January 17, 2003

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

Re: GE-Pittsfield/Housatonic River Site
Silver Lake Area (GECD600)
Revised Pre-Design Investigation Work Plan

Dear Mr. Olson:

Enclosed is the General Electric Company's (GE's) revised Pre-Design Investigation Work Plan for the Silver Lake Area Removal Action (PDI Work Plan). The PDI Work Plan has been revised in response to U.S. Environmental Protection Agency's (EPA's) comments contained in its conditional approval letter dated November 21, 2002. This document is being submitted for EPA's final review and approval in accordance with the Consent Decree (CD) for the GE-Pittsfield/Housatonic River Site and the accompanying Statement of Work for Removal Actions Outside the River. The document has been revised in accordance with EPA's comments; however, GE would like to provide clarification for certain revisions, as follows (with reference to EPA's comments in its November 21, 2002 letter):

- Regarding EPA comment No. 4 – Please note that the term accounting for groundwater discharge from the lake (Q_{GWD}) has been added to third equation in Section 4.3.1.3.2 instead of the second equation, as it is an outflow variable not an inflow variable.

- Regarding EPA comment No. 8 – GE has included the performance of sequential batch leach tests (SBLTs) in Section 4.3.1.2.2, as requested. However, a recent US Army Corps of Engineers document, *Evaluation of Dredged Material Proposed for Disposal at Island, Nearshore, or Upland Confined Disposal Facilities – Testing Manual* (ERDC/EL TR-03-1, January 2003), indicates that "…if the only contaminants of concern are hydrophobic organic compounds and these COCs are or are assumed to be reversibly sorbed with no subfraction resistant to leaching, a single-point isotherm, based on one SBLT test cycle, is sufficient." Consistent with this statement, GE believes that the pore water analyses previously proposed to determine PCB concentrations are sufficient. As a result, GE requests EPA to reconsider its requirement to perform SBLTs and to allow GE to omit the performance of the SBLTs.

- Regarding EPA comment No. 10 – The precision of the fathometer is defined in Section 4.3.3.1.2 instead of Section 4.3.2.1.2.

- Section 5, Schedule – The schedule section has been modified to provide for completion of the investigations and submission of separate reports under differing timeframes for the sediment and soil investigations.

- Standard Operating Procedures (SOPs) – Two new SOPs have been attached to the document:

    - Attachment B – Standard Operating Procedure for Sequential Batch Leach Tests (this would be unnecessary if EPA agrees with GE's proposal to omit these tests); and

    - Attachment C – Standard Operating Procedure for Seepage Meters.

Please call me if you have any questions.

Very truly yours,

Andrew T. Silfer, P.E.
GE Project Coordinator

Enclosure

cc: Tim Conway, EPA
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REPORT

Pre-Design Investigation Work Plan for the Silver Lake Area Removal Action

General Electric Company
Pittsfield, Massachusetts

Revised - January 2003

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

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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 are included within the GE-Pittsfield/Housatonic River Site (the Site). In addition, the CD requires the performance of a number of natural resource restoration/enhancement actions for several portions of the Site.

The CD and accompanying *Statement of Work for Removal Actions Outside the River* (SOW) provide for the performance of numerous Removal Actions at RAAs located outside the Housatonic River. For each Removal Action, the CD and SOW establish Performance Standards that must be achieved, as well as specific work plans and other documents that must be prepared to support the response actions for each RAA. These work plans/documents include a Pre-Design Investigation Work Plan, a Pre-Design Investigation Report, and Removal Design/Removal Action (RD/RA) Work Plan(s).

This *Pre Design Investigation Work Plan for the Silver Lake Area Removal Action* (PDI Work Plan) describes the pre-design activities proposed by GE for the Silver Lake RAA, including the sediments within Silver Lake and soils located in certain areas adjacent to Silver Lake (see Figure 1-1). The PDI Work Plan was originally submitted to EPA on April 26, 2002. This version (January 2003) has been revised in response to an EPA comment letter dated November 21, 2002.

The results of these pre-design activities, in combination with usable information from prior investigations for Silver Lake and any additional pre-design activities that may be performed in the future, will be used to support the subsequent evaluation and design of response actions necessary to achieve the Performance Standards for this RAA. The results of these investigation activities will be presented in a Conceptual RD/RA Work Plan. Following EPA approval of that document, GE will then prepare a Final RD/RA Work Plan for this RAA.

1.2 Format of this Work Plan

After this introductory section, the remainder of this PDI Work Plan is presented in the following five sections:

- Section 2 describes the areas associated with the Silver Lake RAA, and summarizes pertinent background information concerning prior sediment and soil investigations and other available lake-related data.

- Section 3 discusses the applicable Performance Standards identified in the CD and SOW for sediments and soils at the Silver Lake RAA, as well as the pre-design investigation requirements. This section also discusses the applicable requirements for natural resource restoration/enhancement activities within this RAA.

- Section 4 assesses the existing data to support future RD/RA activities, and proposes additional investigations and data collection activities to support such activities.

- Section 5 presents a proposed schedule for implementing the pre-design investigations.

- Section 6 summarizes anticipated Post-Removal Site Control activities following completion of this Removal Action.

2. Background Information

2.1 General

This section of the PDI Work Plan summarizes background information concerning the Silver Lake RAA, including:

- General description of Silver Lake;
- Summary of available lake-related data collected during previous investigations;
- General description of the properties located adjacent to Silver Lake that are part of this RAA; and
- Summary of prior soil investigations that have been conducted by both GE and EPA at these adjacent properties.

2.2 Silver Lake

2.2.1 Description

Silver Lake is located immediately west of and across Silver Lake Boulevard from the 30s Complex portion of the GE Plant Area in Pittsfield, Massachusetts. The lake is bordered to the north by Silver Lake Boulevard and to the west and south by several commercial and residential properties (see Figure 1-1). Silver Lake has a surface area of approximately 26 acres and a maximum water depth of about 30 feet. It receives stormwater discharges from several municipal stormwater outfalls, a portion of the GE Plant Area (via National Pollutant Discharge Elimination System [NPDES] permitted outfalls), and several adjacent residential and commercial/industrial properties. Silver Lake discharges to the East Branch of the Housatonic River through a 48-inch-diameter concrete pipe located in the southwest portion of the lake. This pipe conveys surface water from Silver Lake and stormwater runoff from Fenn and East Streets to the Housatonic River.

2.2.2 Summary of Available Lake-Related Data

A substantial amount of sediment, surface water, and groundwater data related to the Silver Lake RAA has been collected and previously summarized in numerous documents. The documents that contain data pertinent to the Silver Lake are included in the list of References in this Work Plan. The most significant of these documents include:

- *Housatonic River Study, 1980 and 1982 Investigations,* Volume I, Stewart Laboratories, Inc. (Stewart), 1982;

- *Housatonic River Study, 1980 and 1982* Investigations, Volume II, Appendices, Stewart, 1982;

- *MCP Interim Phase II Report/Current Assessment Summary for Housatonic River -- Analytical Data Evaluation,* BBL, 1991;

- *Addendum to MCP Interim Phase II Report/Current Assessment Summary for Housatonic River,* BBL, 1992;

- *Silver Lake Data Summary,* BBL, 1993;

- *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake,* BBL, 1996a;

- *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake, Analytical Data,* BBL, 1996b;

- *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area,* BBL, 2000a; and

- *GE-Pittsfield/Housatonic River Site, Plant Site 1 Groundwater Management Area, Groundwater Quality Interim Report for Fall 2001,* BBL, 2002.

The available lake-related data that are pertinent to the response action for the lake are summarized in the following sections.

2.2.2.1 Flow Through Silver Lake

Silver Lake receives stormwater discharges from 7 currently identified municipal stormwater outfalls, a portion of the GE facility (GE Outfalls 001, 01A, and 004), and surface runoff from several adjacent residential and commercial/industrial properties (see Figure 2-1). Silver Lake is hydraulically connected (on an intermittent basis, depending on the elevation of the lake) to the East Branch of the Housatonic River by a 48-inch-diameter concrete pipe located in the southwest portion of the lake. This pipe conveys surface water from Silver Lake and stormwater runoff from Fenn Street and East Street to the Housatonic River.

Information regarding discharge from the municipal stormwater outfalls is not currently available. Information regarding GE's outfalls is described below.

GE Outfalls 001 and 01A are located within Drainage Basin 001, which captures stormwater runoff from the northwest portion of the GE facility as well as other non-GE owned properties located in the City of Pittsfield. The total surface of this drainage basin is approximately 129 acres, most of which consists of paved and/or other impervious surfaces. The existing drainline system within this drainage basin provides combined conveyance of any dry- or wet-weather flows and flows from adjacent yard drains located on the north side of the facility. In addition, surface runoff from approximately 91 acres of City of Pittsfield property drains into this system.

Under dry-weather conditions, flow within Drainage Basin 001 ranges from approximately 3 gallons per minute (gpm) to 15 gpm, and is believed to be primarily composed of groundwater infiltration into the existing piping network. With the exception of a few yard drains that discharge surface runoff through Outfall 001 downstream of Oil/Water Separator (OWS) 31W, all runoff from Drainage Basin 001 under most flow conditions is directed through OWS 31W for treatment prior to discharge to Silver Lake. If flows exceed approximately 2,500 gpm, the excess flow will overtop the 31W Diversion Structure and be routed to Silver Lake for discharge via Outfall 01A.

GE Outfall 004 is located within Drainage Basin 004, which encompasses the western end of the GE facility adjacent to Silver Lake. The total surface area of this drainage basin is approximately 4.5 acres, most of which consist of paved and/or other impervious surfaces. The existing drainline system components within this

drainage basin receive overland flow from the GE facility. No stormwater treatment facilities, bypass structures, or control devices are present within the drainline piping network leading to Outfall 004.

2.2.2.2 Bathymetry

To develop the bathymetry of Silver Lake, a survey was performed in 1994 as part of the Supplemental Phase II/RCRA Facility Investigation (RFI) activities to define the surface topography of submerged sediments. The depth of water was measured at 24 locations and elevation contours were produced by interpolating between locations and the shoreline using Softdesk™ contouring software. The results of this bathymetric survey are presented on Figure 2-2.

2.2.2.3 Physical Structures

The potential presence of structures within Silver Lake which could potentially interfere with sediment remedial activities was evaluated as part of the Supplemental Phase II/RFI. This evaluation included reviewing historical files and mapping, as well as completing a visual reconnaissance of the lake. Documentation supporting these findings is included in Appendix C of the *Supplemental Phase II/RCRA Facility Investigation Report for the Housatonic River and Silver Lake* (BBL, 1996a).

As a result of this evaluation, the following structures have been identified to exist or potentially exist (see Figure 2-1).

- Two square concrete piers, approximately 5 feet by 5 feet, are present in the southeast corner of Silver Lake, near the existing power lines. The piers are located approximately 10 feet and 20 feet from the shore, and both rise above the water surface.

- Remnants of a pressure-treated wooden flume that extended out approximately 200 feet from the eastern shore of Silver Lake. Approximately 32 pressure-treated wooden piles, approximately 10 inches in diameter each, are believed to exist in this area to support the flume. The piles end approximately 2.5 to 3 feet below the water surface.

- A second pressure-treated wooden flume is known to have extended out from the northern shore of Silver Lake at the eastern end, near the existing power lines. The distance that this flume extended from the shore is unknown. Several wooden piles and bracing materials used to support this flume exist, and several of these visibly rise above the water surface. The number of existing piles is unknown.

- A fence line within the water along the northern shore of Silver Lake is depicted on a 1964 map of the area. Although this fence could not be found during reconnaissance activities, wooden piers were located along this line at approximately 50-foot intervals. At least five of these piers are known to exist.

- A "line of proposed diverting dam" along the northern shore of Silver Lake is depicted on a 1921 drawing of this area. This line extends approximately 725 feet along the shore. It is possible that a dam and/or piles exist underwater along this line.

- In the past, a testing platform used by GE was located approximately 250 feet from the southern shore in the eastern portion of Silver Lake. The platform was approximately 50 feet by 100 feet, and a

walkway extended from the shore out to the platform. Although the platform and walkway have been removed, it is possible that piles or other support structures could still remain.

2.2.2.4 Sediment Physical Characteristics

As part of the 1991 MCP Phase II investigation, sediment samples from two locations (HCSE-11 and HCSE-12) were collected and analyzed for grain size, specific gravity, and bulk density. Silver Lake sediment samples were also collected as part of the Supplemental Phase II/RFI activities to further characterize the physical characteristics of lake sediments. As part of these activities, sediment core samples representative of the full depth of sediments were collected at four locations (SLS-1 through SLS-4) from within the lake and analyzed for grain size, specific gravity, bulk density, and water content. A duplicate sample was collected at location HCSE-11. A consolidation test was performed on one of the samples to determine time-rate-of consolidation indices. The locations of these samples are depicted on Figure 2-3. The results of these analyses are presented in Table 2-1.

Based on particle-size analysis, these data indicate that the sediments of Silver Lake are composed predominantly of silts (approximately 60 to 93% passing the No. 200 sieve). The specific gravity of these sediments ranged approximately from 2.3 to 2.6. Bulk density ranged from 64 to 83 pounds per cubic foot (PCF), water content ranged from 157 to 442%, and time-rate-of consolidation indices ranged from 0.012 to 0.023 square inches per minute.

2.2.2.5 Sediment PCBs

Sediment sampling for PCBs has been performed on several occasions in Silver Lake, resulting in the collection of more than 200 samples at depths up to 24 feet. Sediment investigations were conducted in 1980 and 1982 as part of the Stewart Investigations, in 1991 as part of the initial MCP Phase II activities, and again in 1994 and 1995 as part of Supplemental Phase II/RFI activities.

The results of these analyses indicate PCB concentrations in lake sediments up to 6,350 parts per million (ppm), with three higher concentrations between 11,000 and 20,689 ppm near an outfall in the northeast corner of the lake. Sediment sample locations and PCB results are presented on Figure 2-3. The spatial average PCB concentration in the top foot of sediments (excluding the highest concentration of 20,689 ppm) is approximately 330 ppm.

2.2.2.6 Sedimentation

Sediment cores were collected from four locations in Silver Lake to evaluate sedimentation characteristics. These cores were collected from locations SLS-1 through SLS-4 (see Figure 2-3). At each of these locations, one sediment core was collected and submitted for finely sectioned analysis of PCBs, Cesium (Cs)-137, and Beryllium (Be)-7.

Based on these data, approximate rates of sediment deposition were estimated for each location. These sedimentation rates, which are summarized in the table below, were determined in a manner consistent with the methods used to estimate sediment deposition rates in the Housatonic River, as described in Section 3.2.6 of the *Supplemental Phase II/RCRA Facility Investigation Report for the Housatonic River and Silver Lake* (BBL, 1996a).

Location	Approximate Sedimentation Rate (inches per year)
SLS-1	0.20 to 0.30
SLS-2	0.35 to 0.50
SLS-3	0.35 to 0.50
SLS-4	0.25 to 0.30

The activity (radiochemical equivalent to mass) of Cs-137 was generally high in all four cores [25 to 65 picoCuries per centimeter squared (pCi/cm^2)]), compared to an anticipated historical atmospheric Cs-137 loading of approximately 8 pci/cm^2. This is an indication that the lake is, as expected, a dominantly depositional environment, since the Cs-137 is efficiently accumulated from the watershed and maintained within the lake system. Be-7, which is also introduced by atmospheric deposition and has a very short half life (53 days), was detected at the surface at all four locations, thus indicating the presence of recently deposited sediments in the 0- to 0.5-inch segments of these cores. The PCB and Cs-137 data are illustrated on Figure 2-4. As anticipated, the maximum Cs-137 activity in the cores is associated with sediment layers deposited during the 1963-64 period when atmospheric testing of nuclear weapons, the source of Cs-137, was at its peak.

2.2.3 Summary of Available Hydrogeologic Data

This section summarizes the available hydrogeologic data in the area surrounding Silver Lake. The former or existing monitoring wells that are useful for assessing groundwater movement in the immediate vicinity of Silver Lake include the following:

RF-2	I9-9-26-MW-1	GMA1-10	B-2W
RF-3	I9-9-28-MW-1	GMA1-12	B-3W
RF-3D	I9-9-28-MW-2	ES2-19	LS-37
RF-4	GMA1-1	95-16	LS-28
RF-16	GMA1-2	95-25	LS-29
E-7	GMA1-3		MW-6R

These wells are all located east and southeast of the lake, as shown on Figure 2-5. GE is not aware of any monitoring wells located directly north, west, or southwest of the lake. Well construction specifications are summarized in Table 2-2**.** The data collected for the wells identified above are briefly summarized below.

As part of Supplemental Phase II/RFI activities, a staff gage was installed along the eastern shore of Silver Lake in October 1994 to monitor the lake's water level (see Figure 2-5). This monitoring was also intended to facilitate the assessment of the relationship between the lake's water level and groundwater levels adjacent to the lake at the GE Plant Area, as well as south of the lake. Silver Lake water levels were measured approximately monthly from October 1994 to December 1995. As noted previously, the water levels in Silver Lake are controlled by an outfall located in the southwest portion of the lake. The outfall has an overflow weir at an elevation of 776.1 feet above mean sea level (amsl). The water level of Silver Lake fluctuated over a rather narrow range from 975.60 to 976.23 feet amsl, with an average of 975.93 feet amsl. Since 1995, water levels in Silver Lake have been monitored on a periodic basis with similar fluctuations noted.

In general, groundwater elevation measurements have been made sporadically in the wells in close proximity to Silver Lake, with few regularly scheduled monitoring events. The wells identified above are included in the Plant Site 1 Groundwater Management Area (GMA 1) monitoring program.

Groundwater levels are measured quarterly in many of the wells, including RF-2, RF-3, RF-3D, RF-4, RF-16, E-7, GMA1-1, GMA1-2, GMA1-3, GMA1-10, GMA1-12, ES2-19, 95-25, LS-28, LS-29, and MW-6R. Wells I9-9-26-MW-1, I9-9-28-MW-1, and I9-9-28-MW-2 have been decommissioned, and wells 95-15, and LS-37 are not monitored. Wells B-2W and B-3W could not be located during reconnaissance activities in mid-2002. In general, groundwater elevations vary seasonally by about 2 to 4 feet. Groundwater elevations northeast of the lake range from 977 to 980 feet amsl, while east of the lake they range from 976 to 978 feet amsl, and southeast of the lake they range from 974 to 978 feet amsl. The generalized high and low water levels for the area southeast of Silver Lake are presented on Figures 2-5 and 2-6, respectively.

Groundwater interaction with Silver Lake has been evaluated using wells east of the lake (BBL, 1996a). In 1994, the hydrogeologic relationship between groundwater and Silver Lake was evaluated using wells RF-2, RF-3, and RF-16 northeast and east of Silver Lake. Water-level measurements were taken at the lake and in the wells in April 1994. The results of these activities indicated that these wells were all upgradient of Silver Lake (i.e., that groundwater in this area flows from the facility to Silver Lake). To further evaluate this relationship as part of the Supplemental Phase II/RFI activities, surface-water elevations in Silver Lake and groundwater elevations in wells RF-2, RF-3, and RF-16 were measured approximately monthly between October 1994 and December 1995. These data indicated that at well RF-16, groundwater appears to consistently discharge to the lake with a fairly steep gradient (approximately 0.04 feet per feet). Groundwater also appears to discharge to the lake most of the time at well RF-2, although at a shallower gradient; however, on some occasions the groundwater flow at this well appears to reverse direction. At well RF-3, the groundwater elevation is typically similar to the Silver Lake elevation, which implies side gradient conditions with no or little flow toward the lake.

BBL performed slug tests from August 15 through August 17, 2001 on four of the monitoring wells identified above (RF-3, RF-3D, RF-4, and GMA1-3). All slug tests were rising head tests. Hydraulic conductivity values were calculated by applying the Bower-Rice solution for unconfined aquifers and using AQTESOLV software. The hydraulic conductivity values varied considerably, ranging from approximately 85 to 0.1 feet per day. A value was not determined for RF-3D due to a very rapid water-level recovery during the slug test, which indicates a high hydraulic conductivity (i.e., greater than 85 feet per day). Slug tests were also performed on several Lyman Street parking Lot Area monitoring wells south of Silver Lake, including LS-28, LS-29, LS-37, and E-7 listed above. Results of these tests show hydraulic conductivity values ranging from 2.9 to 130 feet/day for natural sands and 1.4 to 17 feet/day for fill materials. The hydraulic conductivity results demonstrate considerable heterogeneity, and probably stratigraphic variability.

2.2.4 Summary of Available Wind Data

Several available sources of information provide varying levels of wind speed and direction data. The preliminary design for the shoreline armor layer presented in the SOW used data that were obtained from the Ambient Air Monitoring for PCB Study (Zorex, 1992). During this study, wind speed and direction were periodically recorded at an on-site weather station located at the East Street Area 2 site at the GE facility. Wind data were collected for 1 year, from August 1991 to August 1992. These data indicated that the maximum wind speed was 27.22 miles per hour and that the predominant wind direction was from the west.

Wind information was also obtained from a database provided by Quantitative Environmental Analysis, Inc (QEA). The database is based on data obtained from the National Climatic Data Center. The database consists of calculated minimum, maximum, and average daily wind speeds and wind directions for each month from each location, calculated from observations collected over the January 1984 to October 1999 time period.

According to the database, the maximum average daily wind speed for each month ranged from 15.9 to 25.7 miles per hour at the Albany weather station, and from 15.2 to 27.9 miles per hour at the Hartford weather station. At both stations, the general wind direction was from the southwest (QEA, 2002).

2.3 Silver Lake Adjacent Properties

2.3.1 Description

As described in the CD and SOW, the Silver Lake RAA includes bank soils related to several properties that are adjacent to the lake, including seven residential properties, nine separately owned commercial/industrial properties (two of which consist of two commonly owned tax parcels), and an unimproved strip of land (considered to be in "recreational" use) along the northern and eastern sides of the lake, most of which is owned by the City of Pittsfield. The specific properties whose banks are included in the Silver Lake RAA are listed in Table 2-3, and their locations are shown on Figure 1-1. As shown on Figure 1-1, collectively these properties represent the majority of the area immediately adjacent to Silver Lake. Excluded from this collective area are four residential properties (Parcels I9-9-26, I9-9-27, I9-9-28, and I9-9-29) that were addressed by GE separately from the CD under an Administrative Consent Order executed between GE and MDEP, effective November 13, 2000. Additionally, response actions related to groundwater at the Silver Lake RAA are being addressed under the CD as part of activities for the Plant Site 1 GMA (GMA-1). At the present time, these activities consist of the performance of baseline monitoring in accordance with GE's *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (BBL, 2000a), as conditionally approved by EPA, with subsequent modifications agreed upon by GE and EPA.

2.3.2 Summary of Available Soil Analytical Information

Information from prior soil investigations performed by GE for properties that are part of the Silver Lake RAA has been previously summarized in numerous submittals to EPA and/or MDEP. The most significant of these include:

- *Report on Silver Lake Short-Term Measure Evaluation and Related Activities*, BBL, 1994b;
- *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake,* BBL, 1996a;
- *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake Analytical Data for September 1994 through December 1995*, BBL, 1996b; and
- *Sampling Results for Parcels I9-9-25 through -30 (RTN#s: 1-12281, 1-12289, and 1-12536) Pittsfield GEACO210 and GEACO230,* BBL, 2000b.

The investigations performed by GE and summarized in the reports listed above resulted in the collection of numerous soil samples from the properties adjacent to Silver Lake. The samples from such adjacent properties, excluding samples from the four previously remediated residential properties (other than those that could affect the banks of adjacent properties), include 121 soil samples for analysis of PCBs and 14 soil samples for analysis of some or all of the constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents (benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine) (Appendix IX+3).

In addition to the prior soil investigations performed by GE, EPA has performed soil sampling activities for several properties adjacent to Silver Lake as part of its Superfund Technical Assessment and Response Team (START) Program. The majority of EPA's data has been provided to GE in START Program reports prepared by EPA. A limited portion of such information has also been provided to GE through an ongoing database exchange conducted between GE and EPA. In total, EPA investigations have resulted in the collection and analysis of 286 soil samples for PCBs. The PCB samples collected by EPA were analyzed for PCBs using an analytical procedure carried out at a mobile laboratory, with approximately 10% of those samples also sent to EPA's regional laboratory for confirmation analysis. No EPA soil samples have been analyzed for Appendix IX+3 constituents.

The locations, depths, and results of prior soil investigations performed by GE and EPA for PCBs and other Appendix IX+3 constituents at properties adjacent to Silver Lake (including the samples from the four previously remediated residential properties) are presented in Tables 2-4 and 2-5 and are further discussed in Section 4.4 of this PDI Work Plan. In summary, more than 640 soil samples have been collected and analyzed for PCBs at depths up to 16 feet with concentrations ranging from non-detect to 13,000 ppm (sample I9-9-28-SS-9, 0-0.5 ft., previously remediated). Additionally, more than 90 soil samples have also been analyzed for other Appendix IX+3 constituents (again including the samples from the four previously remediated properties). The results of these analyses indicate the presence, at varying concentrations, of certain semi-volatile organic constituents (SVOCs), polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), and inorganics. Subject to certain conditions, the existing data can be incorporated into the pre-design activities for this RAA as required under the CD and SOW. Section 4.4.1 of this PDI Work Plan describes the process by which the existing soil data (excluding the data from the four previously remediated residential parcels that would not affect the banks of adjacent properties) were evaluated and, if appropriate, included in the development of the proposed pre-design investigations.

3. Applicable Performance Standards and Pre-Design Investigation Requirements

3.1 General

This section summarizes the sediment- and soil-related Performance Standards established in the CD and SOW for the Silver Lake RAA. In general, sediments will be addressed by removing a maximum of 400 in-situ cubic yards (cy) in the vicinity of the existing outfall from the GE facility to the lake, installing a cap over the entire bottom of Silver Lake, armoring the cap along the shoreline, and performing certain natural resource restoration/habitat enhancement activities. For bank soils, the CD and SOW identify soil removal actions as needed to attain several concentration-based Performance Standards for PCBs and non-constituents in soils.

In general, as an initial step toward evaluating the response actions that may be needed to achieve these Performance Standards, the CD and SOW require the performance of pre-design investigations, and establish the requirements for such investigations. Those requirements are also described in this section.

3.2 Performance Standards for Sediment Removal and Capping

Response actions for the sediments in Silver Lake must achieve the Performance Standards set forth in Section 2.6.2 of the SOW. The Performance Standards for the removal and capping activities themselves (i.e., excluding Post-Removal Site Control activities) are summarized below.

- GE shall remove a maximum of 400 in-situ cy of sediments from an area in the general vicinity of the existing outfall from the GE Plant to the lake, and shall replace the removed sediments and restore and vegetate that portion of the affected area that is not underwater in coordination with the installation of the sediment cap and the performance of the natural resource restoration/enhancement activities (described in Section 3.6 below).

- GE shall install a cap over the entire bottom of the lake to achieve the design standards set forth in Attachment K to the SOW. The cap shall include an isolation layer, positioned directly above the sediments, over the entire lake bottom. This layer shall consist of silty sand with a presumptive thickness of 10 inches if geotextile is placed between the sediments and the cap (or 12 inches, installed in two 6-inch lifts, if a geotextile is not placed between the sediments and cap), an organic carbon content of 0.5% (as total organic carbon), and concentrations of PCBs at non-detectable levels and other constituents at background levels, as approved by EPA. The presumptive thickness of the cap shall be based on use of a presumptive 6-inch isolation layer to control PCB migration from the underlying sediments to the surface water of the lake, plus an additional 4 inches of silty sand if geotextile is placed between the sediments and the cap (or an additional 6 inches of silty sand if such a geotextile is not used) to account for uncertainties associated with potential bioturbation and mixing. GE shall perform pre-design investigations (as described herein) to confirm the design parameters that support the presumptive thickness and organic content of the isolation layer, as described in Attachment K to the SOW. If the pre-design investigations indicate that a thicker cap and/or higher organic content is necessary, then the cap thickness and/or organic content will be modified using revised input parameters based on the results of the pre-design investigations and the procedures/equations presented in

Attachment K to the SOW. GE shall ensure that the design cap thickness is achieved over the entire bottom of the lake.

- The capping system shall also include an overlying armoring layer of stone, incorporated along the shoreline as necessary to prevent potential erosion of the isolation layer due to wind-induced wave action.

