp. Cond. (Instem) (Syp. Cond. (Syp. Cond. (Syp	Bladder ibrnersible Pump of fus p 2 hithod as evacuation (NTU) (10% or 1 NTU) 2 3 (6) (1) 11 9 (7)	Pump () () Other/S in? () N (special State St	ORP (mV) [10 mV]* -36,0 -21.2 -26,4 -35,5 -47.2 -55.2
Minusolume of V Di	Pump Start Time Pump Stop Time utes of Pumping Water Removed Id Well Go Dry Water Quality Pump Rate (L/min.) ZOO	12:13 13:55 10:2 5:49A Y N N N N N N N N N N	Water Level (ft TIC) City	Temp. (Geleise) [3%]* 10.80 #6.10.61 [0.54 10.49 10.62 10.71	Peristatic Pun Pump Type: Samples collection VGT 5 pH i0.1 units!* G-16 6-20 C-31 G-52 G-58 G-67	Sup. Cond. (Inssem) (Syp. Cond. (Instem) (Syp. Cond. (Syp. Cond. (Syp	Bladder ibmersible Pump of Pus p 2 http://www.pc.com/pc.co	Pump () () Other/S in? () N (special State St	ORP (mV) [10 mV]* -36,0 -21.2 -26,4 -35,5 -47.2 -55.2

Site/GMA Name	GMA-3
Sampling Personnel	D. Zuck
Date	5/4/08
Weather	Sunny 565F
	Sampling Personnel Date Weather

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]*
1300	2200	≈2.48	April Marie Ma	10.63	6.68	0.755	9	1.72	-60.3
1305	~150	2.68		10-83	6.69	0.52	8	1.51	-61.5
1310		2.88		11,004	6.74	0.952	10	1.40	-64.2
1313g		3-00		10.90	6.74	0-953	8	1.37	-64.5
3168	· \	3-12		11.06	6.75	0.951	7	1,36	-65.2
31/19	A	3. 24		11.18	6.77	6.990	Š	1.32	-67.3
1.88									>
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The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
DBSERVATIONS/SAMPLING METHOD DEVIATIONS
DBSERVATIONS/SAMPLING METHOD DEVIATIONS TENP High Done to Sun Exposure

Wall No Kay No	·	10-R		Sen	Sile/GMA Nam npling Personne		nati	,	
	ekground (pp				Date		08		
West H	endepace (pp	m) N//+		•	Weathe	- Sunny	2:450		
ELL INFOR	HOTTON	0					Sample Tim	1505	
Referen	ce Point Merke	M P				t	Sample I	A . A	R
Height of	f Reference Po	pint	Meas. Fro	OFF)	-		Duplicate I	0	
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	en Interval De						Sp#t Sample I	0	
W	later Table Dep	-		m IFC					
)	Well Dep	1.444 Th	<u> </u>	m <u> C</u>	-	Required		al Parameters;	Collected
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	of Pump/Tubi	7.		m TIC		(80)		SVOCs	۱ ا
						(X)		Bs (Total)	(-{ }
erence Poi	nt Identification	ŗ				()		(Dissolved)	()
: Top of In	ner (PVC) Cas	ing				()	Metals/in	organics (Total)	()
•	Duter (Protecth	•				()	Metals/Inorg	panics (Dissolved)	()
de/BGS: G	Ground Surface					()	-	nide (Dissolved)	()
develop?	Y (N)					()	•	nide (Dissolved)	()
- vary		,				()		Os/PCDFs les/Herbicides	()
						(∞)		Attenuation	(+)
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CUATION	INFORMATIO	N lice							
P Pi Minu Diume of V	INFORMATIO rump Start Time rump Stop Time tes of Pumping Vater Removed d Well Go Dry's	1415 1540 85 1900		•	Evacuation Me Peristattic Pum Pump Type: Samples collec	ip (X Si	() Bladder ubmersible Pump		Specify ()
P Minu Minu Olume of W Di	rump Start Time rump Stop Time tea of Pumpine Vater Removed d Well Go Dry's	1415 1540 85 1900		- <u>Y</u> 5I	Peristattic Pum Pump Type: Samples collec	ted by same me	ubmersible Pump Of Pump ethod as evacuation	Other/S	
P Minu Olume of W	rump Start Time rump Stop Time tea of Pumpine Vater Removed d Well Go Dry's	4(5 1540 3 55 4 0961 Y (1) Meter Type(s)/S		: <u>YSI</u> Temp.	Peristattic Pum Pump Type: Samples collec	ted by same me	ubmersible Pump Of Pump ethod as evacuation	Other/S	icify)
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Pi Minu Diurne of W Di	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump	4(5 1540 3 55 4 0961 Y (1) Meter Type(s)/S	Grisi Numbers:	Temp.	Peristatic Pum Pump Type: Samples collec	ted by same me 556 Sp. Cond.	ubmersible Pump A Pump ethod as evacuation M/S Turbidity	() Other/S DO (mg/f)	ORP (mV)
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Pome Property Propert	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate		Gorial Numbers: Water Level	Temp. (Celsius)	Peristatic Pum Pump Type: Samples collect #3	sp (X Su GC Content of the Content o	the purple of th	() Other/S DO (mg/f)	ORP (mV)
P. Minu olume of W Dk	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	Meter Type(s)/S Total Gallone Removed	Gorial Numbers: Water Level	Temp. (Celeius) [3%]*	Peristatic Pum Pump Type: Samples collect #3	Sp. Cond. (mS/cm) [3%]	the properties of the properti	() Other/S 2007 N (spe Hack 2 100 (mg/l) [10% or 0.1 mg/l]	ORP (mV)
Pome Property Propert	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	Meter Type(s)/S Total Gallore Removed 0.23	Gorial Numbers: Water Level	Temp. (Coloius) [3%]*	Peristatic Pum Pump Type: Samples collect #3 pH [0.1 units]* 7.84 7.88	556 Sp. Cond. (mS/cm) [3%] 2.574 2.682	the property of the property o	() Other/S DO (mg/l) [10% or 0.1 mg/l] [1] 5 2 [ORP (mV) [10 mV) [-107.1
P. Minu/olume of W. Di. Time 4 (5) 4 20	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	4(5 1540 85 9.09all Y (N) Meter Type(s)/S Callone Removed 0.23 0.46 0.69	Gorial Numbers: Water Level	Temp. (Coloium) [3%]*	Peristatic Pum Pump Type: Samples collect #3 pH (0.1 units)*	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826	the property of the property o	() Other/S 2007 N (spe Hack 2 10% or 0.1 mg/l 11.52 9-69 LH 91	ORP (mV) [10 mV) [-107.1 -107.4
P. Minu Volume of W. Di Time 4 (5) 4 20 4 25	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	4(5 1540 35 4.09a/l Y N N N N N N N N N	Gorial Numbers: Water Level	Temp. (Colsium) [3%]* 10.5% [6.60]0.91	Peristatic Pum Pump Type: Samples collect #3 pH j0.1 units ** 7.88 7.93 7-93	Sp. Cond. (mS/cm) (3%) 2.5/4 2.682 2.844	the property of the property o	() Other/S DO (mg/l) [10% or 0.1 mg/l] [1] 5 2 [ORP (mV) [10 mV]
P Minu Volume of W Di Time 4 (5) 4 20 4 25	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	4(5 1540 85 9.09a/1 Y (N) Meter Type(s)/S Gallone Removed 0.23 0.46 0.69 0.92 1.16	Gorial Numbers: Water Level	Tomp. (Goldius) [3%]* 10.58 [0.60 [0.9] [1.13 [1.22	Perietatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.844 2.832	abmersible Pump A funf ethod as evacuation M/S Turbidity (NTU) [10% or 1 NTU]	() Other/S N (spe Hach 2 DO (mg/l) [10% or 0.1 mg/l) [1 5 2 9 - 6 9 L4 9 1 2 - 4 9 1 1 - 6 9	ORP (mV) [10 mV) [10 mV) [-107.1 -107.4 -91.4 -94.1 -100. j
P. Minu /olume of W. Di. Time 4 (5) 4 20 4 35 4 36 4 40 4 46	ump Start Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate	4(5 1540 85 9.09a/l Y (N) Total Gallone Removed 0.23 0.46 0.92 1.16 1.39	Gorial Numbers: Water Level	Tomp. (Coloium) [3%]* 10.5% 10.60 10.91 11.13 11.22 11.05	Peristatic Pum Pump Type: Samples collect #3 pH j0.1 units ** 7.88 7.93 7.97 8.01 8.03	556 Sp. Cond. (mS/cm) [3%] 2.574 2.682 2.844 2.832 2.790	the purple of the purple of purple o	() Other/s H2 On? On (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l) [1, 5 2 9 - 6 9 4 9 1 2 1 9 1 - 6 9 1 - 6 9 1 - 6 9 1 - 6 9	ORP (mV) [10 mV]
125 130 (35 40 145	ump Start Time ump Stop Time trea of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate (Limin.)	4(5 1540 85 9.09a/1 Y (N) Meter Type(s)/S Callons Removed 0.23 0.46 0.69 0.92 1.16 1.39 1.62	Water Level (ft TIC)	Tomp. (Goldium) [3%]* 10.58 10.60 10.51 11.13 11.22 11.05 11.24	Perietatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.33	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 2.832 2.740 2.748	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV) [10 mV) [-107.1 -107.4 -91.4 -94.1 -100. j
P. Minu / Olume of W. Di. Time 4 (5) 4 20 4 35 4 40 4 45 50 stabilization	ump Start Time ump Stop Time ump Stop Time utes of Pumping Vater Removed d Well Go Dry Water Quality Pump Rate (Limits.)	4(5 1540 85 9.096/19 Y (N) Meter Type(s)/S Gallone Removed 0.23 0.46 0.69 0.92 1.16 1.39 1.62 ch field parameter	Water Level (ft TIC)	Tomp. (Goldium) [3%]* 10.58 10.60 10.51 11.13 11.22 11.05 11.24	Perietatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.33	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 2.832 2.740 2.748	the purple of the purple of purple o	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
P. Minu /olume of W. Di. Time 4 (5) 4 20 4 25 4 30 4 35 4 40 4 75 50 stabilizations	ump Start Time ump Stop Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate (Limits.)	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
P. Minu / Olume of W. Di. Time 4 (5) 4 20 4 35 4 40 4 75 50 stabilization RVATIONS	ump Start Time ump Stop Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate (Limits.)	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Perietatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.33	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
P. Minu /olume of W. Dis / 125 / 130 / 135 / 140 / 150	ump Start Time ump Stop Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate (Limits.)	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
P. Minume of W. District of 15 (5) (35) (35) (40) (45) (50) (50) (50) (60) (60) (60) (60) (60) (60) (60) (6	ump Start Time ump Stop Time ump Stop Time tes of Pumpine Vater Removed d Well Go Dry Water Quality Pump Rate (Limits.)	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
P	tump Start Time tump Stop Time tres of Pumping Vater Removed d Well Go Dry Water Quality Pump Rate (Limin.) 1755	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the state of the s	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]
Minusiane of Winds Property of	ump Start Time ump Stop Time tres of Pumpin vater Removed d Well Go Dry Water Quality Pump Rate (Limin) (755)	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the purple of pu	() Other/S 2	ORP (mV) [10 mV]
P P Minu	ump Start Time ump Stop Time tres of Pumpine vater Removed d Well Go Dry Water Quality Pump Rate (Limins.) (755	Meter Type(s)/S Total Gallone Removed 0.23 0.46 0.69 1.16 1.39 1.62 ch field paramete	Water Level (ft TIC)	Tomp. (Coloius) [3%]* 10.58 10.60 10.91 11.13 11.22 11.05 11.24 cutive readings of	Peristatic Pum Pump Type: Samples collect #3 pH i0.1 units 7.84 7.88 7.93 7.97 8.01 8.11 offected at 3- to 5	556 Sp. Cond. (mS/cm) [3%]* 2.5/4 2.682 2.826 2.844 7.832 7.740 7.748 5-minute interval	the purple of pu	() Other/s H2 ON (spe Hack 2 DO (mg/l) [10% or 0.1 mg/l 11.52 9-69 491 2.19 1.69 1.42 1.20	ORP (mV) [10 mV]

Well No.	\$ 89D-R	Site/GMA Name	GMA-3.
		Sampling Personnel	D. 2016
		Date	5/4/08
		Weather	Sunny 65

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	175	1.76		11.37	8.08	2728	5	1.16	103.1
1456	1	1.90		11.20	8.08	2.722	5	1.14 -	103.1
1459		2.03		11,22	8.08 8.08	2.722	4	1.08	102,5
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* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS
See Paul 1 fer Sun tour issue

Well N	lo	ノイ			SHO/GIMA Nen	() / /			
Kay N	16. FX	-37		Sen	npling Personn	at RA	10		
PID B	sckground (pp	m)			Da	5/14	108		
	leadspace (pp				Weath	7-1-	Itale	505 LF 131	cene
	•••					7			0
MELL INFO	RMATION	_	~			•	Sample Tim	· 1025	
Referor	nce Point Marks	kd? Y (N)		1	r	Sample I	D 90A	
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	Well Diame	~ <u>- </u>		J			MSAMS	0	
	oen Interval Day		Mes. Fr	om	والمهارات.		Spilt Sample I	D	
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	Well Der		Mone, Fro	om <u>TIC</u>		Required		al Parameters;	Collected
-	of Water Colur				,	(X)		is (Std. list)	(X)
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іптаки Оерб	t of Pump/Tubi	mg = 7.7	Moas, Fro	m groun	<u>.</u>	()		SVOCs	()
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	Pump Start Time Pump Stop Time	7.77		•	Evacuation M	ethod: Bailer (() Sladder	Pump ()	
. F Mini Valume of \	Pump Stop Time utes of Pumping Water Removed hid Well Go Dry?	1045	-	: <u>45</u> E#	Peristattic Puri Pump Type: Samples colle	np (K) Su Geo F cted by same me	obmersible Pump	() Other/Sp	•
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality	1045 180 13.2 cyc 1 Y N	Serial Numbers	Temp.	Peristattic Puri Pump Type: Samples colle	Sp. Cond.	Ibmersible Pump Pump Z Hhod as evacuatio Turbidity	() Other/Sp n? () N (spec c ム こ () 10 F	ORP
Mini Volume of \	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality Pump Rate	1045 80 3-2 c ₁₆ Y N Meter Type(s) / Total	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Ithmersible Pump Comp Zothod as evacuation Turbidity (NTU)	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV)
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality	Meter Type(s) /: Total Gailons Removed	Serial Numbers	Temp.	Peristattic Pun Pump Type: Samples colle	Sp. Cond.	Ithmersible Pump Comp Zothod as evacuation Turbidity (NTU)	() Other/Sp n? () N (spec c ム こ () 10 F	ORP (mV)
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality Pump Rate	Meter Type(s) // Total Gallons Removed 0.5%	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Ithmersible Pump Comp Zothod as evacuation Turbidity (NTU)	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV)
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality Pump Rate	Meter Type(s) /: Total Gailons Removed	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV)
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality Pump Rate	1045 80 3-2 c ₁₆ Y N	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Ithmersible Pump Comp Zothod as evacuation Turbidity (NTU)	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]*
F Mini Volume of \ D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3.2 cyc Y N Total Gallone Removed 0.5 \(\frac{9}{2} \)	Serial Numbers: Water Level	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV)
F Mini Volume of \ D	Pump Stop Time utes of Pumping Water Removed ild Well Go Dry? Water Quality Pump Rate	1045 80 3-2 c ₁₆ Y N	Serial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Turbidity [10% or 1 NTUP	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]* -179.1
F Mini Volume of \ D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3-2 cg y N Meter Type(s)// Gallone Removed 0.59 0-79 0-99	Water Level (fr.Tic) 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Seo F Cted by same me 1461 A Sp. Cond. (mS/cm) [3%]* 0.411 0.415 0.414	Turbidity (NTU) [10% or 1 NTU]	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]*
F Mini Volume of \ D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3.2 c ₁₆ Y N	Water Level (ft TIC) 5.88 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Sp. Cond.	Turbidity [10% or 1 NTUP	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]* -179.1
F Mint Volume of N D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3-2 cg y N Meter Type(s)// Gallone Removed 0.59 0-79 0-99	Water Level (fr.Tic) 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Seo F Cted by same me 1461 A Sp. Cond. (mS/cm) [3%]* 0.411 0.415 0.414	Turbidity [10% or 1 NTUP	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]* -179.1
F Mini Volume of \ D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3-2-4 Y N Meter Type(s)// Gallone Removed 0.59 0-79 0-99 1-18 1-38 1-58	Water Level (ft TIC) 5.88 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Seo F Cted by same me 1461 A Sp. Cond. (mS/cm) [3%]* 0.411 0.415 0.414	Turbidity [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l] 5.96 3.87 3.44 3.45 3.53	ORP (mV) [10 mV]* -179.1
F Mint Volume of N D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3-2 cys Y N N Total Galione Removed 0-79 0-99 1-18 1-38 1-38 1-78	Water Level (ft TIC) 5.88 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Sec F Sur Sur Sur Sur Scot F Scot Sur	Turbidity [10% or 1 NTUP	() Other/Sp n? () N (spec s, L 2 ()) D F DO (mg/l)	ORP (mV) [10 mV]* -179.1
F Mini Volume of \ D	Pump Stop Time utea of Pumping Water Removed id Well Go Dry/ Water Quality Pump Rate (L/mire.)	1045 80 3-2-4 Y N Meter Type(s)// Gallone Removed 0.59 0-79 0-99 1-18 1-38 1-58	Water Level (ft TIC) 5.88 5.88 5.88	Temp. (Coloium) [3%]* 8,80 8,45	Peristatic Pun Pump Type: Samples colle 3 03 0	Seo F Cted by same me 1461 A Sp. Cond. (mS/cm) [3%]* 0.411 0.415 0.414	Turbidity [10% or 1 NTUP	00 (mg/l) [10% or 0.1 mg/l] 5.96 3.87 3.44 3.45 3.53	ORP (mV) [10 mV]* -179.1
Time 940 945 955 900 905 915 915	Pump Stop Time utes of Pumping Water Removed id Well Go Dry/s Water Quality Pump Rate (L/min.) 150 on criteria for each	1045 80 3-2-cg y N Meter Type(s)/ Total Gallone Removed 0.59 0-79 1.18 1.38 1.58 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Cted by same me 	Turbidity [10% or 1 NTUP	10% or 0.1 mg/ll 3.45 3.64 3.66	ORP (mV) [10 mV]* -179.1
740 755 755 755 755 755 755 755 755 755 75	Pump Stop Time utes of Pumping Water Removed Hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 In criteria for each IS/SAMPLING I	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (R TIC) 5.88 5.88 5.88 5.88 5.88 5.88 6.88 6.88 6.88 6.88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units]* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 750 755 755 755 755 755	Pump Stop Time uten of Pumping Water Removed Hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 I 50	1045 80 3-2-cg y N Meter Type(s)/ Total Gallone Removed 0.59 0-79 1.18 1.38 1.58 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 755 755 755 755 755 755 755 755 75	Pump Stop Time utes of Pumping Water Removed Hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 In criteria for each IS/SAMPLING I	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	10% or 0.1 mg/lf 5.96 3.87 3.44 3.45 3.64 3.66 column heading.	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 755 755 755 755 755 755 755 755 75	Pump Stop Time utes of Pumping Water Removed Hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 150 Color / Cater.	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 750 755 755 755 755 755	Pump Stop Time utes of Pumping Water Removed hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 150 Color I Color	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 755 755 755 755 755 755	Pump Stop Time utes of Pumping Water Removed hid Well Go Dry's Water Quality Pump Rate (L/min.) 150 150 150 Color I Color	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Coloium) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 cutive readings of Connect	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Sec F Start	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9
Time 740 755 750 755 750 755 750 755 750 755 750 755 750 755	Pump Stop Time utes of Pumping Water Removed id Well Go Dry's Water Quality Pump Rate (Umin.) 150 150 on criteria for each IS/SAMPLING I Color I Outer NATION SGS U.P.S	1045 80 3-2 cyc y N Meter Type(s)// Galione Removed 0.59 0.79 1.18 1.38 1.38 1.78 1.98 ch field paramet	Serial Numbers: Water Level (RTC) 5,88 5,88 5,88 5,88 5,88 6,88 6,88 6,88 6,88 6,88	Temp. (Colorum) [3%]* 8.80 8.45 8.66 8.76 8.76 8.87 Connect Minym water	Peristatic Puri Pump Type: Samples colle 3 03 (pH j0.1 units!* 7.75 7.90 7.97 7.98 7.99 7.98 7.99	Seo F Cted by same me 1461 A Sp. Cond. (mS/cm) [3%]* 0,415 0,415 0,417 0,421 0,421 0,423 5-minute interval 155 150 150 150 150 150 150 15	Turbidity [10% or 1 NTUP 23 12 12 12 12 13 13	17 (T) N (special N) (Special	ORP (mV) [10 mV] -179.1 -188.7 -193.0 -182.9 -154.3 -155.9

Well No. 90A			••	e/GMA Name ing Personnel Date Weather	GMA 3 RAB S114/08 Sunny the 50s It Bre				
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]
020	150	2.18	5.88	8.95	7.96	0.424	10	3.66-	
225	150	2.37	5.88	8.86	7.99	0,428	10	3.62	157.
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							ls) is listed in each		

Well No.				Ô			-GEPH		
Key No.					pling Personne	1 KIC			
	:kground (ppm	,			Date	-	4/08		
Well He	adspace (ppm)	······································		Weathe	50's	sonny	(parly)
WELL INFOR	MATION						Sample Time	1030	6
	e Point Marked	7 (P) N		_		f	Sample II		9B
Height of	Reference Poir	ta.5'	Meas. From	6200			Duplicate II		
	Well Diamete			GLUE			MS/MSE)	
	en Interval Dept				يو_		Split Sample II)	
Wi	ater Table Dept Well Dept		Meas. From Meas. From			Required	Anaketins	d Parameters;	Collected
Length o		₩ 5.99°		·	***	(X)		s (Skd. list)	(X)
Volume	of Water in We	0.989	allon	_		(3		(Exp. list)	()
intake Depth	of Pump/Tubing	10"	Mees. From	TIC		()	s	VOCs	()
						()		is (Total)	()
TIC: Top of hir	nt Identification:					()		(Dissolved)	()
TOC: Top of O	• •	•				()		rganics (Total) anics (Dissolved)	()
Grade/BGS: G	•					()	-	ide (Dissolved)	()
						()	•	ide (Dissolved)	()
Redevelop?	Y (N)	•				()		Ds/PCDFs	()
	•					()		Attenuation	()
						(X)		Attenuation (Specify)	(X)
Minus Volume of W	ump Stop Time tes of Pumping Vater Removed d Well Go Dry?	100 4.09ml	- [[ons		Evacuation Me Peristattic Pun Pump Type: Samples colle	np (X) su	bmersible Pump (pecify ()
Minu Volume of W Dk	tes of Pumping Vater Removed d Well Go Dry?	1105 100 4.09ml	_	Y51-53	Peristaltic Pun Pump Type:	ted by same me	thod as evacuation) Other/S	cify)
Minu Volume of W Dk	tes of Pumping Vater Removed d Well Go Dry?	1105 100 4.0 gml	_	YS/-SS Temp. (Ceisius)	Peristattic Pun Pump Type: Samples colle	ted by same me	thod as evacuation	Other/S	cify)
Minur Volume of W	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (Limin.)	// 05 / 00 91 / Y (N) Acter Type(s) / S	Porial Numbers:	Temp.	Peristatic Pun Pump Type: Samples colle	the Charles Sp. Cond.	bmersible Pump (COM) 2 thod as evacuatio C/OOP 7 Turbidity (NTU)	Other/S	ORP (mV)
Minu Volume of W	tes of Pumping Vater Removed d Well Go Dry? Water Quality M Pump Rate	1105 100 4.0 qual Y No feter Type(s)/S	Perial Numbers: Water Level	Temp. (Celsius)	Peristatic Pun Pump Type: Samples colle 6 M PJ	Sp. Cond.	thod as evacuation Turbidity (NTU) [10% or 1 NTU]	Other/S n? ② N (spe 「ルータ」:ルンコ DO (mg/l)	ORP (mV)
Minur Volume of W Dk	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50	4-0 gm/ 4-0 gm/ Y No Meter Type(s)/S Total Gallone Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M P J pH [0.1 units]*	Sp. Cond. (mS/cm)	thod as evacuation Turbidity (NTU) 18	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]*
Minur Volume of W Dis	tes of Pumping /ater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.)	4.0 gm/ Y No state Type(s)/S Total Gallone Removed	Water Level (ft TIC)	Temp. (Ceisius) [3%]*	Peristatic Pun Pump Type: Samples colle 6 M P J pH [0.1 units]*	Sp. Cond. (mS/cm)	thod as evacuation Turbidity (NTU) [10% or 1 NTU]	Other/S n? ② N (spe 「ルータ」:ルンコ DO (mg/l)	ORP (mV)
Minur Volume of W Dis Time 0927- 0930 0935	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50	4.0 gm/ 4.0 gm/ Y No leter Type(s)/S Total Gallone Removed O.08	Water Level (RTIC) 7,03 7,03	Temp. (Celsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M PJ pH [0.1 units]*	Sp. Cond. (ms/cm) [3%]	thod as evacuation Turbidity (NTU) 18	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) 10 mV) - [10 mV]
Minur Volume of W Dk Time 0927- 0930 0935	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (Limin.) / 50 / 50	4.0 gm/Y Y Actor Type(s)/S Total Gallons Removed O.08 O.20 O.40 O.66	Water Level (ft TIC) 7.03 7.03 6.99	Temp. (Codsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M P J pH (0.1 units)* 6.58 6.65	Sp. Cond. (mS/cm) [3%]* O.290 O.289	thod as evacuation Turbidity (NTU) 18	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Minur Volume of W Dis Time 0927- 0930 0935	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (Limin.) / 50 / 50 / 50 / 50	1105 100 4.0 gm/ Y No feter Type(s)/S Total Gallons Removed 0.08 0.20 0.40 0.66	Water Level (ft TIC) 7,03 7,03 7,05 6,99 6,99	Temp. (Ceisius) [3%]*	Peristatic Pun Pump Type: Samples colle 6 M P J pH (0.1 units)* 6.58 6.65 6.65	Sp. Cond. (mS/cm) [3%]* O.290 O.299	thod as evacuation Turbidity (NTU) 18	DO (mg/l) [10% or 0.1 mg/l] 3, 28 2, 6/1 1, 57	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8
Minur Volume of W Dic Volume o	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50 / 50 / 50 / 50 / 50	1105 100 4.0 gm Y No Neter Type(s)/S Total Gallone Removed 0.08 0.20 0.40 0.66 0.86 1.06	Water Level (ft TIC) 7.03 7.03 7.05 6.99 6.99	Temp. (Colsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M P J pH (0.1 units)* 6.58 6.65 6.68	Sp. Cond. (ms/cm) [3%]* 0.290 0.290 0.284	thod as evacuation 2/00 P 7 Turbidity (NTU) 10% or 1 NTU! 47 18 11	DO (mg/l) [10% or 0.1 mg/l] [1.57]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8
Minur Volume of W Die Volume o	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50 / 50 / 50 / 50 / 50	1105 100 4.0 gm/ Y No fester Type(s)/S Total Gallons Removed 0.08 0.20 0.40 0.66 0.86 1.06 1.26	Water Level (ft TIC) 7,03 7,03 7,05 6,99 6,99	Temp. (Codsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M P J pH (0.1 units)* 6.58 6.65 6.65	Sp. Cond. (mS/cm) [3%]* O.290 O.299	bmersible Pump (COMP 2) thod as evacuation 2/00 P 7 Turbidity (NTU) (10% or 1 NTU) P 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1	DO (mg/l) [10% or 0.1 mg/l] — 3, 28 2, 61 1, 57 1, 28 1, 18	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8
Minur Volume of W Dic Volume o	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50 / 50 / 50 / 50 / 50	1105 100 4.0 gm Y No Neter Type(s)/S Total Gallone Removed 0.08 0.20 0.40 0.66 0.86 1.06	Water Level (ft TIC) 7.03 7.03 7.05 6.99 6.99	Temp. (Colsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 M P J pH (0.1 units)* 6.58 6.65 6.68	Sp. Cond. (ms/cm) [3%]* 0.290 0.290 0.284	thod as evacuation 2/00 P 7 Turbidity (NTU) 10% or 1 NTU! 47 18 11	DO (mg/l) [10% or 0.1 mg/l] [1.57]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8
Minur Volume of W Did	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (L/min.) / 50 / 50 / 50 / 50 / 50 / 50 / 50	1105 100 4.0 gm Y (10) Neter Type(e)/S Total Gallone Removed 0.08 0.20 0.40 0.66 0.86 1.06 1.26	Water Level (ft TIC) 7.03 7.05 6.99 6.99 6.97 6.99	Tomp. (Codsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH (0.1 units)* 6.58 6.65 6.65 6.65 6.65 6.65	(ms/cm) [3%]* 0.290 0.290 0.284 0.282 0.281	bmersible Pump (COMP 2) thod as evacuation 2/00 P 7 Turbidity (NTU) (10% or 1 NTU) P 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1 R 1	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8 - 13.2 - 14.6
Minur Volume of W Did Not the Stabilization BSERVATION	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (Umin.) / 50	1105 100 4.0 gm Y (10) Neter Type(e)/S Total Gallone Removed 0.08 0.20 0.40 0.66 0.86 1.06 1.26	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99	Tomp. (Codsius) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH (0.1 units)* 6.58 6.65 6.65 6.65 6.65 6.65	(ms/cm) [3%]* 0.290 0.290 0.284 0.282 0.281	thod as evacuation of the service of	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8 - 13.2 - 14.6
Minur Volume of W Did Not the Stabilization BSERVATION	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (Umin.) / 50	Acter Type(a)/S Fotal Galfone Removed O. OB O. ZO O. 40 O. 66 O. 86 I. OG I. Z G I. Y G Ch field paramete Control of the con	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99	Temp. (Coisius) [3%]" - (6.82 (6.89 7.26 7.13 7.36 7.14 tutve readings of	Peristatic Pun Pump Type: Samples colle 6 MPJ pH (0.1 units)* 6.58 6.65 6.65 6.65 6.65 6.65	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8 - 13.2 - 14.6
Minur Volume of W Did Not the Stabilization BSERVATION	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (Limin.) /50 /50 /50 /50 /50 /50 /50 /5	Acter Type(a)/S Fotal Galfone Removed O. OB O. ZO O. 40 O. 66 O. 86 I. OG I. Z G I. Y G Ch field paramete Control of the con	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Coisius) [3%]" - (6.82 (6.89 7.26 7.13 7.36 7.14 tutve readings of	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation of the service of	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* - 3.3 - 5.8 - 10.8 - 13.2 - 14.6
Minur Volume of W Dk	tes of Pumping fater Removed d Well Go Dry? Water Quality N Pump Rate (Limin.) /50 /50 /50 /50 /50 /50 /50 /5	Actor Type(s)/S Fotal Gallons Removed O. 20 O. 40 O. 66 O. 86 I. 06 I. 76	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Codatus) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* 3.3 - 5.8 - 10.8 - 13.2 - 14.6 - 16.7
Minur Volume of Windows Time 0927 0930 0935 0945 0955 1000 The stabilization SSERVATION COLLOCITY OULGAIN	tes of Pumping Vater Removed d Well Go Dry? Water Quality Marker	Actor Type(s)/S Fotal Gallons Removed O. 20 O. 40 O. 66 O. 86 I. 06 I. 76	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Codatus) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* 3.3 - 5.8 - 10.8 - 13.2 - 14.6 - 16.7
Minury Volume of Windows Time 0927 0930 0935 0945 0955 1000 The stabilization PERFERENTION AMPLE DESTRI	tes of Pumping Vater Removed d Well Go Dry? Water Quality N Pump Rate (Lirsin.) /50 /50 /50 /50 /50 /50 /50 Matter a for each sysamplung in Sysam	Actor Type(s)/S Fotal Gallons Removed O. 20 O. 40 O. 66 O. 86 I. 06 I. 76	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Codatus) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* 3.3 - 5.8 - 10.8 - 13.2 - 14.6 - 16.7
Minury Volume of Windows Time 0927 0930 0935 0945 0945 0955 1000 The stabilization PSERVATION OULD IN AMPLE DESTE	tes of Pumping Vater Removed d Well Go Dry? Water Quality Mater Quality Material for each S/SAMPLING Material for each S/SAMPLING Material for	Actor Type(s)/S Fotal Gallons Removed O. 20 O. 40 O. 66 O. 86 I. 06 I. 76	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Codatus) [3%]"	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	(ms/cm) [3%]* 0.290 0.290 0.289 0.282 0.282 0.791 5-minute interval	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* 3.3 - 5.8 - 10.8 - 13.2 - 14.6 - 16.7
Minur Volume of Work Discovery Control of the Stabilization BSERVATION COLLECTION COLLEC	tes of Pumping Vater Removed d Well Go Dry? Water Quality Mater Quality Material for each S/SAMPLING Material for each S/SAMPLING Material for	Actor Type(s)/S Fotal Gallons Removed O. 20 O. 40 O. 66 O. 86 I. 06 I. 76	Water Level (RTIC) 7,03 7,03 7,05 6,99 6,99 6,97 6,99 er (three consecutions	Temp. (Codsius) [3%]" (6.82 (6.89 7.26 7.13 7.36 7.447 utive readings of Collice Convence.	Peristatic Pun Pump Type: Samples colle 6 MPJ pH i0.1 units!* 6.58 6.65 6.65 6.66 lo.66 lo.69 lo.71 ollected at 3- to	10 (X) Su George	thod as evacuation as evacuati	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) - [10 mV]* 3.3 - 5.8 - 10.8 - 13.2 - 14.6 - 16.7

ime 05 0 5 20 24	Pump Rate (L/min.) /SO /SO /SO	Total Gallons Removed 1.65	Water Level (ft TIC)	Temp. (Celsius) [3%]*	ing Personnel Date Weather	\$/14/6 5/0'5 Sp. Cond. (mS/cm)	Sunny	. DO	
ime 05 0 5 20	Pump Rate (L/min.) /50 /50 /50	Total Gallons Removed	Level (ft TIC)	(Celsius) [3%]*		Sp. Cond.	<i>d</i>	DO	T
05 5 20 21	Rate (L/min.) /50 /50	Gallons Removed	Level (ft TIC)	(Celsius) [3%]*		1	Turbidity	DO	T
0 5 20 21	150 150 150	1.65			I (O d combined		(NTU)	(mg/l)	ORP (mV)
0 5 20 21	150 150		- A - 1 - 1	7137	[0.1 units]*	0.281	[10% or 1 NTU]*	[10% or 0.1 mg/j]*	[10 mV
5 20 21	150	 	699	7,46	6,82		2	0,96	- 17
30 31		2.05	10.99	7,33	10.91	0,281	2	0.92	-18,
31	150	2.17	6.99	7.43	6.95	0.280	1	0.91	-18,
	150	2.29	6,99	7,62	7,04	0.279	1	0.90	-88
	150	2.41	6,99	7,48	FOF	0.279	2	0.85	-89,
27	150	2.53	6.99	7,42	7,10	0,239	2	0.85	-10
30		A.	T	Gesta	016				10
O	150	2.64		7,37	ŦIII	The same of the sa	1	0.85	-113
33		1			7,15		2		- 116
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ahilizatio	n criteria for ea	ch field paramet	ar (then conce	with a readings o	ollopted at 2, to	E minuta interval	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
				auve readings C	onduled at 3- to	unute interval	s) is listed in each	column neading,	
	3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 /50 3(a	3 /50 Z-76 3(o	50 /50 z.69 6,99 53 /50 z.76 6,99 53 /50 z.76 6,99	School S	School S	Sample Page Page	Sample Colored Sample Sample	Sem Led 6/93 0 /50 z.64 6,99 7:37 7:11 0.380 1 0.85 3 /50 z.76 6,99 7:42 7:15 0.799 Z 0.84 Som Piec C. 1036 Som Piec C. 1036 bilization criteria for each field parameter (three consecutive readings collected at 3- to 5-mirute intervals) is listed in each column heading.