3.3 Pre-Design Investigation Requirements for Sediment Removal and Capping

To support the performance of RD/RA activities, GE is required to conduct certain pre-design investigation activities. For the sediments in Silver Lake, specific pre-design sampling requirements are not presented in the CD and SOW. Rather, the SOW establishes certain general requirements and indicates that the specific scope of pre-design activities shall be specified in the PDI Work Plan.

Section 2.6.3 of the SOW addresses the general requirements for investigations related to sediment removal, indicating that additional sampling will be performed to support response actions associated with the Performance Standard for removal of up to 400 cy of sediment in the vicinity of the existing outfall from the GE Plant to the lake. Specifics regarding the locations and depths are not provided in the SOW.

With respect to sediment capping, Section 4.3.3 of Technical Attachment K to the SOW states the PDI Work Plan shall identify activities to evaluate the existing conditions in Silver Lake, confirm the assumptions underlying the cap design or assist in evaluating other cap configurations, and investigate various methods of cap placement that would result in the least amount of disturbance to the existing sediments.

As noted in Section 4.3.3 of Technical Attachment K to the SOW, the geotechnical portion of the pre-design investigation sampling program for sediment capping was identified as having three major goals -- profiling soft sediment thickness, characterizing surficial sediment, and characterizing deeper sediments. Specific geotechnical tests identified included tests of water and organic content, Atterberg limits, particle size, specific gravity, and bulk density. It was also stated that the pre-design investigations will include identifying underwater obstacles that could impact placement of the cap system.

As further noted in Section 4.3.3 of Technical Attachment K to the SOW, additional pre-design investigation activities related to sediment capping include developing a water budget for Silver Lake and pore water sampling for subsequent PCB and dissolved organic carbon (DOC) analysis. The water budget was intended to help define the rate and direction of groundwater flow. Analysis of pore water was intended to be used to evaluate partitioning and transport of PCBs within the sediments and the cap.

In consideration of the above requirements and guidelines, GE has developed the pre-design investigation requirements for the sediment removal and capping components of the Silver Lake Removal Action, as presented in Sections 4.2 and 4.3 of this PDI Work Plan, respectively.

3.4 Performance Standards for Bank Soils

Response actions for bank soils at properties included in the Silver Lake RAA must achieve the Performance Standards set forth in Section 2.6.2 of the SOW. These Performance Standards are summarized below.

In general, the need for and extent of response actions to address PCBs and non-PCB Appendix IX+3 constituents in bank soils will be determined based on the available soils data and using evaluation procedures established in the CD and SOW. For PCBs, response actions will be based on the results of spatial averaging conducted for the bank portion of each separately owned residential property and commercial/industrial property and for each recreational averaging area at the Silver Lake RAA. Attachment E to the SOW identifies the methods to be used to determine existing spatial average PCB concentrations, and the procedures to be used to assess whether the anticipated response actions will achieve the PCB Performance Standards. To address Appendix IX+3 constituents in bank soils, an evaluation will be conducted for the bank portion of each separately owned residential property and commercial/industrial property and each recreational averaging area at the Silver Lake RAA. This evaluation will take into account the necessary response actions to address PCBs, and will be conducted in accordance with the protocols described in Attachment F to the SOW.

The applicable PCB Performance Standards for the bank soils at the Silver Lake RAA are summarized below.

Residential Properties

For the bank portion of each of the seven separately owned residential properties associated with the Silver Lake RAA, GE shall calculate spatial average PCB concentrations for the 0- to 1-foot and 1- to X-foot depth increments, where X equals the depth at which PCBs are detected (up to a maximum of 15 feet). If the spatial average PCB concentration in the 0- to 1-foot or 1- to X-foot depth increment exceeds 2 ppm, GE shall remove and replace bank soils as necessary to achieve a spatial average PCB concentration at or below 2 ppm in each of these depth increments. Alternatively, GE may elect to address any of these residential properties as a whole, provided that potential exposure to soils within the property is equally likely throughout the property (or, if not, at appropriate averaging areas at the overall property) and that adequate soils data exist or will be collected to support such evaluation. Under this scenario, GE shall remove and replace soils as necessary to achieve a spatial average PCB concentration of 2 ppm or below in the 0- to 1-foot depth increment and the 1- to X-foot depth increment (where X equals the depth at which PCBs have been detected, up to a maximum of 15 feet) at the overall property.

Non-Residential Properties

For non-residential properties, the Performance Standards and related evaluations identified in the CD and SOW depend on whether a Grant of Environmental Restriction and Easement (ERE) can be obtained for the property/area. For most of the recreational areas located along the northern and eastern edges of Silver Lake (Figure 1-1), the City of Pittsfield has been identified as the owner, and the City has agreed in the CD to execute and record EREs on any properties that it owns at the CD Site where EREs may be needed. For the remaining recreational property (Parcel I9-10-9) and for the commercial/industrial properties associated with the Silver Lake RAA, GE must make "best efforts" (as defined in the CD) to obtain EREs for the bank portions (unless the Performance Standards for residential use are met in those portions). If an ERE cannot be obtained for such bank area, GE must implement a Conditional Solution.

The applicable Performance Standards for these properties depend on whether an ERE is obtained or whether a Conditional Solution will be implemented, as discussed below. These Performance Standards apply to the bank portion of each separately owned commercial/industrial property and to each of five separate recreational averaging areas shown on Figure 1-1.

- For each such bank area for which an ERE can be obtained, GE shall calculate spatial average PCB concentrations for the 0- to 1-foot and 1- to 3-foot depth increments. If the spatial average PCB concentration exceeds 10 ppm in the top foot or 15 ppm in the 1- to 3-foot depth increment, GE shall

remove and replace bank soils as necessary to achieve spatial average PCB concentrations at or below those levels in the increments specified.

- For each such bank area for which an ERE cannot be obtained, GE must implement a Conditional Solution. Specifically, GE shall calculate the spatial average PCB concentration for the 0- to 1-foot depth increment of each such bank area. If the spatial average PCB concentration exceeds 10 ppm in this depth increment, GE shall remove and replace bank soils as necessary to achieve a spatial average PCB concentration at or below 10 ppm in this depth increment. GE shall also calculate the spatial average PCB concentration for the 0- to 3-foot depth increment of each such bank area, taking into account the anticipated performance of any response actions for the top foot. If that spatial average PCB concentration exceeds 10 ppm, GE shall remove and replace bank soils as necessary to achieve a spatial average PCB concentration at or below 10 ppm for the 0- to 3-foot depth increment.

In this connection, the CD provides, in Paragraph 56.b, that GE must notify EPA and MDEP at the time of submittal of the PDI Work Plan for a given Removal Action, or within such other time as is proposed by GE and approved by EPA, whether each person (other than the City) who owns or controls a non-GE-owned property agrees to execute and record an ERE on the property. As documented in a letter of February 15, 2002 from GE to EPA, EPA has agreed that GE's written notice regarding EREs for the banks of the relevant properties adjacent to Silver Lake will be due one month after GE's submission of the Pre-Design Investigation Report or such other time as is proposed by GE and approved by EPA at the time of submission of that report.

In addition to achieving the foregoing Performance Standards for PCBs, GE is required to evaluate the concentrations of non-PCB Appendix IX+3 constituents in the soils, for the same bank areas or other averaging areas used for PCBs, in accordance with the procedures set forth in Attachment F to the SOW. GE must then undertake additional response actions as necessary to achieve the applicable Performance Standards for such constituents at each such area (after taking into account the response actions to address PCBs). The Performance Standards for non-PCB constituents in soils at the Silver Lake RAA are included in Section 2.6.2 of the SOW.

3.5 Pre-Design Investigation Requirements for Bank Soils

To support future RD/RA activities, GE is required to conduct pre-design soil investigations. However, for the banks associated with the Silver Lake RAA, no specific pre-design sampling requirements have been established in the CD and SOW. Instead, the SOW sets forth certain general requirements, stating that additional soil sampling shall be conducted as necessary to characterize the constituents in the bank soils (consistent with prior investigations of such areas), to support the spatial averaging of PCB concentrations, and to apply the relevant Performance Standards, and that grid sampling techniques for PCBs consistent with those to be utilized at the GE Plant Area and Former Oxbow Area RAAs shall be evaluated and utilized as appropriate. The specific scope of pre-design soil sampling is to be specified in the PDI Work Plan. As such, GE has developed a pre-design sampling approach to apply to the bank soils/recreational areas adjacent to Silver Lake. This approach is presented in Section 4.4 of this PDI Work Plan.

3.6 Performance Standards for Natural Resource Restoration/Enhancement Activities

Attachment I to the SOW sets forth the Performance Standards and other requirements for the natural resource restoration/enhancement activities that must be carried out at the Silver Lake RAA. These Performance Standards and other requirements are summarized below.

- In conjunction with the installation of the Silver Lake capping system, GE shall construct a shallow-water shelf along the shorelines of the lake to provide an improved habitat for aquatic species. This shallow-water shelf shall consist of an armoring layer of stone to be placed around the shoreline as part of the capping system. GE shall place a 3-inch layer of gravel and sand over the armoring stone to facilitate fish usage on the shelf.

- GE shall cap the "island" (actually a peninsula) located near the discharge outfall with the cap described above and in Attachment K to the SOW. After installing this cap, GE shall place topsoil over the top of this "island" and plant appropriate wetlands vegetative species on the surface. (It should be noted that since this so-called "island" or peninsula is currently partially submerged and is subject to this separate Performance Standard for capping, it is not considered in this Work Plan as part of the Silver Lake banks.)

- Following bank soil removal and replacement activities, GE shall plant a line of trees along the recreational portions of the eastern and northern banks (non-privately owned areas), spaced approximately 8 feet apart. GE shall plant an understory community in oblong patches approximately 10 feet wide and 20 feet long along the banks, spaced approximately 50 feet apart, with shrubs within each patch on approximate 4-foot centers. For the remaining banks of the lake, GE shall plant herbaceous species on those banks where response actions are conducted.

- In addition to the vegetative enhancement activities, GE shall place engineered structures along the eastern and northern sides (non-privately owned areas) of the lake to enhance recreational use and wildlife observation. These structures shall consist of a walking path around these sides of the lake and two picnic areas on these sides of the lake.

- GE shall fund activities to be performed by the Trustees to create littoral habitat suitable for a balanced, indigenous aquatic community in the lake, and to remove the existing fish community and replace it with a balanced fish population, in amounts specified in Attachment I to the SOW.

To achieve the foregoing Performance Standards, Attachment I to the SOW sets forth more specific requirements relating to these activities. Based on review of those requirements, GE has not identified any need at this time for additional pre-design investigations relating to these natural resource restoration/enhancement activities beyond those required to allow RD/RA evaluations for the response actions for this RAA.

4. Proposed Pre-Design Investigations

4.1 General

This section presents GE's proposal for pre-design investigations for sediments and soils at the Silver Lake RAA. Section 4.2 provides an assessment of the extent and usability of existing PCB data collected in the vicinity of Outfall 01A, and describes the pre-design investigation activities proposed to help define the bounds of the sediment removal. Section 4.3 assesses the existing data related to cap design and describes the sediment cap pre-design investigation activities related to the isolation layer and armor layer design and cap construction/placement. For bank soils, Section 4.4 provides an assessment of the existing soil analytical data and their usability for future RD/RA activities, and also describes the rationale for and the scope of proposed pre-design soil sampling for PCBs and non-PCB constituents for bank soils.

The overall data quality objective (DQO) for the pre-design sampling and analysis activities is to obtain sufficient analytical data for sediments and bank soils at the Silver Lake RAA to:

- Satisfy the general pre-design investigation requirements specified in the SOW (described in Section 3 above);
- Support the preparation of future technical RD/RA evaluations and related work plan development; and
- Support a demonstration that the applicable Performance Standards under the CD either are achieved or will be achieved by performing specified response actions.

All sampling and analysis activities will be performed in accordance with the procedures set forth in GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP), or in the absence of such procedures, in accordance with procedures described in this PDI Work Plan.

4.2 Pre-Design Sediment Removal Investigations

In accordance with the SOW, to address the reported presence of elevated PCBs in sediments, GE is required to remove a maximum of 400 in-situ cy of Silver Lake sediment from an area in the general vicinity of the existing outfall (NPDES-permitted Outfall 01A) from the GE Plant to the lake, as depicted on Figure 1-1. Although existing sediment PCB data provide a general understanding of the magnitude and extent of PCBs in sediment near Outfall 01A, additional pre-design investigation activities are proposed to better define the vertical and horizontal extent of PCBs in this area and thus to determine the limits of the sediment removal in this area. A discussion of existing sediment PCB data in the vicinity of the existing outfall and a description of proposed pre-design sediment sampling activities in this area are provided below.

4.2.1 Review of Existing Sediment PCB Data

Silver Lake sediment investigations have been conducted on several occasions since 1980 and are summarized in Section 2 (see Figure 2-3). Elevated PCB concentrations have been detected in the vicinity of the existing outfall (NPDES-permitted Outfall 01A) from the GE facility to the lake. Specifically, in 1992 a miscellaneous grab sample collected in the vicinity of the existing outfall in the northeast portion of the lake exhibited an

anomalously high PCB concentration of approximately 21,000 ppm for the 0- to 1-foot depth increment at location N02(92). Based on that result, one additional sediment core (sample location SLS-5) was collected in 1995 in the vicinity of sample location N02(92) to verify this result and to further define the vertical extent of PCBs at this location. The results of this analysis indicated PCB levels in the top 5 feet ranging from 290 to 640 ppm. The existing PCB data from sediment samples collected in the vicinity of Outfall 01A are shown on Figure 4-1.

To further assess the presence of the elevated PCB concentration detected at N02(92), and to provide data to be used (in conjunction with the existing data shown on Figure 4-1) to determine the extent of Silver Lake sediment removal (up to a maximum of 400 in-situ cy) from this area, additional pre-design sediment sampling activities are proposed.

4.2.2 Pre-Design Sediment Sampling Activities for PCBs

Based on the results obtained in 1992 from location N02(92), further characterization (both horizontal and vertical) is proposed to reassess the elevated concentrations of PCBs in the vicinity of N02(92), and to determine an appropriate removal volume and corresponding area and depth.

The pre-design sampling proposed for this area involves collecting 14 sediment samples from seven proposed locations around the perimeter of sample location N02(92), and collecting two sediment samples from sample location N02(92) itself, as shown on Figure 4-1. The purpose of this sampling is to determine whether the concentration found in the top foot of sediment at location N02(92) in 1992 (i.e., the approximately 21,000 ppm result) can be verified, as well as to determine the surrounding surface sediment PCB concentrations and the concentrations in the depth increment immediately below the top foot in this area. Samples will be collected from the 0- to 1-foot and 1- to 3-foot depth increment at each location and will be analyzed for PCBs. The results of this sampling program will be used to define the boundaries and volume of sediment removal activities in the vicinity of location N02(92).

4.3 Pre-Design Capping-Related Investigations

The purpose of the cap is to provide a physical and chemical barrier preventing or greatly reducing the potential for PCB exchange between the current Silver Lake sediments and the overlying water column. Three Preliminary Response Action Goals (PRAGs) were established to meet design standards for the Silver Lake cap:

1. Establish and maintain a physical exposure barrier (i.e., a cap) consisting of "clean" material over the PCBs in the sediments;
2. Prevent the migration of PCBs from the sediments through the cap to the water column of the lake for the foreseeable future; and
3. Prevent the erosion or physical displacement of sediments and capping materials in those areas potentially subject to wind-induced wave action and man-made discharges along the shoreline of the lake.

This section assesses the engineering data that will be used to form the basis of design for the subaqueous cap for Silver Lake, and proposes the performance of additional pre-design investigation activities to support the design. This section has been organized into the following subsections: (1) isolation layer design; (2) armor layer design; and (3) cap constructability design considerations.

4.3.1 Isolation Layer Design

An isolation layer (as part of an overall capping system) provides a long-term reduction of PCB flux (i.e., migration) from the sediment into the water column. The effectiveness of the cap isolation layer in preventing the migration of PCB can be modeled through a series of equations that predict the chemical flux into and through the cap. Two general types of mass transport can occur. In the absence of groundwater discharge through the bottom of the lake, the PCB concentration gradient between the pore water and the overlying water will control diffusion of PCBs upward through the cap. If the hydraulic conditions in the area indicate the active discharge of groundwater into Silver Lake, the movement of PCBs in pore water from the sediments to the lake will most likely be driven by advective transport. An understanding of hydraulic conditions around and beneath Silver Lake is required to complete design of the cap.

Chemical flux models were used in the isolation layer basis of design. In developing the chemical flux model to assess cap effectiveness, 11 major variables must be measured, estimated, or assumed. These variables are:

Cap Material Variables

- Thickness
- Cap material TOC
- Porosity
- Bulk density

PCB-Related Variables

- Partitioning coefficient to particulate organic carbon
- Partitioning coefficient to dissolved organic carbon

Site Characteristic Variables

- Sediment PCB concentration
- Sediment TOC
- Bioturbation depth
- Pore water PCB and dissolved organic carbon (DOC) concentration
- Groundwater velocity

With regard to the cap material variables, the uncertainty for some of the cap-related variables can be controlled by specifying appropriate isolation material to be used in constructing the cap. With regard to the PCB-related variables, partitioning characteristics of PCBs are generally available through existing databases (many generated as a result of EPA studies), and should provide reasonable estimates for the design.

With regard to the site characteristic variables, 42 cores previously taken from Silver Lake have resulted in over 250 individual samples analyzed for PCB concentration and 27 samples for TOC. An additional 10 cores with concurrent analysis of sediment PCB, pore water PCB, sediment TOC and pore water DOC are proposed, as discussed in Section 4.3.1.2.2 below. For this reason, values for sediment PCB and TOC concentrations for Silver Lake are considered sufficient for cap design. However, three isolation layer design variables -- bioturbation depth, sediment pore water DOC, and groundwater velocity -- have been identified for which additional data collection is necessary to support RD/RA activities.

Based on a literature review, the isolation layer thickness was increased by 4 inches (if geotextile is placed between the sediments and the cap) to 6 inches (if geotextile is not placed) to account for uncertainties associated with bioturbation. Additional investigations are proposed in Silver Lake to better define the depth to which bioturbation can be expected in the isolation layer, to allow appropriate adjustments (if any) to be made to the isolation layer thickness.

The preliminary modeling that was used to assess the feasibility of capping at Silver Lake assumed conservative values of 50 milligram per liter (mg/L) for pore water DOC and 1 meter per year as a groundwater seepage velocity. Collection of more accurate site-specific data is proposed to confirm these assumptions.

Based on the above, activities related to bioturbation, pore water characterization, and groundwater seepage velocity are proposed and further discussed below.

4.3.1.1 Bioturbation

As noted earlier, not all the cap isolation material thickness will be available to provide physical and chemical separation, since some of the potential effective thickness of the cap may be lost due to the bioturbation zone. Bioturbation refers to processing, mixing, and/or resuspension of sediments by aquatic organisms (including benthic invertebrates and other bottom-dwelling organisms) while burrowing, feeding, spawning, and/or undertaking other physiological activities. The intensity and depth to which bioturbation occurs in the sediment column are highly site-specific, but usually less than 10 cm, reflecting the myriad behaviors of diverse assemblages of benthic organisms and their interactions (Clarke, et. al., 2001). Consistent with the requirements of the SOW, pre-design investigation activities must be performed to confirm or modify the design parameters which support the presumptive thickness of the isolation layer.

4.3.1.1.1 Assessment of Existing Data

As noted above, to account for uncertainties associated with bioturbation in the conceptual design of the cap, 4 to 6 inches of silty sand were added to the 6-inch isolation layer. Although there are numerous studies upon which to base estimates of potential bioturbation, no site-specific studies have been conducted to date of the potential impacts of bioturbation on the proposed Silver Lake cap. In most benthic environments, the numbers of invertebrates and the rate of sediment turnover are highest in the oxygenated zone above the redox boundary, generally the top 2 to 5 centimeters (cm) of the sediment column (Bosworth and Thibodeaux, 1990). Typically, the majority of bioturbation occurs to depths of 6 to 10 cm (Ford, 1962; McCall and Fisher, 1980; Karickhoff and Morris, 1985) and only occasionally at greater depths. Research has indicated that the colonization of a sand or armored cap would be sparse until new sediments with higher organic carbon content are deposited (Palermo et. al., 1998). Since Silver Lake sediments are predominately silts with a relatively high organic content, the placement of a cap with a greater portion of sand is expected to reduce the anticipated burrowing depth of benthic invertebrates. For freshwater environments, the United States Army Research and Development Center (Clarke, et. al., 2001) has recommended an additional 10-cm (4-inch) cap thickness to account for the depth of the surficial mixing zone.

4.3.1.1.2 Pre-Design Investigation Activities

To evaluate the potential impact of organisms disturbing or mixing the cap surface, benthic organisms currently present in Silver Lake will be surveyed. Once the cap is in place, the benthic assemblage may change in

response to the change in substrate. However, as noted above, a reduction in burrowing depth is anticipated, and the results of the benthic survey are therefore expected to conservatively estimate the post-cap bioturbation depth. The benthic survey will consist of samples taken at twelve randomly selected locations throughout the lake to provide spatial coverage. The proposed sampling locations are depicted on Figure 4-2. The dredge contents will be sieved through a standard #30 sieve to separate the organisms from the sediments. Sieve contents will be preserved in sample containers with 70% ethanol and shipped to a taxonomic laboratory. Invertebrates will be enumerated and identified to the lowest practical taxonomic level in a laboratory. The laboratory results will be used to characterize the existing benthic community of the lake and the literature will be used to determine burrowing characteristics.

In addition to the benthic survey, five shallow cores will be obtained for analysis of Beryllium-7 to provide an alternative approach to determining bioturbation depths. Beryllium-7, a naturally occurring radioisotope that is present in atmospheric deposition, has a relatively short half-life (53 days). Because of its relatively short half-life, Beryllium-7 is an effective indicator of materials in contact with the atmosphere within the last year. Within sediment it is an indicator of contact with the over-lying water, usually at the sediment-water interface. Five cores will be obtained and the upper 6-inches of each core will be segmented into 1-inch depth increments for analysis. The deepest detectable Beryllium-7 activity will be interpreted as the surficial mixing depth. Cores will be obtained from six of the twelve randomly selected benthic sample locations to provide spatial coverage of the lake.

4.3.1.2 Pore Water Characterization

The initial step in any potential pathway for the long-term migration of PCBs from sequestered Silver Lake sediment through an engineered cap and into the overlying water would be the desorption of the PCBs from the sediment to the surrounding pore water (interstitial water). It is the pore water PCB concentration that directly serves as the supply for PCB loading to the cap, either through pore water advection as a result of groundwater discharge to the lake, or through diffusion as a result of the concentration gradient established between the sediment pore water and "PCB-free" water of the cap and ultimately overlying Silver Lake waters.

Due to the apparent slow rate of groundwater movement into Silver Lake, the contact time between the sediment and pore water can be sufficient for the concentration of PCBs in the pore water and sediment to approach thermodynamic equilibrium. Pore water is, therefore, often extracted (in-situ or ex-situ) and analyzed to indicate the concentration and/or partitioning of contaminants within the sediment matrix.

The partitioning of the PCBs between the solid and liquid phase is dependent on the relative sorptivity of the PCBs, given site-specific conditions. Characteristics of the chemical, sediment, and pore water all contribute to determining the distribution between the phases and the equilibrium concentration. For a highly hydrophobic organic compound such as PCBs, the partitioning is largely determined by TOC content present in the sediment matrix and DOC content of the pore water. The case-specific distribution coefficient can be mathematically represented by

$$K_d = \frac{K_{oc} f_{oc}}{1 + (C_{doc} K_{doc})}$$

where K_{oc} and K_{doc} are the partitioning coefficients to organic carbon and dissolved organic carbon respectively, f_{oc} the fraction of TOC in the sediment, and C_{doc} the concentration of DOC in the pore water.

The presence of DOC decreases the distribution coefficient, and thereby increases the concentration of PCBs in the pore water. The potential impact on PCB migration through the cap, in addition to increasing the initial pore water PCB concentration within the sediment bed, is that increased DOC concentrations will decrease the retardation coefficient associated with the cap/pore water interactions.

4.3.1.2.1 Assessment of Existing Data

To date, no Silver Lake pore water has been collected for chemical analysis. As a result, in the conceptual design (Attachment K to the SOW), an initial estimated sediment pore water PCB concentration was calculated using a highly conservative assumption regarding the DOC concentration of the pore water. Specifically, a conservatively high estimated value of 50 mg/L for the pore water DOC (based on Thurman, 1985) was used. Other inputs in the calculation were based on existing data from Silver Lake sediments, including the spatially averaged TOC and PCB concentrations (9% and 330 ppm respectively) for the upper 1 foot of the bed (excluding the removal area near N02[92]), which provide sufficient characterization for the modeling cap performance. Another assumption made in the initial cap evaluation was that K_{doc} was equal to 0.1 x K_{oc}. An extensive evaluation of the published relationship between K_{doc} and K_{oc} for hydrophobic organic compounds supports this value as representing a reasonable and conservative assumption. Using these values, an initial bed sediment pore water PCB concentration of 19.7 micrograms per liter (µg/L) was computed. It should be noted that based on the high DOC concentration assumed for the pore water, more than 90% of the total liquid-phase PCBs were associated with the DOC rather than the "dissolved" phase. Additionally, the difference between the cap retardation coefficients for DOC not being considered and DOC-facilitated advective transport was a factor of approximately four.

These factors indicate a critical need to obtain site-specific pore water DOC data within the Silver Lake sediments to confirm or modify the cap design. An additional, secondary data need for the cap design is to measure the pore water PCB concentration. The investigations proposed to obtain these data are described below.

4.3.1.2.2 Pre-Design Investigation Activities

GE proposes to collect sediment cores from Silver Lake with centrifugation of pore water to determine DOC concentrations in the pore water. Corresponding measurements of PCB in sediment and pore water, as well as TOC in the sediment will also be obtained. Sediment collection and processing procedures will, to the extent practical, follow procedures recently used by EPA and GE for the Housatonic River. Additionally, at the request of EPA, sequential batch leach testing with analysis of the pore water for DOC and PCBs will be conducted on several of the samples, as detailed below.

It is currently proposed that sediment cores be obtained from 10 locations within Silver Lake. These 10 locations will be identified prior to sampling -- four in areas of suspected groundwater discharge to the lake (eastern portion of the lake), and three each in areas of suspected groundwater recharge from the lake (western portion of the lake) and in transitional areas (center of the lake). Additional considerations such as anticipated PCB concentrations, sediment characteristics and water depth may also play a role in the selection process. The approximate sampling locations are depicted on Figure 4-2. The number and location of samples are subject to change based on a collection/review of additional lake bottom surface profile data as discussed in Section 4.3.3.1 below. The locations were selected to represent a range in anticipated PCB concentrations, sediment characteristics, water depths, and possible groundwater flow regime. At the time of core collection, locations will be identified by survey. From each location, one or more cores will be collected (number of cores

dependent on the volume requirements for the various analyses). Core collection procedures will be consistent with the FSP/QAPP. Upon retrieval of each core, the core will be photographed and visual description noted. Prior to processing, cores will be maintained at approximately the ambient sediment bed temperature at the time of collection. Cores will be maintained vertically during all handling, transportation, and storage steps to minimize disruption. Cores will be processed within one working day after sample collection.

Centrifugation is the generally preferred laboratory method for the collection of pore water (SETAC, 2001). In general, approximately 50% of the sample moisture content can be extracted as pore water by centrifugation (EPA, 2001). For the Housatonic River supplemental pore water study, an IEC Centra GP8R centrifuge was provided by GE through QEA for the extraction of pore water. This same centrifuge will be used for this investigation. The procedures to be used in this investigation are described in Attachment A.

Results of the analysis will be used to provide a value for the DOC parameter to be used in the cap migration model. Additionally, results of the associated pore water and sediment PCB and organic carbon analysis will be used to provide a check on the partitioning values used in the model.

As a check on the pore water partitioning and distribution coefficients developed as a result of the procedures detailed above and in Attachment A, three of the 10 sediment samples used in the pore water tests will be retained for further analysis by sequential batch leach tests (SBLTs). The SBLTs will be performed on one sample collected from each of the three zones (i.e., discharge, transition, and recharge). The SBLTs will involve sequential measurements of pore water PCBs and DOC through repeated addition of distilled deionized water and centrifugation.