Well !		A			SNe/GMA Nan	100 <u>GM</u>	<u> </u>		
Kay I		\ <u>-3+</u>		Sm	mpling Personn	of KLC	1,RAB		
	ackground (p				· Da	<u> </u>	4/08		
Well	Headepace (p) (mc		•	Weath	- Digny	w Bree	zy 705	
WELL INFO	RMATION						Sample Tin	1721	
Refero	nce Point Mark	ed? Y N				r	Sample		
Height	of Reference P	oint 1.5 "	Meas. Fro	m Grown	nd		Duplicate I		
	Well Diam	oter 1.00	11	0			MS/MS	***************************************	
Scr	oen interval De	pth <u>45-5</u>	O Mone. Fro	m			Sp#t Sample I	D	
١	Water Table De		Mees. Fro	m_770					
	Well Da	The second secon	2 Meas, Fro	m _7/C		Required	Analytic	al Parameters:	Collected
_	ad Water Colu					(X)	VOC	Ca (Ski, list)	(X)
	te of Water in V		galloni	1		()	, Aoc	a (Exp. list)	()
intaka Depi	th of Pump/Tub	ing 7 - 1 /	Mess, Fro	m Ground		(X)		SVOCa	(X)
Seferance Or	oint Identificatio	۵۰				()		Bs (Total)	()
	nner (PVC) Car					()		(Dissolved)	()
•	Outer (Protect	•				()		organics (Total) enics (Dissolved)	()
-	Ground Surfac	•				()	-	erics (Dissolved) ide (Dissolved)	()
						()		ide (Dissolved)	()
Redevelop?	Y (N)	•				()		Ds/PCDFs	()
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						(X)		Attenuation	(X)
						()	Othe	r (Specify)	(\mathcal{A})
	I INFORMATIC	15(1/)							
	Pump Start Tim							Shot	
	Pump Stop Tim			4	Evacuation Me	ethod; Bailer () Bladder	Pump-(X)	
	utes of Pumpin	·	77		Peristaltic Pun	1	ibmeraible Pump	() Other/Sp	pecify ()
	Water Remove lid Well Go Dry		"Oha		Pump Type:	Geogamo	2		
L.	NO WELGO UTV					T			
	• • • • • • • • • • • • • • • • • • • •	? Y (Y)			Samples colle	cted by same me	ethod as evacuatio	n'i 🕜 N (spec	cify)
	• ;	? Y (N) Meter Type(s) / \$	Serial Numbers:	<u>4st#3</u>		cted by same me 461 AI		ni PN (spec	•
Time	• ;	Meter Type(s) / 5	Water	Temp.		46/ AZ	Hoch To	whi dinter	2100 P
	Water Quality Pump	Meter Type(s) / :	· -		рн рн	Sp. Cond.	Hoch To	DO (mg/l)	2100 P
	Water Quality Pump Rate (L/min.)	Meter Type(s) / S Total Gallone Removed	Water Level	Temp. (Celsius)	0301	46/ AZ	Hoch To	whi dinter	2100 P
	Water Quality Pump Rate	Total Gailone Removed	Water Level	Temp. (Celsius)	рн рн	Sp. Cond.	Hoch To	DO (mg/l) [10% or 0.1 mg/l]	2100 P
	Pump Rate (L/min.) 150	Total Gallone Removed O.40 O.60	Water Level	Terrip. (Celaius) [3%]* 13,47	рн рн	\$p. Cond. (mS/cm) [3%]*	Hoch To	DO (mg/l)	2100 P
	Pump Rate (L/min.) 150 150	Total Gailone Removed 0.40 0.60	Water Level	Temp. (Coloius) [3%]* 13.47 13.47	03C/ pH [0.1 units]* 8.41 8.29	461 AI Sp. Cond. (mS/cm) (3%)* 0,257 0,239	Hoch To	DO (mg/l) [10% or 0.1 mg/l]	2100 P
	Pump Rate (L/min.) 150 150 150	Total Gallone Removed O.40 O.60	Water Level	Temp. (Calaius) [3%]* 13,47 [13,47 [13,19 [12,84	рн рн	\$p. Cond. (mS/cm) [3%]* 0.252 0.237	Hoch To Turbidity (NTU) [10% or 1 NTUP HO 33	DO (mg/l) [10% or 0.1 mg/l]	2100 P ORP (mV) [10 mV]*
	Pump Rate (L/min.) 150 150	Total Gailone Removed 0.40 0.60	Water Level	Temp. (Coloius) [3%]* 13.47 13.47	03C/ pH [0.1 units]* 8.41 8.29	461 AI Sp. Cond. (mS/cm) (3%)* 0,257 0,239	Hoch To Turbidity (NTU) [10% or 1 NTUP HO 33	DO (mg/l) [10% or 0.1 mg/l]	2100 P ORP (mV) [10 mV]*
	Pump Rate (L/min.) 150 150 150	Total Gallone Removed 0.40 0.60 0.93	Water Level	Temp. (Calaius) [3%]* 13,47 [13,47 [13,19 [12,84	03C/ pH [0.1 units]* 8.41 8.29	\$p. Cond. (mS/cm) [3%]* 0.252 0.237	Hoch To Turbidity (NTU) (10% or 1 NTUP 40 33 32 29	DO (mg/l) [10% or 0.1 mg/l]	2100 P ORP (mV) [10 mV]*
	Pump Rate (L/min.) 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12	Water Lovel (RTIC) 9:63 12.86 13.44 13.35 13.55	Temp. (Calaius) [3%]* 13,47 [13,47 [13,19 [12,84	03C/ pH [0.1 units]* 8.41 8.29	\$5. Cond. (ms/em) [3%]* 0,257 0,237 0,236 0,251	Hoch To Turbidity (NTU) (10% or 1 NTUP 40 33 32 29	DO (mg/l) [10% or 0.1 mg/l]	2100 P ORP (mV) [10 mV]* -21,2 -212,4 -210,4 -170,0 -166,5
	Pump Rate (L/min.) 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1.52	Water Level	Temp. (Calaius) [3%]* 13,47 [13,47 [13,19 [12,84	03C) pH [0.1 units]* 8.41 8.29 8.16 8.00 7.74 7.72	46/ AI Sp. Cond. (mStem) [3%]* 0,257 0,237 0,236	Hoch To Turbidity (NTU) (10% or 1 NTUP 40 33 32 29	DO (mg/l) [10% or 0.1 mg/l]	2100 P ORP (mV) [10 mV]* -221,2 -212,4 -210,4 -170,0 =166,5 -111.6
1550 1555 1600 1605 1610 1615 1625	Pump Rate (L/noin.) 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1.72	12.86 13.44 13.55 13.68	Temp. (Colorum) [3%]* 13,47 13,19 12.84 12.98 12.98 12.94 12.94	03C) pH [0.1 units]* 8.41 8.29 8.16 8.00 7.74 7.72 7.67	961 AI Sp. Cond. (Inslem) [3%]* 0.25Z 0.237 0.237 0.236 0.251 0.259 0.263	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77	3,93 2,64 1,95 1,34 1,23 1,22	2100 P ORP (mV) [10 mV]* -21,2 -212,4 -210,4 -170,0 -166,5
Time 1550 1555 1600 1605 1615 1615 1625 The stabilization	Pump Rate (L/min.) 15 0 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1.12 1.32 1.52 1.72 ch field parameter	Water Level (ft TIC) 9 £63 12.86 13.44 13.55 13.55 13.68	Temp. (Cotatus) [3%]* 13,47 13,19 12,84 12,98 12,97 12,94 utive readings or	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67	\$5. Cond. (Ins/cm) [3%]* 0,257 0,237 0,236 0,251 0,251 0,259 0,263 i-minute interval	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.34 1.23 1.22	2100 P ORP (mV) [10 mV]* -221.2 -212.4 -210.4 -170.0 -166.5 -111.6 -119.6
Time 1550 1555 1600 1605 1610 1615 1625 The stabilization	Pump Rate (L/min.) 15 0 15 0 15 0 15 0 15 0 15 0 15 0	Total Gallone Removed O.40 O.60 O.93 I-12 I-32 I-52 I-72 ch field parameter METHOD DEVIA	Water Level (ft TIC) 9 (63) 12.86 13.44 13.55 13.55 13.68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,87 12,94 12,94 uther readings of YST	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed as 3- to 6 Houled of 1	46/ AI Sp. Cond. (mStern) [3%]* 0,257 0,237 0,236 0,251 0,259 0,263	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1610 1625 The stabilization 1806	Pump Rate (L/min.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.34 1.23 1.22	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1610 1615 1625 The stabilization	Pump Rate (L/min.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 (63) 12.86 13.44 13.55 13.55 13.68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1610 1625 The stabilization 1806	Pump Rate (L/min.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1605 1615 1625 The stabilization Disconn	Pump Rate (Unsin.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1605 1616 1625 The stabilization 1625 The stabilization 1626 Disconn	Pump Rate (Unsin.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1605 1616 1625 The stabilization 1625 The stabilization 1626 Disconn	Pump Rate (Unsin.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12,84 12,98 12,94 12,94 12,94 12,94 12,94 12,94 12,94 12,94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	961 AI Sp. Cond. (mS/cm) [3%]* 0,257 0,239 0,237 0,236 0,251 0,259 0,263 minute interval (p) [5]	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1615 1616 1625 The stabilization 1625 The	Pump Rate (L/min.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12.84 12.98 12.87 12.94 12.94 12.94 12.94 12.94 12.94 12.94	94 10.1 units 1° 8.41 8.29 8.16 8.00 7.74 7.72 7.67 10 total at 3- to 6 11 total at 3- to 6 11 total at 3- to 6 12 total at 3- to 6 13 total at 3- to 6 14 total at 3- to 6 14 total at 3- to 6 15 total at 3- to 6 16 total at 3- to 6 16 total at 3- to 6 17 total at 3- to 6 18 total at 3- to 6 19 total at 3- to 6 19 total at 3- to 6 10 total at	46/ AI Sp. Cond. (mS/cm) [3%]* 0,257 0,237 0,236 0,251 0,259 0,263 i-minute interval 40 (9 15) cell shi dity	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi
Time 1550 1555 1600 1605 1605 1616 1625 The stabilization 1625 The stabilization 1626 Disconn	Pump Rate (L/min.) 150 150 150 150 150 150 150 150 150 150	Total Gallone Removed 0.40 0.60 0.93 1-12 1-32 1-72 chi field paramete METHOD DEVIA	Water Level (ft TIC) 9 10-3 12-86 13-44 13-55 13-55 13-68 er (three consecutions	Temp. (Coletum) [3%]* 13,47 13,19 12.84 12.98 12.87 12.94 12.94 12.94 12.94 12.94 12.94 12.94	9.41 8.41 8.29 8.16 8.00 7.74 7.72 7.67 Observed at 3- to 6 Hanke of 6 Historian	46/ AI Sp. Cond. (mS/cm) [3%]* 0,257 0,237 0,236 0,251 0,259 0,263 i-minute interval 40 (9 15) cell shi dity	Hoch To Turbidity (NTU) 110% or 1 NTUP 40 33 32 29 26 50 67 77 3) is listed in each	1.95 1.23 1.22 Documents of the second of t	2100 P ORP (mV) [10 mV] -221,2 -212,4 -210,4 -170,0 -166,5 -111.6 -119.6 If upfloxi

Well No. 95A	Site/GMA Name	GHA 3
	Sampling Personnel	KLC IRAB
•	Date	5/14/08
	Weather	Partly Summy mid 705
		<i>P</i> ,

Time	1	imp ate	Total Gallons	Water Level	Temp. (Celsius)	рН	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
7.7110	1	min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*		[10% or 0.1 mg/l]*	[10 mV]*
1630	15	0	1.92	13.88				57	سر	~
1633			204		_	~	_	48		
1636			2.16					39		
1640		···	2.32	14.09	13.23	7.54	0.279	34	3.80	-132.5
1645		2	2.52	14.15	12.55	7.60	0.280	25	2.82	-146.6
1650	15	0	2.72	14.22	12.79	7.64	0.278	25	1.75	-134.8
1655			2.91	14.30	12.64	7.65	0.278	23	1.27	-141.8
1700			3.11	14.33	12.59	7.64	0.279	24	1018	-137.2
1703			3-23	14.37	12.40	7.64	0.279	22	1.12	-144.2
1706			3.35		12.35	7.64	0.280	19	1011	-149.8
1709			3,47	14.39	12.29	7.63	0,280	21	1.09	-145.6
1712			3.59	14.41	12.27	7.63	0.280	16	1.04	-140,2
1715			3.70	14,44	12.13	7.63	0.280	19	1.03	-146.9
1718			3.82	14.45	12.23	7.63	0.280	19	1.02	-14/01
1721			3.94	14.45	12.30	7.63	0.280	20	1.01	-139.4
	L									
			Sango	hd G	172					
			/							
	<u></u>									

* The stabilization criteria for each field parameter (three cons	secutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	secutive readings collected at 3- to 5-minute intervals) is listed in each column heading. Reconnected to YST 3/636

Well I	la 956	3-R			SHe/GMA Nem	· GEP	i Hsfield	16MA-3	·
Key N				San	npling Personn	H GAR			
	ackground (ppr				Dat	5/8/0		7.40	
Well !	leadspace (ppr	n) <u>U</u>		,	Weathe	* Mostly	cloudy,	7005	
WELL INFO	RMATION						Sample Tim	15:20	
•	nce Point Merke	d? (Ŷ) N	,	^		1	Sample I		
Height	of Reference Po	m + 2.0	Meas. From	m Ground	L		Duplicate I		
	Well Diamet			A .	1			o Collectes	Here
	een interval Dep			m Ground	<u>ال</u>		Sp## Sample ii	o <u> </u>	
,	Water Table Dep Well Dep		Moss, From	m Tlu		Required	Analytic	al Parameters:	Collected
Lengti	of Water Colum	m 7.76'				(X)		is (Std. list)	(X)
	e of Water in W		llon 1	.		(3	, Aoc	s (Exp. list)	()
intake Dep	th of Pump/Tubin	9.7	Moss, From	n <u>716</u>	-	(X)		SVOCs	(X)
5.f	- i- 4 1 d a w 1980 10 a -	_				()		Sa (Total)	(')
	oint Identification nner (PVC) Casi					()		(Dissolved) organics (Total)	()
•	Outer (Protective	-				()		anics (Dissolved)	()
•	Ground Surface					()	EPA Cya	ide (Dissolved)	()
						()		nide (Dissolved)	()
Redevelop?	Y	•				()		Da/PCDFs	()
						()		es/Herbicides Attenuation	().
						$\langle \mathcal{X} \rangle$		r (Specify)	(7)
	NINFORMATIO					, ,			, ,
	Pump Start Time								
	Pump Stop Time	22		•	Evacuation Me		•	Pump ()	
	utes of Pumping Water Removed		Unas		Peristattic Pun	` à \' —	Ibmersible Pump	() Other/Sp	ecity ()
	id Well Go Dry?		E110-12		Pump Type: Samples colle	Ged Pu	sthod as evacuation	n? (Y) N (spec	₩)
	* - Water Quality I	Weter Type(s) / :	Serial Numbers:	151-53	T6MPs	H.	uh 21000	Turkid,	mutur
	Pump	Total	Water	Temp.	pH	Sp. Cond.	Turbidity	00	ORP
Time	Rate	Gallone	Lavei	(Colsius)	M	(inS/cm)	(NTU)	(mg/l)	(mV)
-	(L/min.)	Removed	(R TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/f]*	[10 mV]*
14:15	100ml	0.13	5.79'				30		_
14:20	100ml	0.26	5.79'	_	-	_	26	_	~
14:30	100ml	0.53	5.79	10.18	7.0Z	1.156	10	4.30	-57.6
14:35	100m1		5.791	9.93	7.03	1.155	8	1.51	-59.4
		0.79	5.79'	9.93	7.06	1.155	7	1.28	-61.5
	100ml		5.79	10.10	7.06	1.156	7	1.06	-64-2
14:50		1.06	5.79	9.91	7.08	1.154	8	0.90	-63.2
14:55		7.19	5.79	9.89		1.152	6	0.76	-57.9
	ST CHEETH YOF SHIC IS/SAMPLING N	•	-	nnas tendudas c	20 119C1B CI 2K 3~ 00 :	O-MARIUMS REMINEVAL	s) is listed in each	сошии пенсия.	
	_				1/	ils aday	less	·	
المناع	Pary . C	Jean .	religionela	majorna	ed 30/				
	-7		e way to						
,		***************************************		***************************************					
AMPLE DEST	INATION								
Laboratory:	563								
Delivered Vis:							Lugg	1/1	
Airbill #:				1	Clair Dame San	Consideration .	<i></i>		
				. '	Lines Samband				

Well No. 95B-R	Site/GMA Name	GE Pittsfield /GMA-3
	Sampling Personnel	GAR
	Date	5/8/08
	Weather	Mostly cloudy, 70°F

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	100ml	1.32	5.79	9.78	7.08	1.151	8	0.62	-58.3
15:05	100ml	1.45	5.79	9.79	7.09	1.150	8	0.57	-54.6
15:10	100 ml	1.59	5.79	9.77	7.08	1.149	8	0.5Z	-55.5
15:15	100ml	1.72	5.79	9.70	7.08	1.148	7	0.48	-53.8
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* 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

Registrone Point Methods	Well	Na. 111A	<i>-R</i>			SHe/GMA Nas	m GE F	Pitts field,	GMA-3	
West Headspace (ppm) O West Proceedings 16:30 Sample Time 16:30 Sample Tim	•				Sau	npling Personn	W GAR!	RAB		
WELL BIFORMATION Reference Print Marked?						Da				
Reference Point Methods (2 PM) Holght of Reference Point (2 2 PM) Holght of Reference Point (2 2 PM) Holght of Reference Point (2 2 PM) Water Table Depth (2 2 PM) Length of Water Casen (3 8 PM) Initiate Depth of Pump/Tubing (7 3 PM) Initiate Depth of Pump/Tubing (7 PM) Initiate Depth of	4400	measepace (pp	m)			Weath	- 170st/	v sunny,	700F	
Reference Point Methods (27 No. 1) Height of Reference Point (27 No. 1) Well Dismost (27 No. 1	WELL INFO	RMATION						Samola Tiv	- 16:30	
Height of Reviewora Point 2 - 20			xd? Ø N				ı	Sample	0 111A-R	······································
Screen inserved Dopth 4/0 - 5D Meas. From \$760 Un) Wester Table Dopth 4/2 - 32 Meas. From \$760 Meas. From \$760	Height	of Reference Po	m # 2-30	Meas. From	n Ground	-				
Water Table Depth 13.2.7 Meas. From T/L Well Depth 22.10/ Length of Water Cause 3.9.37 Volume of Water In West 5.2.7 Meas. From T/L Length of Water Cause 3.9.37 Volume of Water In West 5.10 Redefines Point Identification: TIC: Top of Innex (PVC) Casing TIC: Top of Innex (PVC) Casing Credefines Ground Surface () PCBs (Total) Measistric Principanics (Total) () PCBs (Total) PCBs (Total) () PCBs (Total) PCBs (Total) () PCBs (Total) PCBs (Total) () PCBs (To					^			MSMS	0	
Well Capits \$210						<u>, </u>		Sp#t Sample i	P	·
Langth of Water Column 3 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					TIL		Required	Annhetic	al Parameters	Collected
Volume of Wester in West Series S				<i>,</i>			(X)			
Bestermose Point Identification:							() 3	, , , , voc	a (Exp. list)	()
Bathmane Point Identification: PCBs (Dissolved)	Intake Dep	th of Pump/Tubi	ng 7 1+3	Meas. From	Tu		()			()
Meable/Inorganics (Total) Meable/Inorganics (Total)	Reference P	oint Identification	1:				()		•	()
Toc: Top of Outer (Protective) Cashing ()							()		•	()
PAC Cyanida (Discolved) Participation (X) Distoration (X) Dist	•	=	•				()		• , ,	()
PCDDs/PCDFs	Grade/BGS:	Ground Surface					()	EPA Cym	nide (Dissolved)	()
Prosticides Francisco	Redmelon?	v @1					()	•		()
EVACUATION INFORMATION Pump Start Time	(Court vericip)	' (6)	•				()			()
EVACUATION INFORMATION Pump Start Time 15:05 Pump Stort Time 16:45 Minutes of Pumping 100 Volume of Water Removed 1.0 go. 110 ns Water Quality Meter Type(s) / Serial Numbers: Water Quality Meter Type(s) / Serial Numbers: Water Quality Meter Type(s) / Serial Numbers: Pump Total Pump Total (Girls) Rate Gallone Level (Celetus) (RTIC) [3%]* [3.1 unles]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/f]* [10							(x ')			
Pump Start Time							()	Othe	r (Specify)	()
Time Rate (Linin) Galione Level (Calaius) (10 units) (mS/cm) (NTU) (mg/l) (mV) /5:/0 /00 ml 0.13 /3.93 — — — — — — — — — — — — — — — — — — —							1		op gurbid	
Climin Removed (RTIC) [3%] [0.1 units] [3%] [10% or 1 NTUP [10% or 0.1 mg/l] [10 m/l] [15:10 10ml] 0.13 13.93	Time	-			•			1	1	
15.20 100 ml 0.40 15.24 11.93 7.76 0.703 9 2.66 -87.7 15.25 150 ml 0.60 15.65 11.66 7.87 0.705 12 1.41 -81.3 15.30 150 ml 0.80 16.17 11.38 7.97 0.706 12 1.92 -54.0 15.35 150 ml 0.99 16.52 11.34 8.10 0.707 7 2.16 -33.0 15.40 150 ml 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15.45 150 ml 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15.50 150 ml 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. **RESERVATIONS/SAMPLING METHOD DEVIATIONS** **Zn.f.in Purge: Clear, odorless **Vuter level is dropping but pump shuts off at below 150 ml/min **Notional Purge: Clear, odorless **Vuter level is dropping but pump shuts off at below 150 ml/min		(L/min.)	Removed	(n Tic)	[3%]-	[0.1 units]*	[3%]*	[10% or 1 NTUP	[10% or 0.1 mg/ff*	
15:25 Bom! 0-60 15:65 11.66 7.87 0.705 12 1.41 -81.3 15:30 150ml 0.80 16.17 11.38 7.97 0.706 12 1.92 -54.0 15:35 150ml 0.99 16.52 11.34 8.10 0.707 7 2.16 -33.0 15:40 15:0ml 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15:45 150ml 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15:50 158ml 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. 183ERVATIONS/SAMPLING METHOD DEVIATIONS 2n.f. in Purge: Clear, odorless Vuter /evel is dropping but pump shuts off at below 150ml/min Nuter /evel is dropping but pump shuts off at below 150ml/min	15:10	100ml	0.13	13.93	-			سحر		
15.25 150ml 0.60 15.65 11.66 7.87 0.705 12 1.41 -81.3 15.30 150ml 0.80 16.17 11.38 7.97 0.706 12 1.92 -54.0 15.35 150ml 0.99 16.52 11.34 8.10 0.707 7 2.16 -33.0 15.40 150ml 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15.45 150ml 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15.50 158ml 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. 1835ERVATIONS/SAMPLING METHOD DEVIATIONS 27.14 Purge: Clear, adorless 27.15 1 Purge: Clear, adorless 284 1 Purge: Clear, adorless 285 2 Purge: Clear, adorless 286 3 Purge: All PS	15.20	100 ml	0.40	15.24	11.93	7.76	0.703	9	2.66	-822
15:30 150ml 0.80 16.17 11.38 7.97 0.706 12 1.92 -540 15:35 150ml 0.99 16.52 11.34 8.10 0.707 7 2.16 -33.0 15:40 150ml 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15:40 150ml 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15:50 150ml 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. 1835ERVATIONS/SAMPLING METHOD DEVIATIONS 20.51 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15:25	Moni	0-60	15.65						
15:35 150M1 0.99 16.52 11.34 8.10 0.707 7 2.16 -33.0 15:40 150M1 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15:40 150M1 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15:50 158M1 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. WESERVATIONS/SAMPLING METHOD DEVIATIONS In: f; in Purge: Clear, adorless Vuter level is dropping but pump shuts off at below 150m1/min AMPLE DESTINATION Laboratory: 563 Defined Vis: UPS		1								
15:40 150ml 1.19 16.91 11.36 8.19 0.706 5 2.52 -20.9 15:40 150ml 1.39 17.16 11.35 8.28 0.709 3 2.85 -14.0 15:50 158ml 1.59 17.37 11.51 8.30 0.710 4 2.76 -6.5 The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. ISSERVATIONS/SAMPLING METHOD DEVIATIONS In: find Purge: Clear, adarles Evinal Purge: Clear, adarles Vuter level is drapping but pump shuts off at balow 150ml/min AMPLE DESTINATION Laboratory: 563 Defivered Vis: UPS		1		1		1				
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The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. ###################################							0-106		2.52	⁻ 20.9
The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. RESERVATIONS/SAMPLING METHOD DEVIATIONS Zn.f.iul Purge: Clear, odor/css Evinal Purge: Clear, odor/css Wuter level is dropping but pump shuts off at below isomical min AMPLE DESTINATION Laboratory: 563 Delivered Vis: UPS	~~~				11.35	8.28	0.709	3	2.85	-14.0
The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. ISSERVATIONS/SAMPLING METHOD DEVIATIONS In. find Purge: Clear, adorless Exical Purge: Clear, adorless Victor level is dropping but pump shuft off at below isomilymin AMPLE DESTINATION Laboratory: 563 Defivered Vis: UPS	15.50	150m7	1.59	17.37	11-51	8.30	0.710	4	2.76	-6.5
Initial Purge: Clear, adorless Final Purge: Clear, adorless Vuter level is drapping but pump shuts off at below 150ml/min AMPLE DESTINATION Laboratory: 563 Defined Vis: UPS	The stabilization	on criteria for eac	demanaq bieft rk	er (three consecut	tive readings o	ollected at 3- to	5-minute interval	s) is listed in each	column heading.	
Wind Purge: Clear, odorless Without level is dropping but pump shuts off at below 150 ml/min AMPLE DESTINATION Laboratory: 563 Desirered Vis: UPS										
AMPLE DESTINATION Laboratory: 563 Desired Vis: UPS	Zn. fjul	purje!	Cleny	رد ع ارماد						·
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	Laboratory; _	565								_
Airbil #: Fleid Sampling Coordinator:	-									•
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Well No /// A ~ R	Site/GMA Name GEP, Hs Field /6MA-3	
	Sampling Personnel GAR/BAB	
	Date 5/6/08	
	Weather Partly cloudy, 600F	

Time	Pump Rate (L/min.)	Total ['] Gallons Removed	Water Level (ft TIC)	Temp. (Ceisius) [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]*
15:55	150ml	1.79	17.53	11.42	8.31	0.715	3	2.56	-3.3
16:00	150ml	1.99	17.66	11.45	8.29	0-717	2	2:51	-14.7
16:05		2.18	17.85	11.55	8.28	0.719	3	2.25	-27.3
16:10	150ml	2.38	T	Į	8.27	0.720	2	2.36	-18.5
16:15	150ml	2.58	18.1D	11.51	8.27	0.720	Z	2.24	-13.Z
16:20	150ml	Z.78	18.15	11.54	8.25	0.721	2	2.10	-13.1
	150ml		18.33	11.47	8.72	0-723	Z	2.06	-/1.3
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dings collected at 3- to 5-minute intervals) is listed in each column heading.	* The stabilization criteria for each field parameter (three consec
	OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Well N	. 111	K ~ V				21	113 5			
Key N		122			SHO/GMA Nam		CIDAR			
		J.T.	······································	3	npling Personn	£77	CHAN			
	ackground (pp	-			Dat		400	700 11	Breene	
*****	leadepace (pp	m)			VV CONTINU	- Sum	9	605 17	Buy	
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Height o	of Reference Po	377	Mess. Fro	m <u>groun</u>	<u>o</u>		Duplicate i	D		
	Well Diame			U			MS/MS	0		
Scn	een Interval De	pth 7.18-11	18 Mees. From	m	·		Sp#t Sample I	D		
٧	Vator Table Dep		O Meas. From	m. TIC						
	Well Dep	oth 19.5	4 Mass, From	m 11C		Required	Analytic	al Parameters:	Collected	
Length	of Winter Colur		4			(X)	VOC	Ca (Stri. inst)	(سلر)	
Volum	e of Water in W	W - 0 - 15	40.867	100	Λ	(3	, Aoc	a (Exp. list)	()	
taka Depti	h of Pump/Tubi	ng <u>#4.5</u>	40.867 m	n <i>Moun</i>	N	()	:	SVOC#	()	
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erence Po	int Identification	ı:	(Surger			()		(Dissolved)	()	
Top of k	nner (PVC) Cas	ing	_ Mass. From [based or		depru)	()		organics (Total)	()	
•	Outer (Protectly				,	()		panics (Dissolved)	()	
•	Ground Surface	. •				()	-	nide (Dissolved)	()	
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evelop?	Y (N)					()	-	Ds/PCDFs	()	
						, ,		os/PCUFS es/Herbicides	()	
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CHATION	INFORMATIO					()	Ume	r (Specify)	()	
Minu	Pump Stop Time utes of Pumping Nater Removed		Tons	•	Evacuation Me Peristatic Pure Pump Type:	np() Su	ibmersible Pump	Pump (K) () Other/Sp	ecify ()	
			Territoria de la companya della companya della companya de la companya della comp		t attip type.	10/Q 13 C	54K117-50	stem One		
D	id Well Go Dry?					cted by same me	ethod as evacuatio	in? (P) N (spec	±fv)	-
a	id Well Go Dry?		····	(1 H	Samples collec	cted by same me	ethod as evacuation	in? (P) N (spec	±fy)	-
D	•	Y (10)	Serial Numbers:	YSI#	Samples collect	cted by same me 461AZ	ethod as evacuatio	in? N (spec	ify)	- !m
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a	•	Y (10)	-		Samples collect	cted by same me 461AZ	ethod as evacuatio	in? N (spec	ify)	- (m]
- 14 mar 10 mar 1-	Water Quality	Y N	Serial Numbers:	****	Samples collect	ted by same me HGIAZ MPJ	ethod as evecuation. Here	in? ⑦ N (spec	- Turki	- (.m]
	Water Quality	Meter Type(s) / :	Serial Numbers: Water	Temp.	Samples collect	ted by same me HG I AZ M PJ Sp. Cond.	Turbidity (NTU)	107 (Spec	ORP (mV)	- (.m]
	Water Quality	Meter Type(s) / S Total Gailone	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HO I AZ MPJ Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- (.m
	Water Quality	Meter Type(s) / S Total Gailone	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HO A Z M PJ Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- (:m
	Water Quality	Meter Type(s) / S Total Gailone	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HO I AZ MPJ Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- (m
	Pump Rate (L/mis.)	Meter Type(s)/: Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- (.m
	Pump Rate (L/mis.)	Meter Type(s) /: Total Gailone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HO I AZ MPJ Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	lim
	Pump Rate (L/mis.)	Meter Type(s) /: Total Gailone Removed 0.13	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- (m
	Pump Rate (L/min.) 50 50 175 125	Meter Type(s)/: Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	- []
	Pump Rate (L/mis.)	Meter Type(s) /: Total Gailone Removed 0.13	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	lim
	Pump Rate (L/min.) 50 50 175 125 100	Y N Meter Type(s) / S Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV)	l.m
	Pump Rate (L/min.) 50 50 175 125 100 100	Y N Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect 3 03 C C 5 5 6 - P pH i0.1 units;	Control of the contro	Turbidity (NTU)	DO (mg/l)	ORP (mV) [10 mV]*	l.m
- 14 mar 10 mar 1-	Pump Rate (L/min.) 50 50 175 125 100	Y N Meter Type(s) / S Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV) [10 mV]*	
- 14 mar 10 mar 1-	Pump Rate (L/min.) 50 50 175 125 100 100	Y N Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect 3 03 C C 5 5 6 - P pH i0.1 units;	Control of the contro	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV) [10 mV]*	inh
Time 3/0	Pump Rate (L/mis.)	Meter Type(s) /: Total Gailone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HO I AZ MPJ Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	
	Pump Rate (L/min.) 50 50 175 125	Meter Type(s)/: Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU)	DO (mg/l)	ORP (mV)	(.)
	Pump Rate (L/min.) 50 50 175 125 100	Y N Meter Type(s) / S Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect	HG I AZ M PJ Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV)	(.n
	Pump Rate (L/min.) 50 50 175 125 100 100	Y N Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect 3 03 C C 5 5 6 - P pH i0.1 units;	Control of the contro	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV) [10 mV]*	(m
	Pump Rate (L/min.) 50 50 175 125 100 100	Y N Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect 3 03 C C 5 5 6 - P pH i0.1 units;	Control of the contro	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV) [10 mV]*	
	Pump Rate (L/min.) 50 50 175 125 100 100	Y N Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level	Temp. (Colsius)	Samples collect 3 03 C C 5 5 6 - P pH i0.1 units;	Control of the contro	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l)	ORP (mV) [10 mV]*	
10 20 25 30 35 340 45	Pump Rate (L/min.) 50 50 175 125 100 100	Meter Type(s)/5 Total Gallone Removed	Serial Numbers: Water Level (RTG) 14.32 14.35 14.42 14.38 14.38 14.35 14.35 14.12	Temp. (Celsius) [3%]*	Samples collect 3 03 (10 5-5-6-10 pH (0.1 units)*	Coted by same me HO 1 A 2 M PJ Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 25 30 35 340 45	Pump Rate (L/min.) 50 56 175 125 100 100	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.43 14.38 14.38 14.38 14.38 14.38 14.38	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Coted by same me HO 1 A 2 M PJ Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 47 [65 240 [17]	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	iab
10 20 325 330 335 340 45	Pump Rate (L/min.) 50 56 175 125 100 100	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 30 35 340 45	Pump Rate (L/min.) 50 56 175 125 100 100	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 325 30 335 340 45	Pump Rate (L/min.) 50 56 175 125 100 100	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 30 35 340 45 45 45 45 46	Pump Rate (L/min.) 50 175 125 100 100 n criteria for and sysampling if minit	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 25 30 35 340 45 40 wation	Pump Rate (Linsin.) 50 175 125 100 100 n criteria for each	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 30 35 340 45 45 40 RVATION ded	Pump Rate (Limin.) 50 175 125 100 100 criteria for each standpling if to minu	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 25 30 35 340 45 45 45 40 45 40 45 40 45	Pump Rate (Limin.) 50 175 125 100 100 criteria for each standpling if to minu	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]*	Samples collected at 3- to 5	Control of the contro	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab
10 20 25 30 35 340 45 40 45 40 45 40	Pump Rate (L/min.) 50 175 175 100 100 100 n criteria for and S/SAMPLING II to Minit	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water Level (ft TIC) 14.32 14.35 14.42 14.38 14.38 14.35 14.12 14.12 14.13	Temp. (Calatus) [3%]* 13, 7/ /4,30 utive readings of Hooksel	Samples collected at 3- to 5	Control of the same of the sam	Turbidity (NTU) [10% or 1 NTU]* 47 165 240 117 60 39 30	DO (mg/l) [10% or 0.1 mg/l]*	ORP (MV) [10 mV] — — — — — — — — — — — — — — — — — — —	iab

Well No. 6 111 B-R	Site/GMA Name	GMA 3	
	Sampling Personnel	KICIRAR	
	Date	5114108	
	Weather	Sunny Breezy	Lerus 70s

WELL	INFO	DRM/	TION	- See	Page	1
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Time	Pump Rate	Total Gallons	Water Level	Temp. (Celsius)	рН	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/i)	ORP (mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*		[10 mV]*
1350	100	1-06	14.36	14.32	7.68	0.724	23	4.12	21.8
/355	100	1-19	14.37	1413.69	7.68	0.727	18	4.69	24.8
1400	50	1-26	14.36	14.53	7.68	0.723	16	4.84	25.9
1405	150	1.46	14,40	14.33	7.67	0.724	13	5.39	26.6
1410	200	1.72	14.42	12.60	7.70	0.729	10	6.08	28.4
1415	125	1.89	14.36	13.06	7.68	0.721	//	5.85	31,3
1420	125	2.05	14.37	13.61	7.72	0.725	12	6.02	30.3
1423	125	2.15	14.37	13.81	7.72	0.721	12	5.95	29.4
1426	125	2.25	14.37	14.54	7.68	0.723	10	5.96	29.9
1429	125	2.35	14.35	14.18	7,68	0.729	10	6.6829	29,3
1432	125	2.45	14.38	14.55	7.67	0.722	11	6.11	29.5
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		Sau	pledo	143	2				
					,				

* The stabilization criteria for each	field parameter (three conse	cutive readings	s collected at 3	to 5, minute intervals) is listed in each colo	ımn heading.	
OBSERVATIONS/SAMPLING ME	THOD DEVIATIONS	Note	temp	fluctuat in	l up and	d down	-all
other para	meters stat	3/0		'			
,				U			

	11				She/GMA N	- CMI	٧ 🕽			
	ell No	7/1					\mathcal{L}			
	D Background	37			Sampling Perso	nnel Ry	4BIKIC	<u> </u>		
	of Headspace (·			Date	3/08			
•		(Marin)			. Wea	ther _Su	any H	0603		~
WELL IN	FORMATION						(10.6		
	erence Point Me	rked? Y /	a)				- Sample 1	ime <u>1340</u>		
	ht of Reference		Mana E	0000	nd	r	Sampi	10 H //4	A	
	Well Dis		//	rom <u>Grow</u>	119		Duplicati	• ID		
:	Screen Interval I	Depth 45-6	Alexa F	rom <u>Grau</u>	und.		MSA	***************************************		
	Water Table I	Depth 5.98	Moss. Fr		×1.62		·Sp#t Sample	• ID		
	Well E		2 Moss, Fr		_	Require	d A			
	gth of Water Co					(X)		ical Parameters:	Collecte)
Vol	ume of Water in	Well 1. 889	-			·		OCs (Std. list) Cs (Exp. list)	(🎉)	
intako De	epth of Pump/Tu	lbing <u>45 - 5</u>	O Moss. Fr	om Grayn.	<u>,, </u>	()	••0	SVOCs	()	
Deference	Chaimé Intonées	47.5	245	last 2' u	1.1.12	()	P	CBs (Total)	()	
	Point Identificat of Inner (PVC) C		ι,,	last of by)anour	(X)		ls (Dissolved)	() ()	
	of Outer (Protec			go ou	wi	()		norganics (Total)	()	
	6: Ground Surfa					()		ganics (Dissolved)	()	
						()	EPA Cya	enide (Dissolved)	()	
Redevelop	7 Y (N)					()	PAC Cy	nide (Dissolved)	()	
						()		DDs/PCDFs	()	
						()		des/Herbicides	()	
						() ()		al Attenuation	(X ()	
EVACUATK	on informati	IDIII				()	Oth	er (Specify)	()	
	Pump Start Tin	ne (241)				•				
5.41	Pump Stop Tin	no 1475			Evacuation N	lethod: Bailer	() Bladder	Eleanon / \		
	inutes of Pumpi	ne 1415		•	Evacuation &			Pump ()		
Valume o	inutes of Pumpi of Water Remove	ne 14'15	15 alloni	•	Peristatic Pu Pump Type:	mp (K) s	iubmeraible Pump	() Other/Sp	pecify ()	
Valume o	inutes of Pumpii f Water Remove Did Well Go Dry	ne 1415	Ilons	#3 Vs	Peristaitic Pu Pump Type: Samples colle	mp (K) S <u>Chroplun</u> ected by same m	iubmersible Pump A 2 athod as evacuati	Other/Sp	cify)	<u>.</u>
Valume o	inutes of Pumpii f Water Remove Did Well Go Dry	ne 14'15	Serial Numbers:	Temp.	Peristaitic Pu Pump Type: Samples colle	mp (K) S Croplus An P) Sp. Cond.	Submersible Pump ABB Revacuati ALN 2/0 Turbidity	() Other/Sp	cify)	- :
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quality Pump	Meter Type(s) /	Serial Numbers:	Temp. (Calaius)	Peristaltic Pu Pump Type: Samples colle / 5-5 (o ,	mp (K) S (POPUL) acted by same m M P) "Sp. Cond. (mS/cm)	Turbidity (NTU)	Other/Signal Other Other/Signal Other Other/Signal Other O	ORP (mV)	-
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.)	Meter Type(s) / Total Gallone Removed	Serial Numbers:	Temp.	Peristatic Pu Pump Type: Samples colle	mp (K) S Croplus An P) Sp. Cond.	Submersible Pump ABB Revacuati ALN 2/0 Turbidity	Other/Si	ORP (mV)	-
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quality Pump Rate	Meter Type(s)/ Total Gallone Removed	Serial Numbers:	Temp. (Calaius)	Peristaltic Pu Pump Type: Samples colle / 5-5 (o ,	mp (K) S (POPUL) acted by same m M P) "Sp. Cond. (mS/cm)	Turbidity (NTU)	Other/Signal Other Other/Signal Other Other/Signal Other O	ORP (mV)	
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.)	Meter Type(s) / Total Gallone Removed	Serial Numbers:	Temp. (Celeius) [3%]*	Peristaltic Pu Pump Type: Samples colle / 5-5 (o ,	mp (K) S Cropun An P) Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? Y N (spec OP Tive); DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.)	Meter Type(s) / Total Gallone Removed 0.26 0.39	Serial Numbers:	Temp. (Colaius) [3%]*	Perintaltic Pu Pump Type: Samples colli /- 5-5-6 pH [0.1 units]*	mp (K) S (Froplus) sected by same m M P / Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? (Y) N (spec OP Tive); DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	
Time 250	inutes of Pumpi of Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) / 00	Meter Type(s)/ Total Gallone Removed 0.26 0.39	Serial Numbers: Water Level (RTC) 10:94 12:15	Temp. (Celeius) [3%]*	Perintaltic Pu Pump Type: Samples colli /- 5-5-6 pH [0.1 units]*	mp (K) S Cropun An P) Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? Y N (spec OP Tive); DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	
Valume o	inutes of Pumpi of Water Remove Did Well Go Dry Water Quelity Pump Rate (L/min.) / 00 /00	Meter Type(s) / Total Gallone Removed 0.26 0.39 0.52 0.66	Serial Numbers: Water Level (RTC) 10:94 12:15	Temp. (Colaius) [3%]*	Perintaltic Pu Pump Type: Samples colli /- 5-5-6 pH [0.1 units]*	mp (K) S (Froplus) sected by same m M P / Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? (Y) N (spec OP Tive); DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]	
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Time 250 255 300	inutes of Pumpi of Water Remove Did Well Go Dry Water Quelity Pump Rate (L/min.) / 00 /00	Meter Type(s)	Serial Numbers: Water Level (RTC) 10:94 12:15	Temp. (Colaius) [3%]*	Perintaltic Pu Pump Type: Samples colli /- 5-5-6 pH [0.1 units]*	mp (K) S (Froplus) sected by same m M P / Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? (Y) N (spec OP Tive); DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]	
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Time 1250 255 300	inutes of Pumpi of Water Remove Did Well Go Dry Water Quelity Pump Rate (Limin.) / 00	Meter Type(s)	Serial Numbers: Water Level (RTC) 10:94 12:15	Temp. (Colaius) [3%]*	Perintaltic Pu Pump Type: Samples colli /- 5-5-6 pH [0.1 units]*	mp (K) S (Froplus) sected by same m M P / Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/S; on? (7) N (spector) OP Tive 6, 13 DO (mg/l) [10% or 0.1 mg/l] HAOUGH FT. 1.83 1.23 0.99 0.88	ORP (mV) [10 mV) -236,2 -233.5 -243.2	
Time 250	inutes of Pumpi of Water Remove Did Well Go Dry Water Quelity Pump Rate (Limin.) / 00	Total Gallone Removed 0.76 0.52 0.66 0.79 0.92	Serial Numbers: Water Level (RTC) 10:94 12:15	Temp. (Celetus) [3%]* NO R 15.30 15.32 15.15 15.18 15.09	Peristaltic Pur Pump Type: Samples collic 1-556, pH i0.1 unital* FANING 7.76 7.82 7.89 7.97	mp (K) S (Froplus) sected by same m M P / Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	Other/Si on? P N (spec OP Tu-6,) (mg/l) (10% or 0.1 mg/l) (10% or 0.1 mg/l) (1.83 (1.23 (2.99 (2.88 (2.79	ORP (mV) (10 mV) 22602 -233.5 -243.2 -253.2	
Time 250 255 300 305 315 315	inutes of Pumpi of Water Remove Did Well Go Dry Water Quelity Pump Rate (Linsin.) / 00 /00 /00	14 5 6 6 6 7 6 7 6 7 7 6 7 7	Seriel Numbers: Water Level (RTC) 10,15 13,74 15,32 16,62 17,62 18,68 19,35	Temp. (Celeius) [3%]* NO R 15.30 15.32 15.15 15.18 15.09 14.89	Peristatic Pur Pump Type: Samples colle 7-556, pH j0.1 unitate 7.76 7.76 7.82 7.82 7.87 8.97	mp (x) s Wropun A p y Sp. Cond. (ms/cm) [3%]* WATER 0.426 0.421 0.417 0.411 0.463	Turbidity (NTU) [10% or 1 NTUP 26 40 UX 77 25 17 15	Other/Si on? N (spec OP Turb); OP Turb); OP Turb); (mg/l) (10% or 0.1 mg/l* HOUGH FL 1.83 1.23 0.99 0.79	ORP (mV) [10 mV) -236,2 -233.5 -243.2	
Time 1250 1255 300 1305 315 320 325 e stabilizatic	inutes of Pumpi of Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) / 00 /00 /00 /00	Neter Type(s) / Total Gallone Removed 0.76 0.39 0.52 0.92 1.05 1.18 Ch field parameter 1.18	Seriel Numbers: Water Level (RTC) 10,15 13,74 15,32 16662 17,62 18,68 19,35 In (three consecutive consecutive)	Temp. (Celeius) [3%]* NO R 15.30 15.32 15.15 15.18 15.09 14.89	Peristatic Pur Pump Type: Samples colle 1-556, pH j0.1 units Pump Type: FANING 7.76 7.82 7.82 7.89 7.97 8.04 liegad at 3- to 5	mp (x) s Wroplus A p y Sp. Cond. (mS/cm) [3%]* WATER 0.426 0.427 0.417 0.463 0.398 mjyum interval	submersible Pump AP 2 Sethod as evacuation Furbidity (NTU) [10% or 1 NTUP 26 AP 15 17 15 14 14 a) is listed in each of	Other/Si on? N (spec OP Turb); OP Turb); OP Turb); (mg/l) (10% or 0.1 mg/l* HOUGH FL 1.83 1.23 0.99 0.79	ORP (mV) (10 mV) 22602 -233.5 -243.2 -253.2	
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Time 250 255 300 305 315 315 320 325 e stabilizatic ERVATION	inutes of Pumpi of Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) / 00 /00 /00 /00	Meter Type(s)/ Total Gallone Removed 0.26 0.39 0.52 0.06 0.79 0.92 1.05 1.18 ch field paramete	Seriel Numbers: Water Level (RTC) 10,15 13,74 15,32 16662 17,62 18,68 19,35 In (three consecutive consecutive)	Temp. (Celeius) [3%]* NO R 15.30 15.32 15.15 15.18 15.09 14.89 Itherematings co	Peristatic Pur Pump Type: Samples colle 1-556, pH j0.1 units Pump Type: FANING 7.76 7.82 7.82 7.89 7.97 8.04 liegad at 3- to 5	mp (x) s Wroplus A p y Sp. Cond. (mS/cm) [3%]* WATER 0.426 0.427 0.417 0.463 0.398 mjyum interval	submersible Pump AP 2 Sethod as evacuation Furbidity (NTU) [10% or 1 NTUP 26 AP 15 17 15 14 14 a) is listed in each of	Other/Si on? N (spec OP Turb); OP Turb); OP Turb); (mg/l) (10% or 0.1 mg/l* HOUGH FL 1.83 1.23 0.99 0.79	ORP (mV) (10 mV) 22602 -233.5 -243.2 -253.2	UG HCEI
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Time 250 255 300 305 315 315 320 325 e stabilizatic RERVATION	inutes of Pumpi of Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) / 00 /00 /00 /00 /00 /00 /00 /	Meter Type(s)/ Total Gallone Removed 0.26 0.39 0.52 0.06 0.79 0.92 1.05 1.18 ch field paramete	Seriel Numbers: Water Level (RTC) 10,15 13,74 15,32 16662 17,62 18,68 19,35 In (three consecutive consecutive)	Temp. (Celeius) [3%]* No R 15.30 15.32 15.15 15.18 15.09 14.89 14.89 14.89	Peristatic Pur Pump Type: Samples colle 7-556, pH j0.1 units; FANING 7.76 7.76 7.82 7.89 7.97 8.04	mp (x) s Wroplus A p y Sp. Cond. (mS/cm) [3%]* WATER 0.426 0.427 0.417 0.463 0.398 mjyum interval	Turbidity (NTU) [10% or 1 NTUP 25 17 15 14 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Other/Si on? N (spec OP Turb); OP Turb); OP Turb); (mg/l) (10% or 0.1 mg/l* HOUGH FL 1.83 1.23 0.99 0.79	ORP (mV) [10 mV]* (22 Ge 2 -233.5 -243.2 -253.2 -265.1	UG HCEI
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VELL INFORMATION - See Page 1			_ Sit	oos (+ Br	(+ Broeze				
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	p H [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	(mg/i) [10% or 0.1 mg/i]*	ORP (mV) [10 mV]*
1330	100	1.32	20.25	14.90	8.08	0.392	//	174	-267
1335	Ī	1.45	20.77	15.06	8.05	0.387	//	070	-262.
340	J	1.58	21.32	14.99	8.08	0.383	1/	0.70	-264.
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		nch field paramet		utive readings c	ollected at 3- to	5-minute interva	ls) is listed in each	column heading.	

Well	No. 114-	BR					166 PI		
Key !		37		See	mpling Personn	a XIC			
	Background (p				Deal				
7748	Headepace (p	um)			Weath	—	ok Son	ny, elig	ht brees
WELL INFO	PRIMATION						Sample 17r	ne 121 (73
Refere	ence Point Mark	ed? 🕜 N				ř	Sample		R
Height	of Reference P			m Grad	<u>e</u>		Duplicate	ID 01	
0	Well Diam		<i>T</i>	m Grad	n		MS/MS		
	reen interval De Water Table De	7 ¹¹			<u>~</u>		Sp#t Sample	ID	
	Well Da		Meas, Fro			Required	Annivi	cal Parameters:	Collected
	h of W ate r Colu					(×)		Ca (Std. list)	(×)
	ne of Water in V			m TIC		(3	, voc	Sa (Exp. list)	()
imparoa Ceb	th of Pump/Tub	ing · · · · L	Meas, From	m	_	()	~	SVOCs (Ba (Total)	()
eference P	oint Identificatio	Ω:				(X)		s (Dissolved)	(X)
IC: Top of I	inner (PVC) Car	sing				()		norganica (Total)	()
•	Outer (Protecti					()		ganics (Dissolved)	()
rade/BGS:	Ground Surfac	e ,				()	•	nide (Dissolved)	()
edevelop?	Y (N)					()	•	nide (Dissolved) XDs/PCDFs	()
						()		lea/Herbicides	()
						(×)	Natura	M Attenuation	(X)
	N INCODMATE	1M				()	Othe	or (Specify)	()
Min Valume of	Pump Start Tim Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry	1440 120 1359	<u>u</u> llons	,		np () Si <u>May 5 C</u> cted by same m	ibmersible Pump <u> - </u>	tem One on? Y N (spec	••
Min Valume of	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry	1440 120 1359	Serial Numbers:		Perietatic Pun Pump Type: Samples collection	Mayscoted by same m	homersible Pump hulk — Sus ethod am evacuati ACH ALC	() Other/Sp fom Ohi on? (Y) N (spec (SP + U) - b)	dimet
Min Valume of	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality	e /44(g /20 d 4.75 q ? Y N	Sorial Numbers:	VST SS Temp. (Celaius)	Peristaltic Pun Pump Type: Samples colle	np () Si <u>May 5 C</u> cted by same m	ibmersible Pump <u> - </u>	fem Ont fom Ont on? Y N (spec	⊒ify)
Min Valume of E	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump	Meter Type(s)/: Total Gailone Removed	Serial Numbers: Water	Temp.	Perietatic Pun Pump Type: Samples collection	Mays coted by same met	tomersible Pump h_lk - \$\subseteq s athod an evacuation CH A\C Turbidity (NTU)	Other/Si dem One on? Y N (spec	ORP (mV)
Min Valume of E	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate	Meter Type(s)/s Gallone Removed O·53	Sorial Numbers: Water Level	Temp. (Celsius)	Perintatic Pun Pump Type: Samples collect GMPS +	May 5 C ted by same m Sp. Cond. (mS/cm)	tomersible Pump h_lk - \$\subseteq s athod an evacuation CH A\C Turbidity (NTU)	Other/S; Hom Ohu On? (Y) N (spec	ORP (mV)
Min Valume of E	Pump Stop Tim tutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.)	Meter Type(s)/: Total Gailone Removed	Sorial Numbers: Water Level	Temp. (Celsius)	Perintatic Pun Pump Type: Samples collect GMPS +	May 5 C ted by same m Sp. Cond. (mS/cm)	tomersible Pump	Other/S; Hom Ohu On? (Y) N (spec	ORP (mV)
Min Valume of E	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.)	Meter Type(s)/s Gallone Removed O·53	Water Level (ft TIC)	Temp. (Celeium) [3%]*	Perintatic Pun Pump Type: Samples coller 6 MPS pH j0.1 units*	May 5 Coted by same me 3p. Cond. (ms/em) [3%]*	Turbidity (NTU)	Other/S; Jom On t on? (Y) N (spector) OP TUrb) DO (mg/l) (10% or 0.1 mg/l)	ORP (mV) [10 mV]*
Min Valume of	Pump Stop Tim nutes of Pumpin Water Remove Old Well Go Dry Water Quality Pump Rate (L/min.) 200 200	14 4 (9	Serial Numbers: Water Level (ft TIC) G. O.L G. O.L G. O.L	Temp. (Celaius) [3%]*	Peristatic Pun Pump Type: Samples coller 6 MPS + pH j0.1 units]*	May 5 Coted by same met 2	tomersible Pump halle - Sus and tool an evacuation of the sus and	Other/Signal Other/Signal Other/Signal Other Oth	ORP (mV) [10 mV]
Min Valume of	Pump Stop Tim tutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.)	14 4 (4 7 7 7 7 7 7 7 7 7	Water Level (ft TIC)	Temp. (Celeium) [3%]*	Perintatic Pun Pump Type: Samples coller 6 MPS pH j0.1 units* 7 10 2 6, 55	Sp. Cond. (mS/em) [3%]	tomersible Pump halle - Sus and tool an evacuation of the sus and	Other/Signal Other/Signal Other/Signal Other Oth	ORP (MV) [10 mV) 30.0
Min Valume of 1	Pump Stop Time tutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (Limin.) 200 200	14 4 (Serial Numbers: Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00	Temp. (Celeium) [3%]*	Peristatic Pun Pump Type: Samples coller 6 MPS	Mays cond. Sp. Cond. (ms/em) [3%]* [1,070]	tomersible Pump Aulc - Sus behod an evacuation CH auc Turbidity (NTU) [10% or 1 NTUP 59 14 17	Other/Si Jom On 2 DO (mg/l) (10% or 0.1 mg/l) 7, 41 6, 53 4, 57	ORP (MV) [10 mV] 30.0 19.1 25.8
Min Volume of E	Pump Stop Time tutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (Limin.) 200 200 100 100	Meter Type(s) /: Total Gallone Removed 0.53 0.79 /-06 /-29 /-42	Serial Numbers: Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00 6.00	Temp. (Coleium) [3%]* 14, 31 13, 15 14, 68 16100	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units 7.10 Z 6.55 7.09 7.12	May 5 C Si May 5 C Cted by same in 2	tomersible Pump Aulc - Sus behod an evacuation CH auc Turbidity (NTU) [10% or 1 NTUP 59 14 17	Other/Si Jom On t Jon? (Y) N (spect OP + Urb) DO (mg/l) [10% or 0.1 mg/l] 	ORP (MV) [10 mV] 30.0 19.1 26.8 -34.1
Min Valume of 15 15 15 15 15 15 15 15 15 15 15 15 15	Pump Stop Tim tutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.) 200 200 155 100 100	1440 120	Sorial Numbers: Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00 6.00	Temp. (Coloium) [3%]* 14, 31 13, 15 14, 68 16100 13, 22	Peristatic Pun Pump Type: Samples coller GMPS # pH i0.1 units!*	May 5 Coted by same met 2, 11, 15, 11, 15, 15, 15, 15, 15, 15, 15	tomersible Pump Aulc - Sus behod an evacuation CH auc Turbidity (NTU) [10% or 1 NTUP 59 14 17	Other/Si Jom On L Jon? (V) N (spec (Mg/I) (10% or 0.1 mg/I) 7, 41 6, 53 4, 57 4, 38 3, 98	ORP (MV) (10 mV) (10 m
Min Valume of E	Pump Stop Tim tutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (Limin.) 200 200 100 100 150	1440 120	Sorial Numbers: Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00 6.100 6.101 6.101	Temp. (Coleium) [3%]* 14, 31 13, 15 14, 68 16,00 13, 22 13,90	Perintatic Pun Pump Type: Samples collect GMPS # pH j0.1 units* 7.10 Z (e. 55 7.10 9 7.1Z 7.15 7.13	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and tool an evacuation of the pump of	Other/s; Icm On to Icm On to I	ORP (MV) [10 mV] 30.0 19.1 26.8 -34.1
Min Volume of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pump Stop Tim tutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (Limin.) 200 200 100 100 150 on criteria for ea	1440 120	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleium) [3%]* 14, 31 13, 15 14, 68 16,00 13, 22 13,90	Perintatic Pun Pump Type: Samples collect GMPS # pH j0.1 units* 7.10 Z (e. 55 7.10 9 7.1Z 7.15 7.13	May s condition Sin May s condition Sin Sin	tomersible Pump Aulc - Sus behod an evacuation CH auc Turbidity (NTU) [10% or 1 NTUP 59 14 17	Other/s; Icm On to Icm On to I	ORP (MV) (10 mV) (10 m
Time 2 SD 2 SS 3 OD 3 OS 3 / O 3 / S 3 A S 3 A S SERVATION	Pump Stop Tim tutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.) 200 200 100 100 150 on criteria for ea	Meter Type(s) /: Total Gailone Removed 0.53 0.79 /-06 /-16 /-29 /-42 /-56 ch field paramet	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Min Valume of Time ZSD ZSS 300 305 3/0 3/5 320 325 e stabilization	Pump Stop Tim nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (L/min.) 200 200 100 100 150 on criteria for oa	Meter Type(s) /: Total Gailone Removed 0.53 0.79 /-06 /-16 /-29 /-42 /-56 ch field paramet	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00 6.00 6.100 6.100 6.100 6.100 6.100 6.100 6.100 6.100	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples collect GMPS # pH j0.1 units* 7.10 Z (e. 55 7.10 9 7.1Z 7.15 7.13	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Min Valume of I	Pump Stop Time tutes of Pumpin Stop Time tutes of Pumpin Stop Time	1440 140	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.00 6.00 6.100 6.100 6.100 6.100 6.100 6.100 6.100 6.100	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Time 250 255 300 305 3/6 320 325 320 325 320 325 COVE	Pump Stop Time nutes of Pumpin Nutes of Pumpin Water Remove Did Well Go Dry Water Quality Pump Rate (Limin.) 200 200 150 100 100 150 on criteris for each sysamplung Cannel	1440 140	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.01 7.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Time 250 255 300 305 3/6 320 325 e stabilization VSI COVE	Pump Stop Tim nutes of Pumpin Nutes of Pumpin Water Remove Did Weil Go Dry Water Quality Pump Rate (L/min.) 200 200 150 100 100 150 on criteris for each NS/SAMPLING CON NE	1440 140	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.01 7.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Time ZSD ZSS 305 305 3/6 325 stabilization SERVATION VSI COVE	Pump Stop Time Total Stop Total St	1440 140	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.01 7.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleitum) [3%]* 14, 31 13, 15 14, 68 16,000 13, 22 13,90 utive readings of	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May s condition Sin May s condition Sin Sin	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m
Time 250 255 300 305 3/6 320 325 estabilization VSI COVE	Pump Stop Time Interest of Pumpin Water Remove Old Weil Go Dry Water Quality Pump Rate (Limin.) 200 200 200 100 100 150 IOO ISO On criteris for each INSTAMPLING CDITUE VECT INATION SG J UPS	1440 140	Water Level (ft TIC) 6.01 6.01 6.01 6.01 6.01 6.00 6.01 7.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	Temp. (Coleium) [3%]* 14, 31 13, 15 14, 68 16100 13, 722 13, 90 uthre readings of the coll Cell	Perintatic Pun Pump Type: Samples coller GMPS pH j0.1 units P 7102 6.55 7109 712 715 713 ollected at 3- to 5	May 5 Cored by same met 2 H	tomersible Pump hulls — Sus and the description of	Other/s; Jom On to Jon? (V) N (spector) OP + Urb) (mg/l) [10% or 0.1 mg/l] 	ORP (MV) (10 mV) (10 m

	VELL INFORM	ATION - See I				Date Weather	\$ 5	13/08	22	
1	Time		Page 1							
		Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORF (mV [10 m)
	330	150	1-96	6,01	12.39	J.W.	1,043	12	3,21	-4
	1333	150	2.08	6,01	12,13	7.05	1.031	11	2,91	- 51.
_	1336	150	2.20	601	12.36	6.99	1,027	. 9	2,74	-49
	1339	150	2.32	6.01	12.81	1,08	1.031	8	2.41	- 50
L	1342	150	2.44	6.01	12,72	7.13	1,027		2,34	- 65
	1345	150	2.55	6,01	12,63	7.15	1.022	一	2, 23	- 59
	1348	160	2.67	6,01	12.39	7,15	1.07	8	2,04	-62
	1351	150	2.79	6,01	13.12	7.16	1.019	<u> </u>	1.89	- 63
	1354	150	2.91	6.01	13,02	7,17	1.022	7	1,75	-63
	1357	150	3.03	6.01	12,78	7,18	1.020	6	1,72	-66
04	3	150	3-15	6.01	12,68	7,19	1.019	6	1,70	- 68
	4,03		· ·	>	Sam	Died	@ 14	103 K	c	
						·				
	-									

		IVC A				\sim			
Well		115 A		*****	SHe/GREA Na	une(Y)	4A3		
Kay		**************************************		\$4	mpling Person	mei	RAB		
	Background (p				. 0	ate 3	115/08		
Well	i Headepace (p	pm)			Wout			15th Mil	2302
							Cary 1	15/9 /10	y NS
WELL INF	ORMATION						0	Bh.	1122
Refer	once Point Mark	and? Y (N	จ				Sample 17	me	1033
	t of Reference P	") [7	acour	2.1	r	Sample	ID 1151	
i ioigii	Well Diam		MOSS. FR	om groun	<u>U</u>		Duplicate	ID	
0.	roen Interval De		77)		MS/M	SD	
30			Moss. Fro	m Ground			Sp# Sample	ID	
	Water Table De			m 770	二 (14')	,			
	Wed De		Mone. Fro	m _ <i>T/C</i>	*****	Required	Analyti	cal Parameters;	Collected
-	th of Water Colu					(Y .)		Cs (Std. list)	(X)
	me of Water in V		<u>m</u> llons		,	· ~ 3	,	Ca (Exp. list)	` ^ (
intake Der	oth of Pump/Tub	$m_38.5'$	Mees, Fro	m <u>Grown</u>	el -	()		SVOCs	()
						()	Dr.	CBs (Total)	()
Reference P	oint Identificatio	<u>n</u> :		·		, ,			()
TIC: Top of	Inner (PVC) Car	sing				, ,		s (Dissolved)	()
	Outer (Protecti	-				()		norganics (Total)	()
	Ground Surface	. •				()		ganics (Dissolved)	()
		•				()	EPA Cya	ınidə (Dissolved)	()
Redevelop?	YN					()	PAG Cya	nide (Dissolved)	()
						()	PCE	DDs/PCDFs	()
						()	Pesticio	les/Herbicides	()
						() (Natura	M Attenuation	(% ()
						(** *)	Othe	er (Specify)	<i>`</i> ^(
	N INFORMATIO	· /3//C						(, , , , , , , , , , , , , , , , , , ,	` '
	Pump Start Time	• 742							
	Pump Stop Time	• 1035		•	Evacuation M	lethod; Bailer	() Sladder	Pump ()	
Min	utes of Pumping	70			Peristaltic Pur		ibmersible Pump		
Volume of	Water Removed	2.75gall	one			. //		() Other/S	pecify ()
							14		
ľ	Did Well Go Dry?	Y	-		Pump Type:		up 2		
ſ	Old Well Go Dry?	Y (N)					ethod as evacuation	- (• • • • • • • • • • • • • • • • • • • •
ſ	•		Serial Numbers:	YST O			ethod as evacuation	- (• • • • • • • • • • • • • • • • • • • •
	•		 Serial Numbers:		Samples colle		ethod as evacuation	on? To N (spen	• • • • • • • • • • • • • • • • • • • •
	•		Ţ	1 '55	Samples colle 3C/46 MPS	AT	Hach Tu	Similar 21	OOP
Time	Water Quality	Meter Type(s) / 5	Water	/5 57 Temp.	Samples colle	AT. Sp. Cond.	Hach Tur	- (• • • • • • • • • • • • • • • • • • • •
	Water Quality Pump Rate	Meter Type(s) / 5 Total Gailons	Water Level	Temp. (Celsius)	Samples colle 3C/46 6 M P 5	Sp. Cond.	Hach Turbidity (NTU)	Similar 21	ORP (mv)
	Water Quality	Meter Type(s) / 5	Water	/5 57 Temp.	Samples colle 3C/46 MPS	AT. Sp. Cond.	Hach Turbidity (NTU)	Bruter 21	ORP (mv)
	Water Quality Pump Rate	Meter Type(s) / 5 Total Gailons	Water Level	Temp. (Celsius)	Samples colle 3C/46 6 M P 5	Sp. Cond. (ImSkem)	Hach Turbidity (NTU)	Similar 21	ORP (mv)
	Pump Rate (L/min.)	Total Gailone Removed	Water Level	Temp. (Celsius)	Samples colle 3C/46 MP5 pH (0.1 units)*	Sp. Cond.	Hach Turbidity (NTU)	Similar 21	ORP (mv)
	Water Quality Pump Rate	Meter Type(s) / 5 Total Gailons	Water Level	Temp. (Celsius)	Samples colle 3C/46 MP5 pH (0.1 units)*	Sp. Cond. (ImSkem)	Hach Turbidity (NTU)	Similar 21	ORP (mv)
	Pump Rate (L/min.)	Total Gallons Removed 0-20	Water Level	Temp. (Celsius)	Samples colle 3C/46 MP5 pH (0.1 units)*	Sp. Cond. (ImSkem)	Hach Turbidity (NTU)	Similar 21	ORP (mv)
	Pump Rate (L/min.)	Total Gailone Removed 0-20	Water Level	Temp. (Cotains) [3%]*	Samples colle 3C/46 MP5 pH (0.1 units)*	Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) 110% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (mv)
	Pump Rate (L/min.)	Total Gallons Removed 0-20	Water Level	Temp. (Celsius)	Samples colle 3C/46 3M/P5 pH (0.1 units)*	Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) 110% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (raV) - [10 mV]* -
	Pump Rate (L/min.)	Total Gailone Removed 0-20 0-40	Water Level	Temp. (Cotains) [3%]*	Samples colled 3C/46 MP5 pH i0.1 units;	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 10% or 1 NTUP	Similar 21	ORP (mv)
	Pump Rate (L/min.)	Total Gailone Removed 0-20 0.40 0-59	Water Level	Temp. (Cotains) [3%]*	Samples colle 3C/46 3M/P5 pH (0.1 units)*	Sp. Cond. (mS/cm) (3%)	Turbidity (NTU) 110% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (raV) - [10 mV]* -
	Pump Rate (L/min.)	Total Gailone Removed 0-20 0-40	Water Level	Temp. (Cotains) [3%]*	Samples colled 3C/46 MP5 pH i0.1 units;	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 10% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (rav) - [10 mv]*
	Pump Rate (L/min.)	Total Gaffons Removed — 0-20 0.40 0-59 0.79	Water Level	Temp. (Cotains) [3%]*	Samples colled 3C/46 MP5 pH i0.1 units;	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 10% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (rav) - [10 mv]*
	Pump Rate (L/min.)	Total Gailone Removed — 0-20 0.40 0-59 0-79 0-99 1-19	Water Level	Temp. (Cotains) [3%]*	Samples colled 3C/46 MP5 pH i0.1 units;	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 10% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (raV) - [10 mV]* -
	Pump Rate (L/min.)	Total Gaffons Removed — 0-20 0.40 0-59 0.79	Water Level	Temp. (Cotains) [3%]*	Samples colled 3C/46 MP5 pH i0.1 units;	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 10% or 1 NTUP	Signific 21 DO (mg/l) [10% or 0.1 mg/l) - J Hirosop	ORP (raV) - [10 mV]* -
945 950 955 1000 1005 1015 1020	Pump Rate (Limin.) 17-5 150 150 150 150 150 150 150	Total Gailons Removed 0-20 0.40 0-59 0-79 0-99 1.19	(RTIC) 8,32 8,32 8,32 8,32 8,32 8,32	10 '555 Temp. (Cedeius) [3%]" ————————————————————————————————————	Samples colle 3C/46 MPS pH (0.1 units) 7,220 7,236 7,47 7,57 7,65	Sp. Cond. (InSkern) (3%)*	Turbidity (NTU) 110% or 1 NTUP 53 40 41 23 12 12 7	Signific 21 Signific 21 (mg/l) [10% or 0.1 mg/l) J Hirocay 5. 200 3.97 3.81 3.89	ORP (raV) - [10 mV]* -
71me 945 950 955 1000 1005 1015 1020 The stabilization	Pump Rate (L/min.) 17-5 150 150 150 150 150 150 150 150 150 15	Total Gallons Removed 0 - 20 0 - 59 0 - 79 1 - 19 1 - 39 In field parameter 19 19 19 19 19 19 19 1	#ater Level (ft TIC) 8,32 8,32 8,32 8,32 8,32 ar (three consecution of the consecution of	10 '555 Temp. (Celeius) [3%]"	3C/46 3C/46 3MP5 pH i0.1 units 7,220 7,36 7,47 7,57 7,65 inscreed at 3- to 5	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) (10% or 1 NTUP 53 (40) 23 12 10 7	Signific 21 DO (mg/l) [10% or 0.1 mg/l) J Harry 5. 20 3.97 3.81 3.89 3.96 Solumn heading.	ORP (rav) [10 mv]*
745 950 955 1000 1005 1015 1020 The stabilization	Pump Rate (L/min.) 17-5 150 150 150 150 150 150 150 150 150 15	Total Gailone Removed 0-20 0-79 0-79 1-19 1-39 h field paramete	Water Level (RTIC) 8,32 8,32 8,32 8,32 8,32 (three consecutions	10 '555 Temp. (Celeius) [3%]"	3C/46 3C/46 3MP5 pH i0.1 units 7,220 7,36 7,47 7,57 7,65 inscreed at 3- to 5	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) (10% or 1 NTUP 53 (40) 23 12 10 7	Signific 21 DO (mg/l) [10% or 0.1 mg/l) J Harry 5. 20 3.97 3.81 3.89 3.96 Solumn heading.	ORP (rav) [10 mv]*
745 950 955 1000 1005 1015 1020 The stabilization	Pump Rate (L/min.) 17-5 150 150 150 150 150 150 150 150 150 15	Total Gallons Removed 0 - 20 0 - 59 0 - 79 1 - 19 1 - 39 In field parameter 19 19 19 19 19 19 19 1	Water Level (RTIC) 8,32 8,32 8,32 8,32 8,32 (three consecutions	10 '555 Temp. (Celeius) [3%]"	3C/46 3C/46 3MP5 pH i0.1 units 7,220 7,36 7,47 7,57 7,65 inscreed at 3- to 5	Sp. Cond. (InS/cm) (3%)*	Turbidity (NTU) 110% or 1 NTUP 53 40 41 23 12 12 7	Signific 21 DO (mg/l) [10% or 0.1 mg/l) J Harry 5. 20 3.97 3.81 3.89 3.96 Solumn heading.	ORP (rav) [10 mv]*
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			<u>c</u>	GROUNDWAT	ER SAMPLI	NG LOG	,		
Well No.		5A			e/GMA Name ing Personnel Date Weather	GMA RAF 5 15/1 Cloucle	3 08 Mid	50s	
WELL INFORM	MATION - See I	Page 1				·	•		
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	p H [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1025	150	1.59	8.32	8.62	771	0.308	5	3 99	-124.1
1030		1.78	8 32	8.62	7.77	0308	4	404	-130c
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		ch field paramete WETHOD DEVIA		utive readings o	ollected at 3- to	5-minute interva	ls) is listed in each	column heading.	
		WA-1,			· · · · · · · · · · · · · · · · · · ·	·····			