The SBLT procedure generally consists of the addition of distilled, deionized water to the sediments to bring the water to sediment ratio to approximately 4:1, heavy agitation of the mixture for 24 hours, centrifuging the mixture, filtering the supernatant, and repeating the process for a minimum of four times. Additional details are provided in Attachment B.

4.3.1.3 Definition of Groundwater Seepage Velocity through the Cap

The velocity of groundwater flowing into the lake needs to be known to specify an adequate isolation layer thickness and TOC concentration. To determine the velocity of groundwater flowing into the lake, the geologic stratigraphy and the hydrogeologic properties of the water-bearing soil materials adjacent to and below the lake must be defined. This section of the PDI Work Plan presents a summary of existing relevant site information, and describes the proposed investigative activities to better define groundwater seepage velocity through the cap.

4.3.1.3.1 Assessment of Existing Data

One method for determining the groundwater seepage velocity through the lake bottom is to assess the hydraulic conductivity of soils and surface-water elevations in wells adjacent to the lake. The hydrogeology of the Housatonic River Basin is summarized in Sections 2.6, 2.7, and 7 of the *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake* (BBL, 1996a) and was described in more detail as part of several prior reports (Norvitch et al., 1968; Wilson et al., 1974; New England River Basin Commission [NERBC], 1980; and EHC Corporation, 1991). In general, the overburden material of the Housatonic River Basin has been identified chiefly as glacial sedimentary material, including mainly alluvial and stratified drift sands, gravels, silts, and clay overlying glacial till. Below till is bedrock that is characterized mainly as

metamorphic rock, such as quartzite, gneiss, limestone, and dolomite. The hydrogeology of the unconsolidated overburden materials is of interest for the Silver Lake sediment capping pre-design assessment.

Groundwater that would interact with Silver Lake is within the alluvial and stratified drift materials above the generally low permeability till. Based on the geologic information southeast of Silver Lake, the depth to till between Lyman and East Streets varies from a few feet to more than 50 feet, with shallower depths to till in the northeastern portion of the Plant Site 1 GMA north of the intersection of East and Newell Streets.

As summarized in Section 2.2.3.2, the former or existing monitoring wells that are useful for assessing groundwater movement in the immediate vicinity of Silver Lake are as follows:

RF-2	I9-9-26-MW-1	GMA1-10	B-2W
RF-3	I9-9-28-MW-1	GMA1-12	B-3W
RF-3D	I9-9-28-MW-2	ES2-19	LS-37
RF-4	GMA1-1	95-16	LS-28
RF-16	GMA1-2	95-25	LS-29
E-7	GMA1-3		MW-6R

Groundwater elevations near the lake generally range from 979 to 974 feet amsl; lake level is generally maintained at approximately 976 feet amsl. Based on the available groundwater elevation data along the northeast, east, and southeast sides of the Silver Lake, groundwater is discharging into the northeast side of the lake, while lake water is discharging to groundwater on the southeast side of the lake. Further quantification of groundwater flow rates or velocities in the vicinity of Silver Lake has not been performed.

To evaluate groundwater velocities into or out of the lake, it is necessary to know the stratigraphy and hydraulic conductivity of the soil material below and adjacent to all sides of the lake, as well as groundwater elevation differences between monitoring wells and Silver Lake on all sides of the lake. Groundwater and Silver Lake water elevations are collected regularly (typically quarterly) from the Silver Lake staff gauge and the available monitoring wells along the eastern side of the lake. Hydraulic conductivity measurements have been collected for some of the existing monitoring wells (RF-3, RF-3D, RF-4, E-7, LS-28, LS-29, LS-37, and GMA1-3), and results show a wide range in values (approximately 0.1 to more than 80 feet per day).

Given that the existing hydrogeologic database is biased to information along the eastern and southeastern shoreline of Silver Lake only, additional hydrogeologic investigation activities are needed to characterize hydrogeologic conditions (groundwater elevations and hydraulic conductivity) below and north, west, and south of Silver Lake.

Another means of determining the velocity of groundwater through the lake bottom is to perform a water budget in Silver Lake. Development of a water budget requires quantification and balance of all inflows and outfalls to the lake. Existing data relevant to assessment of the water budget include precipitation and weather data collected at the GE facility weather station, treated stormwater discharge records for the on-site stormwater treatment facility at the GE facility, and limited flow measurements for the Silver Lake outlet to the Housatonic River. Silver Lake receives stormwater discharges from seven currently identified municipal stormwater outfalls, a portion of the GE facility, and several adjacent residential and commercial/industrial properties. Silver Lake is hydraulically connected (on an intermittent basis, depending on the elevation of the lake) to the East Branch of the Housatonic River by a 48-inch-diameter concrete pipe located in the southwest portion of the lake which has a weir with an invert elevation of 976.1 feet amsl. This pipe conveys surface water from Silver Lake and stormwater runoff from Fenn Street and East Street to the Housatonic River. Most of the stormwater outfalls to Silver Lake are intermittent and discharge only during wet-weather periods. At least one of the

outfalls, 001, also has dry-weather discharge from groundwater infiltration to the pipe network. The Silver Lake inflows and outfalls are depicted on Figure 2-1.

While available data provide some indication of flow rates and lake residence times, they are not coincident in time. Also, other important components of the water budget have not been measured to date, such as evaporation and lake storage. Given these factors, additional data collection activities are proposed to better characterize the groundwater seepage velocities through the bottom of Silver Lake.

4.3.1.3.2 Pre-Design Investigation Activities

Determining groundwater inflow rates is an important aspect of cap design. Several methods will be used in the pre-design investigations to quantify groundwater infiltration, including installing piezometers, placing seepage meters, monitoring well levels, and assessment through developing a water budget. Measuring groundwater gradients and hydraulic conductivity allow calculation of the inflow rate to the whole lake. Seepage meters provide a direct localized measurement that is very useful, though may exhibit high spatial variability. Calculating groundwater discharge based on net difference from water sources and losses provides another estimate of total inflow rates. A weight of evidence approach using these three methods will provide a comprehensive assessment of groundwater infiltration to the lake to specify groundwater seepage velocity for cap design.

Measuring Groundwater Gradients to Determine Seepage Velocity

The objective of this section is to propose investigation activities that will provide additional data in association with an evaluation of potential hydraulic effects of groundwater flowing into and from Silver Lake on the sediment capping design. A large hydrogeologic database (geologic logs, groundwater elevations, hydraulic conductivities, and groundwater quality) exists for the unconsolidated soil materials to the east and southeast of Silver Lake. Less hydrogeologic information is available to the north, west, and southwest of Silver Lake. Pre-design investigation activities are proposed to characterize hydrogeologic properties and groundwater elevations below and north, west, and south of Silver Lake. The proposed investigation activities include monitoring well and piezometer installation and hydraulic conductivity tests.

Six monitoring well pairs (12 monitoring wells) are proposed along the northern, western, and southern Silver Lake shorelines. As shown on Figure 4-2, three well pairs are proposed along Silver Lake Boulevard along the northern side of the lake, one pair on the western lake shoreline north of Esther Terrace, one pair on the southern shoreline near the outfall to the Housatonic River, and the last pair on the southern shoreline along East Street. The shallow wells will be screened with 10-foot well screens that straddle the water table, and the deep wells will be screened with 5-foot well screens set at a depth of either immediately above till or no more than 25 feet below the water table if till is not encountered. These well pairs will provide groundwater elevations that will be used to establish vertical gradients and groundwater flow directions relative to Silver Lake.

In addition to the monitoring wells along the shoreline, ten piezometers are also proposed within the lake. Four of these piezometers will be placed to pair up with four of the shoreline monitoring wells (two on the north side of the lake and two on the south side), with the piezometer being no more than 100 feet from the shoreline. An additional piezometer, not paired with a shoreline monitoring well, will be placed on the south side no more than 100 ft. from the shoreline. Two more will be placed on the east and west sides of the lake approximately 400 feet from the shoreline, and the remaining three piezometers will be spaced along the middle of the lake (Figure 4-2). These piezometers will be screened with 5-foot screens placed from 15 to 20 feet below the lake bottom or immediately above till, whichever is shallower.

The monitoring wells and piezometers will be installed in accordance with the FSP/QAPP, using standard hollow-stem auger or direct-push drilling techniques. The lake piezometers will be installed using a barge-mounted drill rig. The wells and piezometers will be constructed of 2-inch diameter schedule 40 polyvinyl chloride (PVC) riser and well screens. Continuous soil sampling for geologic characterization will be performed while drilling each well or piezometer boring. Sand pack will be tremied into the annulus adjacent to the well screen and a 2-foot bentonite seal will be placed above the sand pack. A cement-bentonite grout will then be tremied into the annular space above the bentonite seal to ground surface or lake bottom surface.

Each of the monitoring wells and lake piezometers will be developed to improve hydraulic connection with the water-bearing soil materials. Following development, hydraulic conductivity testing will be performed on each monitoring well and lake piezometer. Groundwater and lake elevation measurements will be collected monthly throughout the pre-design activities at the relevant existing monitoring wells and the proposed monitoring wells and lake piezometers.

The data collected from the six shoreline monitoring well pairs and ten lake piezometers will be used to determine hydraulic conductivity of the water-bearing soil materials below and adjacent to the Silver Lake, and to calculate estimated seepage rates to or from Silver Lake. Seepage rates will be estimated by calculating the flow rate of water into or out of the lake, using the head difference between piezometers installed below the lake and the lake level, and applying Darcy's Law. Darcy's Law is an empirically derived equation that relates hydraulic gradient and hydraulic conductivity to volumetric discharge rates, which can be used to approximate groundwater velocity. Darcy's Law is as follows:

$$Q = KiA$$

where,

Q = volumetric discharge rate;
K = hydraulic conductivity;
i = change in hydraulic head over a prescribed distance, which is the hydraulic gradient; and
A = area through which flow is occurring.

The unit hydraulic discharge rate (q), also known as the Darcy velocity, is determined by dividing the total volumetric flow rate by the area through which flow occurs, as follows:

$$q = Q/A.$$

An average linear flow rate into or out of the lake, in proximity to the wells or piezometers, can then be estimated by dividing the unit volumetric flow rate by the effective porosity. This calculation will provide a general estimate of the flow into or out of the lake because the flow is expected to vary across the lake bed due to hydraulic gradient variation and geologic heterogeneities.

Seepage Meters

Seepage meters are also proposed for installation in the lake bottom to allow direct measurement of seepage rates into the lake. The installation of five seepage meters is currently proposed. The seepage meters will be used to collect groundwater that is flowing through the lake bed into the lake (Seepage meters may also indicate net loss, though groundwater recharge, in certain areas of the lake). The seepage meters will be placed in the sediments for a known period of time; the net water accumulated (or lost) in a seepage meter provides a direct measure of groundwater seepage over the footprint of the seepage meter. The seepage meters will be placed at a

depth of up to five feet below normal water surface elevation. In general the rate of seepage to a lake has been found to decrease exponentially with distance from the shore (Lee, 1977; Brock et al 1982; Attanayake and Waller, 1988). Seepage meter monitoring is recommended for up to 6 months. It is anticipated that the proposed seepage meters will initially be monitored weekly for one month. Based on the findings during the initial few weeks of sampling, the monitoring frequency will be adjusted to optimize seepage rate monitoring, and additional seepage meters may be installed if there is significant variation in the seepage rates among the initial five meters. Several of the seepage meters will be paired with lake piezometers to directly compare calculated versus measured seepage rates. The proposed seepage meter monitoring locations are depicted on Figure 4-2.

The most commonly used seepage meter is referred to as a Lee Meter. The seepage meter, as designed by Lee (1977), consists of a cut 55-gallon drum with two fittings cut into the bottom of the drum. The surface area of a 55-gallon drum is approximately 406 square inches (2.82 square feet). The drum is typically cut to be no more than 12 inches in height. Two small (0.5- to 1-inch) holes are cut into the drum bottom and leak-proof fittings affixed in these small holes. On one hole, a pressure relief valve is installed. On the other hole, a flared fitting and a valve are affixed so that flow through the fitting can be turned on and off, and an elastic bag can be attached to allow measurement of changes in water volume. The polyethylene accumulation bag will also be fitted with a valve, as well as a quick-release fitting to attach it to the flared fitting. The partial drum/seepage meter is inverted and pushed into the lake bottom sediments and net change in water volume is monitored through time. A typical Lee seepage meter design is shown on Figure 4-3.

During installation of the seepage meters, care needs to be exercised so that no entrapment of air in the meter occurs. This will be done by inverting the partial drum under the water and keeping the pressure-release valve and the accumulation bag valve open (with no bag attached) while pushing the meter into the lake bottom. Once the meter is in place, the accumulation bag fitting will be closed. At the surface, the accumulation bag will be filled with a prescribed amount of distilled water so that the bag is completely wetted, but not expanded, and the bag valve closed. This closed filled bag will then be taken down and affixed to the flared fitting. Once the bag is attached, the pressure-relief valve will then be closed and the fitting valve and bag valve opened. The fittings and bag will then be covered with a protective box/crate and a buoy will be attached to mark its location. When replacing bags, the accumulation bag-fitting valve and the bag valve will be closed, the pressure-relief valve will be opened, and the bag will be removed to measure the volume of water in the bag at the surface. A new bag will then be installed and the valves will be reopened. The net difference in the volume of water in the bag between the time it was attached and the time it was removed indicates the seepage into or out of the lake over the 2.82-square-foot area covered by the meter. Procedures for use of the seepage meter are included in Attachment C.

Water Budget

Development of a water budget requires quantification and balance of all inflows and outflows to the lake. Inflow sources include overland runoff, stormwater outfalls, treated stormwater discharges, direct precipitation, and groundwater infiltration. Water losses may occur from outflow, evaporation, and groundwater recharge. The water budget is represented by the following equations.

$$Q_{IN} = Q_{OUT} + S$$
$$Q_{IN} = P + Q_{GWR} + Q_{SO} + Q_{DD} - E$$
$$Q_{OUT} = Q_O + Q_{GWD}$$

where Q_{IN} = Total inflow
Q_{OUT} = Total outflow
S = Storage

P = Precipitation on the lake surface
Q_{GWR} = Groundwater discharge to Silver Lake
Q_{GWD} = Groundwater discharge from Silver Lake
Q_O = Outflow from Silver Lake to the Housatonic River
Q_{SO} = Stormwater outfall discharge
Q_{DD} = Direct drainage from areas around the lake
E = Evaporation from the lake

Storage is computed as the change in lake water surface elevation multiplied by the lake surface area. The water budget as expressed above is for a specific time period. All components are seasonally variable, and therefore, determining the water budget monthly is appropriate.

The pre-design investigation activities associated with developing the water budget for Silver Lake will include base flow (i.e., dry weather) monitoring of lake-level elevations, discharge from Outfall 001 and any other outfalls with dry weather discharges, flow at the Silver Lake outlet, and evaporation rates.

Inflow, outflow, and lake-level monitoring will be conducted twice daily for 5 days each month during the ice-free period of the pre-design investigation. If precipitation occurs during the 5-day period for each monthly monitoring event, monitoring will be extended to obtain measurements during a contiguous 5-day, dry-weather period during which the wet-weather stormwater outfalls are not discharging. Dry weather flows were selected for the water budget because the number of input variables (and measurement locations) would be reduced and the review of hydrogeologic information indicated that the hydraulic gradient is relatively unaffected by high or low water conditions. Flows will be measured at all municipal and GE outfalls during each sampling period. Precipitation data, which are currently measured at the GE facility weather station, will be compiled to assess the extent to which precipitation may have impacted the dry-weather monitoring (e.g., effects on lake storage and discharge).

Pan evaporation studies will be conducted at the GE facility weather station to be colocated with continuous temperature, relative humidity, and wind-speed data. The National Weather Service Class A pan is the most widely used evaporation pan in the United States. The pan has been recommended as a standard for evaporation measurements by the World Meterological Organization (Ponce, 1989). Pan evaporation will be measured from a standard weather bureau class A pan (an open galvanized iron tank 4 feet in diameter and 10 inches deep mounted 12 inches above ground). To estimate evaporation, the pan will be filled to a depth of 8 inches and must be refilled when the depth has fallen to 7 inches. (The evaporation in the pan is computed as the difference between two successive observations corrected to account for any intervening precipitation measured in a nearby gage). Alternatively, the pan can be refilled each day to a specific level. This procedure permits a more accurate measurement of water loss and assures that the pan has the proper water level at all times. Pan evaporation will be measured daily during the same 5-day period identified above for the lake level measurements. The evaporation will be calculated using the following equation:

$$E = K_p E_p$$

where

E = evaporation
K_p = pan coefficient
E_p = pan evaporation

Because of interception of solor radiation by the sides, the Class A pan usually exaggerates the actual lake evaporation (Ponce, 1989). The ratio of pan-to-lake evaporation is an empirical constant referred to as the pan

coefficient. The pan coefficient typically ranges from 0.64 to 0.81 and averages 0.70 for the United States (Bedient and Huber, 1992). The pan coefficient will be determined based on the ground cover surrounding the pan, the relative humidity, and wind-speeds measured during the study. This information will be determined based on conditions at the GE facility weather station or a nearby meterological station (e.g., Pittsfield Airport).

After quantifying the individual components of the water budget, groundwater inflow rates will be assessed by determining the difference between inflow and outflow and comparing this to estimates based on seepage meters and calculation from measured groundwater gradients and soil conductivity. The sensitivity in the measured components of the water budget will be assessed and compared to estimated groundwater inflow from all three methods.

In summary, as noted above, several methods will be used in the pre-design investigations to quantify groundwater infiltration, including installing piezometers, placing seepage meters, monitoring well levels, and developing a water budget. A weight of evidence approach will be used to provide a comprehensive assessment of groundwater infiltration to the lake to specify groundwater seepage velocity. It is believed that the greatest weight will be placed on the seepage meter data, then the piezometer and monitoring well data, as the most direct in-situ measurements of seepage velocity (provided high spatial variability is not observed). The least weight will be placed on the water budget results since that method is a net-difference-calculation method for what will likely be a relatively small number.

4.3.2 Armor Layer Design

As noted in the Performance Standards for sediments in the SOW, the capping system must include an overlying armoring layer of stone, incorporated along the shoreline as necessary to prevent erosion of the isolation layer due to wind-induced wave action. In the areas of man-made discharges along the shoreline (i.e., stormwater pipe outfalls), armor stone must be placed to prevent the erosion or physical displacement of sediment capping materials resulting from surface water discharges from/to the outfalls. The key parameters that must be established during the armor stone design for the outfalls and the shoreline areas include the physical conditions around the outfalls, bank/sediment bed slope along the shoreline, and wind speed and direction. This subsection of the PDI Work Plan evaluates the availability of data needed to define the design conditions and identifies pre-design investigation activities necessary to complete the armor stone design.

4.3.2.1 Bank/Sediment Bed Slope

An accurate bathymetric map depicting bank/sediment bed slope in the shore line areas of the lake and outfall areas is needed to complete the armor layer design. More specifically, the bank/bed slope will be used in conjunction with other input parameters to determine the extent, thickness, and size of armor stone needed to prevent erosion of the isolation layer due to wind-induced wave action. Proper design of the armor layer at the stormwater outfalls is also necessary to prevent scour of the isolation layer and underlying sediments due to surface water discharge to/from the lake.

4.3.2.1.1 Assessment of Existing Data

To date, the only bathymetric information available for the lake is a map generated using water-level measurements from 24 locations in December 1994. After plotting the water depths on a base map, elevation contours were produced using Softdesk™ contouring software. The 1994 bathymetric data is depicted on Figure

2-2. Based on the limited number of points used to generate the bathymetric map and their relative proximity to the lake shoreline, the 1994 shoreline area bottom contour is considered very approximate. A more current and accurate bathymetric map will need to be prepared to complete the shoreline armor layer design.

Information pertaining to the design and construction of the Silver Lake outfalls, including invert elevations, flow, and resultant scour patterns is limited to discharge information associated with GE's outfalls. Additional data is needed to complete the scour protection design in and around the pipeline locations, and to determine whether the outfalls will need to be modified and/or extended further into the lake following cap placement.

4.3.2.1.2 Pre-Design Investigation Activities

A bathymetric map will be prepared for Silver Lake using a small vessel-mounted differential global positioning system (DGPS) with fathometer and laptop computer, supplemented with conventional topographic survey techniques applied in the shallow shoreline areas and in the vicinity of the various outfalls. A description of the survey-related activities proposed to obtain bank/sediment bed slope data along the shoreline of the lake is presented in Section 4.3.3. The appropriate City of Pittsfield officials will be contacted to obtain the stormwater design flows and other related information for the municipal outfalls.

In addition, water flow (volume discharge) and discharge velocities will be monitored during a high-flow event at the municipal and GE outfalls. These measurements will be obtained following a rainfall event of at least 3-hour duration and 0.25 inches. Measurements will be obtained either manually or using automated samplers at 15-minute intervals during and following the rainfall event to capture the peak discharge. The data collected during that period will be used to assist with the development and preliminary design of the armoring systems along the shoreline. The data will also be used to design outfall scour protection where discharge volumes and velocities may cause erosion/deposition of sediments.

4.3.2.2 Wind Speed and Direction

Wind speed, duration, and direction must be defined during design of the armor layer to calculate wave height, and ultimately specify armor stone extent, layer thickness and size along the shoreline of the lake. This section of the PDI Work Plan evaluates the suitability of data used to complete the preliminary design for the shoreline armoring layer which was presented in Technical Attachment K of the SOW, and proposes collection of additional pertinent wind data to verify or modify the preliminary design recommendations.

4.3.2.2.1 Assessment of Existing Data

Wind speed data obtained from the Ambient Air Monitoring for PCB Study (Zorex, 1992) were used to develop the preliminary design for the shoreline armor layer. During this study, wind speed and direction were periodically recorded at an on-site weather station located at the East Street Area 2 site at the GE facility. Wind data were collected for 1 year, from August 1991 to August 1992. Wind data obtained from the Albany, New York airport weather station were also considered. The maximum anticipated wind-induced wave height was calculated using a wind speed which was approximately twice the maximum observed in Pittsfield during the 1991/1992 study. Using this assumption, the design specified that rough, angular quarry stone would be placed along the perimeter of Silver Lake, with a 10-pound, 0.9-foot-thick stone layer along the eastern and western shores and a 1-pound, 0.4-foot-thick stone layer along the northern and southern shores. The eastern/western armor layer would be extended into the lake to a mean water depth of 5.3 feet, and the northern/southern armor

layer would be extended into the lake to a mean water depth of 2.5 feet. To confirm or modify the preliminary design, compilation and use of a more comprehensive wind speed data set is proposed. Specifically, wind information obtained from the database provided by QEA will be used, as discussed below.

4.3.2.2.2 Pre-Design Investigation Activities

During the pre-design investigation, wind data obtained from the QEA database (which includes approximately 20 years of wind data) will be analyzed using statistical computer models to determine the wind speeds for the 5-year, 10-year, 15-year, 25-year, 50-year, and 100-year return periods in eight directions (north, northeast, east, southeast, south, southwest, west, and northwest). The results of the wind-data investigation will be presented graphically as a wind rose diagram, and as a chart depicting wind speed vs. return period. Design wave heights and periods will be determined based on the wind (and fetch) data, and the armor layer design, including stone sizing, layering, layer thickness, and location/extent, will be developed using standard United States Army Corps of Engineers (USACE) design procedures and/or computer models, including the Automated Coastal Engineering System (ACES) (USACE, 1992). The results from the wind rose diagram and the armor stone size calculations (per return period and direction) will be tabulated and presented and a wind speed versus stone size curve will be developed. The appropriate design return period will then be selected based on discussions with the EPA.

4.3.3 Cap Constructability Design Considerations

The Performance Standards for sediments established in the SOW require that GE achieve the final design cap thickness over the entire bottom of the lake. To design a cap configuration and identify cap placement techniques that will achieve this Performance Standard, the current bathymetry and geotechnical characteristics of the Silver Lake sediments must be thoroughly characterized. This section of the PDI Work Plan evaluates the current understanding of existing conditions in Silver Lake that relate to cap constructability, and identifies pre-design investigation activities necessary to design the cap and select appropriate cap materials and cap placement techniques.

As the field activities progress and more accurate information regarding current site conditions becomes available (e.g., the lake bottom bathymetric profile is better understood), modifications to the geotechnical sampling program proposed in the sections which follow may be warranted.

4.3.3.1 Lake Bottom Surface Profiling

An accurate bathymetric map of the lake bottom is needed to complete and monitor the Silver Lake cap design. More specifically, a good base map will be used to help locate sample locations for geotechnical testing, complete the armor layer design, determine cap material volumes, monitor cap thickness both during and following placement, identify obstructions that may interfere with certain cap materials (i.e., geotextiles), modify/design the tie-ins for outfalls to Silver Lake, and help develop/assess various cap placement techniques.

4.3.3.1.1 Assessment of Existing Data

As noted above, the only bathymetric information available to date for the lake is a map generated using water depth measurements obtained from 24 locations in December 1994, as depicted on Figure 2-2. For the cap

design, a more current and accurate bathymetric map will need to be prepared. Mapping will need to extend up to and include topographic information and invert elevations for all outfalls in the lake.

As described in Section 2 and depicted on Figure 2-1, several remnant structures were identified that may be present on the bottom of Silver Lake, and could interfere or alter the cap design and placement activities if encountered. Lake bottom surface profiling techniques will need to be implemented to determine the nature and extent of such structures on lake bottom surface.

4.3.3.1.2 Pre-Design Investigation Activities

A bathymetric map will be prepared for Silver Lake using a small vessel-mounted DGPS with fathometer and laptop computer, supplemented with conventional topographic survey techniques applied in the shallow shoreline areas and outfalls of the lake.

The surveys will be conducted by a qualified contractor along 34 north-south bank-to-bank transects across the lake and 7 east-west transects at each end of the lake. Perpendicular tie lines will also be included as required to maintain accuracy. The transects will be spaced at approximately 50-foot intervals. The approximate locations of the data collection transects are presented on Figure 4-4. To maintain horizontal and vertical control for this work, the contractor will use a state-of-the art onboard DGPS that receives signal corrections from a shore-based unit (accuracy typically less than 0.5 meters).

The horizontal positioning data will be transmitted in real time to a shoreline-based tracking system that is capable of displaying significant features such as target transects for data collection, and the position of the signal in relation to these features. This enables the helmsman to maneuver the signal vessel to follow each transect laterally across the lake, and collect water-depth data using a digital depth sounder, or equivalent system. The water-depth data will be used to calculate an elevation of the lakebed. These elevations will be referenced to a standard datum. For the shallow shoreline areas and outfalls of the lake, which are inaccessible by the survey vessel, conventional topographic survey methods will be employed.

Additionally, a side-scan sonar survey will be conducted by obtaining sonar imagery along longitudinal survey lines parallel to the long-side of the lake (i.e., east-west). A sufficient number of survey lines will be added so that bank-to-bank coverage will be obtained. The surveys will be conducted using a high-resolution side scan sonar system or equivalent. The data will be processed and interpreted to graphically represent the physical characteristics of the lakebed (e.g., remnant structures/obstructions, type of sediment, etc.). The side-scan sonar data will be compiled to generate a mosaic of the lake bottom in order to identify specific features that need to be considered during the design phase.

To supplement the side-scan sonar survey, a submerged video camera will be employed from the boat to verify the presence of obstructions thought to be protruding from the lake bottom. The camera will be supported by a cable and/or pole, and connected to a monitor and recorder. Observation of the lake bottom obstructions will be performed in real time with video footage, including voice description and location, and will be tied into shore-based DGPS and time recorded.

4.3.3.2 Geotechnical Lake Bottom Properties

A thorough understanding of the geotechnical characteristics of the existing Silver Lake sediments is necessary for the cap design. In areas of Silver Lake where the slopes are steep or the surficial sediments are loosely

consolidated, additions or modifications to the isolation layer design may be necessary (e.g., the use of geotextile, addition of more isolation layer material) to prevent side-slope slumping or to compensate for loss of effective cap thickness due to mixing during cap placement. The geotechnical characteristics of the existing bottom sediments will also be important when assessing/selecting appropriate cap placement techniques throughout the lake.