[L/min.] Removed (NTIC) [3%]* [0.1 units]* [3%]* [10% or 1 NTUF [10% or 0.1 mg/lf* [10 mVf* 50 200 0.26 1/.58 — — — — — — — — — — — — — — — — — — —	Well	No)						_ 111 /3/1/ (C	
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Height of Reference Point	VELL INFO	DRMATION						Sample Tir	ne //C	20
Welton Total Spring Welton We							r	Sample	ID . 7	11513
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CUATION INFORMATION Pump Start Time 0945 Pump Start Time 0945 Pump Start Time 0945 Minutes of Pumping 115 Minutes of Pumping 115 Name of Water Removed 4-5 g u.ll p. p. Samples collected by same method as evacuation? ② N (specify) Water Quality Meter Type(s) / Sarial Numbers: ST 03600397 A C Hoch 2100P Tu.	rvelop?	Y (N)					()	-	,	()
CUATION INFORMATION Pump Start Time Pump Stop Time Minutes of Pumping Didwed Go Dry? Water Quality Meter Type(e) / Sorial Numbers: Pump Rate Gasione (PT) Pump Rate (Colestua) (RTIC) (RTIC		_					()			()
CUATION INFORMATION							(برز			· ×0 ;
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Pump Stop Time				•						
Pump Total Water Temp. pH Sp. Cond. Turbidity DO ORP (Mos/cm) (Mos	Min	utes of Pumping	115	רעם	,	Peristallic Pur	mp (X) Si	ubmersible Pump	, , ,	Specify ()
Time Rate (L/min.) Removed (R TIC) (Celeius) (III) (IIII) (III) (IIII) (III) (Min olume of \	utes of Pumping Water Removed Did Well Go Dry	115 4-5 qull	-	Vs1	Peristatic Pur Pump Type: Samples colle	mp X) Si Geo Pu icted by same in	ubmersible Pump wp 2 ethod as evacuation	() Other/s	ecify)
(Linsin.) Removed (RTIC) [3%]* [0.1 units]* [3%]* [10% or 1 NTUP [10% or 0.1 mg/lp [10 mVP 50 200 0.26 11.58 981 981	Min Jume of \	utes of Pumping Water Removed Did Well Go Dryf Water Quality	115 4-5 qull Y N	Serial Numbers:	Y57 5	Peristatic Pur Pump Type: Samples colle	mp X) Si Geo Pu icted by same in	ubmersible Pump wp 2 ethod as evacuation	() Other/s	ecify)
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05 150. 0.99 11.64 7.89 6.83 0.556 6 6.24 72.2 0 1.19 11.65 7.52 6.78 0.554 6 3.39 55.4 15 1.38 11.65 7.44 6.79 0.549 5 2.79 37.0 0 1.58 11.65 7.47 6.79 0.545 3 2.65 -100.2 5 1.78 11.65 7.51 6.80 0.539 4 2.41 -122.4 50 1.98 11.65 7.43 6.82 0.536 6 2.27 -132.8	Mini lume of 1	water Removed Water Removed Did Well Go Dryf Water Quality Pump Rate	Meter Type(s) /: Total Gailone	Serial Numbers: Water Level	Temp.	Peristatic Pur Pump Type: Samples colle	Sp. Cond. (ms/cm)	ethod as evacuation Turbidity (NTU)	() Other/s in? P N (sp // C.s.h DO (mg/l)	ORP
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1.19 11.65 7.52 6.78 0.554 6 3.39 55.4 1.38 11.65 7.44 6.79 0.549 5 2.79 37.0 1.58 11.65 7.47 6.79 0.545 3 2.65 -100.2 5 1.78 11.65 7.51 6.80 0.539 4 2.41 -122.4 30 1.98 11.65 7.43 6.82 0.536 2 2.27 -132.8	Mining of Victoria	water Removed of Weil Go Dry's Water Quality Water Quality Pump Rate (L/min.)	115 4-5 quill Y N Meter Type(s)/: Total Gallone Removed 0-26	Water Level (ft TIC)	Temp.	Peristatic Pur Pump Type: Samples colle	Sp. Cond. (mS/cm) [3%]*	thoreasible Pump P 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98	() Other/s in? P N (sp // C.s.h DO (mg/l)	ORP (mV)
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1.58 1.69 7.47 6.79 0.545 3 2.65 - 100.2 1.78 1.65 7.51 6.80 0.539 4 2.41 - 122.4 1.98 1.65 7.43 6.82 0.536 2 2.27 - 132.8	Minime of V	Water Removed Did Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200	Meter Type(s)/: Total Gailone Removed 0.26 0.43	Water Level (ft TIC) 11. S3 11. 64	Temp. (Celeius) [3%]*	Peristatic Pur Pump Type: Samples colle O 3 C C SC - M P J pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	turbidity (NTU) (10% or 1 NTUP	() Other/s on? P N (sp // c.s.h DO (mg/i) [10% or 0.1 mg/i	ORP (mV) [10 mV] 72.2
5 1.78 11:65 7.51 6.80 0.539 4 2.41 -122.4 50 1.98 11:65 7.43 6.82 0.536 2 2.27 -132.8	Minime of V	Water Removed Did Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200	115 4-5 qu. Y N Meter Type(s) / 15 Gallone Removed 0 - 2 G 0 - 3 9 / - / 9 / - / 9	Water Level (RTC) 11.58 11.64 11.65	Temp. (Celeius) [3%]*	Peristatic Pur Pump Type: Samples colle O 3 C T ST - M P J pH [0.1 units]*	Sp. Cond. (ms/cm) [3%]* 0.55% 0.55%	Turbidity (NTU) [10% or 1 NTUP 98	() Other/s m? ② N (spi // C.c. h DO (mg/l) [10% or 0.1 mg/l (e, 2 + 4) 3,39	ORP (mV) [10 mV) 70,2
50 1.98 11.65 7,43 6.82 0,536 6 2 2 27 -187 8	Min Volume of 1	Water Removed Did Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200	115 4.5 qull Y N	Water Lavel (RTC) 11.53 11.64 11.65 11.65	Temp. (Coloius) [3%]* - - 7,89 7,52 7,94	Peristatic Pur Pump Type: Samples colle O 3 C C SC - MPJ pH i0.1 units!*	Sp. Cond. (mS/cm) [3%]* 0.55% 0.55%	Turbidity (NTU) [10% or 1 NTUP 98 60 60 5	() Others (1) Others (mg/l) [10% or 0.1 mg/l (e, 2 4 3, 3 9 2, 7 9	ORP (mV) [10 mV] 72,2 55,4 37,0
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tabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading. RVATIONS/SAMPLING METHOD DEVIATIONS	Time 150 05 10 155 10 155 10 155 155 155 15	water Removed old Well Go Dry's Water Quelity Pump Rate (L/min.) 200 750.	115 4-5 qu. Y N	Water Level (RTC) 11.58 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65	7.89 7.52 7.94 7.52 7.94 7.51	Peristalic Pur Pump Type: Samples colle O3 CT SG-MPJ pH i0.1 units!* 	Sp. Cond. (ms/cm) [3%]* 0.55% 0.55% 0.55% 0.549 0.539	tubrierable Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 4 L	() Others 107 PN (spi 108 or 0.1 mg/ 10% or 0.1 mg/ 2, 24 3,39 2,79 2,79 2,41	ORP (mV) [10 mVp 72.2]
TVATIONS/SAMPLING METHOD DEVIATIONS	Time 50 05 10 15 30 15	water Removed old Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200 150 ISTO	115 4-5 qu Y N N N N N N N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
TVATIONS/SAMPLING METHOD DEVIATIONS	Minime of Victoria	water Removed old Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200 150 ISTO	115 4-5 qu Y N N N N N N N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
TVATIONS/SAMPLING METHOD DEVIATIONS	Minime of Victoria	water Removed old Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200 150 ISTO	115 4-5 qu Y N N N N N N N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
TVATIONS/SAMPLING METHOD DEVIATIONS	Minime of Victoria	water Removed old Well Go Dry's Water Quality Water Quality Pump Rate (L/min.) 200 150 ISTO	115 4-5 qu Y N N N N N N N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
val purge dark rusty brown in color. no noticable odor	Minima of V	water Removed Did Well Go Dry's Water Quelity Pump Rate (Linin.) 200 750.	115 4-5 qu Y N N N N N N N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
TYATIONS/SAMPLING METHOD DEVIATIONS	Minimo of victoria	water Removed Did Well Go Dry's Water Quelity Water Quelity Pump Rate (L/min.) 200 /50.	115 4-5 qu Y N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 5 3 L L a) is listed in each	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (L, Z + 3, 3 9 2, 7 9 2, 7 9 2, 14 1 3, 34 column heading.	ORP (mV) [10 mVp 72.2]
EDESTINATION VISITIONS LEAD PLACE dark rusty brown in color. no noticable odor. EDESTINATION VISITIONS VI	Minima of V	water Removed Did Well Go Dry's Water Quelity Water Quelity Pump Rate (L/min.) 200 750. ISO. NATION 565	115 4-5 qu Y N	Water Level (RTC) 11.64 11.65 11.65 11.65 11.65 11.65 11.65 11.65 11.65	Temp. (Coleium) [3%]* 7.89 7.52 7.94 7.57 7.97 7.97	Peristatic Pur Pump Type: Samples colle O 3 C C ST - MPJ pH j0.1 units f	mp X) Si Geo Pu cted by same m O 3 9 7 Sp. Cond. (mS/cm) [3%]* O .55% O .554 O .554 O .549 O .545 O .539 O .536 5-minute interval	ubmersible Pump MP 2 ethod as evacuation A C Turbidity (NTU) [10% or 1 NTUP 98 6 6 6 5 3 4 L a) is listed in each of the public part of the public par	() Other/s on? (P) N (spi Hach DO (mg/l) [10% or 0.1 mg/l (2.24 3.39 2.79 2.45 2.41 3.39 2.79 2.41 3.39	ORP (mV) [10 mVp 72.2]
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Time	Pump Rate	Total Gallons	Water Level	Temp. (Ceisius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	1 ' '	(110% or 0.1 mg/l)*	[10 mV]*
1035	150	2.18	11.65	7,45	683	0530		2,10	-1403
1040	150	2.38	11,64	7.49	6.83	0.527	1	1,97	-134,0
1045	150	2.57	11,64	7,43	10.83	0.505	a	1.89	-1410.
1050	150	2.77	11,64	7.49	6.84	0.521	7	1.83	-136,
1055	150	2.97	11.64	7,51	6.85	0.519	ر (1, 77	-132, 8
1100	150	3.17	11,64	7.46	6.85	0,517	2.	1.68.	131,4
105	150	3.37	11.64	7.46	6.86	0,515	7_		130,4
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Appendix D

Data Validation Report

Appendix D
Groundwater Sampling Data Validation Report
Groundwater Management Area 3 – Spring 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 between April and May 2008 as part of groundwater quality monitoring activities conducted at Groundwater Management Area 3, located within 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. (formerly Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data validation was performed for five PCB samples, 36 volatile organic compound (VOC) samples, eight semi-volatile organic compound (SVOC) samples, 25 metal samples, 25 anions samples, 25 RSD-175 samples, 25 alkalinity samples, and 25 dissolved organic carbon (DOC) 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 (as submitted by GE on March 30, 2007 following approval by EPA on March 15, 2007);
- Region I Tiered Organic and Inorganic Data Validation Guidelines, USEPA Region I (July 1, 1993);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, USEPA Region I (June 13, 1988) (Modified February 1989); 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 tabulated summary of the samples subject to Tier I and Tier II data review is presented in the following table.

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

		Tier I Only			Tier I &Tier II		
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCBs	0	0	0	3	1	1	5
VOCs	0	0	0	24	2	10	36
SVOCs	0	0	0	7	1	0	8
Metals	0	0	0	22	2	1	25

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

_		Tier I Only			Tier I &Tier II		
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
EPA 300.0	0	0	0	22	2	1	25
RSK-175	0	0	0	22	2	1	25
Alkalinity	0	0	0	22	2	1	25
DOC	0	0	0	22	2	1	25
Total	0	0	0	144	14	16	174

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	36	J
	1,4-Dioxane	36	J
	2-Butanone	31	J
	2-Chloroethylvinylether	30	J
	Acetone	36	J
	Acetonitrile	36	J
	Acrolein	36	J
	Acrylonitrile	31	J
	Isobutanol	36	J
	Methacrylonitrile	10	J
	Propionitrile	36	J
	trans-1,4-Dichloro-2-butene	36	J

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Phenylenediamine	1	J
	Hexachlorocyclopentadiene	1	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument response factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs 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	1,4-Dioxane	4	J
	2-Butanone	5	J
	2-Hexanone	3	J
	Acetone	10	J
	Acetonitrile	9	J
	Bromomethane	28	J
	Chloroethane	23	J
	Methylene Chloride	3	J
SVOCs	1-Naphthylamine	1	J
	2,4-Dinitrophenol	1	J
	2-Naphthylamine	1	J
	4-Nitroquinoline-1-oxide	1	J
	4-Phenylenediamine	1	J
	Hexachlorocyclopentadiene	1	J
	Hexachlorophene	1	J
	Methapyrilene	1	J

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

Analyte Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Iron	16	J

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

Compounds Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R
RSK-175	Methane	1	J

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

Compounds Qualified Due to MS/MSD RPD Deviations

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

Blank action levels for compounds/analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample results that were below the blank action level were qualified with a "U." The compounds/analytes detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Compounds/Analytes Qualified Due to Blank Deviations

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
VOCs	Methylene Chloride	2	U
	Xylenes (total)	1	U
Miscellaneous	Dissolved Organic Carbon	2	U
	Chloride	1	U

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 compound that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification		
VOCs	Methylene Chloride	3	J		

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

Compound Qualified Due to LCS/LCSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Iodomethane	4	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	99.9	A total of one sample result was rejected due to an MS/MSD recovery deviation.				
SVOCs	100	None				
PCBs	100	None				
Metals	100	None				

Data Usability

Parameter	Percent Usability	Rejected Data
EPA 300.0	100	None
RSK-175	100	None
Alkalinity	100	None
DOC	100	None

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates, MS/MSD samples, and LCS/LCSD samples. For this analytical program, 0.16% of the data required qualification due to LCS/LCSD RPD deviations and 0.33% of the data required qualification due to MS/MSD RPD deviations. None of the data required qualification due to field duplicate RPD deviations.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 19.9% of the data required qualification due to instrument calibration deviations, 0.12% of the data required qualification due to MS/MSD recovery deviations, and 0.66% of the data required qualification due to CRDL recovery deviations. None of the data required qualification due to surrogate compound recovery deviations or internal standard recovery deviations.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter, which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed

by collecting samples at locations specified in the EPA-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with EPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical data set, none of the data required qualification due to holding time deviations.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the groundwater samples collected between April and May 2008 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 6000/7000 for metals, 300.0 for anions, RSK-175 for methane, ethane, and ethene, 2320B for alkalinity, and 9060A for dissolved organic carbon.

5.5 Completeness

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

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery Group No. CBs	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
35-658	82B-R (Filtered)	5/2/2008	Water	Tier II	Yes	Aroclor-1016	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	T
00 000	(,	0/2/2000	*******	110111	100	Aroclor-1221	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1232	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1242	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1248	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1254	MS/MSD RPD	34.5%	<12%	ND(0.000068) J	
						Aroclor-1260 Total PCBs	MS/MSD RPD MS/MSD RPD	34.5% 34.5%	<12% <12%	ND(0.000068) J ND(0.000068) J	
135-658	GMA3-DUP-3 (Filtered)	5/2/2008	Water	Tier II	No	Total PCBs	M9/M9D RPD	34.5%	<12%	ND(0.000068) J	Duplicate of 82B-R (Filtered)
135-669	114A (Filtered)	5/13/2008	Water	Tier II	No						Duplicate of 62B-R (Filtered)
135-669	114B-R (Filtered)	5/13/2008	Water	Tier II	No						
135-673	GMA3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						
etals											
135-656	39B-R (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-656	39D-R (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0401 J	
135-656	43A (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-656	43B (Filtered)	4/30/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0246 J	Dualisate of ADD (Filtered)
135-656 135-657	GMA3-DUP#1 (Filtered) 16A (Filtered)	4/30/2008 5/1/2008	Water Water	Tier II	Yes No	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0199 J	Duplicate of 43B (Filtered)
135-657	16A (Filtered) 16B-R (Filtered)	5/1/2008	Water	Tier II	No Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0246 J	
135-657	16C-R (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-657	2A (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
135-657	GMA3-DUP2 (Filtered)	5/1/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	Duplicate of 2A (Filtered)
135-659	89A (Filtered)	5/5/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	129.0%	80% to 120%	ND(0.100) J	
135-659	89B (Filtered)	5/5/2008	Water	Tier II	No						
135-659	89D-R (Filtered)	5/5/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	129.0%	80% to 120%	0.141 J	
135-661	111A-R (Filtered)	5/6/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0432 J	
135-661	39E (Filtered)	5/6/2008	Water	Tier II	No						
135-662	95B-R (Filtered)	5/8/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	127.0%	80% to 120%	0.0214 J	
135-669 135-669	114A (Filtered) 114B-R (Filtered)	5/13/2008 5/13/2008	Water Water	Tier II	No No						
135-669	111B-R (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	0.0449 J	
135-671	90A (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	0.0211 J	
135-671	90B (Filtered)	5/14/2008	Water	Tier II	No	li Oii	ONDE Glandard 7010	150.070	0070 to 12070	0.02110	
135-671	95A (Filtered)	5/14/2008	Water	Tier II	Yes	Iron	CRDL Standard %R	130.0%	80% to 120%	ND(0.100) J	
135-673	115A (Filtered)	5/15/2008	Water	Tier II	No					(
135-673	115B (Filtered)	5/15/2008	Water	Tier II	No						
135-673	GMA3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						
0Cs											
135-656	39B-R	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(2.0) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(40) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.035 0.018	>0.05 >0.05	ND(2.0) J ND(5.0) J	
						Acetone	ICAL RRF	0.018	>0.05	ND(3.0) J ND(2.0) J	
						Acetonie	ICAL RRF	0.009	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.03	>0.05	ND(10) J	
						Acrylonitrile Bromomethane	CCAL %D	0.03 48.0%	<25%	ND(0.40) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	0.03 48.0% 54.2%	<25% <25%	ND(0.40) J ND(0.40) J	
						Bromomethane Chloroethane Isobutanol	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003	<25% <25% >0.05	ND(0.40) J ND(0.40) J ND(20) J	
						Bromomethane Chloroethane Isobutanol Propionitrile	CCAL %D CCAL %D ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011	<25% <25% >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J	
						Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025	<25% <25% >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011	<25% <25% >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J	
35-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane	CCAL %D CCAL %D ICAL RRF ICAL RRF ICAL RRF ICAL RRF ICAL RRF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.10) J	
35-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5%	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 <25%	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(0.0050) J ND(0.10) J ND(0.10) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propinitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6%	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <0.05 >0.05 <25% <25%	ND(0.40) J ND(0.40) J ND(20) J ND(20) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propinitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetonie Acetonie	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009	<25% <25% <20.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05	ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(2.0) J ND(0.0050) J ND(0.10) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Diokloro-2-butene 1,2-Dibromo-3-chioropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acetonitrile Bromomethane Isobutanol	CCAL %D CCAL %D CCAL RVD ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1%	<25% <25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(20) J ND(20) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetonitrile Acrolein Bromomethane Isobutanol Methacrylontrile	CCAL %D CCAL %D CCAL RF ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <225% >0.05 <225% >0.05 <225% >0.05 <25% >0.05 <0.05 <25% >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.050) J ND(0.020) J ND(0.020) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.050) J ND(0.050) J	
135-656	39D-R	4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acrolein Bromomethane Isobutanol Methacrylonitrile Methacrylonitrile	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >2.5% >0.05 >0.05 >0.05 >0.05 >0.05 <25% <25% <25% <25% <25% >0.05 <26% <2.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(2.0) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.020) J	
						Bromomethane Chloroethane Isobutanol Propionitrile trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetonitrile Bromomethane Isobutanol Methacrylonitrile Propionitrile Propionitrile Propionitrile Irans-1,4-Dichloro-2-butene	CCAL %D CCAL %D CCAL RF CAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.009 0.009 0.016 0.017	<25% <25% >25% >0.05 >0.05 >0.05 >0.05 >0.05 >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <25% >0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(0.40) J ND(20) J ND(8.0) J ND(0.0050) J	
135-656	39D-R	4/30/2008 4/30/2008	Water	Tier II	Yes	Bromomethane Chioroethane Isobutanol Propionitrile Itrans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane 1,4-Dioxane 2-Butanone Acetone Acetone Acetone Acrolein Bromomethane Isobutanol Methacrylonitrile Methacrylonitrile	CCAL %D CCAL %D ICAL RRF	0.03 48.0% 54.2% 0.003 0.011 0.025 0.011 0.001 31.5% 0.033 60.6% 0.009 0.026 26.1% 0.005	<25% <25% >2.5% >0.05 >0.05 >0.05 >0.05 >0.05 <25% <25% <25% <25% <25% >0.05 <26% <2.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	ND(0.40) J ND(0.40) J ND(2.0) J ND(2.0) J ND(2.0) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.0050) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.025) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.010) J ND(0.020) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (continued)	campio is	Date comedica	muun	2010.	quamounon	Join pound	2,0201 aramotor	Value	John C. Limito	Qualifica Hoodit	Heles
35-656 43A		4/30/2008	Water	Tier II	Yes	Acetone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
					Acetone Acetonitrile	CCAL %D ICAL RRF	60.6% 0.009	<25% >0.05	ND(0.0050) J ND(0.020) J		
						Acrolein	ICAL RRF	0.009	>0.05	ND(0.020) J ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.005	>0.05	ND(0.050) J	
					Methacrylonitrile	ICAL RRF	0.009	>0.05	ND(0.010) J		
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.016 0.017	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
135-656 43B		4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.017	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	0.041 J	
						2-Butanone	CCAL %D	31.5%	<25%	ND(0.0050) J	
						Acetone Acetone	ICAL RRF CCAL %D	0.033 60.6%	>0.05 <25%	ND(0.0050) J ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.005	>0.05	ND(0.050) J ND(0.010) J	
						Methacrylonitrile Propionitrile	ICAL RRF	0.009	>0.05 >0.05	ND(0.010) J ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
135-656 GMA3-I	-DUP#1	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.011	>0.05	ND(0.0050) J	Duplicate of 43B
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone Acetone	CCAL %D ICAL RRF	31.5% 0.033	<25% >0.05	ND(0.0050) J ND(0.0050) J	
						Acetone	CCAL %D	60.6%	<25%	ND(0.0050) J	
						Acetonic	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF ICAL RRF	0.005 0.009	>0.05 >0.05	ND(0.050) J ND(0.010) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.010) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
135-656 TripBlai	ank	4/30/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.011	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	CCAL %D ICAL RRF	31.5% 0.033	<25% >0.05	ND(0.0050) J 0.0040 J	
						Acetone Acetone	CCAL %D	60.6%	>0.05 <25%	0.0040 J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	26.1%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF ICAL RRF	0.005 0.009	>0.05 >0.05	ND(0.050) J ND(0.010) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.010) J ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.017	>0.05	ND(0.0050) J	
35-657 16A		5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(10) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(200) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(10) J ND(25) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(10) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(40) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(50) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(50) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	47.2% 53.7%	<25% <25%	ND(2.0) J ND(2.0) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(2.0) J ND(100) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(40) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(10) J	
35-657 16B-R		5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001 0.035	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	MSD %R	0.035	16.7% to 200%	ND(0.0050) J R	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
1					1	Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (conti	inued)										
35-657 16B-R	5/1/2008	Water	Tier II	Yes	Bromomethane	CCAL %D	48.0%	<25%	ND(0.0010) J		
						Chloroethane Iodomethane	CCAL %D LCS/LCSD RPD	54.2% 102.0%	<25% <30%	ND(0.0010) J ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0010) J ND(0.050) J	
						Propionitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
				ater Tier II		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-657	16C-R	5/1/2008	Water		Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether Acetone	ICAL RRF ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
						Acetonie	ICAL RRF	0.009	>0.05	ND(0.0030) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	48.0%	<25%	ND(0.0010) J	
						Chloroethane	CCAL %D	54.2%	<25%	ND(0.0010) J	
						Iodomethane	LCS/LCSD RPD ICAL RRF	102.0%	<30%	ND(0.0010) J ND(0.050) J	
						Isobutanol Propionitrile	ICAL RRF	0.003	>0.05 >0.05	ND(0.050) J ND(0.020) J	1
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	1
35-657	2A	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(50) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(1000) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(50) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(130) J	
						Acetone Acetonitrile	ICAL RRF ICAL RRF	0.021 0.009	>0.05 >0.05	ND(50) J ND(200) J	
						Acrolein	ICAL RRF	0.009	>0.05	ND(250) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(250) J		
						Bromomethane	CCAL %D	47.2%	<25%	ND(10) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(10) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(500) J	
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.011 0.025	>0.05 >0.05	ND(200) J ND(50) J	
35-657	GMA3-DUP2	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(50) J	Duplicate of 2A
35 051	GWAS BOLZ	3/1/2000	water	TICI II	103	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(1000) J	Duplicate of 2A
						2-Butanone	ICAL RRF	0.035	>0.05	ND(50) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(130) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(50) J	
						Acetonitrile	ICAL RRF ICAL RRF	0.009	>0.05	ND(200) J	
						Acrolein Acrylonitrile	ICAL RRF	0.017 0.030	>0.05 >0.05	ND(250) J ND(250) J	
						Bromomethane	CCAL %D	47.2%	<25%	ND(10) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(10) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(500) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(200) J	
E 053	7: 8: 1	5/4/0000				trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(50) J	
5-657	TripBlank	5/1/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05	ND(0.0050) J	
						2-Butanone	ICAL RRF	0.001	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.033	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
						Bromomethane Chloroethane	CCAL %D CCAL %D	48.0% 54.2%	<25% <25%	ND(0.0010) J ND(0.0010) J	
						Iodomethane	LCS/LCSD RPD	102.0%	<30%	ND(0.0010) J ND(0.0010) J	1
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0510) J	1
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
				<u> </u>		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
5-658	51-14	5/2/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	1
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
						2-Chloroethylvinylether Acetone	ICAL RRF	0.018	>0.05	ND(0.013) J ND(0.0050) J	
		1				Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No. Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes	
VOCs (continued)	T				T	I		T			
G135-658 51-14	5/2/2008	Water	Tier II	Yes	Acrolein Acrylonitrile	ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.025) J ND(0.025) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(0.023) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.0010) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J		
					Propionitrile	ICAL RRF ICAL RRF	0.011	>0.05	ND(0.020) J		
G135-658 6B-R	5/2/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(1.0) J		
0.00 000	0/2/2000	*******	TICI II	100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(20) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(1.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(2.5) J		
					Acetone Acetonitrile	ICAL RRF	0.021 0.009	>0.05 >0.05	ND(1.0) J ND(4.0) J		
					Acrolein	ICAL RRF	0.009	>0.05	ND(4.0) J ND(5.0) J		
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(5.0) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(0.20) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.20) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(10) J		
					Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.011 0.025	>0.05 >0.05	ND(4.0) J ND(1.0) J		
G135-658 Trip Blank	5/2/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(1.0) 3 ND(0.0050) J		
O 100 000 Trip Blank	0/2/2000	water	TICI II	103	1.4-Dioxane	ICAL RRF	0.023	>0.05	ND(0.10) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J		
					Acetonitrile	ICAL RRF ICAL RRF	0.009 0.017	>0.05	ND(0.020) J ND(0.025) J		
					Acrolein Acrylonitrile	ICAL RRF	0.017	>0.05 >0.05	ND(0.025) J ND(0.025) J		
					Bromomethane	CCAL %D	48.0%	<25%	ND(0.023) J		
					Chloroethane	CCAL %D	54.2%	<25%	ND(0.0010) J		
					Iodomethane	LCS/LCSD RPD	102.0%	<30%	ND(0.0010) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J		
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
G135-659 89A	5/5/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(5.0) J		
G155-059 B5A	3/3/2000	vvater	i lei ii		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(100) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(5.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(13) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(5.0) J		
					Acetonitrile Acrolein	ICAL RRF	0.009	>0.05 >0.05	ND(20) J ND(25) J		
					Acrylonitrile	ICAL RRF	0.017	>0.05	ND(25) J ND(25) J		
					Bromomethane	CCAL %D	47.2%	<25%	ND(1.0) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(1.0) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(50) J		
					Propionitrile	ICAL RRF	0.011	>0.05	ND(20) J		
G135-659 89B	5/5/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025 0.025	>0.05	ND(5.0) J ND(0.010) J		
3133-033 03D	3/3/2006	vvalei	i iei ii	res	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025	>0.05 >0.05	ND(0.010) J ND(0.20) J		
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.010) J		
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.025) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(0.010) J		
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.040) J		
					Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.050) J ND(0.050) J		
					Bromomethane	CCAL %D	47.2%	>0.05 <25%	ND(0.000) J ND(0.0020) J		
					Chloroethane	CCAL %D	53.7%	<25%	ND(0.0020) J		
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.10) J		
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.040) J		
2405.050	E IE 10000	144			trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.010) J		
G135-659 89D-R	5/5/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025 0.001	>0.05 >0.05	ND(8.0) J ND(160) J		
					1,4-Dioxane 2-Butanone	ICAL RRF	0.001	>0.05 >0.05	ND(160) J ND(8.0) J		
					2-Chloroethylvinylether	ICAL RRF	0.035	>0.05	ND(20) J		
					Acetone	ICAL RRF	0.021	>0.05	ND(8.0) J		
	1			1	Acetonitrile	ICAL RRF	0.009	>0.05	ND(32) J		