4.3.3.2.1 Assessment of Existing Data

Only a limited amount of geotechnical data is currently available for the Silver Lake sediments. The limited data obtained to date has primarily been collected from the central lake bottom, with little or no characterization of the side slopes and shallow shoreline characteristics. The previous geotechnical sample locations are depicted on Figure 2-3. In general, the sediment samples obtained from the lake bottom appear somewhat heterogeneous. The six sediment samples previously obtained for grain-size analysis varied from a sandy silt (60% silt) to a silt with fine sand (93% silt). The sediments in Silver Lake have a relatively high organic content (averaging approximately 9.6% based on total organic content). Bulk density of these samples averaged approximately 71 pounds per cubic foot, while specific gravity averages approximately 24. One consolidation test was performed to gain a general understanding of the likely compressibility of the in-situ sediment material tested, and displayed relatively high compressibility and a rapid consolidation rate. It should be noted that the sample tested was among the samples containing more sand. However, even though both materials are primarily comprised of silt, the materials will behave differently under various loading schemes and dynamic conditions during cap placement. The sandier matrix tends to provide good initial strength and stability, while the siltier matrix will deform under the load and experience more acute shear problems at the point of capping material discharge. To complete the cap design and understand the likely impacts to the underlying sediments due to cap placement, it is prudent to better understand certain sediment characteristics throughout the entire lake, rather than use a small subset of the sediment results upon which to base the design.

4.3.3.2.2 Pre-Design Investigation Activities

Using the 1994 bathymetric map for guidance, sediment probing and core collection for visual classification is currently proposed at up to 25 locations, with several cores each proposed from the lake bottom, the side slopes, and the shoreline areas of the lake. The proposed locations are depicted on Figure 4-5. After completing the lake bottom surface profiling activities, adjustments may be made to the location and number of sample locations to ensure adequate coverage of varying lake conditions. The sediment will first be probed at each location with a metal rod to assess sediment thickness and to help select a suitable sampling technique. Sediment cores will then be advanced to refusal (i.e., all soft sediment will be penetrated) using a vibratory corer and/or Lexan tubing. If the recovery is less than 20% of the penetration depth, the core will be discarded and a second attempt will be made. Two cores will be collected and retained for geotechnical testing from each location. The capped cores will be stored on the sampling vessel in a vertical position until being transported to a field processing area.

Each core will be visually characterized throughout the recovered core length using the Unified Soil Classification System (USCS). Each core will be segmented into discrete depth increments for geotechnical testing. The depth increments currently proposed for testing are listed in Table 4-1. For samples obtained below 1 foot, the sample intervals will be field-selected based on observed consistency and sediment type encountered. As noted in Table 4-1, geotechnical parameters will include water content, organic content reported as total organic carbon (TOC) and fraction organic carbon (foc), Atterberg limits, grain-size analysis, specific gravity, bulk density, and consolidation.

In addition, in-situ vane-shear testing will be performed in close proximity to each geotechnical test boring to determine undrained shear stress. The test consists of rotating a four-bladed vane in the undisturbed sediment layer from the surface to determine the torsional force required to cause a cylindrical surface to be sheared by the vane. Vane-shear test results are obtained in the field at the time of the test. Vane-shear testing will be performed at the same location intervals as the other geotechnical tests.

The current testing strategy is essentially the same as that described in Attachment K to the SOW with the addition of more detailed testing of the sediment materials (i.e., in-situ vane shear testing, and long-term consolidation testing). Since the finalization of the SOW, review of information gathered from sediment capping project pilot studies performed elsewhere suggests that a better understanding of the subsurface topographic components is critical to cap performance. As such, in-situ vane shear testing is proposed to further evaluate potential sediment stability issues. Likewise, consolidation testing is proposed, recognizing that a thicker profile of sediment will result in greater potential for deflection and settlement.

4.4 Pre-Design Bank Soil Investigations

4.4.1 Assessment of Existing Soil Analytical Data

The existing soil analytical data available for the bank soils at the Silver Lake RAA were previously identified in Section 2. Those data, together with the existing data from other portions of the properties involved, are summarized in Tables 2-4 and 2-5 for PCBs and non-PCB constituents, respectively. As part of identifying pre-design investigations for these areas, certain of the existing data have been reviewed to determine their general usability in future RD/RA activities (where relevant to the areas subject to response actions). Specifically, those data from samples that were located within the bank portions of the RAA and/or which potentially represent the bank soils (i.e., PCB samples on non-bank areas that have Theissen polygons extending onto the adjacent bank) have been subject to the usability assessment, excluding the data from the four previously remediated residential properties that would not affect the banks of adjacent properties. As provided in Attachment D of the SOW, the criteria for determining the usability of existing data include: (1) an evaluation of whether such data reflect the appropriate locations and depth increments so as to apply the Performance Standards for the Removal Action in question; and (2) an assessment of the quality of such data in terms of quality assurance/quality control (QA/QC).

The existing soil PCB data from samples located within or in close proximity to the bank soils (excluding the data from the four previously remediated properties that would not affect the banks of adjacent properties) consist of PCB results from a total of 407 soil samples. For these data, the usability assessment involved, at the outset, a review of the locations and depth increments from which these samples were taken. From this review, it was determined that all of these available data can potentially be used to support future RD/RA evaluations, since all the PCB soil data correspond to sample depth increments that are between 0.5 feet and 2 feet. As a result, all of these available data were assessed for overall analytical quality; the results of this assessment are summarized below.

- For the 121 PCB sample results previously collected by GE, laboratory data packages are available for 58 of these results. These data packages were reviewed for completeness, analytical techniques used, and to identify any apparent method or analytical discrepancies or other significant data-quality issues that could render the data unusable. Review of that documentation showed no deficiencies that would preclude use of these PCB data.

- For the remaining 63 PCB sample results collected by GE, only a standard laboratory reporting form is available. However, based on review of this documentation, these PCB results are likewise considered usable for future RD/RA evaluations (as relevant) for the following reasons: (1) the reporting form confirms the date of sample analysis and thus the analytical methods that were used and the associated detection limits; (2) those analytical methods are consistent with current procedures; (3) the reporting form is a laboratory-generated document, and thus incorporates certain inherent QA checks performed by the laboratory concerning data quality; and (4) review of the PCB data for which full laboratory data packages are available indicates that those data are 100% usable, thus suggesting that the remaining PCB analyses from this same general time period are generally sufficient for use in RD/RA evaluations.

- For the 286 PCB samples collected and analyzed by EPA, the analytical data were provided to GE in START Program reports prepared by EPA. No information has been provided indicating whether these data have been validated by EPA. At this time, it is anticipated that these soil sampling results from the START Program will be considered in a similar manner to data received via the database exchange between EPA and GE -- i.e., considered potentially usable for RD/RA evaluation purposes. However, GE may reassess the usability of EPA sample results for specific locations, where the samples were analyzed using the mobile laboratory procedure, and, if necessary, may recollect and reanalyze samples from those locations prior to completing its RD/RA evaluations.

Based on the above assessment, GE has considered all of the relevant PCB data from prior investigations in developing the pre-design investigations, and proposes to use these prior data in future RD/RA evaluations to the extent relevant to the areas that will undergo response actions as part of the Silver Lake Removal Action (subject to the possible reassessment of particular EPA sample results as noted above).

For non-PCB Appendix IX+3 constituents, the existing data from soil samples located within the bank areas (excluding data from the four previously remediated residential properties) consist of data from 14 soil samples that were analyzed for one or more groups of such constituents. At the outset, the usability assessment involved a review of the locations and depth increments from which these samples were taken. From this review, it was determined that all of these available data can potentially be used to support future RD/RA evaluations. As a result, all of these available data were reviewed for overall analytical quality, as summarized below.

For all 14 samples, laboratory data packages are available. These data packages were reviewed for completeness and the analytical techniques, as well as to identify any apparent discrepancies or other significant data-quality issues noted by the analytical laboratory that would seem likely to render the data unusable. For these data, review of the laboratory documentation revealed no deficiencies of the type that, based on GE's prior assessment of similar data, would cause these data to be rejected; thus these data are considered acceptable for future RD/RA evaluations. Accordingly, GE proposes to incorporate these data, as appropriate, to satisfy pre-design investigations for non-PCB constituents.

4.4.2 Pre-Design Soil Sampling Activities

Section 2.6.3 of the SOW and Section 2.3 of Attachment D to the SOW address the general pre-design soil requirements for investigations related to the bank soils of properties adjacent to Silver Lake (see Figure 4-6). In general, the sampling must be sufficient to characterize the constituents in the soils, be consistent with prior investigations of these areas, and be sufficient to support spatial averaging for PCBs and to apply the relevant Performance Standards set forth in the CD and SOW. Further, the SOW indicates that grid sampling techniques consistent with those specified in the SOW for the GE Plant Area and the Former Oxbow Areas shall be evaluated and used for PCBs as appropriate. The SOW contains no requirements regarding the number,

locations, or depths of soil samples to be analyzed for non-PCB Appendix IX+3 constituents related to the Silver Lake RAA bank soils.

Based on the non-specific nature of the requirements contained in the CD and SOW, GE has developed a pre-design investigation program for EPA review and approval. In developing this program, GE has considered the property type (i.e., residential, commercial/industrial, or recreational), and the locations, depths, and results of prior samples. In this process, GE also evaluated the appropriateness of grid-like sampling techniques and utilized them (or their concept) where warranted. The proposed pre-design soil sampling activities for PCBs and non-PCB constituents are described in Sections 4.4.2.1, 4.4.2.2, and 4.4.2.3 for residential properties, commercial/industrial properties, and the recreational areas, respectively, while the proposed soil sampling locations are presented on Figures 4-7 through 4-11.

Several general points should be noted about these proposed investigations:

- At the present time, the proposed soil sampling at the residential and commercial/industrial properties is focused on the bank portions of those properties. However, as discussed further below, if the data at a given property indicate that PCBs greater than 2 ppm likely extend outside the bank area into the non-bank portion of the property, GE may elect: (1) for a residential property, to address the entire property under the CD, as allowed by the CD and SOW; or (2) for a commercial/industrial property, to propose to EPA that the entire property be addressed under the CD and be subject to the Performance Standards for commercial/industrial properties at the CD Site. In such cases, additional sampling will be proposed so that the entire property can be evaluated under the CD.

- The proposed soil sample locations are subject to modification based on field assessment as to the actual location of the top of the bank. Any significant modifications resulting from this field assessment will be proposed to EPA for review and approval.

- Based on available information, no utilities subject to emergency repair have been identified within the banks/recreational areas. Therefore, no special considerations related to the characterization of soils in the immediate vicinity of subsurface utilities are needed at this time. However, based on additional information collected during pre-design activities, if utilities subject to emergency repair are identified, GE will evaluate, in consultation with EPA, whether additional pre-design activities are necessary.

- For samples collected for Appendix IX+3 analyses as part of pre-design soil investigations, GE proposes to exclude analyses for pesticides and herbicides for the following reasons: (1) prior sampling and analysis activities (performed in 1995) were performed as part of an MCP program, with MDEP approval, in which analyses for pesticides and herbicides were not required; and (2) it is suspected that the presence of these compounds, if detected, would likely be attributable to the application of weed and pest control materials in accordance with their intended and appropriate commercial application.

4.4.2.1 Soil Sampling at Residential Property Banks

The proposed pre-design sampling program for the residential bank soils generally involves sampling for PCBs on an approximate grid-like pattern, taking into account the existing sampling data. The proposed soil sampling locations for these areas are shown on Figures 4-8 through 4-10. As shown on those figures, the proposed sampling locations are generally spaced at intervals of approximately 25 to 50 feet (depending on the size of the property), with locations alternating between the lower and upper bank areas.

On the five such properties that have not been sampled to date (Parcels I9-9-24, I9-9-17, I9-9-18, I9-9-19, and I9-9-9), soil borings will be advanced at approximately half of the sampling locations on each property, while surface soil samples (upper one foot) will be collected at the remaining locations for PCB analysis. Based on review of the available PCB soil data, it is not expected that PCBs will be present in subsurface soils at depths greater than 9 to 11 feet. Therefore, the soil borings will be advanced to a total depth of 11 feet (to the extent feasible) and samples from the borings will be collected from the top foot and succeeding 2-foot depth intervals. These samples will be analyzed for PCBs using an iterative approach, with the uppermost three sample depth increments (i.e., the 0- to 1-foot, 1- to 3-foot, and 3- to 5-foot depth increments) initially analyzed for PCBs, and the lower depth samples (5- to 7-foot, 7- to 9-foot, and 9- to 11-foot depth increments) held for analysis if PCBs are detected in the 3- to 5-foot depth increment.

As shown on Figure 4-10 and in Table 2-4, the other two residential properties (Parcels I9-9-1 and I9-10-8) have already been intensively sampled for PCBs. However, at several locations on the banks, the existing data do not define the vertical extent of PCBs. Hence, at these parcels, additional borings will be advanced in the bank areas at the locations shown on Figure 4-10 to a total depth of 11 feet (to the extent feasible), with samples to be collected for PCB analysis from the depth increments necessary to define the vertical extent of PCBs.

The depth increments from which soil samples are proposed to be collected from all sampling locations on these residential banks are shown in Table 4-2.

A portion of the soil samples collected at each residential bank area will also be analyzed for other Appendix IX+3 constituents. The locations that are proposed for Appendix IX+3 analyses are identified on Figures 4-8 through 4-10. The number of such locations ranges from 2 to 4 per property, depending on the size of the bank area at the property. At each such location, the sample from the top foot and one sample from a deeper increment (either the 1- to 3-foot or 3- to 5-foot depth increment) will be submitted for Appendix IX+3 analysis (excluding pesticides and herbicides, as discussed above), so that Appendix IX+3 data will be available for both of the overall relevant depth intervals subject to Performance Standards at these residential banks – i.e., the top one foot and the soil greater than one foot in depth. The sample locations and depth increments proposed for Appendix IX+3 sampling are also listed in Table 4-2.

If the results of the pre-design investigations described above indicate the need for further sampling to define the horizontal or vertical extent of PCBs at these residential bank areas, additional sampling will be proposed to do so. In addition, if these data, in combination with the pre-existing PCB data, indicate that PCBs greater than 2 ppm extend or may extend into the non-bank portion at a given property, additional investigations will be proposed to address the non-bank portion of the property. If any additional investigations are needed in either the bank or the non-bank areas, GE will submit a PDI Work Plan Addendum which will present all available data from the bank (and any other prior) investigations at the property and propose the necessary additional investigations. Further, if such additional investigations are necessary to address the non-bank portion of the property, the Addendum will describe how GE proposes to proceed with those additional investigations (i.e., under the CD or under the MDEP ACO). GE may elect to address the entire property under the CD as a single averaging area, provided that exposure to soils is equally likely throughout the property, as allowed by the CD and SOW. In such cases, the PDI Work Plan Addendum will include the proposed scope of the additional sampling of the non-bank portion of the property as necessary to collect the data to allow evaluation of the entire property under the CD.

In addition to the proposed pre-design sampling program for the residential bank soils, GE will perform PCB soil sampling at select non-bank portions of Parcel I9-9-24. Parcel I9-9-24 was previously sampled by GE in 1997 as part of past floodplain sampling activities, under the direction of EPA and MDEP. As presented in Table 2-4, all sampling results were less than 2 ppm PCB. This property had been previously investigated by GE because EPA and MDEP had learned that the property had been likely flooded a number of years ago.

However, as noted in EPA's conditional approval letter of November 21, 2002, MDEP recently learned that, soon after the property had likely been flooded, approximately 1 to 2 feet of fill materials were placed on the property. Since the prior samples were collected only to a depth of one foot (see Table 2-4), it is possible that those samples did not sample any PCB-related impacts resulting from the prior flooding. As a result, in its November 21, 2002 conditional approval letter, EPA directed GE to propose additional sampling on the non-bank portion of this property. In response, GE proposes to collect two samples from the 1- to 3-foot depth interval on this property at the non-bank locations shown on Figure 4-8, and to submit those samples for PCB analysis, to make a screening assessment of whether PCB concentrations above 2 ppm may be present at that depth due to flooding that occurred prior to the placement of fill. These proposed sampling locations have been selected to coincide with the existing non-bank surface soil sampling locations on this property. If the results from these initial samples show PCB concentrations above 2 ppm, additional sampling of the 1- to 3-foot depth increment (and potentially deeper increments) at this property will be proposed in the PDI Work Plan Addendum.

4.4.2.2 Soil Sampling at Commercial/Industrial Property Banks

The proposed pre-design soil sampling program for the banks of the commercial/industrial properties also generally involves sampling for PCBs on an approximate grid-like pattern, taking into account the existing PCB sampling data. The proposed sampling locations at these bank areas are shown on Figures 4-7 through 4-9. As illustrated on those figures, soil sampling locations will be spaced at intervals of approximately 50 feet, with locations alternating between the lower and upper bank areas. At each location, a soil boring will be advanced to a depth of three feet, and soil samples will be collected for PCB analysis from the 0- to 1-foot and 1- to 3-foot depth increments. (Note that there is no need to collect deeper soil samples at these properties, because there are no Performance Standards applicable to soils at depths greater than three feet.)

A portion of these samples will also be analyzed for other Appendix IX+3 constituents. The locations proposed for such analyses are identified on Figures 4-7 through 4-9, with 2 to 3 such locations on each separately owned property (depending on the size of the property). At each such location, the 0- to 1-foot and 1- to 3-foot depth samples will be submitted for Appendix IX+3 analysis (excluding pesticides and herbicides, as discussed above).

In the event that the results of this sampling indicate that PCBs at concentrations greater than 2 ppm are likely to extend into the non-bank portion of a given commercial/industrial property or properties, additional investigations will be proposed to address the non-bank portion(s) of those property(ies). Again, in that event, GE will submit a PDI Work Plan Addendum which will present all available data from the bank investigations at the property(ies), propose additional investigations to address the non-bank portion(s), and describe how GE proposes to proceed with those additional investigations (i.e., under the CD or under the MDEP ACO). In this case, GE may propose to EPA and MDEP that the CD should be modified as necessary to allow the entire such property or properties to be addressed under the CD, subject to the same Performance Standards applicable to non-GE-owned commercial/industrial properties that are already covered by the CD. Such a proposal would allow such property or properties to be addressed comprehensively under a single program and be subject to Performance Standards that have already been determined to be protective at similar properties. In such an event, the PDI Work Plan Addendum will include the proposed scope of the additional soil sampling for the non-bank portions of such properties as necessary to obtain the data to allow evaluation of these entire properties under the CD and SOW.

4.4.2.3 Soil Sampling at Recreational Areas

As previously described, the recreational area located along the northern and eastern edges of Silver Lake will be evaluated as five separate areas. For these areas, the proposed pre-design soil sampling for PCBs involves sampling at approximate 50-foot intervals, with locations alternating between the lower and upper portions of the averaging areas. The proposed soil sampling locations are shown on Figure 4-11. (As noted above, since the so-called "island" or peninsula located near the discharge outfall is currently partially submerged and in any event, under the Performance Standards for natural resource restoration/enhancement activities, will be capped, it is not considered part of the Silver Lake banks for purposes of the pre-design investigations. As a result, no soil samples are proposed in that area.) Consistent with the sampling approach outlined above for the commercial/industrial properties, samples will be collected for PCB analysis from the 0- to 1-foot and 1- to 3-foot depth increments at all proposed sampling locations. (Again, for such areas, there is no need for deeper soil data since there are no Performance Standards applicable to soil greater than three feet in depth.)

A portion of the samples collected from these areas will be analyzed for other Appendix IX+3 constituents. The sample locations proposed for such analyses are identified on Figure 4-11. As depicted on that figure, the number of such locations ranges from 3 to 6 per averaging area (depending on the size of the averaging area). At each such location, the 0- to 1-foot and 1- to 3-foot samples will be submitted for Appendix IX+3 analysis (excluding pesticides and herbicides, as discussed above).

4.4.2.4 Summary

Overall, the initial pre-design soil sampling program proposed herein will involve the collection of 364 soil samples for analysis of PCBs and 116 soil samples for the analysis of non-PCB Appendix IX+3 constituents from the bank areas of the properties adjacent to Silver Lake, along with 2 soil samples for PCB analysis from the non-bank portions of Parcel I9-9-24. The depth increments from which samples are proposed to be collected from all proposed sampling locations are summarized in Table 4-2.

4.4.3 Soil Sampling Analytical Procedures

The pre-design bank soil investigations will be conducted following the procedures set forth in GE's approved FSP/QAPP. Specifically, the analytical procedures for the analysis of soil samples will be consistent with the EPA-approved procedures presented in Table 1 of the FSP/QAPP. The field procedures will follow the standard operating procedures (SOPs) presented in appendices to the FSP/QAPP.

Samples collected for PCB analysis will be analyzed for Aroclor-specific PCBs using EPA Method 8082 in accordance with the FSP/QAPP. PCB results will be reported on a dry-weight basis with a detection limit of 0.05 ppm for all Aroclors.

Samples collected for analysis of Appendix IX+3 constituents (excluding pesticides and herbicides, as discussed above) will follow the methods presented in Table 1 of the FSP/QAPP. Sample results will be presented on a dry-weight basis with detection limits consistent with those presented in Table 3 of the FSP/QAPP.

Sample analysis for PCDDs and PCDFs will be performed using EPA Method 8290. PCDD/PCDF results will be reported on a dry-weight basis for both total homologues and 2,3,7,8-substituted congeners. Sample detection limits will be consistent with those presented in Table 3 of the FSP/QAPP. In addition, total TEQ concentrations will be calculated for the PCDD/PCDF compounds, using the toxicity equivalency factor (TEFs)

derived by the World Health Organization (WHO) and representing non-detected compounds as one-half the analytical detection limit.

Quality control samples (i.e., matrix spike/matrix spike duplicates, field duplicates, trip blanks, and field blanks) will be collected at the frequency specified in Table 4 of the FSP/QAPP for each sample matrix collected. Tables 4 and 5 of the FSP/QAPP present the quality control criteria and corrective action procedures to be followed for each of the analytical procedures listed in Table 1 and for field-generated quality control samples. Overall project quality assurance will be maintained by following the procedures specified in the FSP/QAPP for sample collection and analysis, corrective action, and data reporting and validation.

4.4.4 Other Proposed Pre-Design Activities

In addition to the pre-design soil sampling activities discussed above, several non-sampling-related activities will be conducted by GE as part of the pre-design investigations to support future RD/RA evaluations. Such activities are summarized below and generally include collecting information concerning the existing physical conditions of each property (e.g., topography, as well as vegetation and habitat quality of the banks) subject to pre-design activities.

The site mapping presented in this PDI Work Plan was developed using aerial photographs and available tax maps from the early 1990s. Before conducting RD/RA activities, it will be necessary to obtain more accurate and up-to-date information related to property boundaries, top of bank, current site features and uses, and other features unique to a given property. Accordingly, GE will conduct additional survey activities to generate more detailed base mapping to support future RD/RA activities. Specifically, it is anticipated that GE will develop a site map for each property (or each property group) that illustrates the following features:

- Property boundaries;
- Key physical features (e.g., structures, fencing, maintained lawn areas, paved areas, etc.);
- Surface topography (1-foot contours);
- Delineation of the top-of-bank area and non-bank areas of each property; and
- Other appropriate and adjacent features (e.g., utilities, if any).

The site mapping will also be used to record the pre-design sampling locations relative to the features described above.

In the event that GE elects to address an entire residential property under the CD or proposes to address an entire commercial/industrial property under the CD, it will be important to determine whether potential residential or commercial/industrial (as applicable) exposure is equally likely throughout the property (or, if not, what the appropriate averaging areas should be). In that event, the site mapping, together with field observations of the relevant properties, will be used to develop the land-use information to establish likely exposure/use conditions at these properties. For example, the site mapping and field observations could be used to identify any property-specific features that would prevent such property from having similar exposure/use conditions throughout the property.

In addition, GE proposes to conduct a riparian habitat assessment of the banks to document the current vegetative community and potential wildlife usage adjacent to Silver Lake. This information is anticipated to be important in determining the existing functions and values of the bank areas, as well as identifying habitat features to be restored or enhanced. For this assessment, the riparian habitat of Silver Lake will be considered the vegetative community covering the lake's bank slope from the edge of the water to the crest of the slope. It

is anticipated that the vegetative community of the bank areas will be characterized by establishing sampling plots at appropriate lengths and widths to encompass each bank area or group of bank areas. In addition to analyzing the vegetative community, potential wildlife usage will be evaluated through direct observations of wildlife and wildlife signs (i.e., tracks, dens, nests, scat) and knowledge of the habitat requirements for species in this area.

5. Schedule

Based on the scope and anticipated duration of the pre-design activities described in this PDI Work Plan, GE proposes to provide separate pre-design reports to EPA for the Silver Lake sediments and the soils at adjacent properties. The proposed approach and schedule for future reporting is described below.

- For sediments, GE proposes to complete the proposed pre-design activities and submit a Pre-Design Investigation Report within 12 months of EPA's approval of this PDI Work Plan. This timeframe has been identified based on several factors, including not only those typically associated with site investigations (e.g., weather conditions, access permission, etc.), but also certain unique considerations – namely, the considerable time needed to implement investigations related to sediment capping that have extended durations or seasonal restrictions. That Pre-Design Investigation Report for the sediments will include an evaluation as to whether the available data are sufficient to support RD/RA activities for sediments. If it is determined that further data are needed to support RD/RA activities to achieve the applicable Performance Standards for sediments, that report will describe the identified data needs, propose the scope of additional investigations to fill those needs, and propose a schedule for completing the additional investigations and submitting a Supplemental Pre-Design Investigation Report for the sediments. If, however, it is concluded that the available data are sufficient to support RD/RA activities for sediments, that report will also include a proposed schedule for submission of a Conceptual RD/RA Work Plan.

- For soils, GE proposes to complete and document the pre-design investigations proposed herein within 8 months of EPA's approval of this PDI Work Plan, subject to obtaining access agreements in a timely manner and potential seasonal constraints on performing the specific investigations. If delays in obtaining access permission or delays due to seasonal constraints or other factors will cause a delay in this schedule, GE will notify EPA and propose a revised schedule for completing the investigations.

  Following completion of the soil-related pre-design investigations described in this PDI Work Plan, GE will submit a report on the investigations performed. The report submitted will depend on whether additional soil-related investigations are needed. If the results of the initial pre-design investigations indicate that further data are needed to support RD/RA activities for bank soils, or that additional soil data would be appropriate for non-bank portions of particular properties adjacent to the lake (so as to allow evaluation of the entire properties), GE will submit a PDI Work Plan Addendum. That Addendum will present the available soil data, propose additional investigations, and identify a schedule for performing the additional investigations and submitting a Pre-Design Investigation Report for soils. In addition, if additional investigations are necessary to address the non-bank portion of certain properties, the Addendum will describe how GE proposes to proceed with those additional investigations (i.e., under the CD or under the MDEP ACO). If, however, it is determined at the conclusion of the pre-design investigations described herein that the available data are sufficient to support RD/RA activities for soils at the properties adjacent to Silver Lake, then GE will, at that time, submit a Pre-Design Investigation Report for soils, which will present the results of all soil investigations and include a proposed schedule for submission of a Conceptual RD/RA Work Plan.

As described above, performance of pre-design investigations and reporting will be conducted separately for sediments and soils at the Silver Lake RAA. Depending on the results and timing associated with these investigations, GE may also propose to submit future technical submittals (e.g. the Conceptual RD/RA Work

Plan) and/or to perform future response actions on separate schedules for sediments and soils. Such proposals will be contained within the submittals identified above.

6. Summary of Anticipated Post-Removal Site Control Activities

After completing construction activities to implement the necessary response actions, GE will continue to inspect, monitor, and maintain the completed actions and perform repairs and replacement, as needed, so that the completed response actions are performing as designed. The specific scope and methodologies for such inspection, monitoring, and maintenance activities will be detailed in a Post-Removal Site Control Plan for the Silver Lake RAA.

Such activities will include periodic inspections, monitoring, and sampling of the sediment capping system – including monitoring of the cap to ensure maintenance of the final design cap thickness, sampling of the isolation layer to assess its long-term effectiveness in controlling PCB migration from the underlying sediments and to assess the deposition of PCBs on the surface of the cap, and monitoring of the shoreline armor layer to ensure that it is effectively preventing erosion. These activities will be performed in accordance with the protocols specified in Section 5 of Attachment K to the SOW, with any modifications proposed in the Post-Removal Site Control Plan and approved by EPA. Based on the results of the periodic inspection, monitoring, and sampling activities, GE will, when necessary in accordance with Performance Standards #8 and #9 in Section 2.6.2 of the SOW and the pertinent requirements of Attachment K, evaluate appropriate corrective actions in accordance with and subject to those Performance Standards and requirements, submit the results of such evaluations along with any proposed corrective actions to EPA for review and approval, and implement such corrective actions (if any) upon EPA approval.