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery iroup No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (continued)											
35-659 89D-R	₹	5/5/2008	Water	Tier II	Yes	Acrolein	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(40) J ND(40) J	
						Acrylonitrile Bromomethane	CCAL %D	47.2%	>0.05 <25%	ND(40) J ND(1.6) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(1.6) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(80) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(32) J	
		E (E (0.0.0.0		Tior II		trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(8.0) J	
5-659 TripBla	lank	5/5/2008	5/5/2008 Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.001	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.017 0.030	>0.05 >0.05	ND(0.025) J ND(0.025) J	
						Bromomethane	CCAL %D	47.2%	<25%	ND(0.025) J ND(0.0010) J	
						Chloroethane	CCAL %D	53.7%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
35-661 111A-	D	5/6/2008	Water Tie	er Tier II	Yes	trans-1,4-Dichloro-2-butene	ICAL RRF ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-661 111A-	-к	5/6/2008	vvater	Herii	res	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.012 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.014	>0.05	ND(0.013) J	
						2-Hexanone	CCAL %D	34.2%	<25%	ND(0.0050) J	
						Acetone	ICAL RRF	0.017	>0.05	ND(0.0050) J	
					Acetonitrile Acrolein	ICAL RRF	0.006 0.015	>0.05 >0.05	ND(0.020) J ND(0.025) J		
					Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J		
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methylene Chloride	CCAL %D	44.5%	<25%	ND(0.0050) J	
						Methylene Chloride	LCSD %R	64.2%	72.9% to 120%	ND(0.0050) J	
					Yes	Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.009 0.020	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
						Xylenes (total)	Trip Blank	0.020	>0.05	ND(0.0050) J ND(0.0010)	
35-661 39E		5/6/2008	Water	Tier II		1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.033	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF CCAL %D	0.014 34.2%	>0.05	ND(0.013) J	
						2-Hexanone Acetone	ICAL RRF	0.017	<25% >0.05	ND(0.0050) J ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.015	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methylene Chloride Methylene Chloride	CCAL %D LCSD %R	44.5% 64.2%	<25% 72.9% to 120%	ND(0.0050) J ND(0.0050) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
5-661 Trip B	Blank	5/6/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.033 0.014	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
						2-Hexanone	CCAL %D	34.2%	>0.05 <25%	ND(0.013) J ND(0.0050) J	
1						Acetone	ICAL RRF	0.017	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
1						Acrolein	ICAL RRF	0.015	>0.05	ND(0.025) J	
1						Acrylonitrile	ICAL RRF	0.027	>0.05	ND(0.025) J	
						Isobutanol Methylene Chloride	ICAL RRF CCAL %D	0.003 44.5%	>0.05 <25%	ND(0.050) J ND(0.0050) J	
						Methylene Chloride	LCSD %R	64.2%	72.9% to 120%	ND(0.0050) J	
						Propionitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.020	>0.05	ND(0.0050) J	
-662 95B-R	5/8/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(2.0) J	·	
5-662 95B-R	₹	5/8/2008	vvalei	TICITI		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(40) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (conti						Сотрони	4.7 40 / 4.8 40	1			
G135-662	95B-R	5/8/2008	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(5.0) J	
						Acetone Acetone	ICAL RRF CCAL %D	0.023 26.1%	>0.05 <25%	ND(2.0) J ND(2.0) J	
						Acetonie	ICAL RRF	0.008	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(10) J	
						Isobutanol	ICAL RRF ICAL RRF	0.003	>0.05	ND(20) J	
						Methacrylonitrile Methylene Chloride	Method Blank	0.007	>0.05	ND(4.0) J ND(2.0)	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(8.0) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(2.0) J	
G135-662	TripBlank	5/8/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001 0.043	>0.05 >0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.023	>0.05	0.0041 J	
						Acetone	CCAL %D	26.1%	<25%	0.0041 J	
						Acetonitrile	ICAL RRF	0.008 0.024	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrolein Acrylonitrile	ICAL RRF	0.024	>0.05	ND(0.025) J ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.007	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.020) J	
G135-669	114A	5/13/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF ICAL RRF	0.029 0.016	>0.05 >0.05	ND(0.0050) J ND(0.0050) J	
G133-009	1144	5/13/2006	water	i iei ii	res	1,4-Dioxane	ICAL RRF	0.016	>0.05	ND(0.0030) J	
						2-Butanone	ICAL RRF	0.043	>0.05	0.011 J	
						2-Chloroethylvinylether	ICAL RRF	0.027	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.023	>0.05	0.15 J	
						Acetone Acetonitrile	CCAL %D ICAL RRF	26.1% 0.008	<25% >0.05	0.15 J ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF ICAL RRF	0.007 0.013	>0.05 >0.05	ND(0.010) J ND(0.020) J	
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.013	>0.05	ND(0.020) J	
G135-669	114B-R	5/13/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.016	>0.05	ND(0.20) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(4.0) J	
						2-Butanone	ICAL RRF	0.043	>0.05	ND(0.20) J	
						2-Chloroethylvinylether Acetone	ICAL RRF	0.027 0.023	>0.05 >0.05	ND(0.50) J ND(0.20) J	
						Acetone	CCAL %D	26.1%	<25%	ND(0.20) J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.80) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(1.0) J	
						Acrylonitrile	ICAL RRF	0.041	>0.05	ND(1.0) J	
						Isobutanol Methacrylonitrile	ICAL RRF	0.003 0.007	>0.05 >0.05	ND(2.0) J ND(0.40) J	
						Methylene Chloride	Method Blank	0.007		ND(0.40) 3 ND(2.0)	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.80) J	
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(0.20) J	
G135-669	TripBlank	5/13/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1.4-Dioxane	ICAL RRF	0.016 0.001	>0.05 >0.05	ND(0.0050) J	
						1,4-Dioxane 2-Butanone	ICAL RRF	0.001	>0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.043	>0.05	ND(0.0030) J	
						Acetone	ICAL RRF	0.023	>0.05	0.0041 J	
						Acetone	CCAL %D	26.1%	<25%	0.0041 J	
						Acetonitrile	ICAL RRF	0.008	>0.05	ND(0.020) J	
						Acrolein Acrylonitrile	ICAL RRF ICAL RRF	0.024 0.041	>0.05 >0.05	ND(0.025) J ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	ICAL RRF	0.007	>0.05	ND(0.010) J	
						Propionitrile	ICAL RRF	0.013	>0.05	ND(0.020) J	
0405.074	444D D	F/4 / /0000	14/	T "		trans-1,4-Dichloro-2-butene	ICAL RRF	0.029	>0.05	ND(0.0050) J	
G135-671	111B-R	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery			Validation							
Group No. Sample ID OCs (continued)	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
135-671 111B-R	5/14/2008	Water	Tier II	Yes	2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
				2-Chloroethylvinylether ICAL RRF		0.018	>0.05	ND(0.013) J		
					Acetone Acetonitrile	ICAL RRF ICAL RRF	0.021 0.009	>0.05 >0.05	ND(0.0050) J ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane Chloroethane	CCAL %D CCAL %D	48.8% 52.0%	<25% <25%	ND(0.0010) J ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
					trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-671 90A	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile Acetonitrile	ICAL RRF CCAL %D	0.009 44.4%	>0.05 <25%	ND(0.020) J ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane	CCAL %D	48.8%	<25%	ND(0.0010) J	
					Chloroethane Isobutanol	CCAL %D ICAL RRF	52.0%	<25%	ND(0.0010) J	
					Propionitrile	ICAL RRF	0.003 0.011	>0.05 >0.05	ND(0.050) J ND(0.020) J	
					trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
135-671 90B	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
					1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
					2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile Bromomethane	CCAL %D	48.8%	>0.05 <25%	ND(0.025) J ND(0.0010) J	
					Chloroethane	CCAL %D	52.0%	<25%	ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
135-671 95A	5/14/2008	Water	Tier II	Yes	trans-1,4-Dichloro-2-butene 1,2-Dibromo-3-chloropropane	ICAL RRF	0.025 0.025	>0.05 >0.05	ND(0.0050) J ND(0.0050) J	
55 57 1	0/1//2000	*******	1101 11	100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
					2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J	
					2-Chloroethylvinylether Acetone	ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0050) J ND(0.020) J	
					Acetonitrile	CCAL %D	44.4%	<25%	ND(0.020) J	
					Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane Chloroethane	CCAL %D CCAL %D	48.8% 52.0%	<25% <25%	ND(0.0010) J ND(0.0010) J	
					Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
					Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J	
	#1: ::	144			trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J	
35-671 Trip Blank	5/14/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
					2-Butanone	ICAL RRF	0.001	>0.05	ND(0.10) J ND(0.0050) J	
					2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J	
1					Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	
					Acetonitrile Acrolein	CCAL %D ICAL RRF	44.4% 0.017	<25% >0.05	ND(0.020) J ND(0.025) J	
					Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J	
					Bromomethane	CCAL %D	48.8%	<25%	ND(0.0010) J	
					Chloroethane Isobutanol	CCAL %D ICAL RRF	52.0% 0.003	<25% >0.05	ND(0.0010) J ND(0.050) J	

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample Delivery Group No.		Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes					
/OCs (cont		5/44/0000				In the second	lion ppr	0.044	0.05	ND(0.000) 1						
6135-671	Trip Blank	5/14/2008	Water	Tier II	Yes	Propionitrile trans-1.4-Dichloro-2-butene	ICAL RRF	0.011 0.025	>0.05 >0.05	ND(0.020) J ND(0.0050) J						
135-673	115A	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J						
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.035 0.018	>0.05 >0.05	ND(0.0050) J ND(0.013) J						
						Acetone	ICAL RRF	0.018	>0.05	ND(0.013) J ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J						
						Acetonitrile	CCAL %D	33.3%	<25%	ND(0.020) J						
						Acrolein	ICAL RRF	0.017	>0.05 >0.05	ND(0.025) J						
						Acrylonitrile Bromomethane	CCAL %D	0.030 39.0%	>0.05 <25%	ND(0.025) J ND(0.0010) J						
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
105 670	11ED	E/4E/0000	Mot	T7 0	Y	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
135-673	115B	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1,4-Dioxane	ICAL RRF ICAL RRF	0.025 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J						
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.013) J						
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J ND(0.020) J						
					Acetonitrile		ND(0.025) J									
						>0.05	ND(0.025) J									
						Bromomethane CCAL %D 39.0% <25	<25%	ND(0.0010) J								
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile trans-1,4-Dichloro-2-butene	ICAL RRF	0.011 0.025	>0.05 >0.05	ND(0.020) J ND(0.0050) J						
3135-673 GMA3-RB-1	GMA3-RB-1	5/15/2008	Water	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	
				Herli	165	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J						
						1,4-Dioxane	CCAL %D	26.2%	<25%	ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.0050) J						
						2-Chloroethylvinylether Acetone	ICAL RRF ICAL RRF	0.018 0.021	>0.05 >0.05	ND(0.013) J ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.0030) J						
						Acetonitrile	CCAL %D	33.3%	<25%	ND(0.020) J						
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J						
						Acrylonitrile	ICAL RRF	0.030	>0.05	ND(0.025) J						
						Bromomethane Chloroethane	CCAL %D CCAL %D	39.0% 46.9%	<25% <25%	ND(0.0010) J ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	<25% >0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
						trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
135-673	TripBlank	5/15/2008	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.025	>0.05	ND(0.0050) J	<u> </u>					
						1,4-Dioxane 1,4-Dioxane	ICAL RRF CCAL %D	0.001 26.2%	>0.05 <25%	ND(0.10) J ND(0.10) J						
						2-Butanone	ICAL RRF	0.035	<25% >0.05	ND(0.10) J ND(0.0050) J						
						2-Chloroethylvinylether	ICAL RRF	0.018	>0.05	ND(0.0030) J						
						Acetone	ICAL RRF	0.021	>0.05	ND(0.0050) J						
						Acetonitrile	ICAL RRF	0.009	>0.05	ND(0.020) J	·					
						Acetonitrile	CCAL %D ICAL RRF	33.3% 0.017	<25% >0.05	ND(0.020) J						
						Acrolein Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J ND(0.025) J						
						Bromomethane	CCAL %D	39.0%	<25%	ND(0.023) 3 ND(0.0010) J						
						Chloroethane	CCAL %D	46.9%	<25%	ND(0.0010) J						
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J						
						Propionitrile	ICAL RRF	0.011	>0.05	ND(0.020) J						
100-	1			1	1	trans-1,4-Dichloro-2-butene	ICAL RRF	0.025	>0.05	ND(0.0050) J						
/OCs 135-656	39B-R	4/30/2008	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	67.4%	<25%	ND(0.26) J						
100-000	33D-IX	4/30/2008	vvalei	i iei ii	168	2,4-Dinitrophenol	CCAL %D	53.0%	<25% <25%	ND(0.26) J ND(0.26) J						
	1			1	1	2-Naphthylamine	CCAL %D	71.1%	<25%	ND(0.26) J						

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (cont	tinued)					•	<u>'</u>				•
	39B-R	4/30/2008	Water	Tier II	Yes	4-Nitroquinoline-1-oxide	CCAL %D	45.3%	<25%	ND(0.26) J	
						4-Phenylenediamine	ICAL RRF	0.033	>0.05	ND(0.11) J	
						4-Phenylenediamine	CCAL %D	26.3%	<25%	ND(0.11) J	
						Hexachlorocyclopentadiene	ICAL RRF CCAL %D	0.018 40.5%	>0.05 <25%	ND(0.11) J ND(0.11) J	
						Hexachlorocyclopentadiene Hexachlorophene	CCAL %D	32.8%	<25%	ND(0.053) J	
						Methapyrilene	CCAL %D	100.0%	<25%	ND(0.053) J	
G135-657	16A	5/1/2008	Water	Tier II	No					(*****/**	
	2A	5/1/2008	Water	Tier II	No						
G135-657	GMA3-DUP2	5/1/2008	Water	Tier II	No						Duplicate of 2A
G135-659 G135-659	89A 89B	5/5/2008 5/5/2008	Water Water	Tier II	No No						
G135-662	95B-R	5/8/2008	Water	Tier II	No						
	95A	5/14/2008	Water	Tier II	No						
Sulfate, Chlo	oride, Nitrite, Nitrate										'
G135-656	39B-R	4/30/2008	Water	Tier II	No						
G135-656	39D-R	4/30/2008	Water	Tier II	No						
G135-656	43A	4/30/2008	Water	Tier II	No			_			
G135-656 G135-656	43B GMA3-DUP#1	4/30/2008 4/30/2008	Water Water	Tier II	No No			_			Duplicate of 43B
G135-657	16A	5/1/2008	Water	Tier II	No						Duplicate of 43B
G135-657	16B-R	5/1/2008	Water	Tier II	No						
G135-657	16C-R	5/1/2008	Water	Tier II	No						
G135-657	2A	5/1/2008	Water	Tier II	No						
G135-657	GMA3-DUP2	5/1/2008	Water	Tier II	No						Duplicate of 2A
G135-659	89A	5/5/2008	Water	Tier II	No						
G135-659 G135-659	89B 89D-R	5/5/2008 5/5/2008	Water Water	Tier II Tier II	No No						
G135-661	111A-R	5/6/2008	Water	Tier II	No						
G135-661	39E	5/6/2008	Water	Tier II	No						
G135-662	95B-R	5/8/2008	Water	Tier II	No						
G135-669	114A	5/13/2008	Water	Tier II	No						
G135-669	114B-R	5/13/2008	Water	Tier II	No						
G135-671	111B-R	5/14/2008	Water	Tier II	No						
G135-671 G135-671	90A 90B	5/14/2008 5/14/2008	Water Water	Tier II Tier II	No No						
G135-671	95A	5/14/2008	Water	Tier II	No						
G135-673	115A	5/15/2008	Water	Tier II	Yes	Chloride	Rinse Blank	-	-	ND(0.3)	
G135-673	115B	5/15/2008	Water	Tier II	No						
G135-673	GMA3-RB-1	5/15/2008	Water	Tier II	No						
	hane, Ethene-RSK-175								,		
G135-656 G135-656	39B-R 39D-R	4/30/2008 4/30/2008	Water Water	Tier II Tier II	No No			_			
G135-656	43A	4/30/2008	Water	Tier II	No	+		-			<u> </u>
G135-656	43B	4/30/2008	Water	Tier II	No						
G135-656	GMA3-DUP#1	4/30/2008	Water	Tier II	No						Duplicate of 43B
G135-657	16A	5/1/2008	Water	Tier II	No					•	
G135-657	16B-R	5/1/2008	Water	Tier II	Yes	Methane	MSD %R	68.6%	70.0% to 130%	1.52 J	
G135-657	16C-R	5/1/2008 5/1/2008	Water	Tier II Tier II	No No			_			
G135-657 G135-657	GMA3-DUP2	5/1/2008	Water Water	Tier II	No No	+					Duplicate of 2A
G135-659	89A	5/5/2008	Water	Tier II	No	+					Dapriodic of En
G135-659	89B	5/5/2008	Water	Tier II	No						
G135-659	89D-R	5/5/2008	Water	Tier II	No						
G135-661	111A-R	5/6/2008	Water	Tier II	No						
G135-661	39E	5/6/2008	Water	Tier II	No						
G135-662 G135-669	95B-R 114A	5/8/2008 5/13/2008	Water Water	Tier II Tier II	No No	+		_			
G135-669	114A 114B-R	5/13/2008	Water	Tier II	No	+	+	+			1
G135-669	111B-R	5/14/2008	Water	Tier II	No	†					
G135-671	90A	5/14/2008	Water	Tier II	No						
G135-671	90B	5/14/2008	Water	Tier II	No						
G135-671	95A	5/14/2008	Water	Tier II	No					•	
G135-673	115A	5/15/2008	Water	Tier II	No	1					
G135-673 G135-673	115B GMA3-RB-1	5/15/2008 5/15/2008	Water Water	Tier II Tier II	No No	+					1
0100-013	OWAS-KD-1	3/ 13/2000	vvalU	I I I I I I	NU	1			1		1

Table D-1 Analytical Data Validation Summary Groundwater Management Area 3 - Spring 2008

Sample											
Delivery				Validation							
Froup No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
alinity											
35-656 39B-R		4/30/2008	Water	Tier II	No						
135-656 39D-R	R	4/30/2008	Water	Tier II	No						
135-656 43A		4/30/2008	Water	Tier II	No						
135-656 43B		4/30/2008	Water	Tier II	No						
	3-DUP#1	4/30/2008	Water	Tier II	No						Duplicate of 43B
135-657 16A	_	5/1/2008	Water	Tier II	No						
135-657 16B-R		5/1/2008	Water	Tier II	No						
135-657 16C-R	R	5/1/2008	Water	Tier II	No						
135-657 2A	0 BUB0	5/1/2008	Water	Tier II	No						D II + 101
	3-DUP2	5/1/2008 5/5/2008	Water Water	Tier II	No No						Duplicate of 2A
			Water	Tier II	No No						
135-659 89B 135-659 89D-R	D	5/5/2008 5/5/2008	Water	Tier II	No						
135-659 89D-N		5/5/2008	Water	Tier II	No						
135-661 39E	-iv	5/6/2008	Water	Tier II	No No			1			
135-662 95B-R	n	5/8/2008	Water	Tier II	No						
135-662 956-R 135-669 114A		5/13/2008	Water	Tier II	No						
135-669 114B-		5/13/2008	Water	Tier II	No						
1135-669 114B- 1135-671 111B-		5/14/2008	Water	Tier II	No						
135-671 90A	r-IX	5/14/2008	Water	Tier II	No						
135-671 90B		5/14/2008	Water	Tier II	No						
135-671 95A		5/14/2008	Water	Tier II	No			-			+
6135-673 115A		5/15/2008	Water	Tier II	No						
G135-673 115B		5/15/2008	Water	Tier II	No						
	3-RB-1	5/15/2008	Water	Tier II	No						
OCC	0101	0/10/2000	TTULO	110111	110			1	1		
	R (Filtered)	4/30/2008	Water	Tier II	No			1			
	R (Filtered)	4/30/2008	Water	Tier II	No						
	(Filtered)	4/30/2008	Water	Tier II	No						
	(Filtered)	4/30/2008	Water	Tier II	No						
	3-DUP#1 (Filtered)	4/30/2008	Water	Tier II	No						Duplicate of 43B (Filtered)
	(Filtered)	5/1/2008	Water	Tier II	No						Dapinoate of 10D (i morea)
	R (Filtered)	5/1/2008	Water	Tier II	No						
	R (Filtered)	5/1/2008	Water	Tier II	No						
	Filtered)	5/1/2008	Water	Tier II	No						
	3-DUP2 (Filtered)	5/1/2008	Water	Tier II	No						Duplicate of 2A (Filtered)
135-659 89A (F	(Filtered)	5/5/2008	Water	Tier II	No						, , ,
	(Filtered)	5/5/2008	Water	Tier II	No						
	R (Filtered)	5/5/2008	Water	Tier II	No						
135-661 111A-	-R (Filtered)	5/6/2008	Water	Tier II	No						
	(Filtered)	5/6/2008	Water	Tier II	No						
	R (Filtered)	5/8/2008	Water	Tier II	No						
	(Filtered)	5/13/2008	Water	Tier II	No						
	-R (Filtered)	5/13/2008	Water	Tier II	No						
	-R (Filtered)	5/14/2008	Water	Tier II	No		<u> </u>				<u> </u>
135-671 90A (F	(Filtered)	5/14/2008	Water	Tier II	No		<u> </u>				<u> </u>
	(Filtered)	5/14/2008	Water	Tier II	No						
	(Filtered)	5/14/2008	Water	Tier II	No		-				
	(Filtered)	5/15/2008	Water	Tier II	Yes	Dissolved Organic Carbon	Rinse Blank	-	-	ND(1.0)	
	(Filtered)	5/15/2008	Water	Tier II	Yes	Dissolved Organic Carbon	Rinse Blank	-	-	ND(1.0)	
6135-673 GMA3	3-RB-1 (Filtered)	5/15/2008	Water	Tier II	No						

ARCADIS

Appendix E

Spring 2008 Groundwater Analytical Results

Table E-1 Spring 2008 Groundwater Analytical Results

Deservator	Sample ID: Date Collected:	2A 05/04/09	6B-R	16A	16B-R	16C-R
Parameter Volatile Organic		05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
1,1,1,2-Tetrachlo		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1,1,2-Tetracrilo		ND(10) [ND(10)] ND(10) [ND(10)]	ND(0.20) ND(0.20)	ND(2.0) ND(2.0)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
1,1,2,2-Tetrachlo		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroeth		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,1-Dichloroether		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-ch	•	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
1,2-Dibromoetha		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0030)
1.2-Dichloroethar		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	uno	ND(1000) [ND(1000)]	ND(20)	ND(200)	ND(0.10)	ND(0.10)
2-Butanone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-buta	adiene	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
2-Chloroethylviny		ND(130) [ND(130)]	ND(2.5)	ND(25)	ND(0.013)	ND(0.013)
2-Hexanone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
4-Methyl-2-penta		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Acetone		ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Acetonitrile		ND(200) [ND(200)]	ND(4.0)	ND(40)	ND(0.020)	ND(0.020)
Acrolein		ND(250) [ND(250)]	ND(5.0)	ND(50)	ND(0.025)	ND(0.025)
Acrylonitrile		ND(250) [ND(250)]	ND(5.0)	ND(50)	ND(0.025)	ND(0.025)
Benzene		21 [23]	4.3	13	0.00075 J	ND(0.0010)
Bromodichlorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Bromoform		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Bromomethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Carbon Tetrachlo	oride	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chlorobenzene		77 [97]	2.5	37	0.0011	ND(0.0010)
Chloroethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chloroform		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichlorop	ropene	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dibromochlorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dibromomethane)	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Dichlorodifluorom	nethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylat	e	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Ethylbenzene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Iodomethane		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Isobutanol		ND(500) [ND(500)]	ND(10)	ND(100)	ND(0.050)	ND(0.050)
Methacrylonitrile		ND(100) [ND(100)]	ND(2.0)	ND(20)	ND(0.010)	ND(0.010)
Methyl Methacryl	ate	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Methylene Chlori	de	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Propionitrile		ND(200) [ND(200)]	ND(4.0)	ND(40)	ND(0.020)	ND(0.020)
Styrene		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Tetrachloroethen	е	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Toluene		1.1 J [1.3 J]	0.086 J	0.62 J	ND(0.0010)	ND(0.0010)
trans-1,2-Dichlore		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichlore		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichlore	o-2-butene	ND(50) [ND(50)]	ND(1.0)	ND(10)	ND(0.0050)	ND(0.0050)
Trichloroethene		6.4 J [7.5 J]	ND(0.20)	ND(2.0)	0.00044 J	ND(0.0010)
Trichlorofluorome	ethane	ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Vinyl Acetate		ND(25) [ND(25)]	ND(0.50)	ND(5.0)	ND(0.0025)	ND(0.0025)
Vinyl Chloride		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Xylenes (total)		ND(10) [ND(10)]	ND(0.20)	ND(2.0)	ND(0.0010)	ND(0.0010)
Total VOCs		110 [130 J]	6.9 J	51	0.0023 J	ND(0.10)

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	2A 05/01/08	6B-R 05/02/08	16A 05/01/08	16B-R 05/01/08	16C-R 05/01/08
PCBs-Filtered	Date Collected.	03/01/08	03/02/06	03/01/06	03/01/06	03/01/06
Aroclor-1016	-	NA	NA	NA	NA	NA
Aroclor-1221		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1232		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1232 Aroclor-1242		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1248		NA NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1254		NA	NA NA	NA NA	NA NA	NA NA
Aroclor-1260		NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA
Semivolatile Org	anics					
1,2,4,5-Tetrachlo		NA	NA	NA	NA	NA
1,2,4-Trichlorobe		NA	NA	NA	NA	NA
1,2-Dichlorobenz	ene	NA	NA	NA	NA	NA
1,2-Diphenylhydra	azine	NA	NA	NA	NA	NA
1,3,5-Trinitrobenz	zene	NA	NA	NA	NA	NA
1,3-Dichlorobenz	ene	NA	NA	NA	NA	NA
1,3-Dinitrobenzer	ne	NA	NA	NA	NA	NA
1,4-Dichlorobenz		NA	NA	NA	NA	NA
1,4-Naphthoquino		NA	NA	NA	NA	NA
1-Naphthylamine		NA	NA	NA	NA	NA
2,3,4,6-Tetrachlo		NA	NA	NA	NA	NA
2,4,5-Trichloroph		NA NA	NA	NA	NA	NA
2,4,6-Trichloroph		NA NA	NA NA	NA	NA NA	NA NA
2,4-Dichlorophen		NA NA	NA	NA	NA	NA
2,4-Dimethylpher 2,4-Dinitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrophenoi		NA NA	NA NA	NA NA	NA NA	NA NA
2.6-Dichlorophen		NA NA	NA NA	NA NA	NA NA	NA NA
2.6-Dinitrotoluene		NA NA	NA NA	NA NA	NA NA	NA NA
2-Acetylaminoflu		NA NA	NA NA	NA NA	NA NA	NA NA
2-Chloronaphthal		NA	NA NA	NA NA	NA NA	NA NA
2-Chlorophenol	one	ND(0.0051) [ND(0.0051)]	NA NA	0.022	NA NA	NA NA
2-Methylnaphthal	ene	NA	NA.	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-Methylpheno	ol	NA	NA	NA	NA	NA
3,3'-Dichlorobenz	zidine	NA	NA	NA	NA	NA
3,3'-Dimethylben		NA	NA	NA	NA	NA
3-Methylcholanth	rene	NA	NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA	NA
4,6-Dinitro-2-met	hylphenol	NA	NA	NA	NA	NA
4-Aminobiphenyl		NA	NA	NA	NA	NA
4-Bromophenyl-p		NA	NA	NA	NA	NA
4-Chloro-3-Methy	ripnenoi	NA NA	NA	NA	NA	NA
4-Chloroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate 4-Chlorophenol	;	NA ND(0.0051) [ND(0.0051)]	NA NA	NA 0.062	NA NA	NA NA
4-Chlorophenyl-p	hanvlether	NA	NA NA	0.062 NA	NA NA	NA NA
4-Nitroaniline	ricityiculci	NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitroguinoline-	1-oxide	NA NA	NA NA	NA NA	NA NA	NA NA
4-Phenylenediam		NA NA	NA NA	NA NA	NA NA	NA NA
5-Nitro-o-toluidine		NA NA	NA NA	NA NA	NA NA	NA NA
7,12-Dimethylber		NA NA	NA NA	NA NA	NA NA	NA NA
a,a'-Dimethylphei	` '	NA NA	NA NA	NA NA	NA NA	NA NA
Acenaphthene		NA NA	NA NA	NA NA	NA NA	NA NA
Acenaphthylene		NA NA	NA NA	NA NA	NA NA	NA NA
Acetophenone		NA NA	NA NA	NA NA	NA NA	NA NA
Aniline		NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	2A	6B-R	16A	16B-R	16C-R
Parameter	Date Collected:	05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
	ganics (continued)			_		
Aramite		NA	NA	NA	NA	NA
Benzidine		NA NA	NA NA	NA	NA	NA NA
Benzo(a)anthrac	ene	NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(a)pyrene Benzo(b)fluorant	thono	NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(g,h,i)pery		NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(k)fluorant		NA NA	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	TICHE	NA NA	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroetho	xv)methane	NA NA	NA	NA	NA	NA
bis(2-Chloroethy		NA	NA	NA	NA	NA
bis(2-Chloroisop		NA	NA	NA	NA	NA
bis(2-Ethylhexyl)	phthalate	NA	NA	NA	NA	NA
Butylbenzylphtha	alate	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA
Diallate		NA	NA	NA	NA	NA
Dibenzo(a,h)anth	nracene	NA	NA	NA	NA	NA
Dibenzofuran		NA NA	NA	NA NA	NA	NA
Diethylphthalate	t-a	NA NA	NA NA	NA NA	NA NA	NA NA
Dimethylphthalat		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthala		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthair Diphenylamine	ate	NA NA	NA NA	NA NA	NA NA	NA NA
Ethyl Methanesu	lfonate	NA NA	NA NA	NA NA	NA NA	NA NA
Fluoranthene	illoriale	NA NA	NA NA	NA NA	NA NA	NA NA
Fluorene		NA NA	NA NA	NA NA	NA NA	NA NA
Hexachlorobenz	ene	NA NA	NA	NA NA	NA NA	NA NA
Hexachlorobutac		NA NA	NA	NA	NA	NA
Hexachlorocyclo		NA	NA	NA	NA	NA
Hexachloroethar	ne	NA	NA	NA	NA	NA
Hexachlorophen	е	NA	NA	NA	NA	NA
Hexachloroprope		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	NA	NA
Methapyrilene		NA NA	NA NA	NA	NA	NA NA
Methyl Methanes	suitonate	NA NA	NA NA	NA NA	NA NA	NA NA
Naphthalene Nitrobenzene		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiethyla	amine	NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimeth		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-bi		NA NA	NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-pi		NA NA	NA	NA NA	NA NA	NA
N-Nitrosodiphen		NA NA	NA	NA	NA	NA
N-Nitrosomethyle	ethylamine	NA	NA	NA	NA	NA
N-Nitrosomorpho	oline	NA	NA	NA	NA	NA
N-Nitrosopiperid		NA	NA	NA	NA	NA
N-Nitrosopyrrolic		NA	NA	NA	NA	NA
o,o,o-Triethylpho	sphorothioate	NA	NA	NA	NA	NA
o-Toluidine		NA	NA	NA	NA	NA
p-Dimethylamino		NA NA	NA	NA	NA	NA
Pentachlorobenz		NA NA	NA NA	NA	NA	NA
Pentachloroetha		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloronitro Pentachloropher		NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin	101	NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin		NA NA	NA NA	NA NA	NA NA	NA NA
Phenol		NA NA	NA NA	NA NA	NA NA	NA NA
Pronamide		NA NA	NA NA	NA NA	NA NA	NA NA
Pyrene		NA NA	NA NA	NA NA	NA NA	NA NA
Pyridine		NA	NA NA	NA NA	NA	NA NA
Safrole		NA NA				
Thionazin		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	2A	6B-R	16A	16B-R	16C-R
Parameter	Date Collected:	05/01/08	05/02/08	05/01/08	05/01/08	05/01/08
Natural Attenua	tion Parameters					
Alkalinity		170 [170]	NA	450	530	120
Chloride		8.9 [8.6]	NA	1900	270	1.2
Dissolved Iron		ND(0.100) [ND(0.100)]	NA	1.23	0.0246 B	ND(0.100)
Dissolved Organ	ic Carbon	2.09 [2.17]	NA	32.9	6.44	0.856
Ethane		ND(0.020) [ND(0.020)]	NA	ND(0.10)	ND(0.10)	ND(0.020)
Ethene		ND(0.020) [ND(0.020)]	NA	0.37	ND(0.10)	ND(0.020)
Methane		ND(0.00720) [ND(0.00720)]	NA	1.91	1.52	ND(0.00720)
Nitrate Nitrogen		ND(0.300) [ND(0.300)]	NA	ND(0.300)	ND(0.300)	0.190 B
Nitrite Nitrogen		ND(0.300) [ND(0.300)]	NA	ND(3.00)	ND(3.00)	ND(0.300)
Sulfate (turbidim	etric)	22.2 [21.9]	NA	0.951	15.7	6.38

Table E-1 Spring 2008 Groundwater Analytical Results

_	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
Volatile Organic						
1,1,1,2-Tetrachlo		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,1-Trichloroeth		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,2,2-Tetrachlo		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,2-Trichloroeth		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethai		ND(0.40) ND(0.40)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]
1,2,3-Trichloropro		ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dibromo-3-ch	•	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
1,2-Dibromoetha		ND(0.40)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030) [ND(0.0030)]
1.2-Dichloroethai		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropa		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dioxane		ND(40)	ND(0.10)	ND(0.10)	0.18	0.041 J [ND(0.10)]
2-Butanone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
2-Chloro-1,3-buta	adiene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
2-Chloroethylviny	lether ether	ND(5.0)	ND(0.013)	ND(0.013)	ND(0.013)	ND(0.013) [ND(0.013)]
2-Hexanone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3-Chloropropene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
4-Methyl-2-penta	none	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetone		ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetonitrile		ND(8.0)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Acrolein		ND(10)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]
Acrylonitrile		ND(10)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025) [ND(0.025)]
Benzene		0.67	0.00033 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromodichlorome	ethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromoform		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Disulfide		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Tetrachlo	oride	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene		16	0.040	0.00024 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroethane Chloroform		ND(0.40)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]
Chloromethane		ND(0.40) ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
cis-1,3-Dichlorop	ronono	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromochlorom	•	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dichlorodifluorom		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethyl Methacrylat		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethylbenzene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Iodomethane		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Isobutanol		ND(20)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050) [ND(0.050)]
Methacrylonitrile		ND(4.0)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Methyl Methacryl	ate	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chlori	de	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Propionitrile		ND(8.0)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]
Styrene		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Tetrachloroethen	е	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Toluene		0.21 J	0.00015 J	0.00025 J	ND(0.0010)	ND(0.0010) [0.00019 J]
trans-1,2-Dichlor		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,3-Dichlor	<u> </u>	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichlor	o-2-butene	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichloroethene		0.20 J	0.00017 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichlorofluorome	ethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Vinyl Acetate		ND(1.0)	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025) [ND(0.0025)]
Vinyl Chloride		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Xylenes (total)		ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Total VOCs		17	0.041	0.00049 J	0.18	0.041 J [0.00019 J]

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
PCBs-Filtered						
Aroclor-1016		NA	NA	NA	NA	NA
Aroclor-1221		NA	NA	NA	NA	NA
Aroclor-1232		NA	NA	NA	NA	NA
Aroclor-1242		NA	NA	NA	NA	NA
Aroclor-1248		NA	NA	NA	NA	NA NA
Aroclor-1254		NA	NA	NA NA	NA	NA NA
Aroclor-1260 Total PCBs		NA NA	NA NA	NA NA	NA NA	NA NA
Semivolatile Orga	nice	INA	INA	INA	INA	INA
1,2,4,5-Tetrachlor		ND(0.053)	NA	NA NA	NA	NA NA
1,2,4-Trichloroben		ND(0.053)	NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenze		0.12	NA NA	NA NA	NA NA	NA NA
1,2-Diphenylhydra		ND(0.053)	NA	NA NA	NA NA	NA NA
1,3,5-Trinitrobenze		ND(0.26)	NA	NA	NA	NA NA
1,3-Dichlorobenze		0.0090 J	NA	NA	NA	NA NA
1,3-Dinitrobenzene	Э	ND(0.053)	NA	NA	NA	NA
1,4-Dichlorobenze	ne	0.25	NA	NA	NA	NA
1,4-Naphthoquinor	ne	ND(0.053)	NA	NA	NA	NA
1-Naphthylamine		ND(0.26)	NA	NA	NA	NA
2,3,4,6-Tetrachlor		ND(0.053)	NA	NA	NA	NA
2,4,5-Trichlorophe		ND(0.053)	NA	NA	NA	NA NA
2,4,6-Trichlorophe		ND(0.053)	NA	NA	NA	NA NA
2,4-Dichloropheno		ND(0.053)	NA	NA NA	NA NA	NA NA
2,4-Dimethylphenol	DI	ND(0.053) ND(0.26)	NA NA	NA NA	NA NA	NA NA
2,4-Dinitroprierior		ND(0.26)	NA NA	NA NA	NA NA	NA NA
2,6-Dichloropheno	ı	ND(0.053)	NA NA	NA NA	NA NA	NA NA
2.6-Dinitrotoluene	''	ND(0.053)	NA NA	NA NA	NA NA	NA NA
2-Acetylaminofluor	rene	ND(0.11)	NA	NA	NA	NA NA
2-Chloronaphthale		ND(0.053)	NA	NA	NA	NA
2-Chlorophenol		ND(0.053)	NA	NA	NA	NA
2-Methylnaphthale	ne	ND(0.053)	NA	NA	NA	NA
2-Methylphenol		ND(0.053)	NA	NA	NA	NA
2-Naphthylamine		ND(0.26)	NA	NA	NA	NA
2-Nitroaniline		ND(0.053)	NA	NA	NA	NA
2-Nitrophenol		ND(0.053)	NA NA	NA NA	NA NA	NA NA
2-Picoline 3&4-Methylphenol		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
3,3'-Dichlorobenzio	dino	ND(0.053)	NA NA	NA NA	NA NA	NA NA
3,3'-Dimethylbenzi		ND(0.11) ND(0.26)	NA NA	NA NA	NA NA	NA NA
3-Methylcholanthre		ND(0.053)	NA NA	NA NA	NA NA	NA NA
3-Nitroaniline	ono	ND(0.26)	NA NA	NA NA	NA NA	NA NA
4,6-Dinitro-2-meth	ylphenol	ND(0.26)	NA	NA	NA	NA
4-Aminobiphenyl	7 1	ND(0.053)	NA	NA	NA	NA
4-Bromophenyl-ph	enylether	ND(0.053)	NA	NA	NA	NA
4-Chloro-3-Methyl	phenol	ND(0.053)	NA	NA	NA	NA
4-Chloroaniline		ND(0.26)	NA	NA	NA	NA
4-Chlorobenzilate		ND(0.053)	NA	NA	NA	NA
4-Chlorophenol		NA NA	NA	NA	NA	NA
4-Chlorophenyl-ph	enylether	ND(0.053)	NA NA	NA NA	NA	NA NA
4-Nitroaniline 4-Nitrophenol		ND(0.26) ND(0.26)	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol 4-Nitroquinoline-1-	ovide	ND(0.26) ND(0.26)	NA NA	NA NA	NA NA	NA NA
4-Phenylenediamii		ND(0.26) ND(0.11)	NA NA	NA NA	NA NA	NA NA
5-Nitro-o-toluidine		ND(0.053)	NA NA	NA NA	NA NA	NA NA
7,12-Dimethylbenz		ND(0.053)	NA NA	NA NA	NA NA	NA NA
a,a'-Dimethylphen	` '	ND(0.26)	NA NA	NA NA	NA NA	NA NA
Acenaphthene		ND(0.053)	NA	NA	NA	NA NA
Acenaphthylene		ND(0.053)	NA	NA	NA	NA NA
Acetophenone		ND(0.053)	NA	NA	NA	NA
Aniline		ND(0.053)	NA	NA	NA	NA
Anthracene		ND(0.053)	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	39B-R	39D-R	39E	43A	43B
Parameter	Date Collected:	04/30/08	04/30/08	05/06/08	04/30/08	04/30/08
	ganics (continued)					
Aramite		ND(0.053)	NA	NA	NA	NA
Benzidine		ND(0.11)	NA	NA	NA	NA
Benzo(a)anthrac	ene	ND(0.053)	NA NA	NA	NA	NA NA
Benzo(a)pyrene	la a a	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzo(b)fluorant		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzo(g,h,i)pery Benzo(k)fluorant		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	ilelle	ND(0.033)	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroetho	xv)methane	ND(0.053)	NA NA	NA	NA NA	NA NA
bis(2-Chloroethy		ND(0.053)	NA	NA	NA	NA NA
bis(2-Chloroisop		ND(0.053)	NA	NA	NA	NA
bis(2-Ethylhexyl)	phthalate	ND(0.053)	NA	NA	NA	NA
Butylbenzylphtha	alate	ND(0.053)	NA	NA	NA	NA
Chrysene		ND(0.053)	NA	NA	NA	NA
Diallate		ND(0.053)	NA	NA	NA	NA
Dibenzo(a,h)anth	nracene	ND(0.053)	NA	NA	NA	NA
Dibenzofuran		ND(0.053)	NA NA	NA	NA NA	NA NA
Diethylphthalate	-	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Dimethylphthalat		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthala Di-n-Octylphthala		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Diphenylamine	ale	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Ethyl Methanesu	Ifonate	ND(0.053)	NA NA	NA NA	NA NA	NA NA
Fluoranthene		ND(0.053)	NA	NA	NA	NA NA
Fluorene		ND(0.053)	NA	NA	NA	NA NA
Hexachlorobenze	ene	ND(0.053)	NA	NA	NA	NA
Hexachlorobutac	diene	ND(0.053)	NA	NA	NA	NA
Hexachlorocyclo		ND(0.11)	NA	NA	NA	NA
Hexachloroethan		ND(0.053)	NA	NA	NA	NA
Hexachlorophen		ND(0.053)	NA	NA	NA	NA
Hexachloroprope		ND(0.11)	NA NA	NA NA	NA NA	NA NA
Indeno(1,2,3-cd)	pyrene	ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Isophorone		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Isosafrole		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Methapyrilene		ND(0.053)	NA NA	NA	NA NA	NA NA
Methyl Methanes	sulfonate	ND(0.053)	NA	NA	NA	NA NA
Naphthalene		0.091	NA	NA	NA	NA
Nitrobenzene		ND(0.053)	NA	NA	NA	NA
N-Nitrosodiethyla	amine	ND(0.053)	NA	NA	NA	NA
N-Nitrosodimethy		ND(0.053)	NA	NA	NA	NA
N-Nitroso-di-n-bu		ND(0.053)	NA	NA	NA	NA
N-Nitroso-di-n-pr		ND(0.053)	NA	NA	NA	NA NA
N-Nitrosodiphen	•	ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosomethyle	*	ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosomorpho N-Nitrosopiperidi		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
N-Nitrosopyrrolic		ND(0.053)	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylpho		ND(0.053)	NA NA	NA NA	NA NA	NA NA
o-Toluidine	-,	ND(0.053)	NA NA	NA NA	NA NA	NA NA
p-Dimethylamino	pazobenzene	ND(0.053)	NA	NA	NA	NA NA
Pentachlorobenz	rene	ND(0.053)	NA	NA	NA	NA
Pentachloroetha		ND(0.053)	NA	NA	NA	NA
Pentachloronitro		ND(0.053)	NA	NA	NA	NA
Pentachloropher	nol	ND(0.26)	NA	NA	NA	NA
Phenacetin		ND(0.053)	NA NA	NA	NA	NA NA
Phenanthrene		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Phenol		0.038 J	NA NA	NA NA	NA NA	NA NA
Pyropo		ND(0.053) ND(0.053)	NA NA	NA NA	NA NA	NA NA
Pyrene Pyridine		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Safrole		ND(0.053)	NA NA	NA NA	NA NA	NA NA
Thionazin		ND(0.033)	NA NA	NA NA	NA NA	NA NA
		(3.11)	. 47 1	. ",		, .