For the properties adjacent to Silver Lake at which response actions are conducted under the CD, GE will perform periodic inspections and maintenance of the backfilled/restored bank areas (and any non-bank areas at which response actions are conducted under the CD) in accordance with the pertinent requirements specified in Attachment J (Inspection and Maintenance Activities) to the SOW, except as otherwise proposed in the specific Post-Removal Site Control Plan and approved by EPA.

Inspection reports on these activities will be prepared and submitted periodically in accordance with the requirements of Section 4 of Attachment J to the SOW.

Finally, the Post-Removal Site Control activities will incorporate the Restoration Project Monitoring and Maintenance Plan for natural resource restoration/enhancement measures, with any proposed modifications based on implementation of those measures or other relevant developments. The natural resource restoration/enhancement measures will be monitored, inspected, and maintained in accordance with the Performance Standards and other requirements set forth in Section 8 of Attachment I (Natural Resource Restoration/Enhancement Activities) to the SOW and the approved Restoration Project Monitoring and Maintenance Plan.

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Tables

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TABLE 2-1
SUMMARY OF GEOTECHNICAL SEDIMENT LABORATORY RESULTS FOR THE REMEDIAL INVESTIGATION
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample No.	Sample Depth (ft)	Description of Sediment Specimen	Natural Moisture (%)	Amount Passing No. 200 Sieve (%)	Specific Gravity	Bulk Density (pcf)	One-Dimensional Consolidation			Time-Rate Consolidation (in^2 /min)
							Precons. Pressure	C_c	e_o	
SLS-1	0-5.5'	SILT with sand (ML)	156.70%	85.50%	2.4269	73.36	0.43	0.53	2.099	0.012 to .023
SLS-2	0-4.5'	Sandy SILT (ML)	167.30%	73.80%	2.4273	82.95	NA	NA	NA	NA
SLS-3	0-5.0'	SILT with sand (ML)	441.90%	92.70%	2.2899	71.74	NA	NA	NA	NA
SLS-4	0-4.5'	SILT with sand (ML)	388.80%	86.60%	2.331	63.46	NA	NA	NA	NA
HCSE-11	0-5.5'	Sandy SILT (ML)	371.60%	59.90%	2.6500	NA	NA	NA	NA	NA
HCSE-12	0-5.5'	Sandy SILT (ML)	228.85%	74.95%	2.5235	65.56	NA	NA	NA	NA

Notes:
1. Duplicate sample was collected from location HCSE-11, and results were averaged.
2. NA = Not Available
3. pcf = pounds per cubic feet

TABLE 2-2
MONITORING WELL SPECIFICATIONS
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Date Drilled	Measuring Point Elevation (feet amsl)	Ground Surface Elevation (feet amsl)	Well Diameter (inches)	Well Material	Screen Interval (feet)	Material Screened	Geologic Unit Screened	Notes
RF-2	10/22/91	NA	NA	4	Sch 40 PVC	3. - 18.	Sand	Alluvium	
RF-3	10/24/91	NA	NA	4	Sch 40 PVC	3. - 18.	Sand	Alluvium	
RF-3D	4/23/01	985.31	985.54	2	Sch 40 PVC	30.6 - 35.6	Sand	Alluvium	
RF-4	5/28/91	NA	NA	4	Sch 40 PVC	10. - 25.	Sand and Gravel	Alluvium	
RF-16	10/21/91	NA	NA	4	Sch 40 PVC	7. - 22.	Sand and Fill (coal, brick, etc)	Fill and Alluvium	
E-7	8/7/95	982.87	983.3	2	Sch 40 PVC	4.6 - 19.6	Sand	Fill and Alluvium	
GMA1-1	5/2/01	988.43	989.14	2	Sch 40 PVC	9.5 - 19.5	Wood and Concrete Fill and Sand	Fill and Alluvium	
GMA1-2	4/18/01	1006.75	1006.98	2	Sch 40 PVC	6.2 - 16.2	Sand and Silt	Alluvium/Lacustrine	
GMA1-3	4/19/01	990.78	991.28	2	Sch 40 PVC	3.5 - 13.5	Silt	Till	
GMA1-10	6/14/01	1024	985.14	2	Sch 40 PVC	5.21 - 20.21	Sand	Alluvium	NAPL Noted
GMA1-12	NA	NA	NA	NA	NA	NA	NA	NA	
ES2-19	NA	NA	NA	NA	NA	NA	NA	NA	
95-16	12/26/95	998.19	1007.88	1	Sch 40 PVC	14. - 24.	Sandy Silt	Alluvium and Till	
95-25	2/27/96	988.2	985.12	0.75	Sch 40 PVC	8. - 18.	Sand	Alluvium	
LS-37	8/8/95	989.62	987.3	2	Sch 40 PVC	8.6 - 23.6	Fill, Sand, and Peat	Fill and Alluvium/Lacustrine	
LS-28	8/14/95	986.06	983.6	2	Sch 40 PVC	8.6 - 23.6	Sand	Alluvium	
LS-29	8/8/95	990.63	988.3	2	Sch 40 PVC	24.6 - 34.6	Sand and Gravel	Alluvium	
B-2W	NA	NA	NA	NA	NA	NA	NA	NA	
B-3W	NA	NA	NA	NA	NA	NA	NA	NA	
I9-9-26-MW-1	NA	NA	NA	NA	NA	NA	NA	NA	
I9-9-28-MW-1	NA	NA	NA	NA	NA	NA	NA	NA	
I9-9-28-MW-2	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
1. Information regarding well construction and current condition of wells is unknown.
2. Wells I9-9-26-MW-1, I9-9-28-MW-1, and I9-9-28-MW-2 have been decommissioned.
3. Wells B-2W and B-3W could not be located.

NA - not available

TABLE 2-3
SUMMARY OF PROPERTIES WITHIN SILVER LAKE REMOVAL ACTION AREA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

TAX PARCEL ID	TAX PARCEL LOCATION	TAX PARCEL CLASSIFICATION
I9-9-34	765 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-33	763 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-32	751 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-31	745 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-30	737 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-25	717 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-24	709 EAST STREET	RESIDENTIAL
I9-9-23	EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-21& -22 (Commonly Owned)	689 EAST STREET	COMMERCIAL/INDUSTRIAL
I9-9-19	619 FENN STREET	RESIDENTIAL
I9-9-18	611 FENN STREET	RESIDENTIAL
I9-9-17 (See Note 2)	607 FENN STREET	RESIDENTIAL
I9-9-11 & -101 (Commonly Owned)	551-1/2 & 579 FENN STREET	COMMERCIAL/INDUSTRIAL
I9-9-9	3 CAPRI TERRACE	RESIDENTIAL
I9-9-1	15 ESTHER TERRACE	RESIDENTIAL
I9-10-8	ESTHER TERRACE	RESIDENTIAL
I9-10-9	FOURTH STREET	RECREATIONAL
UNKNOWN	SILVER LAKE BOULEVARD	RECREATIONAL

Notes:
1. This table lists the properties designated in the SOW (Figure 2-25) as part of the Silver Lake RAA.
2. Parcel I9-9-17 (which is designated residential) is commonly owned along with Parcels I9-9-11 and I9-9-101 (which are designated commercial/industrial properties).

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-1			
SLB-8 Bottom Bank	0 - 0.5	2/23/95	3.2
SLB-8 Top Bank	0 - 0.5	10/11/95	ND(0.044)
R84A025	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	0.2J
	0 - 2	10/28/98	0.2J
	2 - 4	10/28/98	ND(0.6)
	4 - 6	10/28/98	ND(0.6)
	6 - 8	10/28/98	ND(0.6)
R84A050	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
R84A075	0 - 0.5	10/13/98	ND(0.6)
	0.5 - 1	10/13/98	ND(0.5)
R84A100	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
R84A125	0 - 0.5	10/13/98	ND(0.6)
	0.5 - 1	10/13/98	ND(0.5)
R84A150	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	0.6J
R84A165	0 - 0.5	10/13/98	2.7J
	0.5 - 1	10/13/98	19J
	0 - 2	10/28/98	11J
	2 - 4	10/28/98	4.3J
	4 - 6	10/28/98	ND(1.7)
	6 - 8	10/28/98	ND(12)
R84A168	0 - 0.5	10/13/98	310J
	0.5 - 1	10/13/98	640
	0 - 2	10/28/98	220
	2 - 4	10/28/98	100J
	4 - 6	10/28/98	64J
	6 - 8	10/28/98	9.0J
R84B000	0 - 0.5	10/13/98	0.6J
	0.5 - 1	10/13/98	0.2J
R84B050	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.6)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-1			
R84B050	0 - 2	10/28/98	ND(0.6)
	2 - 4	10/28/98	ND(0.5)
	4 - 6	10/28/98	ND(0.5)
	6 - 8	10/28/98	ND(0.5)
R84B075	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
R84B100	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
	0 - 2	10/28/98	ND(0.5)
	2 - 4	10/28/98	0.4J
	4 - 6	10/28/98	ND(0.5)
	6 - 8	10/28/98	ND(0.5)
R84B125	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	0.2J
R84B134	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	ND(0.5)
R84B144	0 - 0.5	10/13/98	210J
	0.5 - 1	10/13/98	1200
	0 - 2	10/28/98	190J
	2 - 4	10/28/98	29J
	4 - 6	10/28/98	26J
	6 - 8	10/28/98	16J
R84C000	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.2J
R84C025	0 - 0.5	10/13/98	ND(0.6)
	0.5 - 1	10/13/98	0.2J
R84C050	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	0.4J
R84C075	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
R84C100	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	ND(0.5)
R84C104	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	ND(0.5)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-1			
R84C116	0 - 0.5	10/13/98	0.6J
	0.5 - 1	10/13/98	25J
	0 - 2	10/28/98	30J
	2 - 4	10/28/98	16J
	4 - 6	10/28/98	13J
	6 - 8	10/28/98	7.9J
PARCEL I9-9-21			
SLB-7 Middle Bank	0 - 0.5	5/24/94	1.3
	0.5 - 1	5/24/94	11.0
SLB-7 Top Bank	0 - 0.5	5/24/94	2.4
	0.5 - 1	5/24/94	3.9
SLB-7 Top Bank-10	0 - 0.5	10/11/95	3.2[3.1]
PARCEL I9-9-23			
SLB-5 Bottom Bank	0 - 0.5	5/24/94	0.07
	0.5 - 1	5/24/94	0.11
SLB-5 Middle Bank	0 - 0.5	5/24/94	0.13
	0.5 - 1	5/24/94	0.13
SLB-5 Top Bank	0 - 0.5	5/24/94	0.05
	0.5 - 1	5/24/94	0.07
PARCEL I9-9-24			
I9-9-24-SS-1	0 - 0.5	9/24/97	ND(0.116)
	0.5 - 1	9/24/97	ND(0.116)
I9-9-24-SS-2	0 - 0.5	9/24/97	1.81
	0.5 - 1	9/24/97	1.36
I9-9-24-SS-3	0 - 0.5	9/24/97	1.65
	0.5 - 1	9/24/97	1.13
PARCEL I9-9-25			
I9-9-25-SB-1	0 - 0.5	11/22/00	0.29
	0.5 - 1	11/22/00	0.3
	1 - 2	11/22/00	0.196
	2 - 4	11/22/00	0.85
	4 - 6	11/22/00	1.74
	6 - 8	11/22/00	4.6 [4.6]

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-25			
I9-9-25-SB-2	0 - 0.5	11/22/00	0.44
	0.5 - 1	11/22/00	0.225
	1 - 2	11/22/00	0.62
	2 - 4	11/22/00	1.49
	4 - 6	11/22/00	0.62
	6 - 8	11/22/00	ND(0.048)
	8 - 10	11/22/00	0.040 J
	10 - 12	11/22/00	ND(0.060)
I9-9-25-SB-3	0 - 0.5	11/22/00	0.74
	0.5 - 1	11/22/00	0.103
	1 - 2	11/22/00	0.188
	2 - 4	11/22/00	1.2
	4 - 6	11/22/00	ND(0.048)
	6 - 8	11/22/00	ND(0.044)
PARCEL I9-9-26			
I9-9-26-SS-1	0-0.5	5/19/98	0.29
	0.5-1	5/19/98	0.27
	4-6	11/27/00	ND(0.044)
	12-14	11/27/00	ND(0.050)
I9-9-26-SS-2	0-0.5	5/19/98	0.096 [0.24]
	0.5-1	5/19/98	0.22
I9-9-26-SS-3	0-0.5	5/19/98	0.28
	0.5-1	5/19/98	0.40
	2-4	11/27/00	0.17
	10-12	11/27/00	ND(0.041) [ND(0.042)]
I9-9-26-SS-4	0-0.5	5/19/98	0.23
	0.5-1	5/19/98	0.25
	1-2	11/28/00	1.4
I9-9-26-SS-5	0-0.5	10/5/98	0.34
	0.5-1	10/5/98	0.23
I9-9-26-SS-6	0-0.5	10/5/98	0.80
	0.5-1	10/5/98	0.38

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-26			
I9-9-26-SB-1	0-0.5	5/27/98	2.0
	0.5-1	5/27/98	2.9
	1-2	5/27/98	4.8
	2-4	5/27/98	85 [97]
	4-6	5/27/98	6.3
	6-8	5/27/98	0.86
	8-10	5/27/98	0.77
	10-12	5/27/98	ND(0.037)
I9-9-26-SB-2	0-0.5	5/27/98	0.20
	0.5-1	5/27/98	0.15
	1-2	5/27/98	ND(0.021)
	2-4	5/27/98	ND(0.022)
	4-6	5/27/98	0.084
I9-9-26-SB-3	0-0.5	8/19/98	16
	0.5-1	8/19/98	0.33
	1-2	8/19/98	73
	2-4	8/19/98	3.3
	4-6	8/19/98	0.097
	6-8	8/19/98	0.12
I9-9-26-SB-4	0-0.5	8/19/98	0.31
	0.5-1	8/19/98	6.6
	1-2	8/19/98	0.064
	2-4	8/19/98	ND(0.046) [ND(0.045)]
	4-6	8/19/98	ND(0.041)
	6-8	8/19/98	ND(0.041)
PARCEL I9-9-27			
I9-9-27-SS-1	0-0.5	2/5/98	1.9 [1.8]
	0.5-1	2/5/98	0.39
I9-9-27-SS-2	0-0.5	2/5/98	2.0
	0.5-1	2/5/98	2.2
I9-9-27-SS-3	0-0.5	3/31/98	3.0
	0.5-1	3/31/98	1.5
I9-9-27-SS-4	0-0.5	3/31/98	1.2
	0.5-1	3/31/98	1.8
	8-10	11/28/00	ND(0.044)
	14-16	11/28/00	ND(0.045) [ND(0.046)]
I9-9-27-SS-5	0-0.5	3/31/98	0.45
	0.5-1	3/31/98	8.2

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-27			
I9-9-27-SS-6	0-0.5	3/31/98	86
	0.5-1	3/31/98	31
I9-9-27-SS-7	0-0.5	3/31/98	170
	0.5-1	3/31/98	230
I9-9-27-SS-14	0-0.5	5/1/98	1.3
	0.5-1	5/1/98	1.2
I9-9-27-SS-15	0-0.5	5/1/98	0.72
	0.5-1	5/1/98	ND(0.038)
I9-9-27-SS-16	0-0.5	5/1/98	0.84
	0.5-1	5/1/98	0.41
	6-8	11/28/00	ND(0.041)
I9-9-27-SB-1	0-0.5	2/5/98	3.3
	0.5-1	2/5/98	3.5
	1-2	2/5/98	13
	2-4	2/5/98	9.0
	4-6	2/5/98	47
	6-8	2/5/98	3.2
I9-9-27-SB-2	0-0.5	3/31/98	6.6
	0.5-1	3/31/98	1.7
	1-2	3/31/98	0.89
	2-4	3/31/98	20
	4-6	3/31/98	71
	6-8	3/31/98	41
	8-10	3/31/98	140
	10-12	3/31/98	1.6
I9-9-27-SB-3	0-0.5	4/1/98	1.7
	0.5-1	4/1/98	1.5
	1-2	4/1/98	0.24
	2-4	4/1/98	0.080
	4-6	4/1/98	ND(0.021)
	6-8	4/1/98	0.031
I9-9-27-SB-4	1-2	4/1/98	2.2
	2-4	4/1/98	0.54
	4-6	4/1/98	ND(0.023) [0.42]
	6-8	4/1/98	ND(0.021)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-27			
I9-9-27-SB-5	0-0.5	4/1/98	6.7
	0.5-1	4/1/98	3.2
	1-2	4/1/98	3.4
	2-4	4/1/98	1.4
	4-6	4/1/98	ND(0.021) [0.061]
	6-8	4/1/98	1.1
	8-10	4/1/98	0.021
I9-9-27-SB-6	1-2	5/1/98	25
	2-4	5/1/98	0.37 [0.44]
	4-6	5/1/98	ND(0.037)
	6-8	5/1/98	ND(0.035)
	8-10	5/1/98	ND(0.038)
I9-9-27-SB-7	8-10	6/25/99	ND(0.054) [ND(0.048)]
I9-9-27-SB-8	0-1	9/21/99	0.22
	2-4	9/21/99	ND(0.020)
I9-9-27-SB-9	4-6	11/22/00	ND(0.043) [ND(0.042)]
I9-9-27-SB-10	8-10	11/28/00	ND(0.048)
I9-9-27-SB-11	2-4	11/22/00	0.72
PARCEL I9-9-28			
I9-9-28-SS-1	0-0.5	11/26/97	0.34
	0.5-1	11/26/97	0.78
I9-9-28-SS-2	0-0.5	11/26/97	0.58
	0.5-1	11/26/97	0.45
I9-9-28-SS-3	0-0.5	11/26/97	1.9
	0.5-1	11/26/97	1.6
I9-9-28-SS-4	0-0.5	11/26/97	0.70
	0.5-1	11/26/97	1.2
I9-9-28-SS-5	0-0.5	11/26/97	0.071 [0.18]
	0.5-1	11/26/97	0.16
	4-6	12/4/00	ND(0.042) [ND(0.041)]
I9-9-28-SS-6	0-0.5	11/26/97	0.51
	0.5-1	11/26/97	0.43
	2-4	12/4/00	0.027
I9-9-28-SS-7	0-0.5	11/26/97	0.88
	0.5-1	11/26/97	0.66
I9-9-28-SS-8	0-0.5	2/5/98	1.5
	0.5-1	2/5/98	4.5
I9-9-28-SS-9	0-0.5	3/31/98	13000
	0.5-1	3/31/98	6300

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-28			
I9-9-28-SS-10	0-0.5	3/31/98	0.24
	0.5-1	3/31/98	0.24
I9-9-28-SS-11	0-0.5	4/10/98	0.73
	0.5-1	4/10/98	0.14
	10-12	12/4/00	ND(0.050)
I9-9-28-SS-12	0-0.5	4/10/98	3.0
	0.5-1	4/10/98	0.74
I9-9-28-SS-13	0-0.5	4/10/98	0.74
I9-9-28-SB-1	0-0.5	12/1/97	0.25
	0.5-1	12/1/97	0.52
	1-2	12/1/97	0.25
	2-4	12/1/97	0.094
	4-6	12/1/97	5.6
	6-8	12/1/97	55
	8-10	6/24/99	68
	10-12	6/24/99	0.77
I9-9-28-SB-2	0-0.5	12/1/97	2.1
	0.5-1	12/1/97	2.4
	1-2	12/1/97	0.40
	2-4	12/1/97	0.23
	4-6	12/1/97	0.066
	6-8	12/1/97	0.083 [0.20]
	8-10	12/1/97	ND(0.11)
	10-12	12/1/97	ND(0.12)
	12-14	12/1/97	ND(0.16)
	14-16	12/1/97	ND(0.12)
I9-9-28-SB-3	0-0.5	12/1/97	2.0
	0.5-1	12/1/97	0.18
	1-2	12/1/97	ND(0.072)
	2-4	12/1/97	ND(0.076)
	4-6	12/1/97	ND(0.084) [ND(0.084)]
	6-8	12/1/97	ND(0.077)
	8-10	12/1/97	ND(0.080)
I9-9-28-SB-4	1-2	2/5/98	0.98
	2-4	2/5/98	1.6
	4-6	2/5/98	0.17
	6-8	2/5/98	0.11

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-28			
I9-9-28-SB-5	1-2	2/5/98	0.17
	2-4	2/5/98	0.41 [0.54]
	4-6	2/5/98	2.3
	6-8	2/5/98	19
	8-10	2/5/98	1.9
	10-12	2/5/98	ND(0.15)
	12-14	2/5/98	0.57
	14-16	2/5/98	ND(0.067)
I9-9-28-SB-6	1-2	3/31/98	8.9
	2-4	3/31/98	ND(0.021)
	4-6	3/31/98	ND(0.020)
	6-8	3/31/98	ND(0.020)
I9-9-28-SB-7	1-2	5/1/98	0.41
	2-4	5/1/98	ND(0.037) [ND(0.038)]
	4-6	5/1/98	ND(0.038)
	6-8	5/1/98	ND(0.036)
	8-10	5/1/98	ND(0.042)
I9-9-28-SB-8	12-14	11/28/00	ND(0.070)
	0.5-1	4/10/98	0.35 [0.43]
PARCEL I9-9-29			
I9-9-29-SS-1	0-0.5	3/4/98	2.5
	0.5-1	3/4/98	2.9
I9-9-29-SS-2	0-0.5	3/4/98	3.0
	0.5-1	3/4/98	2.7 [0.99]
I9-9-29-SS-3	0-0.5	3/4/98	1.5
	0.5-1	3/4/98	0.72
I9-9-29-SS-4	0-0.5	3/4/98	0.32
	0.5-1	3/4/98	0.19
	2-4	12/5/00	0.44 [0.38]
	12-14	12/5/00	ND(0.047)
I9-9-29-SS-5	0-0.5	3/4/98	4.2
	0.5-1	3/4/98	5.7
I9-9-29-SS-6	0-0.5	3/4/98	4.1
	0.5-1	3/4/98	2.9
I9-9-29-SS-7	0-0.5	3/4/98	0.80 [0.49]
	0.5-1	3/4/98	0.12
	2-4	12/5/00	0.15
	6-8	12/5/00	ND(0.041)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-29			
I9-9-29-SS-8	0-0.5	3/4/98	0.89
	0.5-1	3/4/98	0.28
I9-9-29-SS-9	0-0.5	4/14/98	1.2
	0.5-1	4/14/98	0.69
I9-9-29-SS-10	0-0.5	4/14/98	1.3
	0.5-1	4/14/98	1.0
	8-10	12/5/00	ND(0.045)
I9-9-29-SB-1	0-0.5	3/4/98	1.4
	0.5-1	3/4/98	0.30
	1-2	3/4/98	0.18
	2-4	3/4/98	0.11
	4-6	3/4/98	0.41
	6-8	3/4/98	0.14
	8-10	3/4/98	ND(0.12)
	10-12	3/4/98	ND(0.11)
	12-14	3/4/98	ND(0.094)
	14-16	3/4/98	ND(0.11)
I9-9-29-SB-2	0-0.5	3/4/98	0.63
	0.5-1	3/4/98	1.1
	1-2	3/4/98	0.17
	2-4	3/4/98	0.090
	4-6	3/4/98	0.039
	6-8	3/4/98	ND(0.078)
	8-10	3/4/98	ND(0.092)
	10-12	3/4/98	ND(0.092)
I9-9-29-SB-3	1-2	4/15/98	2.6
	2-4	4/15/98	0.15
	4-6	4/15/98	1.3
	6-8	4/15/98	0.29
	8-10	4/15/98	0.13
	10-12	4/15/98	0.23
	12-14	4/15/98	ND(0.031)
	14-16	4/15/98	ND(0.031)
I9-9-29-SB-4	1-2	4/14/98	3.7
	2-4	4/14/98	2.8
	4-6	4/14/98	0.14
	6-8	4/14/98	ND(0.033) [4.8]
	8-10	4/14/98	ND(0.024)
	10-12	4/14/98	ND(0.024)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-9-29			
I9-9-29-SB-5	1-2	4/15/98	2.0
	2-4	4/15/98	0.097
	4-6	4/15/98	1.6
	6-8	4/15/98	0.46
	8-10	4/15/98	0.042
	10-12	4/15/98	ND(0.025)
	12-14	4/15/98	ND(0.028) [ND(0.027)]
	14-16	4/15/98	ND(0.029)
I9-9-29-SB-6	1-2	4/15/98	1.9
	2-4	4/15/98	2.1
	4-6	4/15/98	5.1
	6-8	4/15/98	0.081
	8-10	4/15/98	ND(0.026)
	10-12	4/15/98	ND(0.019)
	12-14	4/15/98	ND(0.028)
I9-9-29-SB-7	4-6	12/5/00	0.18
I9-9-29-SB-8	6-8	12/5/00	0.21
PARCEL I9-9-30			
I9-9-30-SS-1	0 - 0.5	12/5/00	0.125
	0.5 - 1	12/5/00	0.201
I9-9-30-SB-1	0 - 0.5	12/5/00	1.91
	0.5 - 1	12/5/00	1.08
	1 - 2	12/5/00	1.29
	2 - 4	12/5/00	ND(0.045)
	4 - 6	12/5/00	9.8 [ND(0.044)]
	6 - 8	12/5/00	ND(0.066)
I9-9-30-SB-2	0 - 0.5	12/5/00	0.145
	0.5 - 1	12/5/00	0.42
	1 - 2	12/5/00	1.11
	2 - 4	12/5/00	4.1
	4 - 6	12/5/00	0.29
	6 - 8	12/5/00	ND(0.051)
I9-9-30-SB-3	0 - 0.5	12/5/00	ND(0.048)
	0.5 - 1	12/5/00	0.027 J
	1 - 2	12/5/00	0.079
	2 - 4	12/5/00	0.96
	4 - 6	12/5/00	0.066 J
	6 - 8	12/5/00	ND(0.045)

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-8			
SLB-1 Bottom Bank	0 - 0.5	1/19/95	52
	0.5 - 1	1/19/95	210
	1 - 1.5	10/11/95	180
	1.5 - 2	10/11/95	72
	2 - 2.5	10/11/95	4.7
	2.5 - 3	10/11/95	45
SLB-1 Middle Bank	0 - 0.5	1/19/95	9.0
	0.5 - 1	1/19/95	47
SLB-1 Top Bank	0 - 0.5	1/19/95	5.5 [4.2]
	0.5 - 1	1/19/95	3.0
SLB-1 Top Bank-10	0 - 0.5	10/11/95	0.48
SLB-1 Top Bank-50	0 - 0.5	10/11/95	0.26
R83A150	0 - 0.5	10/13/98	1.3
	0.5 - 1	10/13/98	3.2J
	0 - 2	10/30/98	0.5J
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(0.6)
	6 - 8	10/30/98	ND(0.5)
R83A175	0 - 0.5	10/13/98	0.7
	0.5 - 1	10/13/98	0.3J
R83A200	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	0.4J[0.41]
R83A225	0 - 0.5	10/13/98	ND(0.7)
	0.5 - 1	10/13/98	0.3J
	0 - 2	10/30/98	0.2J
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(0.5)
	6 - 8	10/30/98	ND(0.6)
R83A250	0 - 0.5	10/13/98	0.6J
	0.5 - 1	10/13/98	0.5J
R83A275	0 - 0.5	10/13/98	0.4J
	0.5 - 1	10/13/98	0.5J
R83A300	0 - 0.5	10/13/98	ND(0.6)
	0.5 - 1	10/13/98	0.3J
R83A325	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.7J
R83A350	0 - 0.5	10/13/98	0.9J
	0.5 - 1	10/13/98	1.2J
R83A375	0 - 0.5	10/13/98	ND(1.7)
	0.5 - 1	10/13/98	0.4J