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	39B-R 04/30/08	39D-R 04/30/08	39E 05/06/08	43A 04/30/08	43B 04/30/08	
	tion Parameters	0 1100/00	0 1100100	00/00/00	0 1100700	0 1/00/00	
Alkalinity		310	130	87.0	520	580 [580]	
Chloride		110	5.5	25	22	53 [50]	
Dissolved Iron		ND(0.100)	0.0401 B	1.21	ND(0.100)	0.0246 B [0.0199 B]	
Dissolved Organic Carbon		6.24	0.844 B	4.35	2.03	2.77 [2.74]	
Ethane		ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	
Ethene		ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.10) [ND(0.10)]	
Methane		0.182	ND(0.00720)	1.16	0.0180	1.51 [1.66]	
Nitrate Nitrogen		0.507	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	
Nitrite Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300) [ND(0.300)]	
Sulfate (turbidim	etric)	5.61	20.4	ND(0.300)	103	ND(0.300) [ND(0.300)]	

Table E-1 Spring 2008 Groundwater Analytical Results

D	Sample ID:	51-14	82B-R	89A	89B	89D-R	
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08	
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0010) ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020) ND(0.0020)	ND(1.6) ND(1.6)	
1,1,1-Trichloroethane		ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020)	ND(1.6)	
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1.1-Dichloroethan		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,1-Dichloroethen		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2,3-Trichloropro		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dibromo-3-ch		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
1,2-Dibromoethar		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dichloroethan	ne	ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,2-Dichloropropa	ane	ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
1,4-Dioxane		ND(0.10)	NA	ND(100)	ND(0.20)	ND(160)	
2-Butanone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
2-Chloro-1,3-buta		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
2-Chloroethylviny	lether	ND(0.013)	NA	ND(13)	ND(0.025)	ND(20)	
2-Hexanone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
3-Chloropropene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
4-Methyl-2-pentar	none	ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Acetone		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Acetonitrile		ND(0.020)	NA	ND(20)	ND(0.040)	ND(32)	
Acrolein		ND(0.025)	NA	ND(25)	ND(0.050)	ND(40)	
Acrylonitrile		ND(0.025)	NA	ND(25)	ND(0.050)	ND(40)	
Benzene		ND(0.0010)	NA NA	7.1	0.0067	8.1	
Bromodichlorome	etnane	ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Bromoform		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Bromomethane Carbon Disulfide		ND(0.0010)	NA NA	ND(1.0) ND(1.0)	ND(0.0020) ND(0.0020)	ND(1.6)	
Carbon Distillide	rido	ND(0.0010) 0.0013	NA NA	ND(1.0) ND(1.0)	ND(0.0020)	ND(1.6) ND(1.6)	
Chlorobenzene	nae	ND(0.0010)	NA NA	ND(1.0) 26	0.048	32	
Chloroethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Chloroform		0.0039	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Chloromethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
cis-1,3-Dichloropr	onene	ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dibromochlorome		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dibromomethane		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Dichlorodifluorom		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Ethyl Methacrylate		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Ethylbenzene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Iodomethane		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Isobutanol		ND(0.050)	NA	ND(50)	ND(0.10)	ND(80)	
Methacrylonitrile		ND(0.010)	NA	ND(10)	ND(0.020)	ND(16)	
Methyl Methacrylate		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Methylene Chloric	de	ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Propionitrile		ND(0.020)	NA	ND(20)	ND(0.040)	ND(32)	
Styrene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Tetrachloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Toluene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,2-Dichloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,3-Dichloropropene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
trans-1,4-Dichloro-2-butene		ND(0.0050)	NA	ND(5.0)	ND(0.010)	ND(8.0)	
Trichloroethene		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Trichlorofluoromethane		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Vinyl Acetate		ND(0.0025)	NA	ND(2.5)	ND(0.0050)	ND(4.0)	
Vinyl Chloride		ND(0.0010)	NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Xylenes (total)		ND(0.0010)	NA NA	ND(1.0)	ND(0.0020)	ND(1.6)	
Total VOCs		0.0052	NA	33	0.055	40	

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
PCBs-Filtered						
Aroclor-1016		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1221		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1232		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1242		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1248		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1254		NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Aroclor-1260		NA NA	ND(0.000068) [ND(0.000081)]	NA NA	NA NA	NA NA
Total PCBs	-mi	NA	ND(0.000068) [ND(0.000081)]	NA	NA	NA
Semivolatile Org		NA	I NA	I NIA	NIA I	NA
1,2,4,5-Tetrachlor 1,2,4-Trichlorober		NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenze		NA NA	NA NA	NA NA	NA NA	NA NA
1,2-Diphenylhydra		NA NA	NA NA	NA NA	NA NA	NA NA
1,3,5-Trinitrobenz		NA NA	NA NA	NA NA	NA NA	NA NA
1,3-Dichlorobenze		NA NA	NA NA	NA NA	NA NA	NA NA
1,3-Dinitrobenzen		NA NA	NA NA	NA NA	NA NA	NA NA
1,4-Dichlorobenze		NA	NA NA	NA	NA	NA
1,4-Naphthoquinone		NA	NA NA	NA	NA	NA
1-Naphthylamine		NA	NA NA	NA	NA	NA
2,3,4,6-Tetrachlor	ophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophe	enol	NA	NA	NA	NA	NA
2,4,6-Trichlorophe	enol	NA	NA	NA	NA	NA
2,4-Dichloropheno		NA	NA	NA	NA	NA
2,4-Dimethylphen	ol	NA	NA	NA	NA	NA
2,4-Dinitrophenol		NA	NA	NA	NA	NA
2,4-Dinitrotoluene		NA	NA	NA	NA	NA
2,6-Dichloropheno		NA	NA	NA	NA	NA
2,6-Dinitrotoluene		NA NA	NA NA	NA	NA NA	NA
2-Acetylaminofluo		NA	NA NA	NA NA	NA NA	NA
2-Chlorophenol	ene	NA NA	NA NA	NA ND(0.0052)	NA ND(0.0051)	NA NA
2-Methylnaphthale	nno.	NA NA	NA NA	NA NA	NA NA	NA NA
2-Methylphenol	STIC .	NA NA	NA NA	NA NA	NA NA	NA NA
2-Naphthylamine		NA NA	NA NA	NA NA	NA NA	NA NA
2-Nitroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
2-Nitrophenol		NA	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'-Dimethylbenz		NA	NA	NA	NA	NA
3-Methylcholanthr	ene	NA	NA	NA	NA	NA
3-Nitroaniline		NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol		NA NA	NA NA	NA	NA NA	NA
4-Aminobiphenyl		NA	NA NA	NA	NA	NA
4-Bromophenyl-ph	,	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methyl	pnenoi	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloroaniline 4-Chlorobenzilate		NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorophenol		NA NA	NA NA	ND(0.0052)	ND(0.0051)	NA NA
4-Chlorophenyl-ph	nenvlether	NA NA	NA NA	NA	NA NA	NA NA
4-Nitroaniline		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA	NA NA
4-Nitroquinoline-1-oxide		NA	NA NA	NA	NA NA	NA
4-Phenylenediamine		NA	NA NA	NA	NA	NA
5-Nitro-o-toluidine		NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene		NA	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 E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
Semivolatile Orga	nics (continued)					
Aramite		NA	NA	NA	NA	NA
Benzidine		NA	NA	NA	NA	NA
Benzo(a)anthracen	е	NA	NA NA	NA	NA	NA
Benzo(a)pyrene		NA NA	NA NA	NA NA	NA NA	NA
Benzo(b)fluoranthe Benzo(g,h,i)peryler		NA NA	NA NA	NA NA	NA NA	NA NA
Benzo(g,n,i)peryier Benzo(k)fluoranthe		NA NA	NA NA	NA NA	NA NA	NA NA
Benzyl Alcohol	110	NA NA	NA NA	NA NA	NA NA	NA NA
bis(2-Chloroethoxy)methane	NA	NA NA	NA	NA	NA
bis(2-Chloroethyl)e		NA	NA	NA	NA	NA
bis(2-Chloroisopro		NA	NA	NA	NA	NA
bis(2-Ethylhexyl)ph	thalate	NA	NA	NA	NA	NA
Butylbenzylphthala	te	NA	NA	NA	NA	NA
Chrysene		NA	NA	NA	NA	NA
Diallate		NA	NA NA	NA	NA	NA
Dibenzo(a,h)anthra	icene	NA NA	NA NA	NA NA	NA NA	NA
Dibenzofuran Diethylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Dietnylphthalate Dimethylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	1	NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthalate		NA NA	NA NA	NA NA	NA NA	NA NA
Diphenylamine		NA	NA NA	NA	NA	NA
Ethyl Methanesulfo	nate	NA	NA	NA	NA	NA
Fluoranthene		NA	NA	NA	NA	NA
Fluorene		NA	NA	NA	NA	NA
Hexachlorobenzen		NA	NA	NA	NA	NA
Hexachlorobutadie		NA	NA	NA	NA	NA
Hexachlorocyclope	ntadiene	NA	NA NA	NA	NA	NA
Hexachloroethane Hexachlorophene		NA NA	NA NA	NA NA	NA NA	NA NA
Hexachloropropend	3	NA NA	NA NA	NA NA	NA NA	NA NA
Indeno(1,2,3-cd)py		NA NA	NA NA	NA NA	NA NA	NA NA
Isodrin	10110	NA NA	NA NA	NA NA	NA NA	NA NA
Isophorone		NA	NA	NA	NA	NA
Isosafrole		NA	NA	NA	NA	NA
Methapyrilene		NA	NA	NA	NA	NA
Methyl Methanesul	fonate	NA	NA	NA	NA	NA
Naphthalene		NA	NA	NA	NA	NA
Nitrobenzene	t	NA	NA NA	NA NA	NA NA	NA
N-Nitrosodiethylam		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimethyla N-Nitroso-di-n-buty		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-prop		NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiphenyla		NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosomethyleth		NA	NA	NA	NA	NA
N-Nitrosomorpholir	ne	NA	NA	NA	NA	NA
N-Nitrosopiperidine		NA	NA	NA	NA	NA
N-Nitrosopyrrolidin		NA	NA	NA	NA	NA
o,o,o-Triethylphosp	horothioate	NA	NA	NA	NA	NA
o-Toluidine	- b	NA	NA NA	NA NA	NA NA	NA
p-Dimethylaminoaz Pentachlorobenzer		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloroethane		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloronitrobe		NA NA	NA NA	NA NA	NA NA	NA NA
Pentachlorophenol	50	NA NA	NA NA	NA NA	NA NA	NA NA
Phenacetin		NA	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	NA
Pyridine		NA	NA NA	NA NA	NA NA	NA
Safrole		NA NA	NA NA	NA NA	NA NA	NA
Thionazin		NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	51-14	82B-R	89A	89B	89D-R
Parameter	Date Collected:	05/02/08	05/02/08	05/05/08	05/05/08	05/05/08
Natural Attenua	ation Parameters					
Alkalinity		NA	NA	330	160	320
Chloride		NA	NA	380	180	590
Dissolved Iron		NA	NA	ND(0.100)	0.902	0.141
Dissolved Organ	nic Carbon	NA	NA	7.00	5.28	8.52
Ethane		NA	NA	ND(0.20)	ND(0.020)	ND(0.10)
Ethene		NA	NA	ND(0.20)	ND(0.020)	0.76
Methane		NA	NA	4.36	0.338	1.62
Nitrate Nitrogen		NA	NA	ND(0.300)	ND(0.300)	ND(0.300)
Nitrite Nitrogen		NA	NA	ND(3.00)	ND(0.300)	ND(3.00)
Sulfate (turbidim	netric)	NA	NA	ND(0.300)	0.582	2.68

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter	Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Volatile Organics	S						
1,1,1,2-Tetrachlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethan		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethen		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-ch		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethar		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethan		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa	ine	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
1,4-Dioxane		ND(0.10)	ND(0.10)	ND(0.10)	ND(40)	ND(0.10)	ND(0.10)
2-Butanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-buta		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
2-Chloroethylviny	lether	ND(0.013)	ND(0.013)	ND(0.013)	ND(5.0)	ND(0.013)	ND(0.013)
2-Hexanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentar	none	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0)	ND(0.0050)	ND(0.0050)
Acetonitrile		ND(0.020)	ND(0.020)	ND(0.020)	ND(8.0)	ND(0.020)	ND(0.020)
Acrolein		ND(0.025)	ND(0.025)	ND(0.025)	ND(10)	ND(0.025)	ND(0.025)
Acrylonitrile		ND(0.025)	ND(0.025)	ND(0.025)	ND(10)	ND(0.025)	ND(0.025)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	2.3	ND(0.0010)	ND(0.0010)
Bromodichlorome	thane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Carbon Tetrachlo	ride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chlorobenzene		ND(0.0010)	ND(0.0010)	0.00035 J	10	ND(0.0010)	ND(0.0010)
Chloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropr		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromochlorome	tnane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Dichlorodifluorom		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	9	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethylbenzene lodomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40) ND(20)	ND(0.0010)	ND(0.0010)
Isobutanol Methacrylonitrile		ND(0.050) ND(0.010)	ND(0.050) ND(0.010)	ND(0.050)	ND(20) ND(4.0)	ND(0.050)	ND(0.050) ND(0.010)
	140			ND(0.010)		ND(0.010) ND(0.0010)	
Methyl Methacryla Methylene Chloric		ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.40) 0.18 J	ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)
Propionitrile	ie ie				ND(8.0)	ND(0.0050)	` '
		ND(0.020) ND(0.0010)	ND(0.020) ND(0.0010)	ND(0.020) ND(0.0010)	ND(8.0) ND(0.40)	ND(0.020)	ND(0.020) ND(0.0010)
Styrene		115 (0.0010)	115 (0.0010)	115 (0.0010)	115 (2.42)	115 (0.0010)	115 (2 22 42)
Toluene	;	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.40) ND(0.40)	ND(0.0010) 0.00015 J	ND(0.0010) ND(0.0010)
	othono	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloro		ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40) ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichlord		ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.0010)	ND(0.40)	ND(0.0010)	ND(0.0010) ND(0.0050)
Trichloroethene	7-2-DUIGHE	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(2.0) ND(0.40)	ND(0.0050)	ND(0.0050)
Trichlorofluorome	thana		` '	ND(0.0010)	ND(0.40) ND(0.40)	, ,	ND(0.0010)
Vinvl Acetate	ulaile	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)	ND(0.40) ND(1.0)	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)
Vinyl Acetate Vinyl Chloride		ND(0.0025) ND(0.0010)	ND(0.0025)	ND(0.0025)	ND(1.0) ND(0.40)	ND(0.0025)	ND(0.0025)
Xvlenes (total)		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.40)	0.00010)	ND(0.0010)
Total VOCs		ND(0.0010) ND(0.10)	ND(0.0010)	0.00035 J	12 J	0.00011 J 0.00026 J	ND(0.0010)
TOTAL VOUS		ואט(ט.וט)	(ט. וט) טאו	U.UUUJJ J	12 J	0.00026 J	ואט(ט. וט)

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
PCBs-Filtered						
Aroclor-1016	NA	NA	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA NA	NA	NA	NA NA	NA NA	NA NA
1,4-Naphthoquinone	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
1-Naphthylamine 2,3,4,6-Tetrachlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,3,4,6-1 etracniorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4,5-1 richlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dichlorophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dimethylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrophenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
2,4-Dinitrotoluene	NA	NA	NA NA	NA NA	NA NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	ND(0.0052)	ND(0.014)	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA NA	NA
3,3'-Dimethylbenzidine	NA	NA NA	NA NA	NA	NA NA	NA
3-Methylcholanthrene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
3-Nitroaniline 4,6-Dinitro-2-methylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Aminobiphenyl	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Bromophenyl-phenylether	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methylphenol	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chloroaniline	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
4-Chlorophenol	NA NA	NA NA	ND(0.0052)	ND(0.022)	NA NA	NA NA
4-Chlorophenyl-phenylether	NA NA	NA	NA	NA	NA NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Semivolatile Organics (continued)						
Aramite	NA	NA	NA NA	NA	NA	NA
Benzidine	NA NA	NA NA				
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA NA	NA NA	NA	NA NA	NA NA
Butylbenzylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Chrysene Diallate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dibenzo(a,h)anthracene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dibenzofuran	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Diethylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Dimethylphthalate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA NA	NA	NA	NA NA	NA
Hexachlorophene	NA	NA NA	NA NA	NA	NA NA	NA NA
Hexachloropropene Indeno(1,2,3-cd)pyrene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isodrin	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isophorone	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Isosafrole	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Methapyrilene	NA	NA	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA NA	NA	NA	NA
N-Nitrosomorpholine N-Nitrosopiperidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
N-Nitrosopiperidine N-Nitrosopyrrolidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylphosphorothioate	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
o-Toluidine	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
p-Dimethylaminoazobenzene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Pentachlorobenzene	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
Pentachloroethane	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA
Safrole	NA	NA	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA	NA	NA

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	90A	90B	95A	95B-R	111A-R	111B-R
Parameter	Date Collected:	05/14/08	05/14/08	05/14/08	05/08/08	05/06/08	05/14/08
Natural Attenua	tion Parameters						
Alkalinity		180	110	130	240	140	160
Chloride		14	8.5	0.77	160	86	4.3
Dissolved Iron		0.0211 B	3.68	ND(0.100)	0.0214 B	0.0432 B	0.0449 B
Dissolved Organ	ic Carbon	1.60	5.77	0.660 B	3.92	1.18	1.31
Ethane		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)
Ethene		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.10)	ND(0.020)	ND(0.020)
Methane		0.0930	0.0700	0.156	0.871	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	4.29
Nitrite Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)	ND(0.300)
Sulfate (turbidime	etric)	14.2	12.1	4.41	4.76	71.6	169

Table E-1 Spring 2008 Groundwater Analytical Results

	Sample ID:	114A	114B-R	115A	115B	
Parameter	Date Collected:	05/13/08	05/13/08	05/15/08	05/15/08	
Volatile Organics						
1,1,1,2-Tetrachlord	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,1-Trichloroetha	ne	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,2,2-Tetrachlord	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1,2-Trichloroetha	ane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1-Dichloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,1-Dichloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2,3-Trichloroprop		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dibromo-3-chlo		ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
1,2-Dibromoethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dichloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,2-Dichloropropar	ne	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
1,4-Dioxane		ND(0.10)	ND(4.0)	ND(0.10)	ND(0.10)	
2-Butanone		0.011	ND(0.20)	ND(0.0050)	ND(0.0050)	
2-Chloro-1,3-butac		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
2-Chloroethylvinyle	ether	ND(0.013)	ND(0.50)	ND(0.013)	ND(0.013)	
2-Hexanone		ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
3-Chloropropene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
4-Methyl-2-pentano	one	ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
Acetone		0.15	ND(0.20)	ND(0.0050)	ND(0.0050)	
Acetonitrile		ND(0.020)	ND(0.80)	ND(0.020)	ND(0.020)	
Acrolein		ND(0.025)	ND(1.0)	ND(0.025)	ND(0.025)	
Acrylonitrile		ND(0.025)	ND(1.0)	ND(0.025)	ND(0.025)	
Benzene Bramadiahlaramat	hana	ND(0.0010)	0.020 J ND(0.040)	ND(0.0010)	ND(0.0010) ND(0.0010)	
Bromodichloromet Bromoform	nane	ND(0.0010) ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Bromomethane		ND(0.0010)	ND(0.040)	ND(0.0010) ND(0.0010)	ND(0.0010)	
Carbon Disulfide		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Carbon Tetrachlori	de	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chlorobenzene	ue	0.00018 J	1.4	ND(0.0010)	ND(0.0010)	
Chloroethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chloroform		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Chloromethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
cis-1,3-Dichloropro	ppene	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dibromochloromet	•	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dibromomethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Dichlorodifluorome	ethane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Ethyl Methacrylate		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Ethylbenzene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Iodomethane		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Isobutanol		ND(0.050)	ND(2.0)	ND(0.050)	ND(0.050)	
Methacrylonitrile		ND(0.010)	ND(0.40)	ND(0.010)	ND(0.010)	
Methyl Methacrylat	ie	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Methylene Chloride	Э	ND(0.0050)	0.016 J	ND(0.0050)	ND(0.0050)	
Propionitrile		ND(0.020)	ND(0.80)	ND(0.020)	ND(0.020)	
Styrene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Tetrachloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Toluene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,2-Dichloroe	ethene	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,3-Dichlorop		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
trans-1,4-Dichloro-	2-butene	ND(0.0050)	ND(0.20)	ND(0.0050)	ND(0.0050)	
Trichloroethene		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Trichlorofluoromet	hane	ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Vinyl Acetate		ND(0.0025)	ND(0.10)	ND(0.0025)	ND(0.0025)	
Vinyl Chloride		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Xylenes (total)		ND(0.0010)	ND(0.040)	ND(0.0010)	ND(0.0010)	
Total VOCs		0.16	1.4 J	ND(0.10)	ND(0.10)	

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
PCBs-Filtered	•			•	
Aroclor-1016		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1221		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1232		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1242		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1248		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1254		ND(0.000067)	ND(0.000068)	NA	NA
Aroclor-1260		ND(0.000067)	ND(0.000068)	NA NA	NA
Total PCBs		ND(0.000067)	ND(0.000068)	NA NA	NA NA
Semivolatile Organ	ice	110(0.000001)	14D(0.000000)	14/1	14/1
1.2.4.5-Tetrachlorob		NA	NA	NA	NA
1,2,4-Trichlorobenze		NA NA	NA NA	NA NA	NA NA
1,2-Dichlorobenzene		NA NA	NA NA	NA NA	NA NA
,				NA NA	NA NA
1,2-Diphenylhydrazir		NA NA	NA NA		
1,3,5-Trinitrobenzene		NA NA	NA NA	NA NA	NA NA
1,3-Dichlorobenzene		NA NA	NA	NA	NA NA
1,3-Dinitrobenzene		NA	NA	NA	NA
1,4-Dichlorobenzene		NA NA	NA NA	NA	NA NA
1,4-Naphthoquinone		NA NA	NA NA	NA NA	NA NA
1-Naphthylamine		NA NA	NA	NA NA	NA NA
2,3,4,6-Tetrachloropl		NA	NA	NA	NA
2,4,5-Trichloropheno		NA	NA	NA	NA
2,4,6-Trichloropheno	I	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-Acetylaminofluorer	ne	NA	NA	NA	NA
2-Chloronaphthalene)	NA	NA	NA	NA
2-Chlorophenol		NA	NA	NA	NA
2-Methylnaphthalene	1	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'-Dichlorobenzidir	ie	NA	NA	NA	NA
3,3'-Dimethylbenzidii	ne	NA	NA	NA	NA
3-Methylcholanthren		NA	NA	NA	NA
3-Nitroaniline	_	NA	NA	NA	NA
4,6-Dinitro-2-methylp	henol	NA	NA	NA	NA
4-Aminobiphenyl		NA NA	NA NA	NA NA	NA NA
4-Bromophenyl-pher	vlether	NA NA	NA NA	NA NA	NA NA
4-Chloro-3-Methylph		NA NA	NA NA	NA NA	NA NA
4-Chloroaniline	01101	NA NA	NA NA	NA NA	NA NA
4-Chlorobenzilate		NA NA	NA NA	NA NA	NA NA
4-Chlorophenol		NA NA	NA NA	NA NA	NA NA
4-Chlorophenyl-pher	wlether	NA NA	NA NA	NA NA	NA NA
4-Nitroaniline	lyioti ioi	NA NA	NA NA	NA NA	NA NA
4-Nitrophenol		NA NA	NA NA	NA NA	NA NA
4-Nitropnenoi 4-Nitroquinoline-1-ox	ido	NA NA	NA NA	NA NA	NA NA
4-Phenylenediamine		NA NA	NA	NA NA	NA NA
5-Nitro-o-toluidine) 1	NA NA	NA	NA	NA NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA
a,a'-Dimethylpheneth	nylamine	NA	NA	NA	NA
Acenaphthene		NA	NA	NA	NA
Acenaphthylene		NA	NA	NA	NA
Acetophenone		NA	NA	NA	NA
		NA	NA	NA	NA
Aniline Anthracene		NA NA	INA	INA	11/7

Table E-1 Spring 2008 Groundwater Analytical Results

Sample ID:	114A 05/12/08	114B-R	115A	115B
Parameter Date Collected: Semivolatile Organics (continued)	05/13/08	05/13/08	05/15/08	05/15/08
Aramite	NA	NA	NA NA	NA
Benzidine	NA NA	NA NA	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	NA NA	NA NA
Benzyl Alcohol pis(2-Chloroethoxy)methane	NA NA	NA NA	NA NA	NA NA
ois(2-Chloroethyl)ether	NA NA	NA NA	NA NA	NA NA
ois(2-Chloroisopropyl)ether	NA NA	NA NA	NA NA	NA NA
pis(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	NA NA
Dibenzofuran Diathylphthalata	NA NA	NA NA	NA NA	NA NA
Diethylphthalate Dimethylphthalate	NA NA	NA NA	NA NA	NA NA
Di-n-Butylphthalate	NA NA	NA NA	NA NA	NA NA
Di-n-Octylphthalate	NA NA	NA NA	NA NA	NA NA
Diphenylamine	NA NA	NA	NA NA	NA NA
Ethyl Methanesulfonate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
lexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA NA	NA	NA NA	NA NA
Hexachlorocyclopentadiene Hexachloroethane	NA NA	NA NA	NA NA	NA NA
Hexachlorophene	NA NA	NA NA	NA NA	NA NA
Hexachloropropene	NA NA	NA NA	NA NA	NA NA
ndeno(1,2,3-cd)pyrene	NA	NA	NA	NA
sodrin	NA	NA	NA	NA
sophorone	NA	NA	NA	NA
sosafrole	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA
Methyl Methanesulfonate	NA NA	NA	NA NA	NA NA
Naphthalene Nitrobenzene	NA NA	NA NA	NA NA	NA NA
N-Nitrosodiethylamine	NA NA	NA NA	NA NA	NA NA
N-Nitrosodimethylamine	NA NA	NA NA	NA NA	NA NA
N-Nitroso-di-n-butylamine	NA	NA	NA NA	NA NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA
N-Nitrosopiperidine	NA NA	NA	NA	NA NA
N-Nitrosopyrrolidine	NA NA	NA NA	NA NA	NA NA
o,o,o-Triethylphosphorothioate o-Toluidine	NA NA	NA NA	NA NA	NA NA
p-Dimethylaminoazobenzene	NA NA	NA NA	NA NA	NA NA
Pentachlorobenzene	NA NA	NA NA	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	NA NA
Pronamide	NA NA	NA NA	NA NA	NA NA
Pyrene	NA NA	NA NA	NA NA	NA NA
Pyridine Safrole	NA NA	NA NA	NA NA	NA NA
Thionazin	NA NA	NA NA	NA NA	NA NA

Table E-1 Spring 2008 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	114A 05/13/08	114B-R 05/13/08	115A 05/15/08	115B 05/15/08
Natural Attenua	ation Parameters		55,15,65	53.15.65	55,15755
Alkalinity		170	230	150	220
Chloride		1.4	160	0.83	18
Dissolved Iron		ND(0.100)	0.0461 B	ND(0.100)	ND(0.100)
Dissolved Organ	nic Carbon	4.36	4.61	0.684 B	1.42
Ethane		ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Ethene		ND(2.0)	ND(0.10)	ND(0.020)	ND(0.020)
Methane		10.9	1.32	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen		ND(0.300)	ND(0.300)	ND(0.300)	0.168 B
Nitrite Nitrogen		ND(0.300)	ND(3.00)	ND(0.300)	ND(0.300)
Sulfate (turbidim	etric)	1.88	9.43	4.03	14.8

Notes:

- Samples were collected by ARCADIS and submitted to SGS Environmental Services, Inc. for analysis of volatiles, semivolatiles and natural attenuation parameters.
- NA Not Analyzed.
- ND Analyte was not detected. The number in parenthesis is the associated detection limit.
- Only those constituents detected in one or more samples are summarized. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)

J - Indicates an estimated value less than the practical quantitation limit (PQL).

Natural Attenuation Parameters

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

ARCADIS

Appendix F

Historical Groundwater Data

Table F-1 Summary Of Historical Groundwater Analytical Results For Benzene And Chlorobenzene -Well 6B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Orga	Volatile Organics										
Benzene		2	10	100	6/7	0.099	15	0.700	3.89	0.551	5.57
Chlorobenzer	ne	0.2	1	10	6/7	0.073	5.3	0.920	1.74	0.347	2.04

- 1. Samples were collected by ARCADIS between 2002 and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-2 Summary Of Historical Groundwater Analytical Results For Vinyl Chloride-Well 16B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards		Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Volatile Organi	Volatile Organics										
Vinyl Chloride		0.002	50	100	1/13	0.0015	0.0015	0.00100	0.00250	0.00172	0.00207

- 1. Samples were collected by ARCADIS between 1996and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-3 Summary Of Historical Groundwater Analytical Results For Carbon Tetrachloride-Well 54-14

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards		Detection Frequency		Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation	
Volatile Organics												
Carbon Tetrachlo	oride	0.002	5	50	5/7	0.00029	0.0036	0.00140	0.00183	0.00150	0.00109	

- 1. Samples were collected by ARCADIS between 2002 and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-4 Summary Of Historical Groundwater Analytical Results For Chlorobenzene -Well 78B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation	
Volatile Organics												
Chlorobenzene		0.2	1	10	8/8	1.9	2.5	2.20	2.20	2.19	0.233	

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-5 Summary Of Historical Groundwater Analytical Results For For Benzene And Chlorobenzene -Well 89B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Organics													
Benzene		2	10	100	16/18	0.0014	5.8	0.115	0.775	0.0980	1.47		
Chlorobenzer	ne	0.2	1	10	17/18	0.01	15	0.765	2.99	0.801	4.57		

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-6 Summary Of Historical Groundwater Analytical Results For Chlorobenzene And cis-1,2-Dichloroethene-Well 95B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-2 Standards	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Organics													
Chlorobenzen	е	0.2	1	10	16/16	0.012	10	0.685	2.62	0.479	3.91		
cis-1,2-Dichlor	roethene	0.1	50	100	2/2	0.31	0.36	0.335	0.335	0.334	0.0354		

- 1. Samples were collected by ARCADIS between 1997and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-7 Summary Of Historical Groundwater Analytical Results For Total TEQs (WHO TEFs)-Well 111B

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation
Dioxins										
Total TEQs	(WHO TEFs)	0.0000001	0.000001	3/3	###########	8.6E-08	0.00000000840	0.0000000339	0.0000000174	0.0000000451

- 1. Samples were collected by ARCADIS between 2004 and 2006 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-8 Summary Of Historical Groundwater Analytical Results For Chlorobenzene-Well 114B-R

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

	Sample ID:	Method 1 GW-2	Method 1 GW-3	MCP UCL	Detection	Minimum	Maximum	Median	Arithmetic	Geometric	Standard			
Parameter	Date Collected:	Standards	Standards	for GroundWater	Frequency	Detect	Detect	Value	Average	Mean	Deviation			
Volatile Orga	Volatile Organics													
Chlorobenze	ne	0.2	1	10	16/17	0.0083	3.3	0.330	0.688	0.270	0.886			

- 1. Samples were collected by ARCADIS between 1991and 2008 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-9 Summary Of Historical Groundwater Analytical Results For Cadmium-Well GMA3-6

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Sample ID: M Parameter Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation			
Inorganics-F	Inorganics-Filtered												
Cadmium		0.004	0.05	1/5	0.0031	0.0031	0.00250	0.00312	0.00300	0.00108			

- 1. Samples were collected by ARCADIS between 2002 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

Table F-10 Summary Of Historical Groundwater Analytical Results For Vinyl Chloride-Well OBG-2

Groundwater Quality Monitoring Interim Report For Spring 2008 Groundwater Management Area 3 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:		Method 1 GW-3 Standards	MCP UCL for GroundWater	Detection Frequency	Minimum Detect	Maximum Detect	Median Value	Arithmetic Average	Geometric Mean	Standard Deviation		
Volatile Orga	Volatile Organics												
Vinyl Chloride		0.002	50	100	1/4	0.0015	0.0015	0.00100	0.00113	0.00111	0.000250		

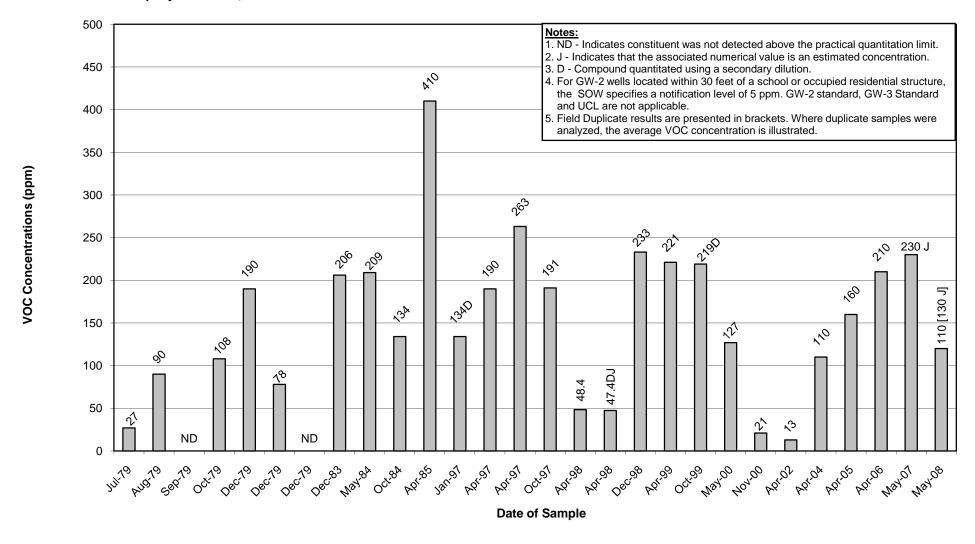
- 1. Samples were collected by ARCADIS between 2004 and 2005 and submitted to SGS Environmental Services, Inc. for analysis.
- 2. Samples have been validated as per GE's EPA-approved FSP/QAPP, General Electric Company, Pittsfield, Massachusetts.
- 3. All constituents where a sample concentration greater than 50% of an applicable groundwater quality standard was observed at the listed monitoring well during one or more baseline sampling event are summarized

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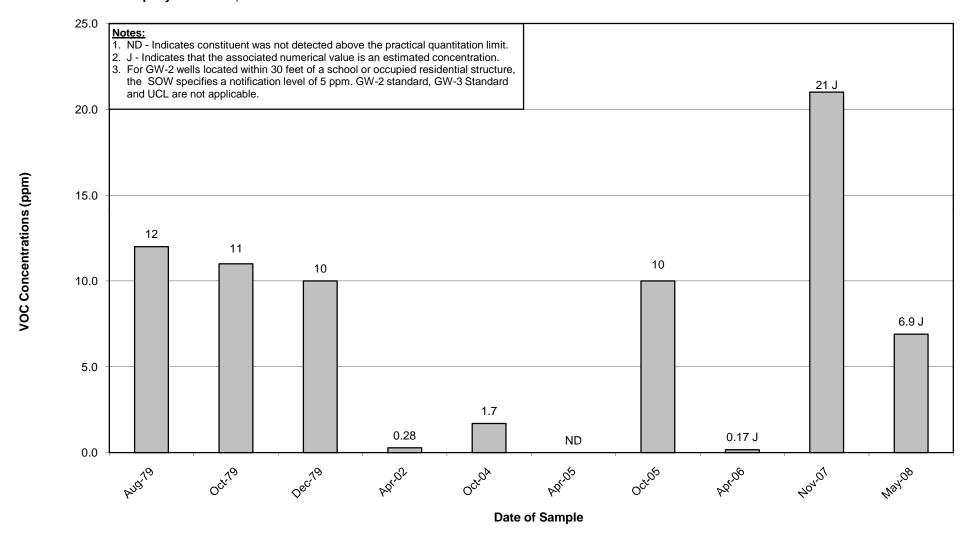
Historical Groundwater Data

Total VOC Concentrations – Wells Sampled in Spring 2008

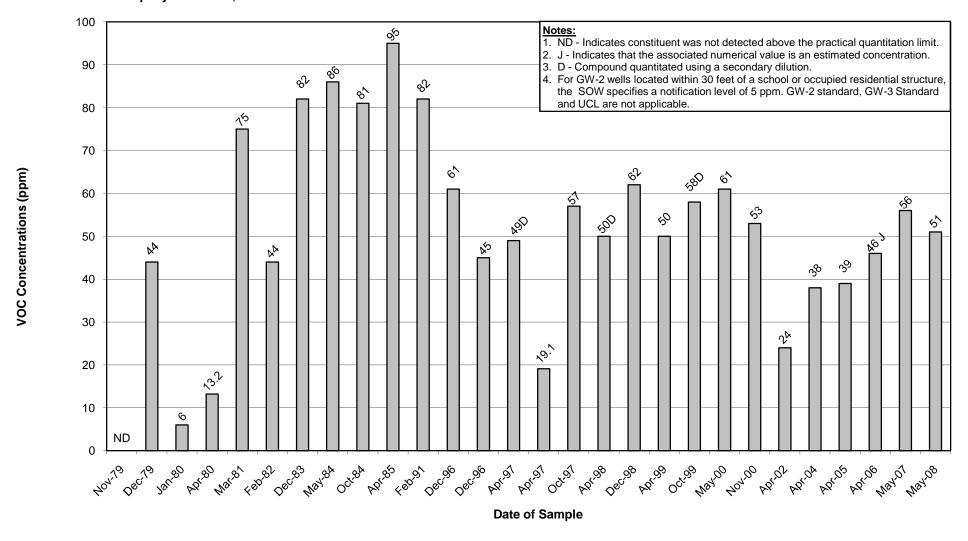
Appendix F
Well Historical 2A Total VOC Concentrations



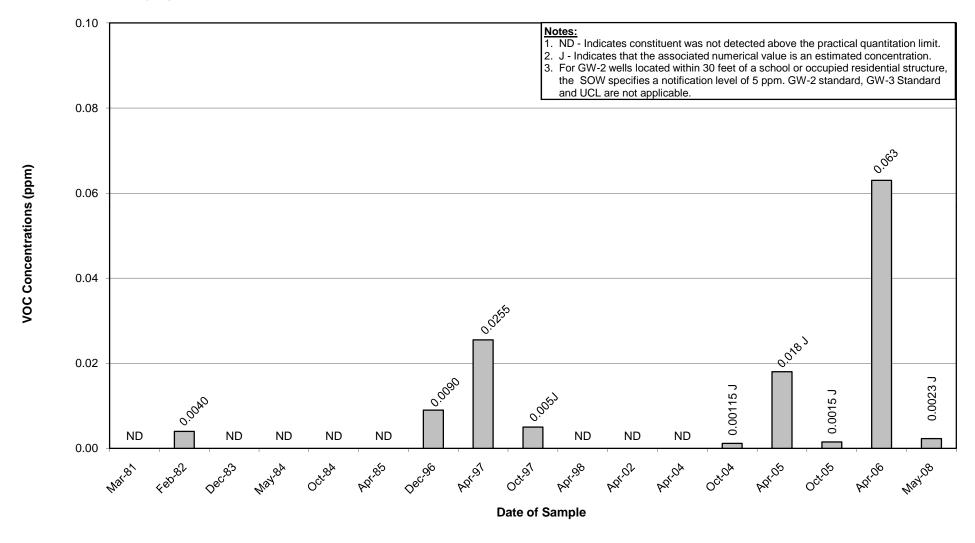
Appendix F
Well Historical 6B-R Total VOC Concentrations



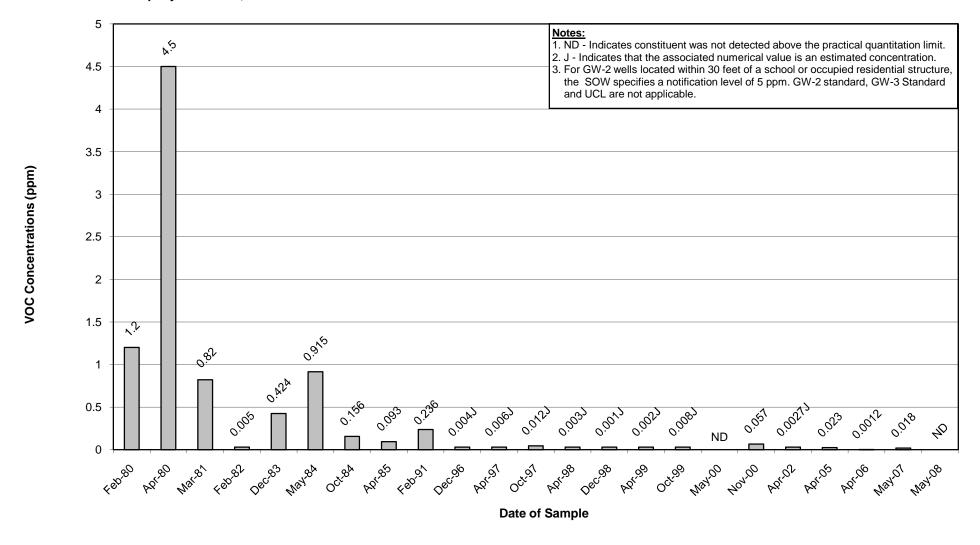
Appendix F
Well Historical 16A Total VOC Concentrations



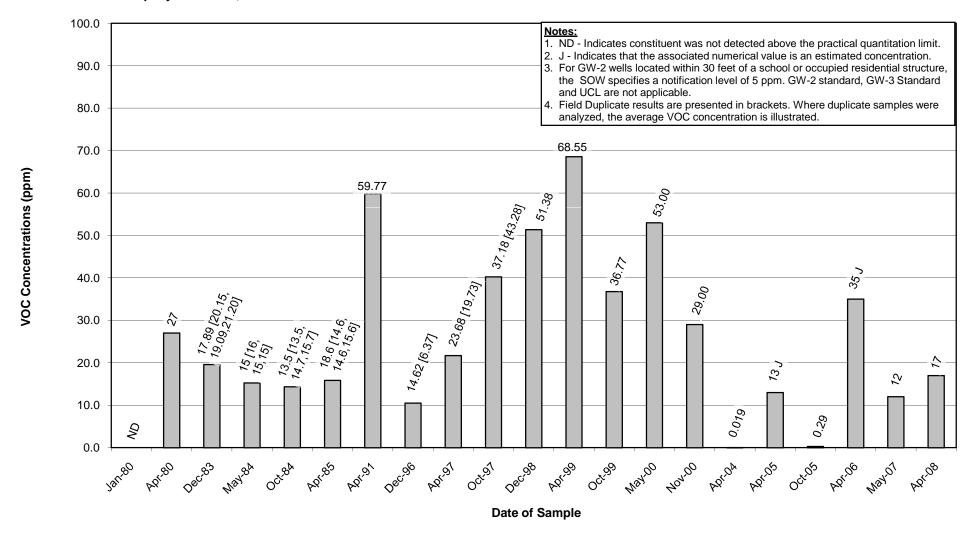
Appendix F
Well Historical 16B-R Total VOC Concentrations



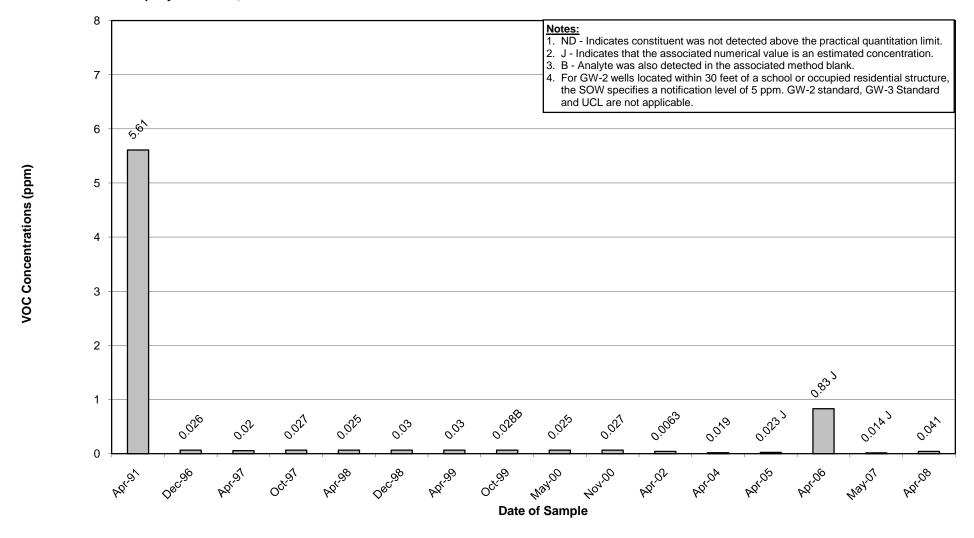
Appendix F
Well Historical 16C-R Total VOC Concentrations



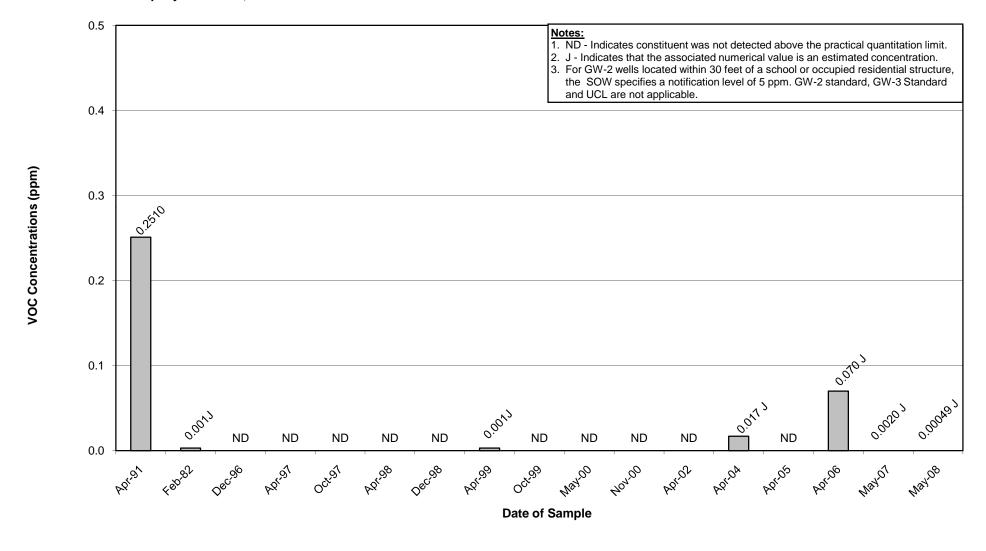
Appendix F
Well Historical 39B-R Total VOC Concentrations



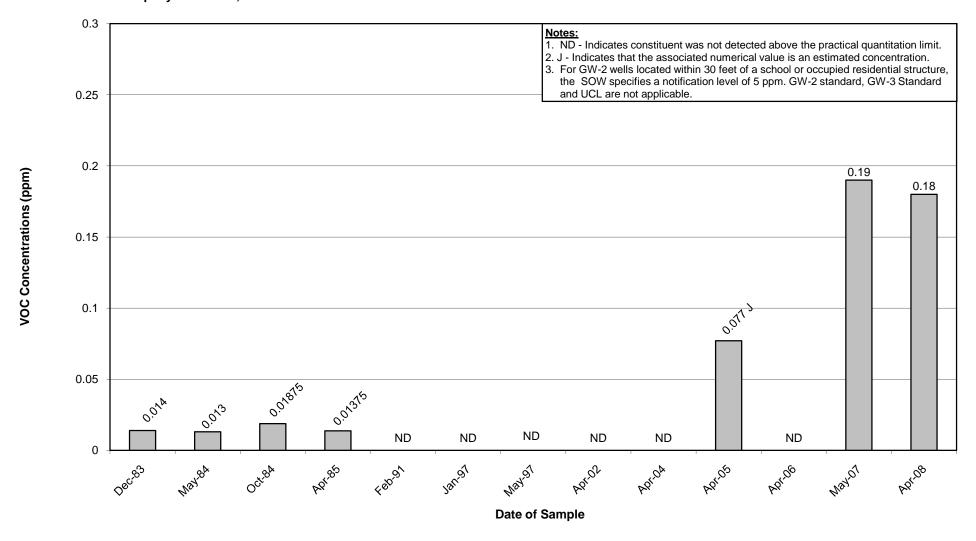
Appendix F
Well Historical 39D-R Total VOC Concentrations



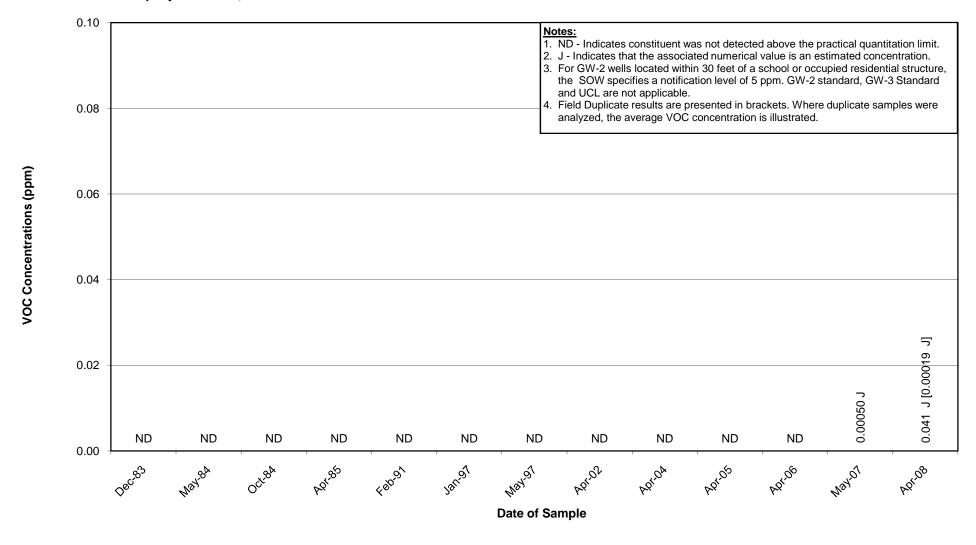
Appendix F
Well Historical 39E Total VOC Concentrations



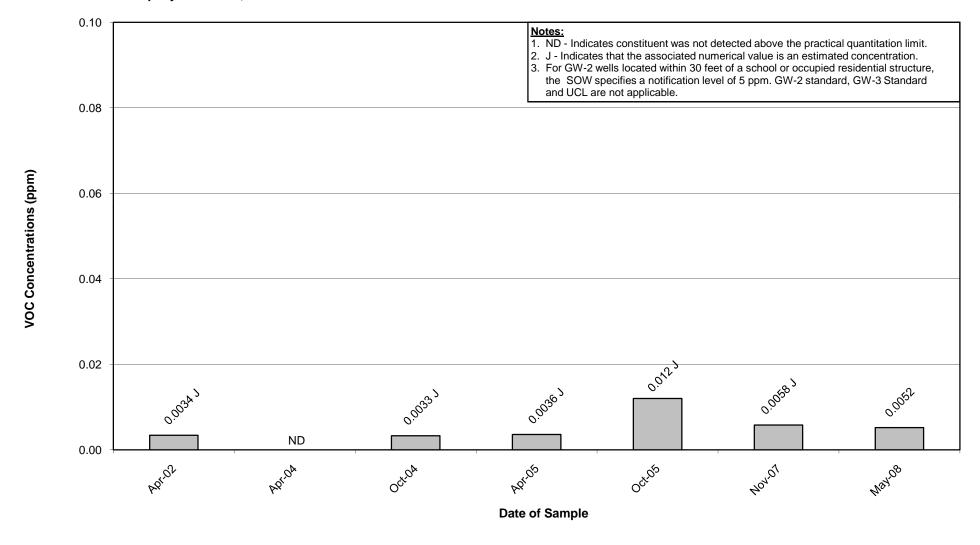
Appendix F
Well Historical 43A Total VOC Concentrations



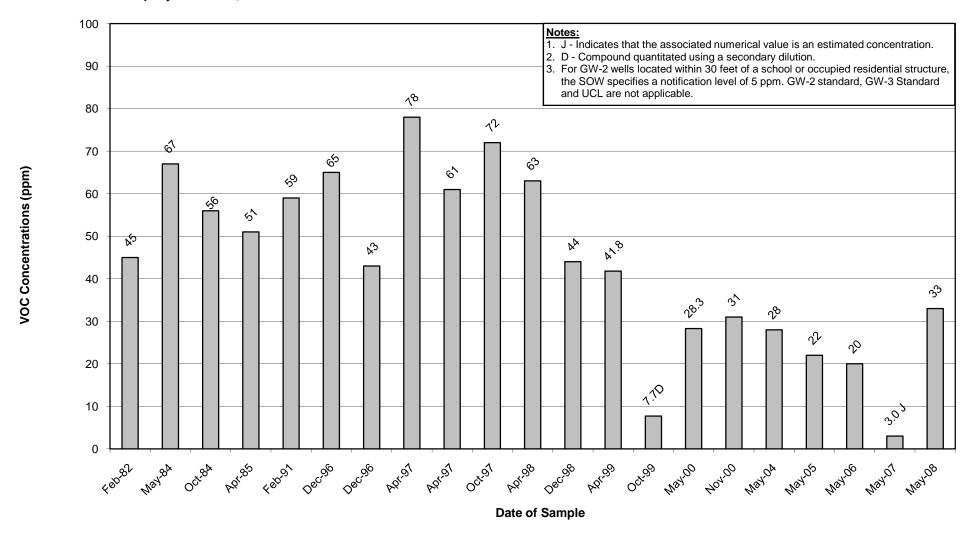
Appendix F
Well Historical 43B Total VOC Concentrations



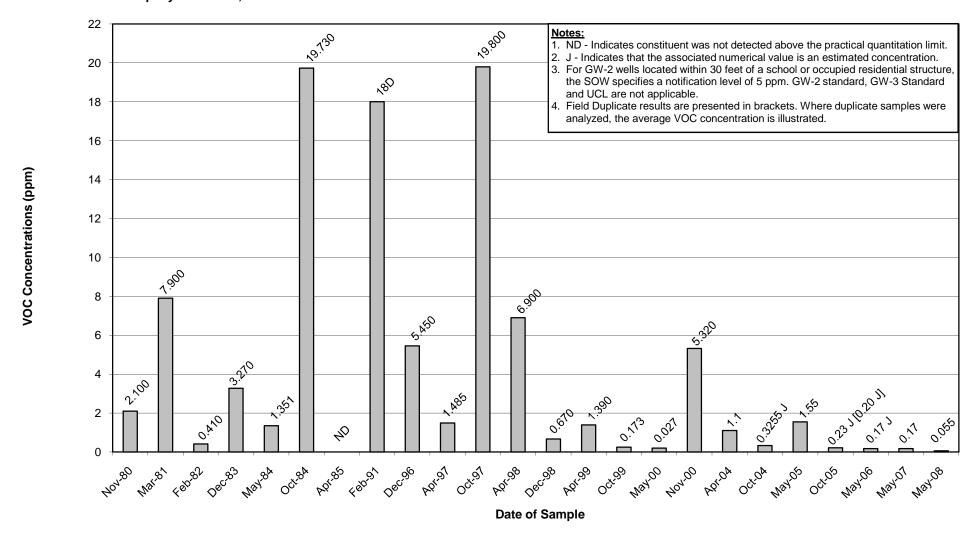
Appendix F
Well Historical 51-14 Total VOC Concentrations



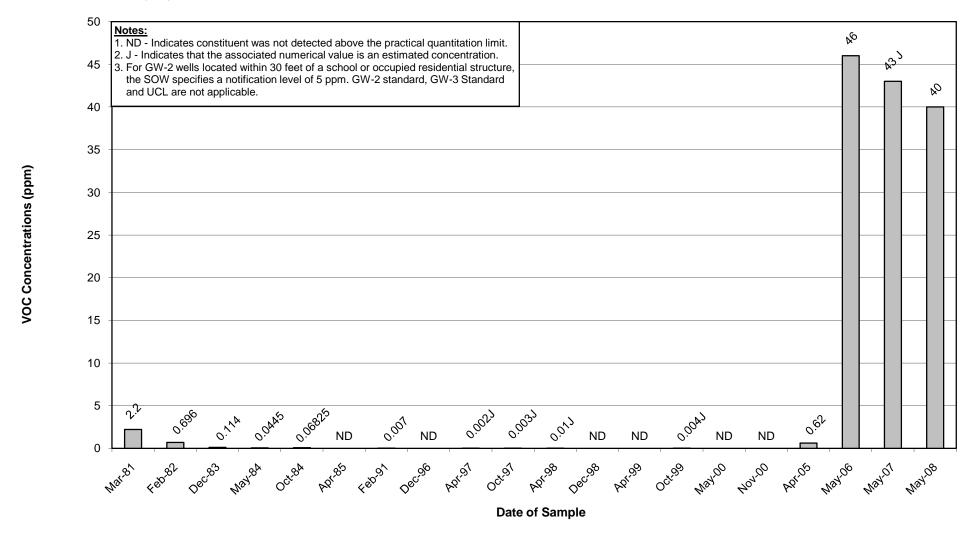
Appendix F
Well Historical 89A Total VOC Concentrations



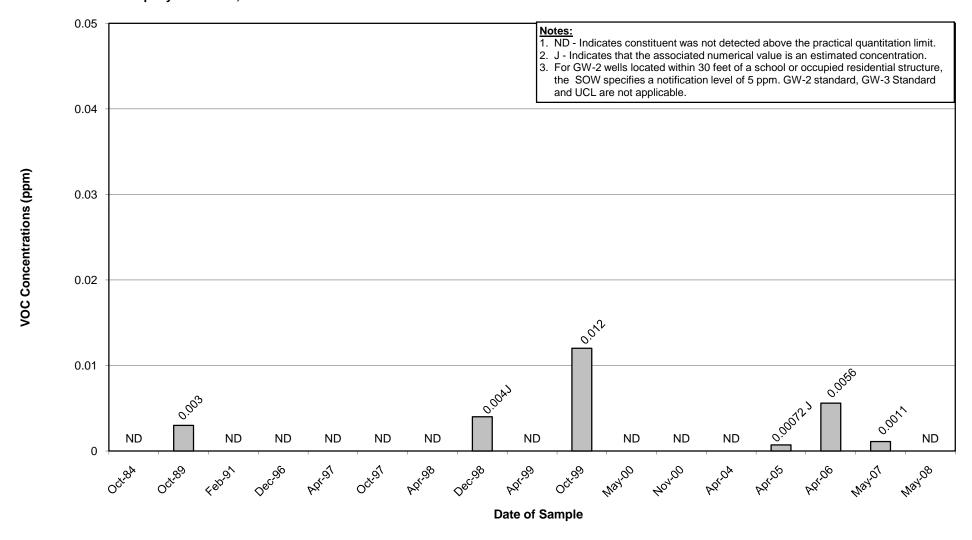
Appendix F
Well Historical 89B Total VOC Concentrations



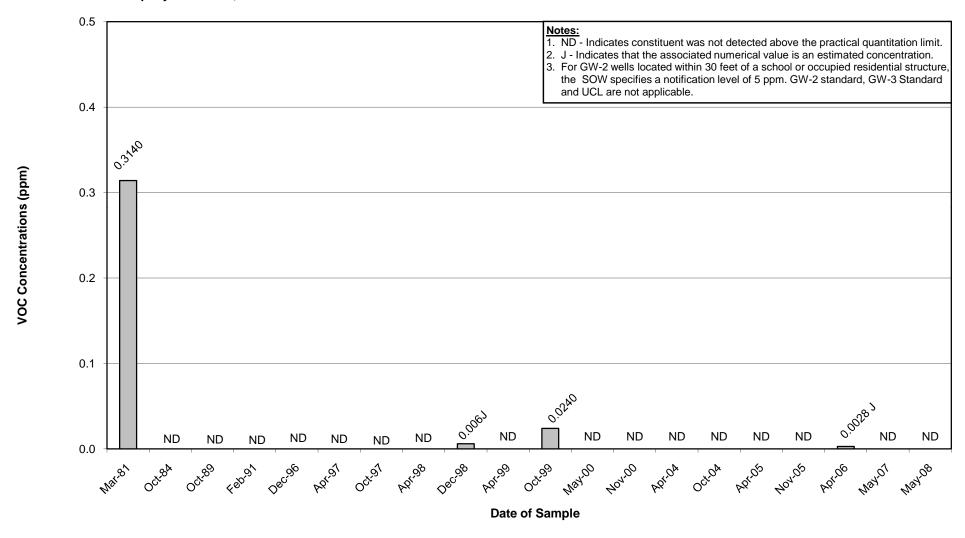
Appendix F
Well Historical 89D-R Total VOC Concentrations



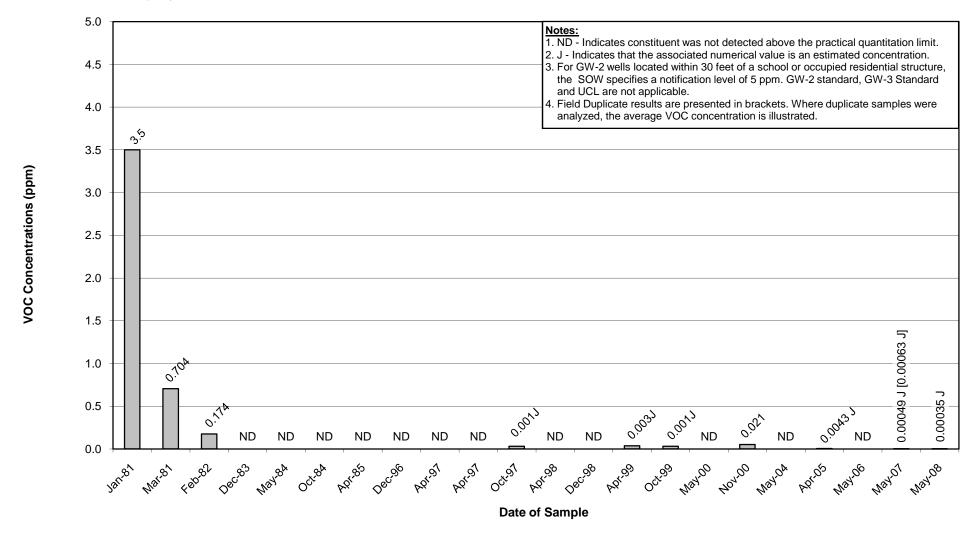
Appendix F
Well Historical 90A Total VOC Concentrations



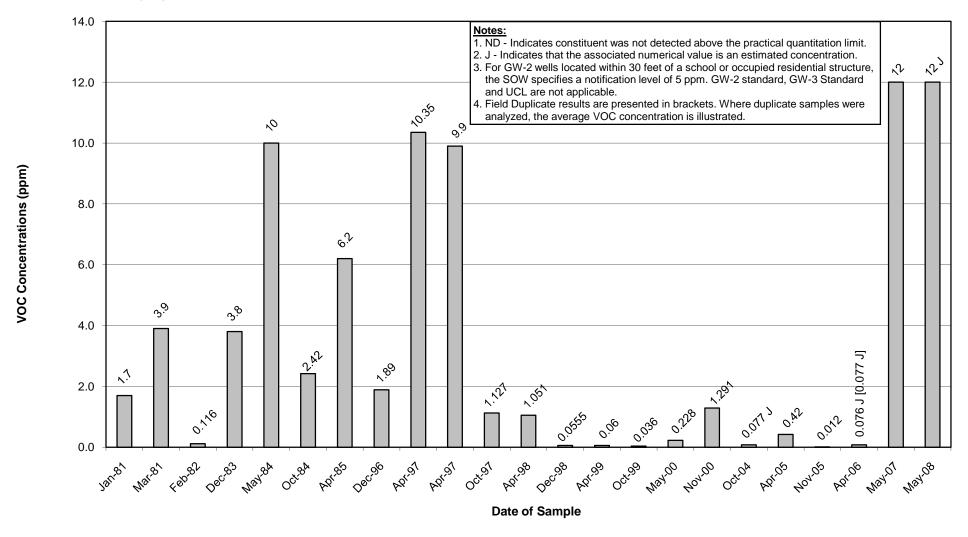
Appendix F
Well Historical 90B Total VOC Concentrations



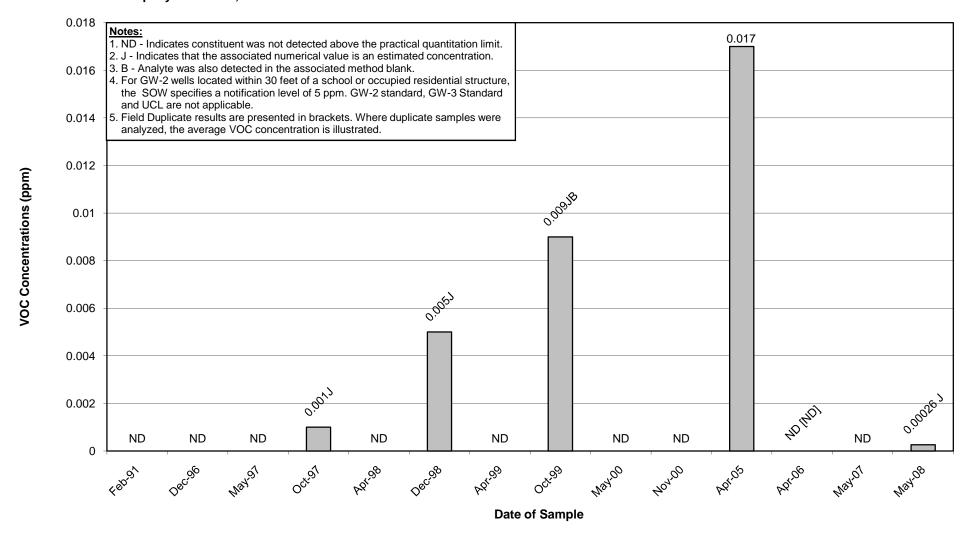
Appendix F
Well Historical 95A Total VOC Concentrations