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-8			
R83A400	0 - 0.5	10/13/98	2.7
	0.5 - 1	10/13/98	4.2
R83A425	0 - 0.5	10/13/98	1.7J
	0.5 - 1	10/13/98	2.8
	0 - 2	10/30/98	2.3
	2 - 4	10/30/98	0.6J[1.2]
R83A425	4 - 6	10/30/98	ND(0.8)
	6 - 8	10/30/98	ND(0.7)
R83A450	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.5J
	0 - 2	10/30/98	1.1J
	2 - 4	10/30/98	7.1
	4 - 6	10/30/98	2.7
	6 - 8	10/30/98	0.8J
R83A475	0 - 0.5	10/13/98	0.7
	0.5 - 1	10/13/98	1.0
R83B150	0 - 0.5	10/13/98	0.9
	0.5 - 1	10/13/98	1.4
R83B175	0 - 0.5	10/13/98	ND(0.6)
	0.5 - 1	10/13/98	0.9
R83B200	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.4J[0.22]
R83B225	0 - 0.5	10/13/98	0.2J[0.33]
	0.5 - 1	10/13/98	ND(0.6)
R83B250	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.3J
R83B275	0 - 0.5	10/13/98	0.3J
	0.5 - 1	10/13/98	0.5J
R83B300	0 - 0.5	10/13/98	0.6J
	0.5 - 1	10/13/98	0.7J
R83B325	0 - 0.5	10/13/98	ND(0.5)
	0.5 - 1	10/13/98	0.7J
R83B350	0 - 0.5	10/13/98	1.4
	0.5 - 1	10/13/98	2.6
	0 - 2	10/29/98	1.2J
	2 - 4	10/29/98	ND(0.8)
	4 - 6	10/29/98	ND(0.8)
	6 - 8	10/29/98	36J[ND(0.17)]
R83B375	0 - 0.5	10/13/98	0.7J
	0.5 - 1	10/13/98	2.9J

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-8			
R83B400	0 - 0.5	10/13/98	31J
	0.5 - 1	10/13/98	130
	0 - 2	10/29/98	45
	2 - 4	10/29/98	7.4J
	4 - 6	10/29/98	1.9J
	6 - 8	10/29/98	2.0
R83B425	0 - 0.5	10/13/98	5.1J[12]
	0.5 - 1	10/14/98	98
	0 - 2	10/29/98	110
	2 - 4	10/29/98	48[130]
	4 - 6	10/29/98	63
	6 - 8	10/29/98	22
R83B450	0 - 0.5	10/14/98	4.2J
	0.5 - 1	10/14/98	0.6J
R83B475	0 - 0.5	10/14/98	0.5J
	0.5 - 1	10/14/98	ND(0.7)
	0 - 2	10/29/98	13
	2 - 4	10/29/98	250
	4 - 6	10/29/98	350
	6 - 8	10/29/98	50
R83C150	0 - 0.5	10/14/98	ND(0.6)
	0.5 - 1	10/14/98	0.2J
R83C175	0 - 0.5	10/14/98	0.3J
	0.5 - 1	10/14/98	ND(0.6)
	0 - 2	10/30/98	ND(0.6)
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(0.6)[ND(0.12)]
	6 - 8	10/30/98	ND(0.5)
R83C200	0 - 0.5	10/14/98	ND(0.6)
	0.5 - 1	10/14/98	ND(0.6)
R83C225	0 - 0.5	10/14/98	ND(0.6)
	0.5 - 1	10/14/98	ND(0.5)
R83C250	0 - 0.5	10/14/98	0.2J
	0.5 - 1	10/14/98	ND(0.6)
R83C275	0 - 0.5	10/14/98	0.3J
	0.5 - 1	10/14/98	0.3J
	0 - 2	10/30/98	ND(0.6)
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(1.0)
	6 - 8	10/30/98	ND(1.1)[ND(0.21)]

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-8			
R83C300	0 - 0.5	10/14/98	0.7J
	0.5 - 1	10/14/98	0.9J[0.73]
R83C325	0 - 0.5	10/14/98	1.9J
	0.5 - 1	10/14/98	1.6J
R83C328	0 - 0.5	10/14/98	2.8J
	0.5 - 1	10/14/98	2.3J[1.6]
R83C332	0 - 0.5	10/14/98	22J
	0.5 - 1	10/14/98	3.2J
	0 - 2	10/30/98	8.4J
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(0.5)
	6 - 8	10/30/98	ND(0.5)
R83D150	0 - 0.5	10/14/98	0.8J
	0.5 - 1	10/13/98	0.8J[0.74]
R83D175	0 - 0.5	10/14/98	0.7J
	0.5 - 1	10/14/98	0.8J
R83D200	0 - 0.5	10/14/98	0.7J
	0.5 - 1	10/13/98	1.2J
R83D225	0 - 0.5	10/13/98	2.4
	0.5 - 1	10/13/98	2.8
	0 - 2	10/30/98	1.9J
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(11)
	6 - 8	10/30/98	ND(0.9)
R83D250	0 - 0.5	10/14/98	0.8J[0.23]
	0.5 - 1	10/14/98	0.5J
R83D275	0 - 0.5	10/14/98	1.2J
	0.5 - 1	10/14/98	1.6J
R83D281	0 - 0.5	10/14/98	1.2
	0.5 - 1	10/14/98	2.4
R83D295	0 - 0.5	10/14/98	190[290]
	0.5 - 1	10/14/98	1400
	0 - 2	10/30/98	5.6
	2 - 4	10/30/98	12
	4 - 6	10/30/98	3.5
	6 - 8	10/30/98	2.9[5.7]

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-8			
R83E150	0 - 0.5	10/14/98	4.1
	0.5 - 1	10/14/98	4.6
	0 - 2	10/30/98	3.7
	2 - 4	10/30/98	ND(0.6)
	4 - 6	10/30/98	ND(0.5)
	6 - 8	10/30/98	ND(0.6)
R83E175	0 - 0.5	10/14/98	2.4[1.3]
	0.5 - 1	10/14/98	2.9
R83E200	0 - 0.5	10/14/98	1.8
	0.5 - 1	10/14/98	1.9
	0 - 2	10/30/98	0.4J
	2 - 4	10/30/98	ND(0.7)
	4 - 6	10/30/98	ND(0.5)
	6 - 8	10/30/98	ND(0.8)
R83E225	0 - 0.5	10/14/98	2.0
	0.5 - 1	10/13/98	1.7[1.5]
	0 - 2	10/30/98	1.5J[2.3]
	2 - 4	10/30/98	ND(0.7)
	4 - 6	10/30/98	ND(0.6)
	6 - 8	10/30/98	ND(1.0)
R83E250	0 - 0.5	10/14/98	6.3J
	0.5 - 1	10/14/98	9.9J
R83E254	0 - 0.5	10/14/98	5.3J
	0.5 - 1	10/14/98	7.3J[9.3]
R83E264	0 - 0.5	10/14/98	160
	0.5 - 1	10/14/98	88
	0 - 2	10/29/98	110
	2 - 4	10/29/98	22
	4 - 6	10/29/98	22
	6 - 8	10/29/98	ND(25)
R83W475	0 - 0.5	10/14/98	1.7J
	0.5 - 1	10/14/98	18
PARCEL I9-10-10			
R44D120	0 - 0.5	10/12/98	0.7J
	0.5 - 1	10/12/98	0.6J[0.41]

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
PARCEL I9-10-11			
R43A120	0 - 0.5	9/21/98	0.4J
	0.5 - 1	9/21/98	0.8J[0.54]
	0 - 2	10/27/98	0.2J
	2 - 4	10/27/98	ND(0.5)
	4 - 6	10/27/98	ND(0.5)
	6 - 8	10/27/98	ND(0.5)
R43B120	0 - 0.5	9/21/98	0.3J
	0.5 - 1	9/21/98	0.6J
R43C120	0 - 0.5	9/21/98	0.5J[0.14]
	0.5 - 1	9/21/98	0.3J
	0 - 2	10/27/98	0.2J
	2 - 4	10/27/98	ND(0.5)
	4 - 6	10/27/98	ND(0.5)
	6 - 8	10/27/98	ND(0.5)
CITY-OWNED RECREATIONAL AREA			
SLB-2 Bottom Bank	0 - 0.5	5/24/94	0.42
	0.5 - 1	5/24/94	0.96
SLB-2 Middle Bank	0 - 0.5	5/24/94	0.09
	0.5 - 1	5/24/94	0.15
SLB-2 Top Bank	0 - 0.5	5/24/94	0.64
	0.5 - 1	5/24/94	1.28
SLB-3 Bottom Bank	0 - 0.5	5/24/94	250
	0.5 - 1	5/24/94	52
	1 - 1.5	10/11/95	57
	1.5 - 2	10/11/95	81
	2 - 2.5	10/11/95	23
	2.5 - 3	10/11/95	100
SLB-3 Middle Bank	0 - 0.5	5/24/94	13.0[17.1]
	0.5 - 1	5/24/94	6.72
SLB-3 Top Bank	0 - 0.5	5/24/94	0.18
	0.5 - 1	5/24/94	0.53
SLB-4 Bottom Bank	0 - 0.5	5/24/94	75
	0.5 - 1	5/24/94	20
	1 - 1.5	10/11/95	1.2
	1.5 - 2	10/11/95	1.3
	2 - 2.5	10/11/95	0.26
	2.5 - 3	10/11/95	0.13
SLB-4 Middle Bank	0 - 0.5	5/24/94	7.6
	0.5 - 1	5/24/94	13.4

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	PCB, TOTAL (MG/KG)
CITY-OWNED RECREATIONAL AREA			
SLB-4 Top Bank	0 - 0.5	5/24/94	0.21
	0.5 - 1	5/24/94	0.10
SLB-6 Bottom Bank	0 - 0.5	5/24/94	0.19[0.2]
	0.5 - 1	5/24/94	0.76
SLB-6 Middle Bank	0 - 0.5	5/24/94	1.17
	0.5 - 1	5/24/94	2.79
SLB-6 Top Bank	0 - 0.5	5/24/94	0.07
	0.5 - 1	5/24/94	1.56
SLB-9 Top Bank	0 - 0.5	10/11/95	9.7
SLB-9 Top Bank-12	0 - 0.5	10/11/95	0.92

TABLE 2-4

SUMMARY OF EXISTING SOIL PCB DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry-weight parts per million, ppm)

Notes:
1. ND(0.05) - Not detected. The value in parentheses represents the associated quantitation limit.
2. J - Indicates estimated value less than the CLP-required quantitation limit.
3. [ ] - Indicates duplicate sample results.

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SB-3 0-1 06/24/99	I9-9-26-SB-3 1-2 11/27/00	I9-9-26-SB-3 2-4 11/27/00	I9-9-26-SB-3 6-8 11/27/00	I9-9-26-SB-4 0-1 06/24/99	I9-9-26-SB-4 2-4 09/21/99
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,1,1-Trichloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,1,2,2-Tetrachloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,1,2-Trichloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,1-Dichloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,1-Dichloroethene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,2,3-Trichloropropane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,2-Dibromo-3-chloropropane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,2-Dibromoethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,2-Dichloroethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,2-Dichloropropane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
1,4-Dioxane		ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	NS
2-Butanone		ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	NS
2-Chloro-1,3-butadiene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
2-Chloroethylvinylether		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
2-Hexanone		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
3-Chloropropene		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
4-Methyl-2-pentanone		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Acetone		ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	NS
Acetonitrile		ND(0.10)	ND(0.18)	ND(0.14)	ND(0.13)	ND(0.10)	NS
Acrolein		ND(0.10)	ND(0.18)	ND(0.14)	ND(0.13)	ND(0.10)	NS
Acrylonitrile		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Benzene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Bromodichloromethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Bromoform		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Bromomethane		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Carbon Disulfide		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	NS
Carbon Tetrachloride		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Chlorobenzene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Chloroethane		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Chloroform		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Chloromethane		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
cis-1,3-Dichloropropene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Dibromochloromethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Dibromomethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Dichlorodifluoromethane		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Ethyl Methacrylate		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Ethylbenzene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Iodomethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Isobutanol		ND(0.20)	ND(0.37)	ND(0.28)	ND(0.26)	ND(0.20)	NS
Methacrylonitrile		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Methyl Methacrylate		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Methylene Chloride		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Propionitrile		ND(0.060)	ND(0.092)	ND(0.069)	ND(0.065)	ND(0.060)	NS
Styrene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Tetrachloroethene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Toluene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
trans-1,2-Dichloroethene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
trans-1,3-Dichloropropene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
trans-1,4-Dichloro-2-butene		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Trichloroethene		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Trichlorofluoromethane		ND(0.0060)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.0060)	NS
Vinyl Acetate		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Vinyl Chloride		ND(0.010)	ND(0.018)	ND(0.014)	ND(0.013)	ND(0.010)	NS
Xylenes (total)		ND(0.010)	ND(0.0092)	ND(0.0069)	ND(0.0065)	ND(0.010)	NS
Semivolatile Organics							
1,2,4,5-Tetrachlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
1,2,4-Trichlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
1,2-Dichlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
1,2-Diphenylhydrazine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
1,3,5-Trinitrobenzene		ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
1,3-Dichlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
1,3-Dinitrobenzene		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
1,4-Dichlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
1,4-Naphthoquinone		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
1-Naphthylamine		ND(2.0)	ND(4.0)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
2,3,4,6-Tetrachlorophenol		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-26-SB-3 0-1 06/24/99	I9-9-26-SB-3 1-2 11/27/00	I9-9-26-SB-3 2-4 11/27/00	I9-9-26-SB-3 6-8 11/27/00	I9-9-26-SB-4 0-1 06/24/99	I9-9-26-SB-4 2-4 09/21/99
Semivolatile Organics (continued)						
2,4,5-Trichlorophenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2,4,6-Trichlorophenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2,4-Dichlorophenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2,4-Dimethylphenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2,4-Dinitrophenol	ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(4.5)
2,4-Dinitrotoluene	ND(2.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(0.49)
2,6-Dichlorophenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2,6-Dinitrotoluene	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
2-Acetylaminofluorene	ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
2-Chloronaphthalene	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
2-Chlorophenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
2-Methylnaphthalene	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.99)
2-Methylphenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
2-Naphthylamine	ND(2.0)	ND(4.0)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
2-Nitroaniline	ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.9)
2-Nitrophenol	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
2-Picoline	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
3&4-Methylphenol	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
3,3'-Dichlorobenzidine	ND(2.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(0.49)
3,3'-Dimethylbenzidine	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(0.49)
3-Methylcholanthrene	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
3-Nitroaniline	ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.9)
4,6-Dinitro-2-methylphenol	ND(3.0)	ND(2.0)	ND(0.46)	ND(0.43)	ND(2.0)	ND(4.9)
4-Aminobiphenyl	ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
4-Bromophenyl-phenylether	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
4-Chloro-3-Methylphenol	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
4-Chloroaniline	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(0.49)
4-Chlorobenzilate	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
4-Chlorophenyl-phenylether	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
4-Nitroaniline	ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(4.9)
4-Nitrophenol	ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(4.9)
4-Nitroquinoline-1-oxide	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
4-Phenylenediamine	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
5-Nitro-o-toluidine	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
7,12-Dimethylbenz(a)anthracene	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
a,a'-Dimethylphenethylamine	ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
Acenaphthene	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Acenaphthylene	ND(0.60)	1.0 J	ND(0.46)	ND(0.43)	2.0	ND(0.49)
Acetophenone	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Aniline	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Anthracene	ND(0.60)	2.9	ND(0.46)	ND(0.43)	1.0	ND(0.49)
Aramite	ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
Benzidine	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(0.49)
Benzo(a)anthracene	ND(0.60)	11	1.2	0.44	4.0	0.22 J
Benzo(a)pyrene	ND(0.60)	8.8	2.1	0.67	4.0	0.27 J
Benzo(b)fluoranthene	ND(0.60)	5.4	1.2	0.49	5.0	0.18 J
Benzo(g,h,i)perylene	ND(0.60)	6.5	2.3	0.85	2.0	0.14 J
Benzo(k)fluoranthene	ND(0.60)	7.4	1.5	0.41 J	2.0	0.16 J
Benzoic Acid	NS	NS	NS	NS	NS	NS
Benzyl Alcohol	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.9)
bis(2-Chloroethoxy)methane	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
bis(2-Chloroethyl)ether	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
bis(2-Chloroisopropyl)ether	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
bis(2-Ethylhexyl)phthalate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Butylbenzylphthalate	1.0	ND(2.0)	ND(0.93)	ND(0.87)	1.0	ND(0.49)
Chrysene	ND(0.60)	9.6	1.3	0.41 J	4.0	0.28 J
Diallate	ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
Dibenzo(a,h)anthracene	ND(0.70)	5.1	ND(0.93)	0.56 J	0.60 !	ND(0.49)
Dibenzofuran	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Diethylphthalate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Dimethylphthalate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Di-n-Butylphthalate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Di-n-Octylphthalate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Dinoseb	NS	NS	NS	NS	NS	NS
Diphenylamine	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Ethyl Methacrylate	NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate	ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SB-3 0-1 06/24/99	I9-9-26-SB-3 1-2 11/27/00	I9-9-26-SB-3 2-4 11/27/00	I9-9-26-SB-3 6-8 11/27/00	I9-9-26-SB-4 0-1 06/24/99	I9-9-26-SB-4 2-4 09/21/99
Semivolatile Organics (continued)							
Fluoranthene		0.60	20	1.0	0.71	7.0	0.30 J
Fluorene		ND(0.60)	1.1 J	ND(0.46)	ND(0.43)	0.40	ND(0.49)
Hexachlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Hexachlorobutadiene		ND(3.0)	ND(2.0)	ND(0.93)	ND(0.87)	ND(2.0)	ND(0.49)
Hexachlorocyclopentadiene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Hexachloroethane		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Hexachlorophene		ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
Hexachloropropene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Indeno(1,2,3-cd)pyrene		ND(0.70)	12	3.4	1.2	3.0	0.11 J
Isodrin		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Isophorone		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Isosafrole		ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
Methapyrilene		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
Methyl Methanesulfonate		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Naphthalene		ND(0.60)	5.9	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
Nitrobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
N-Nitrosodiethylamine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
N-Nitrosodimethylamine		ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(0.49)
N-Nitroso-di-n-butylamine		ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
N-Nitroso-di-n-propylamine		ND(3.0)	ND(2.0)	ND(0.93)	ND(0.87)	ND(2.0)	ND(0.49)
N-Nitrosodiphenylamine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(0.49)
N-Nitrosomethylethylamine		ND(0.70)	ND(4.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
N-Nitrosomorpholine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
N-Nitrosopiperidine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
N-Nitrosopyrrolidine		ND(0.70)	ND(2.0)	ND(0.93)	ND(0.87)	ND(0.70)	ND(1.0)
o,o,o-Triethylphosphorothioate		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
o-Toluidine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
p-Dimethylaminoazobenzene		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
Pentachlorobenzene		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Pentachloroethane		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Pentachloronitrobenzene		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
Pentachlorophenol		ND(3.0)	ND(3.1)	ND(2.4)	ND(2.2)	ND(2.0)	ND(4.9)
Phenacetin		ND(2.0)	ND(10)	ND(2.4)	ND(2.2)	ND(2.0)	ND(1.0)
Phenanthrene		ND(0.60)	7.1	0.53	0.43	5.0	0.18 J
Phenol		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Pronamide		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Pyrene		0.60	18	0.95	0.70	6.0	0.49
Pyridine		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Safrole		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Sulfotep		NS	NS	NS	NS	NS	NS
Thionazin		ND(0.60)	ND(2.0)	ND(0.46)	ND(0.43)	ND(0.40)	ND(1.0)
Furans							
2,3,7,8-TCDF		0.00014	ND(0.000012)	0.00010	ND(0.00000079) X	0.000041	0.0000033
TCDFs (total)		0.00046	0.00067	0.00050	0.0000023	0.00018	0.000012
1,2,3,7,8-PeCDF		0.000047	0.000065 I	0.00011 I	ND(0.00000051)	0.000013	ND(0.00000070)
2,3,4,7,8-PeCDF		0.000054	ND(0.000050) X	ND(0.0000031)	ND(0.00000050)	0.000014	ND(0.00000065)
PeCDFs (total)		0.00040	0.00085	0.00027	0.0000057	0.00013	0.0000040 J
1,2,3,4,7,8-HxCDF		0.00010	0.0016 I	0.00082 I	ND(0.0000023) X	0.000021	0.0000021 J
1,2,3,6,7,8-HxCDF		0.000044	0.000067	ND(0.0000069)	ND(0.00000075)	0.000011	ND(0.0000011)
1,2,3,7,8,9-HxCDF		0.000012	ND(0.000034)	0.000023	ND(0.00000096)	0.00000056 J	ND(0.0000011)
2,3,4,6,7,8-HxCDF		0.000049	0.000097	0.000058	ND(0.00000075)	0.0000093	ND(0.0000012)
HxCDFs (total)		0.0017	0.0016	0.00047	0.0000012	0.00012	0.0000031 J
1,2,3,4,6,7,8-HpCDF		0.00070 D	0.0011	0.00010	ND(0.0000014) X	0.000044	0.0000039 J
1,2,3,4,7,8,9-HpCDF		0.00012	0.00011	0.00011	ND(0.0000011)	0.0000058	ND(0.0000024)
HpCDFs (total)		0.0098	0.0012	0.00021	ND(0.00000077)	0.00012	0.0000039 J
OCDF		0.0061 D	0.0072	0.000096	ND(0.00000096) X	0.000071	0.0000037 J
Dioxins							
2,3,7,8-TCDD		0.0000037	ND(0.0000023)	ND(0.0000020)	ND(0.00000056)	0.0000018	ND(0.00000074)
TCDDs (total)		0.000019	ND(0.0000023)	ND(0.0000020)	ND(0.00000056)	0.0000037	ND(0.00000074)
1,2,3,7,8-PeCDD		0.0000052	ND(0.000074)	ND(0.000055)	ND(0.0000046)	0.0000038	ND(0.0000014)
PeCDDs (total)		0.000013	ND(0.000074)	ND(0.000055)	ND(0.0000046)	0.0000038	ND(0.0000014)
1,2,3,4,7,8-HxCDD		0.000016	ND(0.000029)	ND(0.000013)	ND(0.0000016)	0.0000023 J	ND(0.00000063)
1,2,3,6,7,8-HxCDD		0.00020	ND(0.00010) X	ND(0.000012)	ND(0.0000015)	0.0000095	ND(0.00000078)
1,2,3,7,8,9-HxCDD		0.000054	ND(0.000027)	ND(0.000012)	ND(0.0000015)	0.0000075	ND(0.00000070)
HxCDDs (total)		0.00090	ND(0.000027)	ND(0.000012)	ND(0.0000015)	0.000066	ND(0.00000078)
1,2,3,4,6,7,8-HpCDD		0.0087 D	0.012	0.000058	0.00000097	0.000073	ND(0.0000016)
HpCDDs (total)		0.017	0.021	0.00012	0.00000097	0.00014	ND(0.0000016)
OCDD		0.084 DE	0.058 B	0.00022 B	0.0000041 B	0.00053	0.000021 J
Total TEQs (WHO TEFs)		0.00020	0.00038	0.00014	0.0000032	0.000025	0.0000021

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SB-3 0-1 06/24/99	I9-9-26-SB-3 1-2 11/27/00	I9-9-26-SB-3 2-4 11/27/00	I9-9-26-SB-3 6-8 11/27/00	I9-9-26-SB-4 0-1 06/24/99	I9-9-26-SB-4 2-4 09/21/99
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(11.2)	ND(17.0)	ND(12.0)	ND(12.0)	ND(10.4)	ND(13.3)
Arsenic		ND(18.6)	ND(28.0)	ND(21.0)	ND(19.0)	55.8	21.8
Barium		902	970	77.0	71.0	167	137
Beryllium		ND(0.190)	0.310	0.220	0.210	0.320	ND(1.11)
Cadmium		ND(1.90)	ND(2.80)	ND(2.10)	ND(1.90)	ND(1.70)	ND(1.11)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		12.7	30.0	9.00	ND(5.20)	24.1	14.1
Cobalt		10.2	ND(14.0)	ND(10.0)	ND(9.70)	ND(8.60)	ND(11.1)
Copper		46.3	86.0	57.0	30.0	69.0	58.4
Cyanide		3.00	0.110 J	ND(1.00)	ND(1.00)	1.20	NS
Iron		NS	NS	NS	NS	NS	NS
Lead		987	1500	220	190	180	549
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		1.70	2.80	0.770	ND(0.260)	0.400	0.336
Nickel		17.3	26.0	11.0	ND(7.80)	17.4	21.4
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(0.930)	ND(1.40)	ND(1.00)	1.10	ND(0.860)	5.98
Silver		ND(0.930)	ND(1.40)	ND(1.00)	ND(0.970)	ND(0.860)	ND(2.17)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		74.5	8.80 J	490	100	18.4	NS
Thallium		ND(1.90)	ND(2.80)	ND(2.10)	ND(1.90)	ND(1.70)	ND(11.1)
Tin		ND(55.9)	ND(83.0)	ND(62.0)	ND(58.0)	ND(51.8)	ND(111)
Vanadium		9.90	18.0	ND(10.0)	11.0	16.4	37.4
Zinc		878	1100	140	120	202	271

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-26-SB-4 4-6 11/22/00	I9-9-26-SB-5 2-4 09/21/99	I9-9-26-SS-1 0-1 11/27/00	I9-9-26-SS-1 4-6 11/27/00	I9-9-26-SS-1 12-14 11/27/00	I9-9-26-SS-3 0-1 11/27/00
Volatile Organics						
1,1,1,2-Tetrachloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,1,1-Trichloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,1,2,2-Tetrachloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,1,2-Trichloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,1-Dichloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,1-Dichloroethene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,2,3-Trichloropropane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,2-Dibromo-3-chloropropane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,2-Dibromoethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,2-Dichloroethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,2-Dichloropropane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
1,4-Dioxane	NS	NS	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
2-Butanone	NS	NS	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
2-Chloroethylvinylether	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
2-Hexanone	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
3-Chloropropene	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
4-Methyl-2-pentanone	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Acetone	NS	NS	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Acetonitrile	NS	NS	ND(0.14)	ND(0.13)	ND(0.15)	ND(0.14)
Acrolein	NS	NS	ND(0.14)	ND(0.13)	ND(0.15)	ND(0.14)
Acrylonitrile	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Benzene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Bromodichloromethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Bromoform	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Bromomethane	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Carbon Disulfide	NS	NS	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Tetrachloride	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Chlorobenzene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Chloroethane	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Chloroform	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Chloromethane	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
cis-1,3-Dichloropropene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Dibromochloromethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Dibromomethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Dichlorodifluoromethane	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Ethyl Methacrylate	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Ethylbenzene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Iodomethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Isobutanol	NS	NS	ND(0.27)	ND(0.27)	ND(0.30)	ND(0.28)
Methacrylonitrile	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Methyl Methacrylate	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Methylene Chloride	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Propionitrile	NS	NS	ND(0.069)	ND(0.067)	ND(0.076)	ND(0.070)
Styrene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Tetrachloroethene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Toluene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
trans-1,2-Dichloroethene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
trans-1,3-Dichloropropene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
trans-1,4-Dichloro-2-butene	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Trichloroethene	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Trichlorofluoromethane	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Vinyl Acetate	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Vinyl Chloride	NS	NS	ND(0.014)	ND(0.013)	ND(0.015)	ND(0.014)
Xylenes (total)	NS	NS	ND(0.0069)	ND(0.0067)	ND(0.0076)	ND(0.0070)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,2,4-Trichlorobenzene	NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,2-Dichlorobenzene	NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,2-Diphenylhydrazine	NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,3,5-Trinitrobenzene	NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
1,3-Dichlorobenzene	NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,3-Dinitrobenzene	NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
1,4-Dichlorobenzene	NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
1,4-Naphthoquinone	NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
1-Naphthylamine	NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
2,3,4,6-Tetrachlorophenol	NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SB-4 4-6 11/22/00	I9-9-26-SB-5 2-4 09/21/99	I9-9-26-SS-1 0-1 11/27/00	I9-9-26-SS-1 4-6 11/27/00	I9-9-26-SS-1 12-14 11/27/00	I9-9-26-SS-3 0-1 11/27/00
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2,4,6-Trichlorophenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2,4-Dichlorophenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2,4-Dimethylphenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2,4-Dinitrophenol		NS	ND(3.6)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
2,4-Dinitrotoluene		NS	ND(0.39)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
2,6-Dichlorophenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2,6-Dinitrotoluene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2-Acetylaminofluorene		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
2-Chloronaphthalene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2-Chlorophenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2-Methylnaphthalene		NS	ND(0.78)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2-Methylphenol		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
2-Naphthylamine		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
2-Nitroaniline		NS	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
2-Nitrophenol		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
2-Picoline		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
3&4-Methylphenol		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
3,3'-Dichlorobenzidine		NS	ND(0.39)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
3,3'-Dimethylbenzidine		NS	ND(0.39)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
3-Methylcholanthrene		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
3-Nitroaniline		NS	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
4,6-Dinitro-2-methylphenol		NS	ND(3.9)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
4-Aminobiphenyl		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
4-Bromophenyl-phenylether		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
4-Chloro-3-Methylphenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
4-Chloroaniline		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
4-Chlorobenzilate		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
4-Chlorophenyl-phenylether		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
4-Nitroaniline		NS	ND(3.9)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
4-Nitrophenol		NS	ND(3.9)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
4-Nitroquinoline-1-oxide		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
4-Phenylenediamine		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
5-Nitro-o-toluidine		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
7,12-Dimethylbenz(a)anthracene		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
a,a'-Dimethylphenethylamine		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Acenaphthene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Acenaphthylene		NS	0.53	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Acetophenone		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Aniline		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Anthracene		NS	0.21 J	0.58	ND(0.45)	ND(0.50)	0.36 J
Aramite		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
Benzidine		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
Benzo(a)anthracene		NS	0.51	2.1	ND(0.45)	ND(0.50)	1.5
Benzo(a)pyrene		NS	1.0	2.2	ND(0.45)	ND(0.50)	1.8
Benzo(b)fluoranthene		NS	0.83	1.9	ND(0.45)	ND(0.50)	1.4
Benzo(g,h,i)perylene		NS	0.91	2.0	ND(0.45)	ND(0.50)	1.4
Benzo(k)fluoranthene		NS	0.75	1.6	ND(0.45)	ND(0.50)	1.5
Benzoic Acid		NS	NS	NS	NS	NS	NS
Benzyl Alcohol		NS	ND(1.5)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
bis(2-Chloroethoxy)methane		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
bis(2-Chloroethyl)ether		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
bis(2-Chloroisopropyl)ether		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
bis(2-Ethylhexyl)phthalate		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Butylbenzylphthalate		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	0.79 J
Chrysene		NS	0.59	2.1	ND(0.45)	ND(0.50)	1.8
Diallate		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
Dibenzo(a,h)anthracene		NS	0.25 J	1.0	ND(0.90)	ND(1.0)	0.86 J
Dibenzofuran		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Diethylphthalate		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Dimethylphthalate		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Di-n-Butylphthalate		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Di-n-Octylphthalate		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Dinoseb		NS	NS	NS	NS	NS	NS
Diphenylamine		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Ethyl Methacrylate		NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)

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(Results are presented in dry weight parts per million, ppm)

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Semivolatile Organics (continued)							
Fluoranthene		NS	0.90	4.4	ND(0.45)	ND(0.50)	4.0
Fluorene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Hexachlorobenzene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Hexachlorobutadiene		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
Hexachlorocyclopentadiene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Hexachloroethane		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Hexachlorophene		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
Hexachloropropene		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Indeno(1,2,3-cd)pyrene		NS	0.66	2.4	ND(0.90)	ND(1.0)	2.4
Isodrin		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Isophorone		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Isosafrole		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
Methapyrilene		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Methyl Methanesulfonate		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Naphthalene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Nitrobenzene		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
N-Nitrosodiethylamine		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
N-Nitrosodimethylamine		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
N-Nitroso-di-n-butylamine		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
N-Nitroso-di-n-propylamine		NS	ND(0.39)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
N-Nitrosodiphenylamine		NS	ND(0.39)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
N-Nitrosomethylethylamine		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.97)
N-Nitrosomorpholine		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
N-Nitrosopiperidine		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
N-Nitrosopyrrolidine		NS	ND(0.79)	ND(0.92)	ND(0.90)	ND(1.0)	ND(0.93)
o,o,o-Triethylphosphorothioate		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
o-Toluidine		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
p-Dimethylaminoazobenzene		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Pentachlorobenzene		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Pentachloroethane		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Pentachloronitrobenzene		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Pentachlorophenol		NS	ND(3.9)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Phenacetin		NS	ND(0.79)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.4)
Phenanthrene		NS	0.44	2.5	ND(0.45)	ND(0.50)	2.1
Phenol		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Pronamide		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Pyrene		NS	0.89	3.9	ND(0.45)	ND(0.50)	3.2
Pyridine		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Safrole		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Sulfotep		NS	NS	NS	NS	NS	NS
Thionazin		NS	ND(0.79)	ND(0.46)	ND(0.45)	ND(0.50)	ND(0.49)
Furans							
2,3,7,8-TCDF		NS	0.0000084	0.000025	ND(0.00000021)	ND(0.00000056)	0.000024
TCDFs (total)		NS	0.000052	0.00016	ND(0.00000021)	ND(0.00000056)	0.00013
1,2,3,7,8-PeCDF		NS	ND(0.0000011)	0.000013	ND(0.00000021)	ND(0.00000054)	ND(0.000011) X
2,3,4,7,8-PeCDF		NS	0.0000023 J	0.000010	ND(0.00000021)	ND(0.00000053)	ND(0.0000067) X
PeCDFs (total)		NS	0.000011	0.00022	ND(0.00000021)	ND(0.00000053)	ND(0.00000069)
1,2,3,4,7,8-HxCDF		NS	0.0000038 J	0.000057 I	ND(0.00000012)	ND(0.00000041)	0.000050 I
1,2,3,6,7,8-HxCDF		NS	ND(0.0000018)	ND(0.0000011)	ND(0.00000012)	ND(0.00000041)	ND(0.00000089)
1,2,3,7,8,9-HxCDF		NS	ND(0.0000017)	ND(0.0000014)	ND(0.00000016)	ND(0.00000053)	ND(0.0000011)
2,3,4,6,7,8-HxCDF		NS	ND(0.0000019)	0.0000084	ND(0.00000013)	ND(0.00000041)	0.0000068
HxCDFs (total)		NS	0.000015	0.00011	ND(0.00000012)	ND(0.00000041)	0.000094
1,2,3,4,6,7,8-HpCDF		NS	0.0000055 J	0.000023	ND(0.000000097)	ND(0.00000054)	0.000023
1,2,3,4,7,8,9-HpCDF		NS	ND(0.0000031)	0.0000032	ND(0.00000013)	ND(0.00000074)	0.0000032
HpCDFs (total)		NS	0.0000076 J	0.000026	ND(0.000000097)	ND(0.00000054)	0.0000068
OCDF		NS	ND(0.00000089)	0.000026	ND(0.00000011)	ND(0.00000052)	0.000030
Dioxins							
2,3,7,8-TCDD		NS	ND(0.00000084)	ND(0.00000027)	ND(0.00000024)	ND(0.00000064)	ND(0.00000024)
TCDDs (total)		NS	ND(0.00000084)	0.0000066	ND(0.00000024)	ND(0.00000064)	0.0000037
1,2,3,7,8-PeCDD		NS	ND(0.0000020)	ND(0.00000096)	ND(0.00000084)	ND(0.0000049)	ND(0.00000069)
PeCDDs (total)		NS	ND(0.0000020)	ND(0.00000096)	ND(0.00000084)	ND(0.0000049)	ND(0.00000069)
1,2,3,4,7,8-HxCDD		NS	ND(0.00000066)	0.00000052	ND(0.00000029)	ND(0.0000014)	ND(0.00000064) X
1,2,3,6,7,8-HxCDD		NS	ND(0.00000081)	ND(0.0000018) X	ND(0.00000027)	ND(0.0000014)	0.0000028
1,2,3,7,8,9-HxCDD		NS	ND(0.00000073)	ND(0.0000014) X	ND(0.00000027)	ND(0.0000013)	0.0000028
HxCDDs (total)		NS	ND(0.00000081)	0.000012	ND(0.00000027)	ND(0.0000014)	0.000019
1,2,3,4,6,7,8-HpCDD		NS	ND(0.0000018)	0.000024	ND(0.00000011)	ND(0.0000011)	0.000038
HpCDDs (total)		NS	ND(0.0000018)	0.000045	ND(0.00000011)	ND(0.0000011)	0.000069
OCDD		NS	0.000015 J	0.00016 B	0.00000096 B	0.000018 B	0.00028 B
Total TEQs (WHO TEFs)		NS	0.0000043	0.000016	0.00000068	0.0000033	0.000012

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(Results are presented in dry weight parts per million, ppm)

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Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(14.0)	ND(7.82)	ND(12.0)	ND(12.0)	ND(14.0)	ND(12.0)
Arsenic		ND(24.0)	12.9	ND(21.0)	ND(20.0)	ND(23.0)	ND(21.0)
Barium		87.0	62.9	92.0	ND(40.0)	ND(45.0)	200
Beryllium		0.370	ND(0.652)	0.260	0.230	0.240	0.310
Cadmium		ND(2.40)	ND(0.652)	ND(2.10)	ND(2.00)	ND(2.30)	ND(2.10)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		8.80	9.73	6.90	6.50	ND(6.10)	11.0
Cobalt		ND(12.0)	8.30	ND(10.0)	ND(10.0)	ND(11.0)	ND(10.0)
Copper		55.0	57.4	35.0	ND(20.0)	ND(23.0)	37.0
Cyanide		NS	NS	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Iron		NS	NS	NS	NS	NS	NS
Lead		340	78.2	350	13.0	4.30	530
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.440	0.121	0.570	ND(0.270)	ND(0.300)	0.510
Nickel		14.0	17.8	12.0	12.0	12.0	16.0
Potassium		NS	NS	NS	NS	NS	NS
Selenium		3.00	ND(0.652)	ND(1.00)	ND(1.00)	ND(1.10)	ND(1.00)
Silver		ND(1.20)	ND(1.39)	ND(1.00)	ND(1.00)	ND(1.10)	ND(1.00)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		NS	NS	11.0	ND(6.70)	140	22.0
Thallium		ND(2.40)	ND(6.51)	ND(2.10)	ND(2.00)	ND(2.30)	ND(2.10)
Tin		ND(73.0)	ND(65.1)	ND(62.0)	ND(60.0)	ND(68.0)	ND(63.0)
Vanadium		19.0	23.1	ND(10.0)	ND(10.0)	ND(11.0)	13.0
Zinc		190	107	130	33.0	24.0	270

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Volatile Organics					
1,1,1,2-Tetrachloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,1,1-Trichloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,1,2,2-Tetrachloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,1,2-Trichloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,1-Dichloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,1-Dichloroethene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,2,3-Trichloropropane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,2-Dibromo-3-chloropropane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,2-Dibromoethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,2-Dichloroethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,2-Dichloropropane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
1,4-Dioxane		ND(0.20)	ND(0.20) [ND(0.20)]	ND(0.20) [ND(0.20)]	ND(0.20)
2-Butanone		ND(0.10)	ND(0.10) [ND(0.10)]	ND(0.10) [ND(0.10)]	ND(0.10)
2-Chloro-1,3-butadiene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
2-Chloroethylvinylether		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
2-Hexanone		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
3-Chloropropene		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
4-Methyl-2-pentanone		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Acetone		ND(0.10)	ND(0.10) [ND(0.10)]	ND(0.10) [ND(0.10)]	ND(0.10)
Acetonitrile		ND(0.14)	ND(0.12) [ND(0.13)]	ND(0.14) [ND(0.14)]	ND(0.14)
Acrolein		ND(0.14)	ND(0.12) [ND(0.13)]	ND(0.14) [ND(0.14)]	ND(0.14)
Acrylonitrile		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Benzene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Bromodichloromethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Bromoform		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Bromomethane		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Carbon Disulfide		ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.010)
Carbon Tetrachloride		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Chlorobenzene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Chloroethane		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Chloroform		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Chloromethane		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
cis-1,3-Dichloropropene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Dibromochloromethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Dibromomethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Dichlorodifluoromethane		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Ethyl Methacrylate		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Ethylbenzene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Iodomethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Isobutanol		ND(0.28)	ND(0.25) [ND(0.25)]	ND(0.29) [ND(0.29)]	ND(0.27)
Methacrylonitrile		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Methyl Methacrylate		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Methylene Chloride		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Propionitrile		ND(0.070)	ND(0.062) [ND(0.063)]	ND(0.073) [ND(0.072)]	ND(0.068)
Styrene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Tetrachloroethene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Toluene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
trans-1,2-Dichloroethene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
trans-1,3-Dichloropropene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
trans-1,4-Dichloro-2-butene		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Trichloroethene		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Trichlorofluoromethane		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Vinyl Acetate		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Vinyl Chloride		ND(0.014)	ND(0.012) [ND(0.013)]	ND(0.014) [ND(0.014)]	ND(0.014)
Xylenes (total)		ND(0.0070)	ND(0.0062) [ND(0.0063)]	ND(0.0073) [ND(0.0072)]	ND(0.0068)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,2,4-Trichlorobenzene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,2-Dichlorobenzene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,2-Diphenylhydrazine		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,3,5-Trinitrobenzene		ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(2.7)
1,3-Dichlorobenzene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,3-Dinitrobenzene		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
1,4-Dichlorobenzene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
1,4-Naphthoquinone		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
1-Naphthylamine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.9) [ND(3.0)]	ND(2.7)
2,3,4,6-Tetrachlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-3 2-4 11/27/00	I9-9-26-SS-3 10-12 11/27/00	I9-9-26-SS-4 0-1 11/28/00	I9-9-26-SS-4 1-2 11/28/00
Semivolatile Organics (continued)					
2,4,5-Trichlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2,4,6-Trichlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2,4-Dichlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2,4-Dimethylphenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2,4-Dinitrophenol		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
2,4-Dinitrotoluene		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
2,6-Dichlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2,6-Dinitrotoluene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Acetylaminofluorene		ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(6.8)
2-Chloronaphthalene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Chlorophenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Methylnaphthalene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Methylphenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Naphthylamine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.9) [ND(3.0)]	ND(2.7)
2-Nitroaniline		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
2-Nitrophenol		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
2-Picoline		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
3&4-Methylphenol		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
3,3'-Dichlorobenzidine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
3,3'-Dimethylbenzidine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
3-Methylcholanthrene		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
3-Nitroaniline		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
4,6-Dinitro-2-methylphenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
4-Aminobiphenyl		ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(2.7)
4-Bromophenyl-phenylether		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
4-Chloro-3-Methylphenol		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
4-Chloroaniline		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
4-Chlorobenzilate		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
4-Chlorophenyl-phenylether		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
4-Nitroaniline		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
4-Nitrophenol		ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
4-Nitroquinoline-1-oxide		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
4-Phenylenediamine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
5-Nitro-o-toluidine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
7,12-Dimethylbenz(a)anthracene		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
a,a'-Dimethylphenethylamine		ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
Acenaphthene		ND(0.46)	ND(0.41) [ND(0.42)]	0.52 J [0.56 J]	ND(1.4)
Acenaphthylene		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Acetophenone		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Aniline		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Anthracene		ND(0.46)	ND(0.41) [ND(0.42)]	1.4 J [1.1 J]	ND(1.4)
Aramite		ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(2.7)
Benzidine		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
Benzo(a)anthracene		ND(0.46)	ND(0.41) [ND(0.42)]	6.8 [5.9]	1.1 J
Benzo(a)pyrene		ND(0.46)	ND(0.41) [ND(0.42)]	7.0 [6.0]	1.5
Benzo(b)fluoranthene		ND(0.46)	ND(0.41) [ND(0.42)]	7.4 [4.1]	1.5
Benzo(g,h,i)perylene		0.42 J	ND(0.41) [ND(0.42)]	5.6 [4.5]	2.1
Benzo(k)fluoranthene		ND(0.46)	ND(0.41) [ND(0.42)]	5.9 [8.4]	1.3 J
Benzoic Acid		NS	NS	NS	NS
Benzyl Alcohol		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
bis(2-Chloroethoxy)methane		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
bis(2-Chloroethyl)ether		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
bis(2-Chloroisopropyl)ether		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
bis(2-Ethylhexyl)phthalate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Butylbenzylphthalate		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
Chrysene		ND(0.46)	ND(0.41) [ND(0.42)]	8.3 [7.1]	1.4
Diallate		ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(2.8)
Dibenzo(a,h)anthracene		ND(0.94)	ND(0.83) [ND(0.85)]	3.8 [ND(1.5)]	ND(1.4)
Dibenzofuran		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Diethylphthalate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Dimethylphthalate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Di-n-Butylphthalate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Di-n-Octylphthalate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Dinoseb		NS	NS	NS	NS
Diphenylamine		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Ethyl Methacrylate		NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID / Sample Depth(Feet) / Date Collected:	I9-9-26-SS-3 2-4 11/27/00	I9-9-26-SS-3 10-12 11/27/00	I9-9-26-SS-4 0-1 11/28/00	I9-9-26-SS-4 1-2 11/28/00
Semivolatile Organics (continued)				
Fluoranthene	ND(0.46)	ND(0.41) [ND(0.42)]	17 [13]	2.3
Fluorene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Hexachlorobenzene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Hexachlorobutadiene	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
Hexachlorocyclopentadiene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Hexachloroethane	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Hexachlorophene	ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(6.8)
Hexachloropropene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Indeno(1,2,3-cd)pyrene	ND(0.94)	ND(0.83) [ND(0.85)]	10 [8.0]	1.8
Isodrin	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(2.7)
Isophorone	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Isosafrole	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
Methapyrilene	ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
Methyl Methanesulfonate	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Naphthalene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Nitrobenzene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosodiethylamine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosodimethylamine	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitroso-di-n-butylamine	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitroso-di-n-propylamine	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosodiphenylamine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosomethylethylamine	ND(0.94)	ND(0.83) [ND(0.85)]	ND(2.9) [ND(3.0)]	ND(2.7)
N-Nitrosomorpholine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosopiperidine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
N-Nitrosopyrrolidine	ND(0.94)	ND(0.83) [ND(0.85)]	ND(1.4) [ND(1.5)]	ND(1.4)
o,o,o-Triethylphosphorothioate	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(2.7)
o-Toluidine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
p-Dimethylaminoazobenzene	ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
Pentachlorobenzene	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Pentachloroethane	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Pentachloronitrobenzene	ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
Pentachlorophenol	ND(2.4)	ND(2.1) [ND(2.1)]	ND(2.5) [ND(2.4)]	ND(2.3)
Phenacetin	ND(2.4)	ND(2.1) [ND(2.1)]	ND(7.3) [ND(7.5)]	ND(6.8)
Phenanthrene	ND(0.46)	ND(0.41) [ND(0.42)]	9.9 [8.2]	1.2 J
Phenol	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Pronamide	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(6.8)
Pyrene	ND(0.46)	ND(0.41) [ND(0.42)]	13 [9.1]	2.0
Pyridine	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Safrole	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(1.4)
Sulfotep	NS	NS	NS	NS
Thionazin	ND(0.46)	ND(0.41) [ND(0.42)]	ND(1.4) [ND(1.5)]	ND(6.8)
Furans				
2,3,7,8-TCDF	0.0000064	ND(0.00000022) [ND(0.00000014)]	0.000037 [0.000032]	0.000043
TCDFs (total)	0.000019	ND(0.00000022) [ND(0.00000014)]	0.00019 [0.00017]	0.00025
1,2,3,7,8-PeCDF	0.0000029	ND(0.00000022) [ND(0.00000020)]	ND(0.000014) X [0.000013 I]	ND(0.000016) X
2,3,4,7,8-PeCDF	0.0000026	ND(0.00000022) [ND(0.00000020)]	ND(0.000012) X [0.000012]	0.000013
PeCDFs (total)	0.000027	ND(0.00000022) [ND(0.00000020)]	0.00027 [0.00014]	0.00036
1,2,3,4,7,8-HxCDF	0.0000088 I	ND(0.000000085) [ND(0.000000081)]	0.00014 [0.00012 I]	0.00018
1,2,3,6,7,8-HxCDF	0.0000013	ND(0.000000086) [ND(0.000000081)]	0.0000088 [0.0000076]	0.0000086
1,2,3,7,8,9-HxCDF	ND(0.00000038)	ND(0.00000011) [ND(0.00000010)]	ND(0.0000024) [ND(0.0000014)]	ND(0.0000025)
2,3,4,6,7,8-HxCDF	0.0000013	ND(0.000000086) [ND(0.000000081)]	0.000015 [0.000013]	0.000019
HxCDFs (total)	0.000012	ND(0.000000086) [ND(0.000000081)]	0.00020 [0.00018]	0.00026
1,2,3,4,6,7,8-HpCDF	0.0000054	ND(0.00000020) [ND(0.000000080)]	ND(0.000042) X [ND(0.000034) X]	0.000036
1,2,3,4,7,8,9-HpCDF	ND(0.00000011)	ND(0.00000021) [ND(0.00000011)]	ND(0.0000034) X [0.0000037]	0.0000044
HpCDFs (total)	0.0000054	ND(0.000000067) [ND(0.000000080)]	ND(0.0000016) [0.0000037]	0.000043
OCDF	0.0000027	ND(0.00000012) [ND(0.000000066)]	0.000064 [0.000047]	0.000032
Dioxins				
2,3,7,8-TCDD	ND(0.000000091)	ND(0.00000017) [ND(0.00000027)]	ND(0.0000013) X [ND(0.00000058)]	ND(0.00000037)
TCDDs (total)	ND(0.000000091)	ND(0.00000017) [ND(0.00000027)]	ND(0.00000066) [0.0000069]	0.0000043
1,2,3,7,8-PeCDD	ND(0.00000061)	ND(0.00000052) [ND(0.00000039)]	ND(0.0000012) [ND(0.0000013)]	ND(0.00000093)
PeCDDs (total)	ND(0.00000061)	ND(0.00000052) [ND(0.00000039)]	ND(0.0000012) [ND(0.0000013)]	ND(0.00000093)
1,2,3,4,7,8-HxCDD	ND(0.00000020)	ND(0.00000021) [ND(0.00000025)]	ND(0.0000012) X [ND(0.00000096) X]	ND(0.00000050)
1,2,3,6,7,8-HxCDD	ND(0.00000019)	ND(0.00000020) [ND(0.00000024)]	0.0000050 [0.0000042]	ND(0.0000020) X
1,2,3,7,8,9-HxCDD	ND(0.00000019)	ND(0.00000020) [ND(0.00000023)]	ND(0.0000055) X [ND(0.0000039) X]	ND(0.0000018) X
HxCDDs (total)	0.0000011	ND(0.00000020) [ND(0.00000024)]	0.000024 [0.0000078]	0.0000036
1,2,3,4,6,7,8-HpCDD	0.0000012	ND(0.000000067) [ND(0.00000011)]	0.000081 [0.000058]	0.000028
HpCDDs (total)	0.0000021	ND(0.000000067) [ND(0.00000011)]	0.00015 [0.00011]	0.000052
OCDD	0.0000047 B	0.00000058 B [0.00000054 B]	0.00071 B [0.00045 B]	0.00019 B
Total TEQs (WHO TEFs)	0.0000037	0.00000047 [0.00000045]	0.000027 [0.000026]	0.000034

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-3 2-4 11/27/00	I9-9-26-SS-3 10-12 11/27/00	I9-9-26-SS-4 0-1 11/28/00	I9-9-26-SS-4 1-2 11/28/00
Inorganics					
Aluminum		NS	NS	NS	NS
Antimony		ND(13.0)	ND(11.0) [ND(11.0)]	ND(13.0) [ND(13.0)]	ND(12.0)
Arsenic		ND(21.0)	ND(18.0) [ND(19.0)]	ND(22.0) [ND(22.0)]	ND(20.0)
Barium		ND(42.0)	ND(37.0) [ND(38.0)]	90.0 [100]	110
Beryllium		0.270	0.280 [0.300]	0.320 [0.360]	0.360
Cadmium		ND(2.10)	ND(1.80) [ND(1.90)]	ND(2.20) [ND(2.20)]	ND(2.00)
Calcium		NS	NS	NS	NS
Chromium		5.70	5.10 [ND(5.00)]	20.0 [17.0]	12.0
Cobalt		ND(10.0)	ND(9.30) [ND(9.50)]	11.0 [ND(11.0)]	ND(10.0)
Copper		22.0	ND(18.0) [ND(19.0)]	42.0 [49.0]	54.0
Cyanide		ND(1.00)	ND(1.00) [ND(1.00)]	ND(1.40) [0.320]	ND(1.00)
Iron		NS	NS	NS	NS
Lead		50.0	6.00 [6.00]	270 [330]	430
Magnesium		NS	NS	NS	NS
Manganese		NS	NS	NS	NS
Mercury		0.330	ND(0.250) [ND(0.250)]	0.610 [0.480]	0.600
Nickel		11.0	12.0 [10.0]	18.0 [18.0]	18.0
Potassium		NS	NS	NS	NS
Selenium		ND(1.00)	ND(0.930) [ND(0.950)]	ND(1.10) [ND(1.10)]	ND(1.00)
Silver		ND(1.00)	ND(0.930) [ND(0.950)]	ND(1.10) [ND(1.10)]	ND(1.00)
Sodium		NS	NS	NS	NS
Sulfide		11.0	9.80 [16.0]	12.0 [ND(7.20)]	8.60
Thallium		ND(2.10)	ND(1.80) [ND(1.90)]	ND(2.20) [ND(2.20)]	ND(2.00)
Tin		ND(63.0)	ND(56.0) [ND(57.0)]	ND(66.0) [ND(65.0)]	ND(62.0)
Vanadium		ND(10.0)	ND(9.30) [ND(9.50)]	14.0 [16.0]	14.0
Zinc		71.0	34.0 [28.0]	180 [200]	190