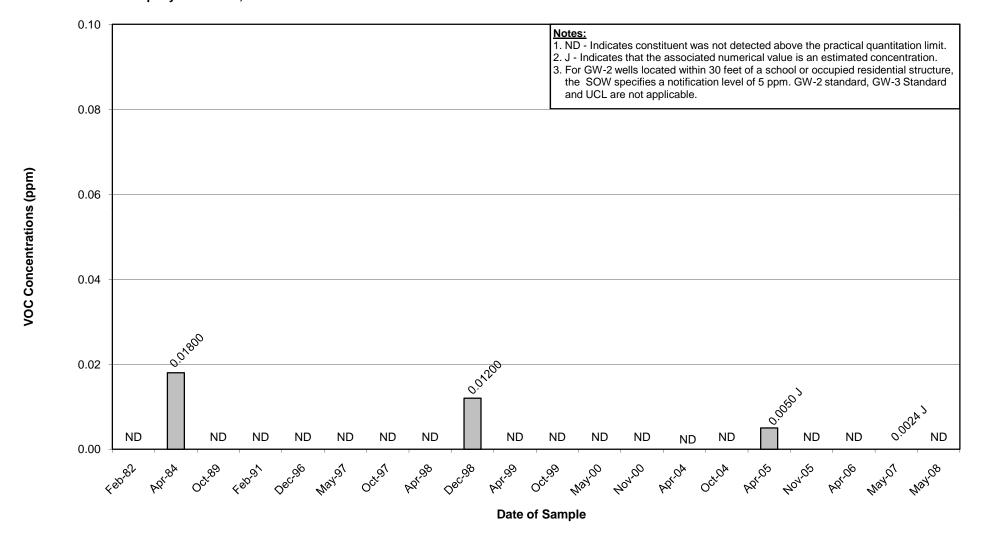
Appendix F
Well Historical 95B-R Total VOC Concentrations



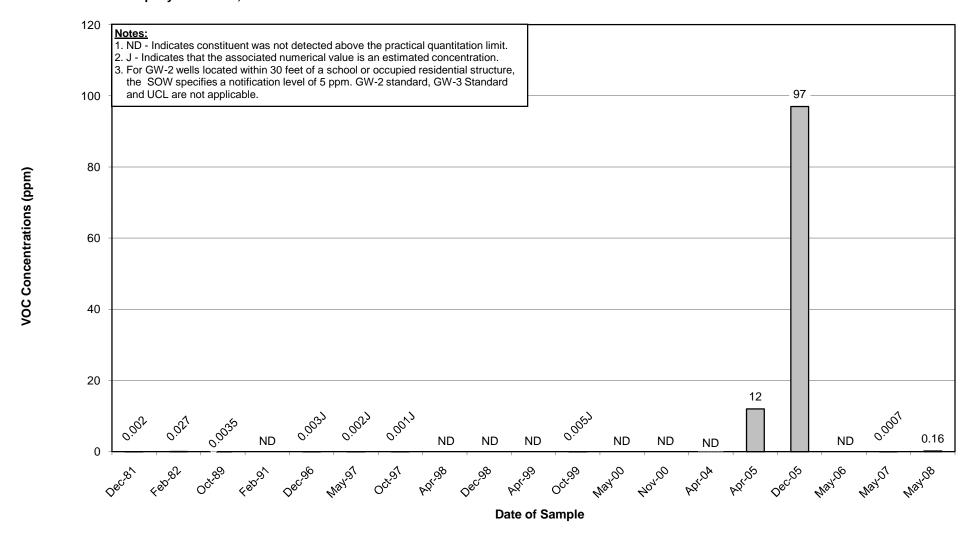
Appendix F
Well Historical 111A-R Total VOC Concentrations



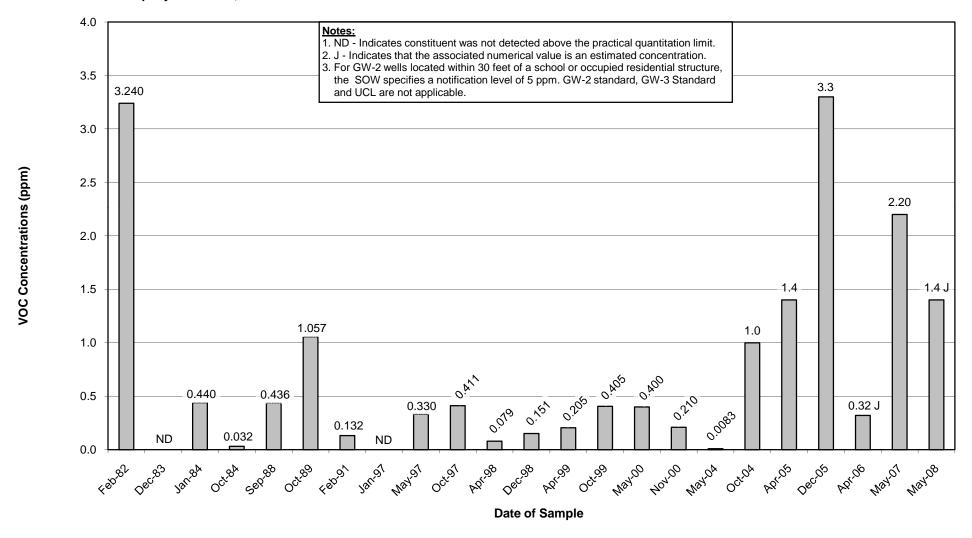
Appendix F
Well Historical 111B-R Total VOC Concentrations



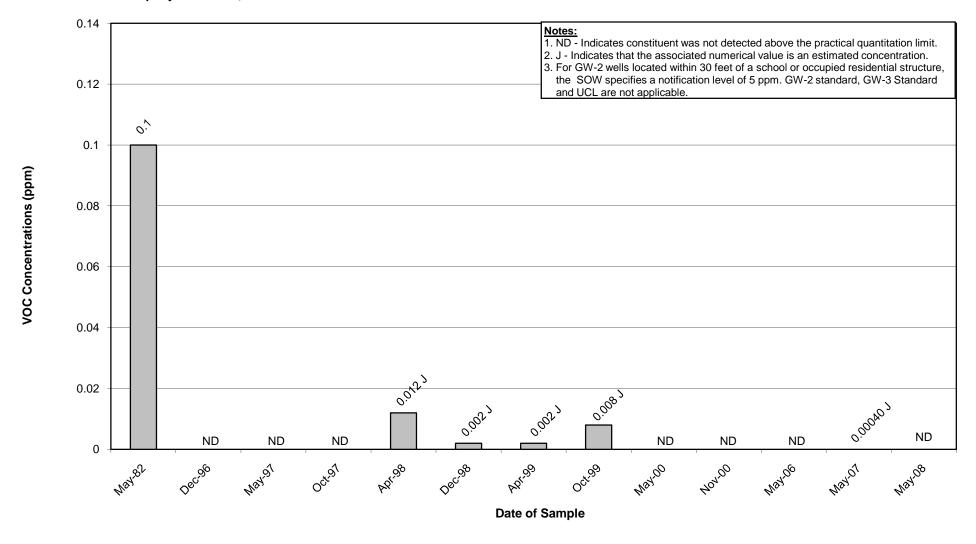
Appendix F
Well Historical 114A Total VOC Concentrations



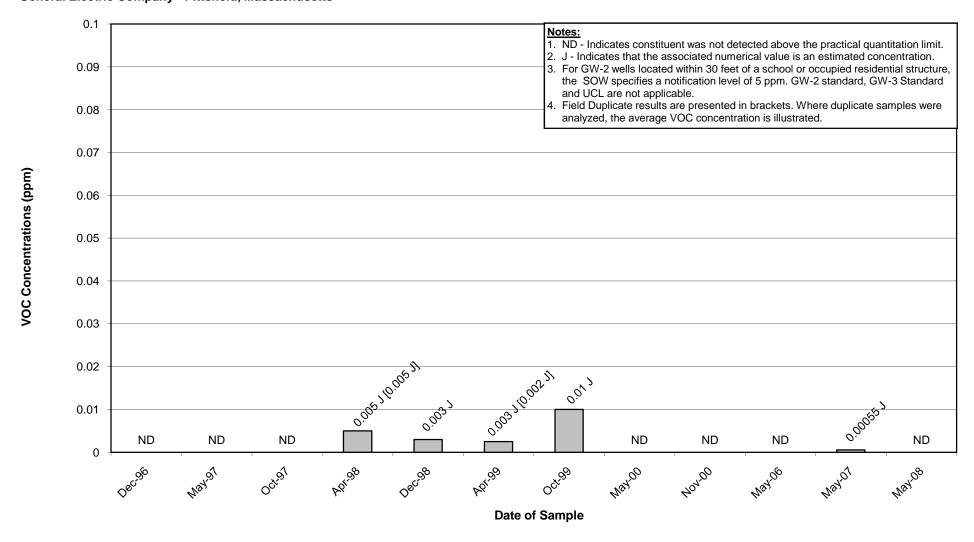
Appendix F
Well Historical 114B-R Total VOC Concentrations



Appendix F
Well Historical 115A Total VOC Concentrations



Appendix F
Well Historical 115B Total VOC Concentrations

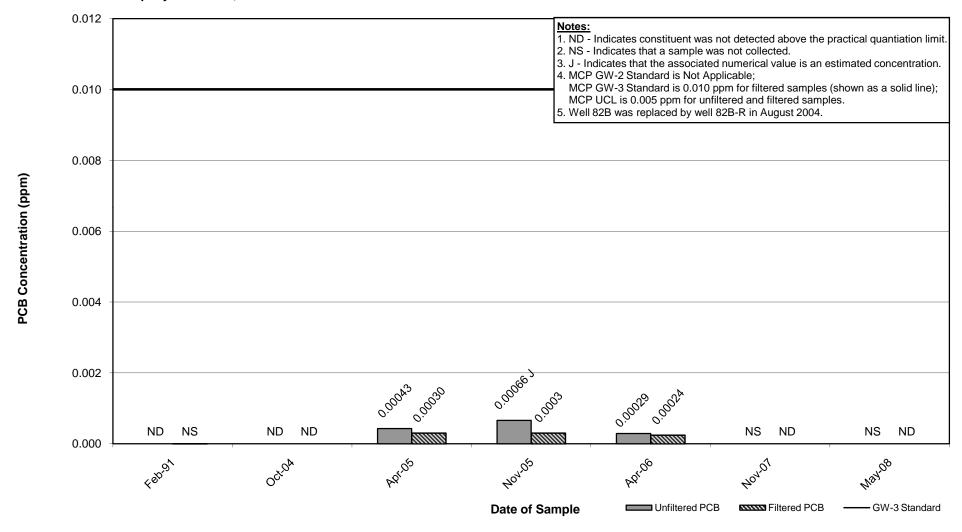


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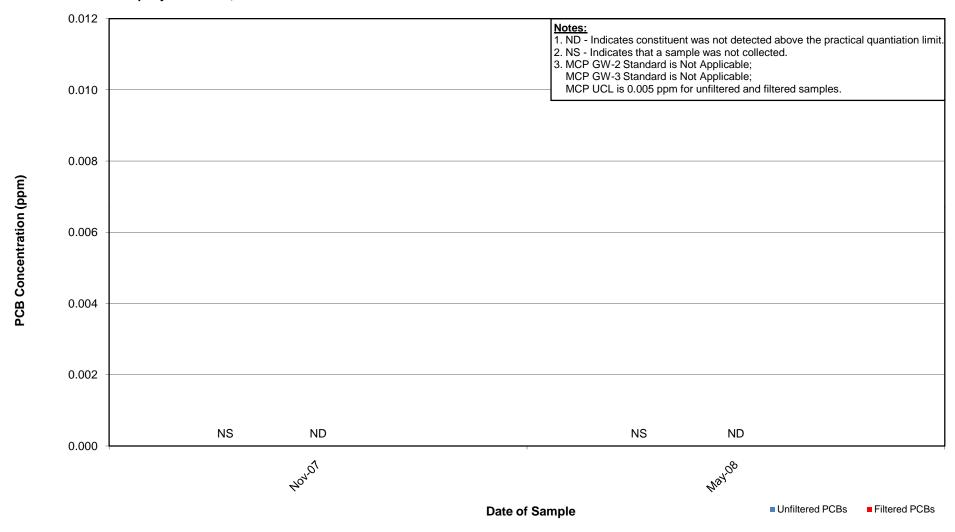
Historical Groundwater Data

Total PCB Concentrations – Wells Sampled in Spring 2008

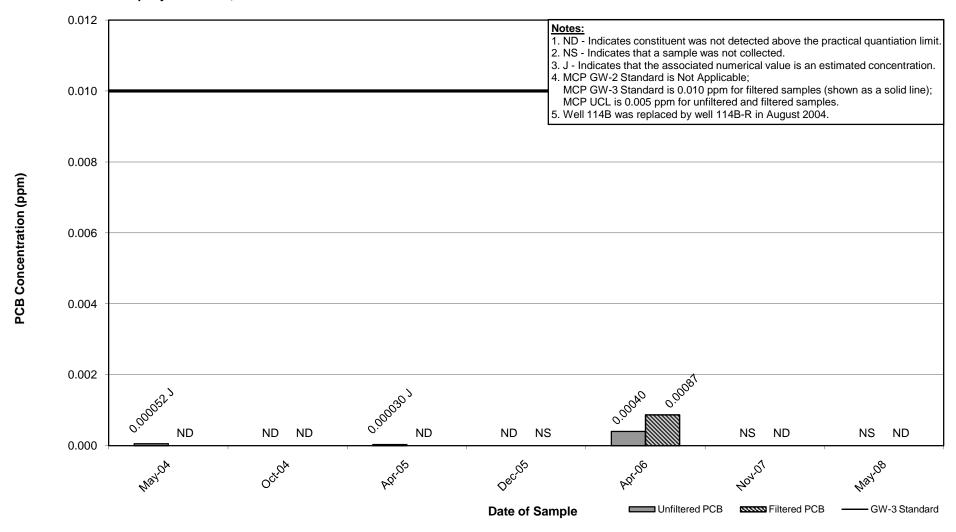
Appendix F
Well 82B-R Historical Total PCB Concentrations



Appendix F
Well 114A Historical Total PCB Concentrations



Appendix F
Well 114B-R Historical Total PCB Concentrations

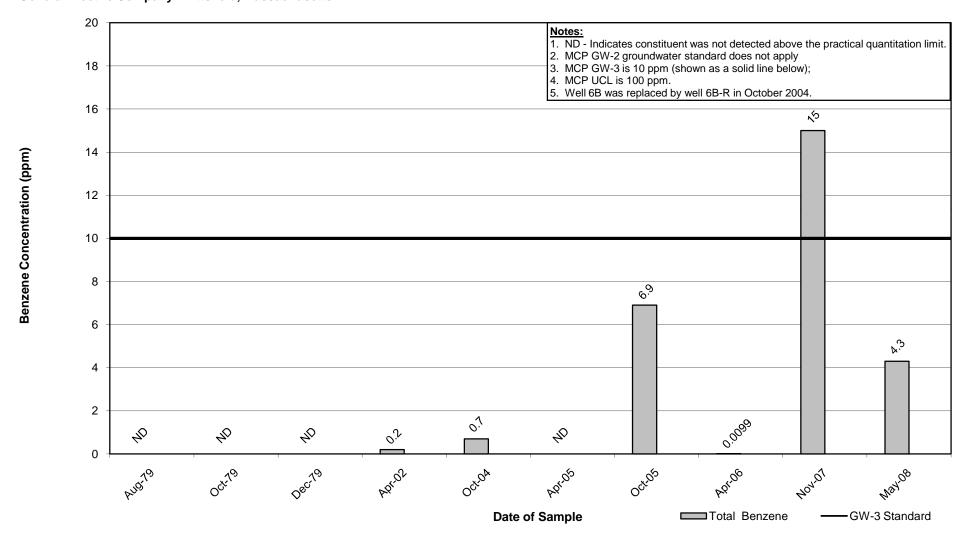


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Historical Groundwater Data

Benzene Concentrations – Selected Wells Sampled in Spring 2008

Appendix F
Well 6B/6B-R Historical Benzene Concentrations

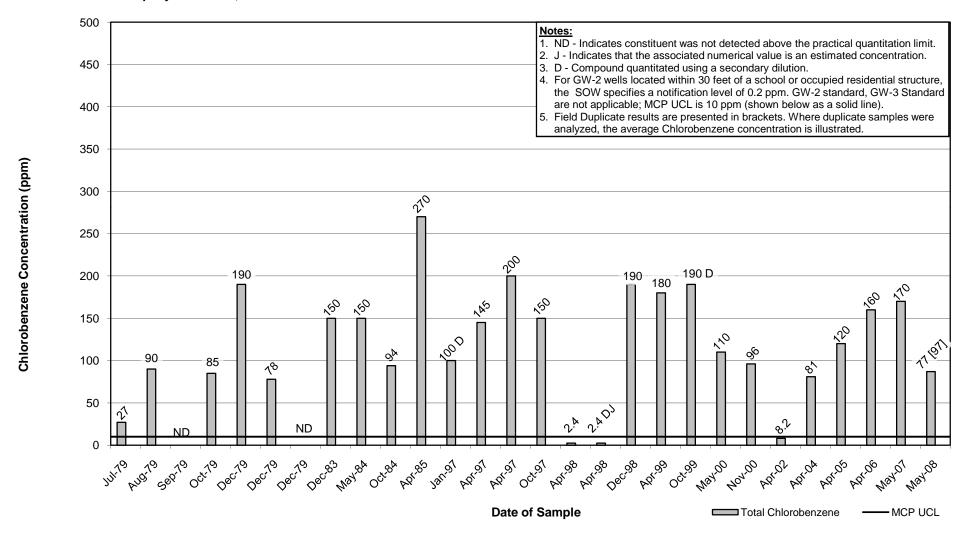


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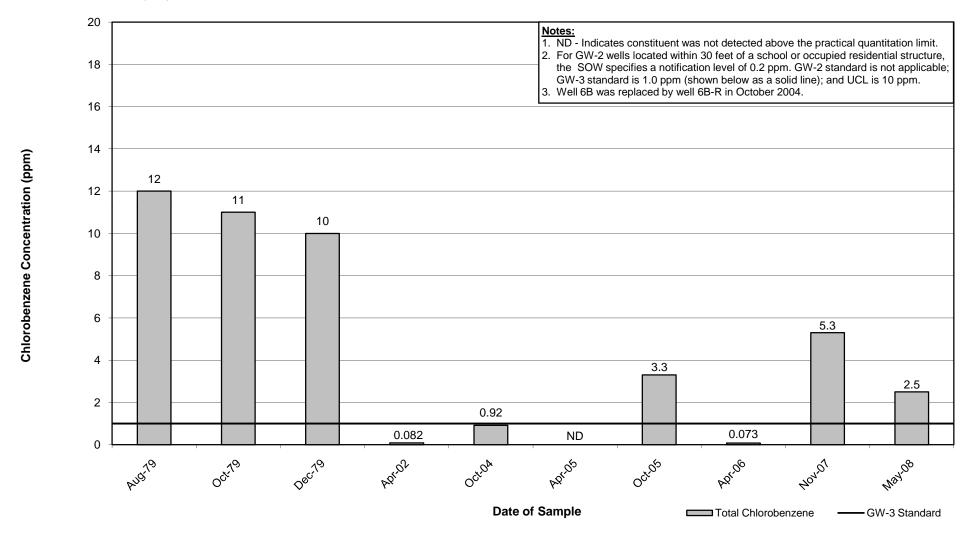
Historical Groundwater Data

Chlorobenzene Concentrations – Selected Wells Sampled in Spring 2008

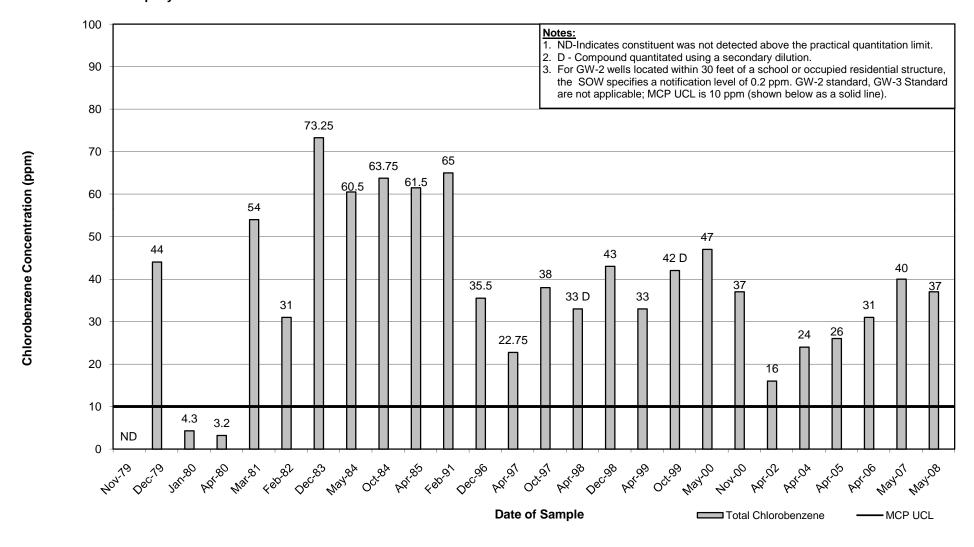
Appendix F
Well 2A Historical Chlorobenzene Concentrations



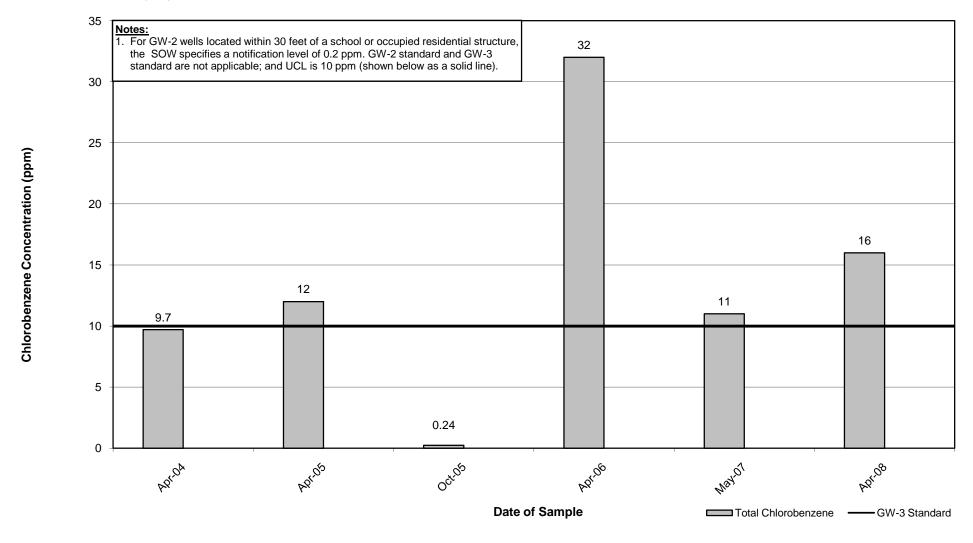
Appendix F
Well 6B & 6B-R Historical Chlorobenzene Concentrations



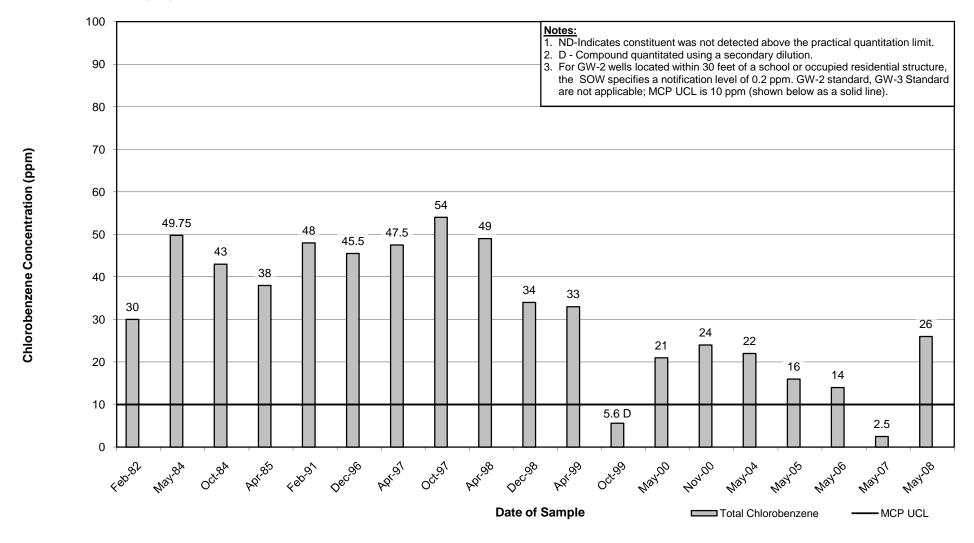
Appendix F
Well 16A Historical Chlorobenzene Concentrations



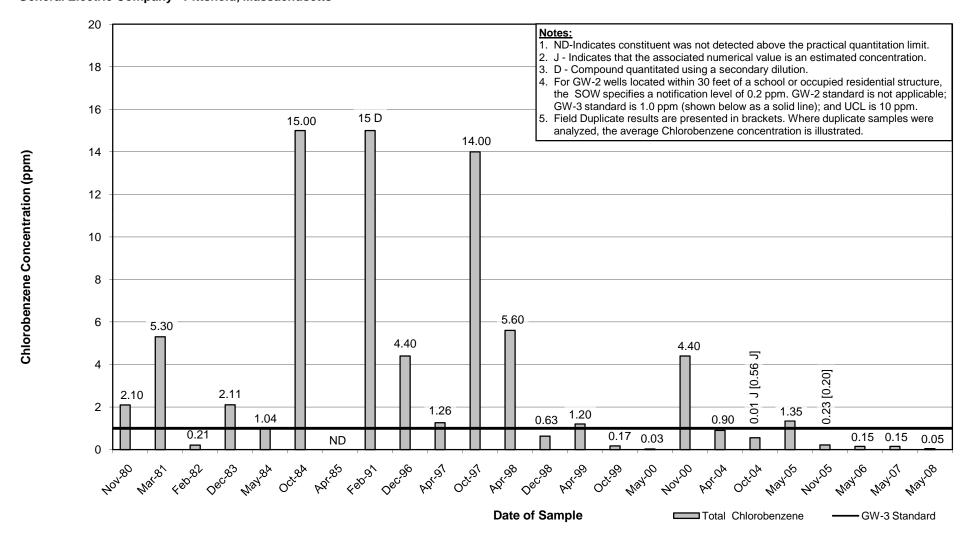
Appendix F
Well 39B-R Historical Chlorobenzene Concentrations



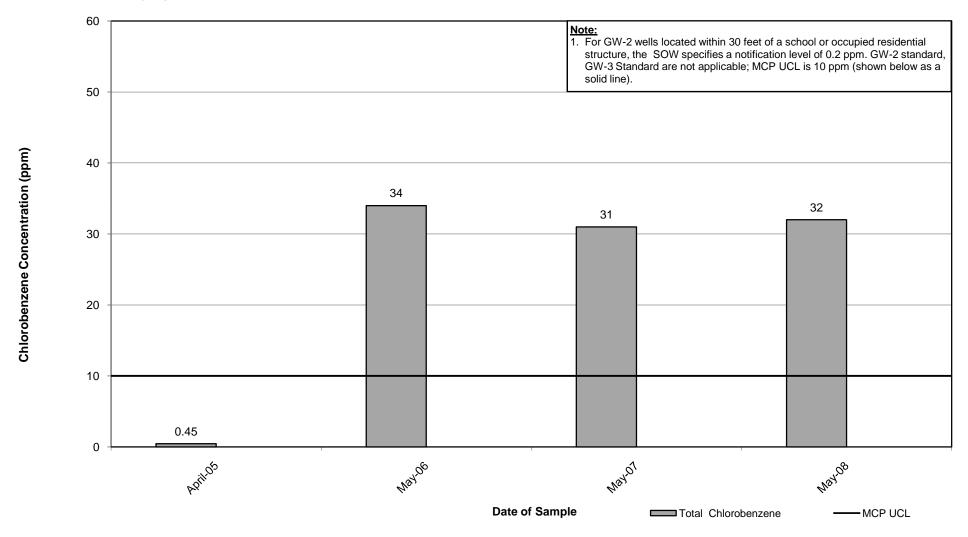
Appendix F
Well 89A Historical Chlorobenzene Concentrations



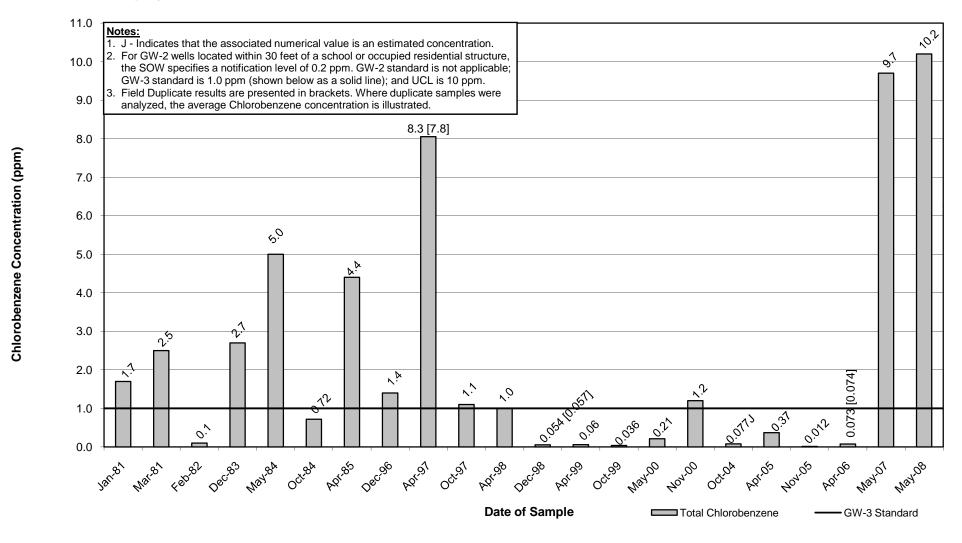
Appendix F
Well 89B Historical Chlorobenzene Concentrations



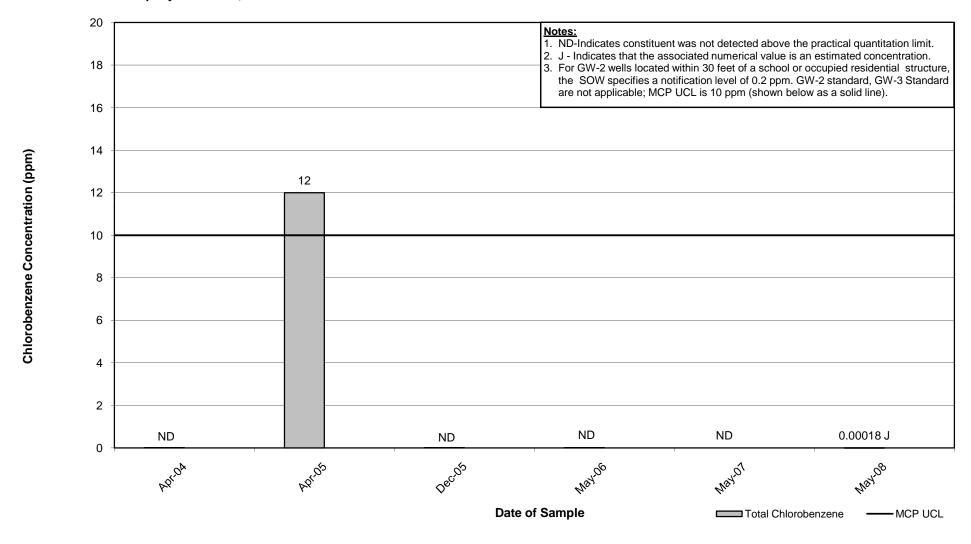
Appendix F
Well 89D-R Historical Chlorobenzene Concentrations



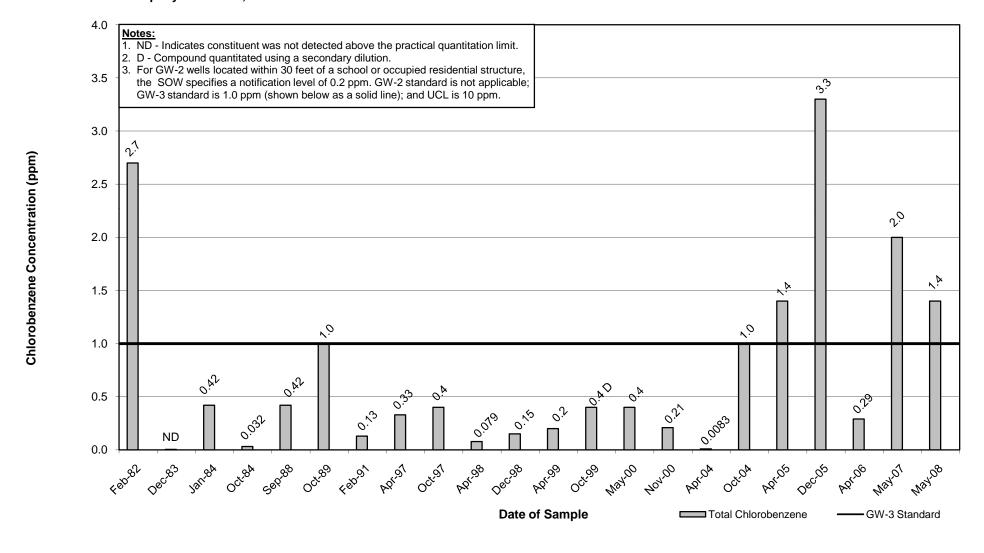
Appendix F
Well 95B & 95B-R Historical Chlorobenzene Concentrations



Appendix F
Well 114A Historical Chlorobenzene Concentrations



Appendix F
Well 114B &114B-R Historical Chlorobenzene Concentrations

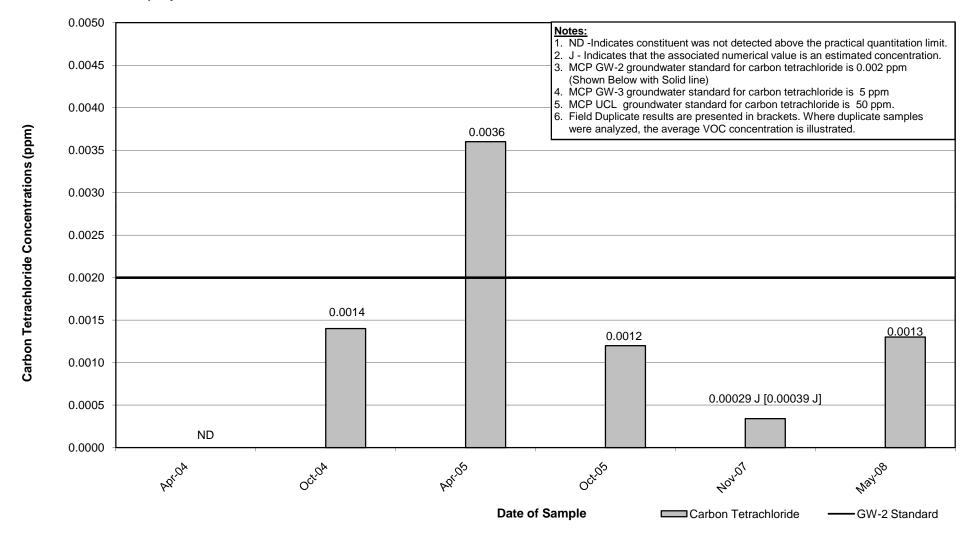


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Historical Groundwater Data

Carbon Tetrachloride Concentrations – Selected Wells Sampled in Spring 2008

Appendix F
Well 51-14 Historical Carbon Tetrachloride Concentrations



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