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-6 0-1 06/24/99	I9-9-27-SB-1 4-6 11/28/00	I9-9-27-SB-2 0-1 06/24/99	I9-9-27-SB-2 8-10 11/27/00	I9-9-27-SB-3 0-1 11/28/00	I9-9-27-SB-3 4-6 11/28/00
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,1,1-Trichloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,1,2,2-Tetrachloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,1,2-Trichloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,1-Dichloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,1-Dichloroethene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,2,3-Trichloropropane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,2-Dibromo-3-chloropropane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,2-Dibromoethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,2-Dichloroethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,2-Dichloropropane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
1,4-Dioxane		ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
2-Butanone		ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
2-Chloroethylvinylether		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
2-Hexanone		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
3-Chloropropene		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
4-Methyl-2-pentanone		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Acetone		ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Acetonitrile		ND(0.10)	ND(0.13)	ND(0.10)	ND(0.15)	ND(0.13)	ND(0.14)
Acrolein		ND(0.10)	ND(0.13)	ND(0.10)	ND(0.15)	ND(0.13)	ND(0.14)
Acrylonitrile		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Benzene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Bromodichloromethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Bromoform		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Bromomethane		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Carbon Disulfide		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Tetrachloride		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Chlorobenzene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Chloroethane		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Chloroform		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Chloromethane		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
cis-1,3-Dichloropropene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Dibromochloromethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Dibromomethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Dichlorodifluoromethane		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Ethyl Methacrylate		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Ethylbenzene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Iodomethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Isobutanol		ND(0.20)	ND(0.25)	ND(0.20)	ND(0.29)	ND(0.26)	ND(0.27)
Methacrylonitrile		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Methyl Methacrylate		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Methylene Chloride		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Propionitrile		ND(0.050)	ND(0.063)	ND(0.060)	ND(0.073)	ND(0.064)	ND(0.068)
Styrene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Tetrachloroethene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Toluene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
trans-1,2-Dichloroethene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
trans-1,3-Dichloropropene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
trans-1,4-Dichloro-2-butene		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Trichloroethene		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Trichlorofluoromethane		ND(0.0050)	ND(0.0063)	ND(0.0060)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Vinyl Acetate		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Vinyl Chloride		ND(0.010)	ND(0.013)	ND(0.010)	ND(0.015)	ND(0.013)	ND(0.014)
Xylenes (total)		ND(0.010)	ND(0.0063)	ND(0.010)	ND(0.0073)	ND(0.0064)	ND(0.0068)
Semivolatile Organics							
1,2,4,5-Tetrachlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,2,4-Trichlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,2-Dichlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,2-Diphenylhydrazine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,3,5-Trinitrobenzene		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(0.86)	ND(0.91)
1,3-Dichlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,3-Dinitrobenzene		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
1,4-Dichlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
1,4-Naphthoquinone		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
1-Naphthylamine		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
2,3,4,6-Tetrachlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-6 0-1 06/24/99	I9-9-27-SB-1 4-6 11/28/00	I9-9-27-SB-2 0-1 06/24/99	I9-9-27-SB-2 8-10 11/27/00	I9-9-27-SB-3 0-1 11/28/00	I9-9-27-SB-3 4-6 11/28/00
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2,4,6-Trichlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2,4-Dichlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2,4-Dimethylphenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2,4-Dinitrophenol		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
2,4-Dinitrotoluene		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
2,6-Dichlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2,6-Dinitrotoluene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2-Acetylaminofluorene		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(2.1)	ND(2.2)
2-Chloronaphthalene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2-Chlorophenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2-Methylnaphthalene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2-Methylphenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
2-Naphthylamine		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
2-Nitroaniline		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
2-Nitrophenol		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
2-Picoline		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
3&4-Methylphenol		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
3,3'-Dichlorobenzidine		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
3,3'-Dimethylbenzidine		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
3-Methylcholanthrene		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
3-Nitroaniline		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
4,6-Dinitro-2-methylphenol		ND(2.0)	ND(0.42)	ND(2.0)	ND(0.96)	ND(0.42)	ND(0.45)
4-Aminobiphenyl		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(0.86)	ND(0.91)
4-Bromophenyl-phenylether		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
4-Chloro-3-Methylphenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
4-Chloroaniline		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
4-Chlorobenzilate		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
4-Chlorophenyl-phenylether		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
4-Nitroaniline		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
4-Nitrophenol		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
4-Nitroquinoline-1-oxide		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
4-Phenylenediamine		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
5-Nitro-o-toluidine		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
7,12-Dimethylbenz(a)anthracene		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
a,a'-Dimethylphenethylamine		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
Acenaphthene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Acenaphthylene		0.30	ND(0.42)	0.50	ND(0.96)	ND(0.42)	ND(0.45)
Acetophenone		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Aniline		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Anthracene		0.50	ND(0.42)	0.70	ND(0.96)	ND(0.42)	ND(0.45)
Aramite		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(0.86)	ND(0.91)
Benzidine		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
Benzo(a)anthracene		2.0	0.47	2.0	ND(0.96)	ND(0.42)	ND(0.45)
Benzo(a)pyrene		1.0	0.44	2.0	ND(0.96)	ND(0.42)	ND(0.45)
Benzo(b)fluoranthene		2.0	0.39 J	2.0	ND(0.96)	ND(0.42)	ND(0.45)
Benzo(g,h,i)perylene		0.90	ND(0.42)	1.0	ND(0.96)	0.45	ND(0.45)
Benzo(k)fluoranthene		0.70	0.36 J	1.0	ND(0.96)	ND(0.42)	ND(0.45)
Benzoic Acid		NS	NS	NS	NS	NS	NS
Benzyl Alcohol		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
bis(2-Chloroethoxy)methane		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
bis(2-Chloroethyl)ether		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
bis(2-Chloroisopropyl)ether		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
bis(2-Ethylhexyl)phthalate		0.40	ND(0.42)	19	ND(0.96)	ND(0.42)	ND(0.45)
Butylbenzylphthalate		2.0	ND(0.84)	0.70	ND(0.98)	ND(0.86)	ND(0.91)
Chrysene		2.0	0.43	2.0	ND(0.96)	ND(0.42)	ND(0.45)
Diallate		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
Dibenzo(a,h)anthracene		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
Dibenzofuran		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Diethylphthalate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Dimethylphthalate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Di-n-Butylphthalate		ND(0.30)	ND(0.42)	2.0	ND(0.96)	ND(0.42)	ND(0.45)
Di-n-Octylphthalate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Dinoseb		NS	NS	NS	NS	NS	NS
Diphenylamine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Ethyl Methacrylate		NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-6 0-1 06/24/99	I9-9-27-SB-1 4-6 11/28/00	I9-9-27-SB-2 0-1 06/24/99	I9-9-27-SB-2 8-10 11/27/00	I9-9-27-SB-3 0-1 11/28/00	I9-9-27-SB-3 4-6 11/28/00
Semivolatile Organics (continued)							
Fluoranthene		4.0	0.94	4.0	1.1	0.48	ND(0.45)
Fluorene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Hexachlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Hexachlorobutadiene		ND(2.0)	ND(0.84)	ND(2.0)	ND(0.98)	ND(0.86)	ND(0.91)
Hexachlorocyclopentadiene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Hexachloroethane		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Hexachlorophene		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(2.1)	ND(2.2)
Hexachloropropene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Indeno(1,2,3-cd)pyrene		1.0	0.41 J	1.0	ND(0.98)	ND(0.86)	ND(0.91)
Isodrin		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.83)	ND(0.90)
Isophorone		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Isosafrole		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
Methapyrilene		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
Methyl Methanesulfonate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Naphthalene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Nitrobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
N-Nitrosodiethylamine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
N-Nitrosodimethylamine		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
N-Nitroso-di-n-butylamine		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
N-Nitroso-di-n-propylamine		ND(2.0)	ND(0.84)	ND(2.0)	ND(0.98)	ND(0.86)	ND(0.91)
N-Nitrosodiphenylamine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
N-Nitrosomethylethylamine		ND(0.70)	ND(0.84)	ND(0.70)	ND(1.9)	ND(0.86)	ND(0.91)
N-Nitrosomorpholine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
N-Nitrosopiperidine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
N-Nitrosopyrrolidine		ND(0.70)	ND(0.84)	ND(0.70)	ND(0.98)	ND(0.86)	ND(0.91)
o,o,o-Triethylphosphorothioate		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.83)	ND(0.90)
o-Toluidine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
p-Dimethylaminoazobenzene		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
Pentachlorobenzene		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Pentachloroethane		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Pentachloronitrobenzene		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
Pentachlorophenol		ND(2.0)	ND(2.1)	ND(2.0)	ND(2.5)	ND(2.2)	ND(2.3)
Phenacetin		ND(2.0)	ND(2.1)	ND(2.0)	ND(4.8)	ND(2.2)	ND(2.3)
Phenanthrene		2.0	0.53	1.0	ND(0.96)	ND(0.42)	ND(0.45)
Phenol		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Pronamide		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(2.1)	ND(2.2)
Pyrene		2.0	0.80	3.0	1.2	0.44	ND(0.45)
Pyridine		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Safrole		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(0.42)	ND(0.45)
Sulfotep		NS	NS	NS	NS	NS	NS
Thionazin		ND(0.30)	ND(0.42)	ND(0.40)	ND(0.96)	ND(2.1)	ND(2.2)
Furans							
2,3,7,8-TCDF		0.000060	0.0000067	0.000023	ND(0.0000079) X	0.000014	0.00000087
TCDFs (total)		0.00018	0.000030	0.000070	0.00013	0.000063	0.00000087
1,2,3,7,8-PeCDF		0.000016	ND(0.0000029) X	0.0000057	0.0000041	0.0000048	ND(0.00000016) X
2,3,4,7,8-PeCDF		0.000019	0.0000021	0.0000077	0.0000047	0.0000047	0.00000055
PeCDFs (total)		0.00012	0.000021	0.000033	0.000076	0.000064	0.0000037
1,2,3,4,7,8-HxCDF		0.000030	0.000012 I	0.0000083	0.000021 I	0.000022 I	0.0000020
1,2,3,6,7,8-HxCDF		0.000019	ND(0.00000027)	0.0000057	ND(0.00000055)	ND(0.00000098)	ND(0.00000056) X
1,2,3,7,8,9-HxCDF		0.0000013 J	ND(0.00000034)	0.00000060 J	ND(0.00000070)	ND(0.0000012)	ND(0.00000029)
2,3,4,6,7,8-HxCDF		0.000011	0.0000011	0.0000062	ND(0.0000016) X	0.0000026	0.00000041
HxCDFs (total)		0.00018	0.000010	0.000062	0.000022	0.000037	0.0000047
1,2,3,4,6,7,8-HpCDF		0.000053	0.0000044	0.000029	ND(0.0000029) X	0.000022	0.0000041
1,2,3,4,7,8,9-HpCDF		0.0000055	ND(0.00000070) X	0.0000025 J	0.00000094	ND(0.0000014) X	ND(0.00000012)
HpCDFs (total)		0.00011	0.0000044	0.000070	0.0000046	0.000022	0.0000046
OCDF		0.000058	0.0000034	0.000035	0.0000027	0.000030	0.0000019
Dioxins							
2,3,7,8-TCDD		0.0000020	ND(0.00000021)	0.00000066 J	ND(0.0000045) X	ND(0.00000016)	ND(0.00000010)
TCDDs (total)		0.0000047	0.00000061	0.00000066	0.0000050	0.0000019	ND(0.00000010)
1,2,3,7,8-PeCDD		0.0000034	ND(0.0000017)	0.0000029	ND(0.00000077)	ND(0.00000066)	ND(0.00000024)
PeCDDs (total)		0.000012	ND(0.0000017)	0.0000038	ND(0.00000077)	ND(0.00000066)	ND(0.00000024)
1,2,3,4,7,8-HxCDD		0.0000016 J	ND(0.00000035)	0.00000097 J	ND(0.00000055)	ND(0.00000046)	ND(0.00000023)
1,2,3,6,7,8-HxCDD		0.0000063	ND(0.00000033)	0.0000078	ND(0.00000052)	ND(0.00000044)	ND(0.00000022)
1,2,3,7,8,9-HxCDD		0.0000056	ND(0.00000032)	0.0000038	ND(0.00000052)	ND(0.00000043)	ND(0.00000027) X
HxCDDs (total)		0.000021	ND(0.00000033)	0.000039	ND(0.00000052)	ND(0.00000044)	ND(0.00000022)
1,2,3,4,6,7,8-HpCDD		0.000071	0.0000038	0.000089	ND(0.0000019) X	0.000024	0.0000023
HpCDDs (total)		0.00013	0.0000084	0.00019	0.0000018	0.000042	0.0000046
OCDD		0.00037	0.000018 B	0.00066	0.0000068 B	0.00022 B	0.0000062 B
Total TEQs (WHO TEFs)		0.000031	0.0000042	0.000015	0.0000079	0.0000075	0.00000092

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-26-SS-6 0-1 06/24/99	I9-9-27-SB-1 4-6 11/28/00	I9-9-27-SB-2 0-1 06/24/99	I9-9-27-SB-2 8-10 11/27/00	I9-9-27-SB-3 0-1 11/28/00	I9-9-27-SB-3 4-6 11/28/00
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(9.40)	ND(11.0)	ND(11.1)	ND(13.0)	ND(12.0)	ND(12.0)
Arsenic		ND(15.7)	ND(19.0)	ND(18.4)	ND(22.0)	ND(19.0)	ND(20.0)
Barium		169	480	76.9	ND(44.0)	97.0	ND(41.0)
Beryllium		0.280	0.290	0.220	ND(0.220)	0.300	0.320
Cadmium		ND(1.60)	ND(1.90)	ND(1.80)	ND(2.20)	ND(1.90)	ND(2.00)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		14.3	11.0	ND(4.90)	ND(5.90)	12.0	7.30
Cobalt		8.20	ND(9.40)	ND(9.20)	ND(11.0)	ND(9.60)	ND(10.0)
Copper		43.9	53.0	33.2	88.0	27.0	26.0
Cyanide		ND(1.00)	ND(1.00)	ND(1.20)	ND(1.00)	ND(1.00)	ND(1.00)
Iron		NS	NS	NS	NS	NS	NS
Lead		446	800	146	99.0	120	33.0
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.440	ND(0.250)	0.170	ND(0.290)	0.370	ND(0.270)
Nickel		18.9	19.0	11.8	ND(8.80)	8.50	13.0
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(0.780)	ND(0.940)	ND(0.920)	ND(1.10)	ND(0.960)	ND(1.00)
Silver		ND(0.780)	ND(0.940)	ND(0.920)	ND(1.10)	ND(0.960)	ND(1.00)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		10.0	430	27.1	1500	53.0	23.0
Thallium		ND(1.60)	ND(1.90)	ND(1.80)	ND(2.20)	ND(1.90)	ND(2.00)
Tin		ND(47.0)	ND(57.0)	ND(55.4)	ND(66.0)	ND(58.0)	ND(61.0)
Vanadium		14.7	ND(9.40)	16.0	ND(11.0)	ND(9.60)	ND(10.0)
Zinc		234	430	158	89.0	100	48.0

TABLE 2-5
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PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID	I9-9-27-SB-5	I9-9-27-SB-7	I9-9-27-SB-8	I9-9-27-SB-8	I9-9-27-SB-9	I9-9-27-SB-9
Sample Depth(Feet)	2-4	6-8	0-1	2-4	2-4	4-6
Date Collected	11/22/00	06/25/99	09/21/99	09/21/99	09/21/99	11/22/00
Volatile Organics						
1,1,1,2-Tetrachloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,1,1-Trichloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,1,2-Trichloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,1-Dichloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,1-Dichloroethene	NS	ND(0.0080)	NS	NS	NS	NS
1,2,3-Trichloropropane	NS	ND(0.0080)	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NS	ND(0.0080)	NS	NS	NS	NS
1,2-Dibromoethane	NS	ND(0.0080)	NS	NS	NS	NS
1,2-Dichloroethane	NS	ND(0.0080)	NS	NS	NS	NS
1,2-Dichloropropane	NS	ND(0.0080)	NS	NS	NS	NS
1,4-Dioxane	NS	ND(0.30)	NS	NS	NS	NS
2-Butanone	NS	ND(0.20)	NS	NS	NS	NS
2-Chloro-1,3-butadiene	NS	ND(0.0080)	NS	NS	NS	NS
2-Chloroethylvinylether	NS	ND(0.0080)	NS	NS	NS	NS
2-Hexanone	NS	ND(0.020)	NS	NS	NS	NS
3-Chloropropene	NS	ND(0.020)	NS	NS	NS	NS
4-Methyl-2-pentanone	NS	ND(0.020)	NS	NS	NS	NS
Acetone	NS	ND(0.20)	NS	NS	NS	NS
Acetonitrile	NS	ND(0.20)	NS	NS	NS	NS
Acrolein	NS	ND(0.20)	NS	NS	NS	NS
Acrylonitrile	NS	ND(0.020)	NS	NS	NS	NS
Benzene	NS	ND(0.0080)	NS	NS	NS	NS
Bromodichloromethane	NS	ND(0.0080)	NS	NS	NS	NS
Bromoform	NS	ND(0.0080)	NS	NS	NS	NS
Bromomethane	NS	ND(0.020)	NS	NS	NS	NS
Carbon Disulfide	NS	ND(0.020)	NS	NS	NS	NS
Carbon Tetrachloride	NS	ND(0.0080)	NS	NS	NS	NS
Chlorobenzene	NS	ND(0.0080)	NS	NS	NS	NS
Chloroethane	NS	ND(0.020)	NS	NS	NS	NS
Chloroform	NS	ND(0.0080)	NS	NS	NS	NS
Chloromethane	NS	ND(0.020)	NS	NS	NS	NS
cis-1,3-Dichloropropene	NS	ND(0.0080)	NS	NS	NS	NS
Dibromochloromethane	NS	ND(0.0080)	NS	NS	NS	NS
Dibromomethane	NS	ND(0.0080)	NS	NS	NS	NS
Dichlorodifluoromethane	NS	ND(0.020)	NS	NS	NS	NS
Ethyl Methacrylate	NS	ND(0.020)	NS	NS	NS	NS
Ethylbenzene	NS	ND(0.0080)	NS	NS	NS	NS
Iodomethane	NS	ND(0.0080)	NS	NS	NS	NS
Isobutanol	NS	ND(0.30)	NS	NS	NS	NS
Methacrylonitrile	NS	ND(0.020)	NS	NS	NS	NS
Methyl Methacrylate	NS	ND(0.020)	NS	NS	NS	NS
Methylene Chloride	NS	ND(0.0080)	NS	NS	NS	NS
Propionitrile	NS	ND(0.080)	NS	NS	NS	NS
Styrene	NS	ND(0.0080)	NS	NS	NS	NS
Tetrachloroethene	NS	ND(0.0080)	NS	NS	NS	NS
Toluene	NS	ND(0.0080)	NS	NS	NS	NS
trans-1,2-Dichloroethene	NS	ND(0.0080)	NS	NS	NS	NS
trans-1,3-Dichloropropene	NS	ND(0.0080)	NS	NS	NS	NS
trans-1,4-Dichloro-2-butene	NS	ND(0.020)	NS	NS	NS	NS
Trichloroethene	NS	ND(0.0080)	NS	NS	NS	NS
Trichlorofluoromethane	NS	ND(0.0080)	NS	NS	NS	NS
Vinyl Acetate	NS	ND(0.020)	NS	NS	NS	NS
Vinyl Chloride	NS	ND(0.020)	NS	NS	NS	NS
Xylenes (total)	NS	ND(0.020)	NS	NS	NS	NS
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
1,2,4-Trichlorobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
1,2-Dichlorobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
1,2-Diphenylhydrazine	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
1,3,5-Trinitrobenzene	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
1,3-Dichlorobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
1,3-Dinitrobenzene	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
1,4-Dichlorobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
1,4-Naphthoquinone	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
1-Naphthylamine	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
2,3,4,6-Tetrachlorophenol	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SB-5 2-4 11/22/00	I9-9-27-SB-7 6-8 06/25/99	I9-9-27-SB-8 0-1 09/21/99	I9-9-27-SB-8 2-4 09/21/99	I9-9-27-SB-9 2-4 09/21/99	I9-9-27-SB-9 4-6 11/22/00
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2,4,6-Trichlorophenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2,4-Dichlorophenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2,4-Dimethylphenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2,4-Dinitrophenol		ND(2.2)	ND(3.0)	ND(3.5)	ND(3.4)	ND(36)	ND(2.2)
2,4-Dinitrotoluene		ND(2.2)	ND(2.0)	ND(0.38)	ND(0.38)	ND(4.0)	ND(2.2)
2,6-Dichlorophenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2,6-Dinitrotoluene		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
2-Acetylaminofluorene		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
2-Chloronaphthalene		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
2-Chlorophenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
2-Methylnaphthalene		ND(0.44)	ND(0.50)	ND(0.77)	ND(0.76)	11	ND(0.42)
2-Methylphenol		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
2-Naphthylamine		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
2-Nitroaniline		ND(2.2)	ND(3.0)	ND(1.5)	ND(1.5)	ND(16)	ND(2.2)
2-Nitrophenol		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
2-Picoline		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
3&4-Methylphenol		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
3,3'-Dichlorobenzidine		ND(2.2)	ND(2.0)	ND(0.38)	ND(0.38)	ND(4.0)	ND(2.2)
3,3'-Dimethylbenzidine		ND(2.2)	ND(2.0)	ND(0.38)	ND(0.38)	ND(4.0)	ND(2.2)
3-Methylcholanthrene		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
3-Nitroaniline		ND(2.2)	ND(3.0)	ND(1.5)	ND(1.5)	ND(16)	ND(2.2)
4,6-Dinitro-2-methylphenol		ND(0.44)	ND(3.0)	ND(3.8)	ND(3.8)	ND(40)	ND(0.42)
4-Aminobiphenyl		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
4-Bromophenyl-phenylether		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
4-Chloro-3-Methylphenol		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
4-Chloroaniline		ND(0.89)	ND(0.70)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.86)
4-Chlorobenzilate		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
4-Chlorophenyl-phenylether		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
4-Nitroaniline		ND(2.2)	ND(3.0)	ND(3.8)	ND(3.8)	ND(40)	ND(2.2)
4-Nitrophenol		ND(2.2)	ND(3.0)	ND(3.8)	ND(3.8)	ND(40)	ND(2.2)
4-Nitroquinoline-1-oxide		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
4-Phenylenediamine		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
5-Nitro-o-toluidine		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
7,12-Dimethylbenz(a)anthracene		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
a,a'-Dimethylphenethylamine		ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
Acenaphthene		ND(0.44)	ND(0.50)	0.11 J	ND(0.38)	26	ND(0.42)
Acenaphthylene		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	1.3 J	ND(0.42)
Acetophenone		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Aniline		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Anthracene		0.45	ND(0.50)	0.31 J	ND(0.38)	52	ND(0.42)
Aramite		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
Benzidine		ND(0.89)	ND(0.70)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.86)
Benzo(a)anthracene		1.1	ND(0.50)	1.1	0.10 J	47	ND(0.42)
Benzo(a)pyrene		0.87	ND(0.50)	1.4	0.15 J	45	ND(0.42)
Benzo(b)fluoranthene		0.76	ND(0.50)	1.3	0.13 J	36	ND(0.42)
Benzo(g,h,i)perylene		0.98	ND(0.50)	0.70	ND(0.38)	15	ND(0.42)
Benzo(k)fluoranthene		0.75	ND(0.50)	1.5	0.15 J	35	ND(0.42)
Benzoic Acid		NS	NS	NS	NS	NS	NS
Benzyl Alcohol		ND(0.89)	ND(0.70)	ND(1.5)	ND(1.5)	ND(16)	ND(0.86)
bis(2-Chloroethoxy)methane		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
bis(2-Chloroethyl)ether		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
bis(2-Chloroisopropyl)ether		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
bis(2-Ethylhexyl)phthalate		ND(0.44)	ND(0.50)	0.16 J	0.084 J	ND(4.0)	ND(0.42)
Butylbenzylphthalate		ND(0.89)	ND(0.70)	0.13 J	ND(0.38)	ND(4.0)	ND(0.86)
Chrysene		1.1	ND(0.50)	1.4	0.13 J	44	ND(0.42)
Diallate		ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
Dibenzo(a,h)anthracene		ND(0.89)	ND(0.70)	0.33 J	ND(0.38)	7.7	ND(0.86)
Dibenzofuran		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	21	ND(0.42)
Diethylphthalate		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Dimethylphthalate		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Di-n-Butylphthalate		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Di-n-Octylphthalate		ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Dinoseb		NS	NS	NS	NS	NS	NS
Diphenylamine		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Ethyl Methacrylate		NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID	I9-9-27-SB-5	I9-9-27-SB-7	I9-9-27-SB-8	I9-9-27-SB-8	I9-9-27-SB-9	I9-9-27-SB-9
Sample Depth(Feet)	2-4	6-8	0-1	2-4	2-4	4-6
Date Collected	11/22/00	06/25/99	09/21/99	09/21/99	09/21/99	11/22/00
Semivolatile Organics (continued)						
Fluoranthene	2.2	ND(0.50)	3.1	0.20 J	96	0.43
Fluorene	ND(0.44)	ND(0.50)	0.14 J	ND(0.38)	32	ND(0.42)
Hexachlorobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Hexachlorobutadiene	ND(0.89)	ND(3.0)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.86)
Hexachlorocyclopentadiene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Hexachloroethane	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Hexachlorophene	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
Hexachloropropene	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Indeno(1,2,3-cd)pyrene	1.6	ND(0.70)	0.76	0.079 J	17	ND(0.86)
Isodrin	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Isophorone	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
Isosafrole	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
Methapyrilene	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
Methyl Methanesulfonate	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Naphthalene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	19	ND(0.42)
Nitrobenzene	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
N-Nitrosodiethylamine	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
N-Nitrosodimethylamine	ND(0.89)	ND(0.70)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.86)
N-Nitroso-di-n-butylamine	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
N-Nitroso-di-n-propylamine	ND(0.89)	ND(3.0)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.86)
N-Nitrosodiphenylamine	ND(0.44)	ND(0.50)	ND(0.38)	ND(0.38)	ND(4.0)	ND(0.42)
N-Nitrosomethylethylamine	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
N-Nitrosomorpholine	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
N-Nitrosopiperidine	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
N-Nitrosopyrrolidine	ND(0.89)	ND(0.70)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.86)
o,o,o-Triethylphosphorothioate	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
o-Toluidine	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
p-Dimethylaminoazobenzene	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
Pentachlorobenzene	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Pentachloroethane	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Pentachloronitrobenzene	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
Pentachlorophenol	ND(2.2)	ND(3.0)	ND(3.8)	ND(3.8)	ND(40)	ND(2.2)
Phenacetin	ND(2.2)	ND(2.0)	ND(0.78)	ND(0.77)	ND(8.2)	ND(2.2)
Phenanthrene	2.1	ND(0.50)	2.0	0.084 J	160	ND(0.42)
Phenol	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Pronamide	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Pyrene	1.8	ND(0.50)	2.4	0.17 J	84	0.45
Pyridine	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Safrole	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Sulfotep	NS	NS	NS	NS	NS	NS
Thionazin	ND(0.44)	ND(0.50)	ND(0.78)	ND(0.77)	ND(8.2)	ND(0.42)
Furans						
2,3,7,8-TCDF	NS	0.000027	0.000034	0.0000046	0.000011	NS
TCDFs (total)	NS	0.000084	0.00020	0.000024	0.000080	NS
1,2,3,7,8-PeCDF	NS	0.0000060	0.0000089 J	ND(0.00000062)	0.0000060 J	NS
2,3,4,7,8-PeCDF	NS	0.0000070	0.0000086 J	0.0000012 J	ND(0.0000013)	NS
PeCDFs (total)	NS	0.000043	0.00010	0.0000063 J	0.000029	NS
1,2,3,4,7,8-HxCDF	NS	0.000013	0.000013	0.0000031 J	ND(0.0000042)	NS
1,2,3,6,7,8-HxCDF	NS	0.0000048	0.0000058 J	ND(0.00000098)	ND(0.0000043)	NS
1,2,3,7,8,9-HxCDF	NS	ND(0.00000024)	ND(0.0000011)	ND(0.00000093)	ND(0.0000041)	NS
2,3,4,6,7,8-HxCDF	NS	0.0000039	0.0000070 J	0.0000015 J	ND(0.0000045)	NS
HxCDFs (total)	NS	0.000033	0.000079	0.0000085 J	ND(0.0000045)	NS
1,2,3,4,6,7,8-HpCDF	NS	0.000012	0.000026	0.0000037 J	0.000019	NS
1,2,3,4,7,8,9-HpCDF	NS	0.0000030 J	ND(0.0000014)	ND(0.0000011)	ND(0.0000069)	NS
HpCDFs (total)	NS	0.000023	0.000047	0.0000037 J	0.000019	NS
OCDF	NS	0.000018	0.000028	0.0000036 J	ND(0.0000027)	NS
Dioxins						
2,3,7,8-TCDD	NS	ND(0.00000037)	ND(0.0000011)	ND(0.00000078)	ND(0.0000030)	NS
TCDDs (total)	NS	ND(0.00000037)	ND(0.0000011)	ND(0.00000078)	ND(0.0000030)	NS
1,2,3,7,8-PeCDD	NS	ND(0.0000011)	ND(0.0000012)	ND(0.00000071)	ND(0.0000027)	NS
PeCDDs (total)	NS	ND(0.0000011)	ND(0.0000012)	ND(0.00000071)	ND(0.0000027)	NS
1,2,3,4,7,8-HxCDD	NS	ND(0.00000052)	ND(0.0000011)	ND(0.0000012)	ND(0.0000051)	NS
1,2,3,6,7,8-HxCDD	NS	0.0000012 J	ND(0.0000013)	ND(0.0000014)	ND(0.0000063)	NS
1,2,3,7,8,9-HxCDD	NS	ND(0.00000076)	ND(0.0000012)	ND(0.0000013)	ND(0.0000057)	NS
HxCDDs (total)	NS	0.0000012	ND(0.0000013)	ND(0.0000014)	ND(0.0000063)	NS
1,2,3,4,6,7,8-HpCDD	NS	0.000010	0.000037	ND(0.0000015)	ND(0.000014)	NS
HpCDDs (total)	NS	0.000017	0.000059	0.0000024 J	ND(0.000014)	NS
OCDD	NS	0.00013	0.00020	0.000014 J	0.000050	NS
Total TEQs (WHO TEFs)	NS	0.0000099	0.000013	0.0000026	0.0000066	NS

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SB-5 2-4 11/22/00	I9-9-27-SB-7 6-8 06/25/99	I9-9-27-SB-8 0-1 09/21/99	I9-9-27-SB-8 2-4 09/21/99	I9-9-27-SB-9 2-4 09/21/99	I9-9-27-SB-9 4-6 11/22/00
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(12.0)	ND(14.7)	ND(7.80)	ND(7.68)	ND(8.45)	ND(12.0)
Arsenic		ND(20.0)	ND(24.6)	11.5	10.2	14.1	ND(19.0)
Barium		190	153	56.7	59.0	99.1	57.0
Beryllium		0.280	1.90	ND(0.651)	ND(0.643)	ND(0.706)	0.270
Cadmium		ND(2.00)	ND(2.40)	ND(0.651)	ND(0.643)	ND(0.706)	ND(1.90)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		15.0	24.1	9.77	10.8	11.1	7.60
Cobalt		ND(9.90)	ND(12.3)	9.88	8.96	ND(7.04)	ND(9.70)
Copper		40.0	26.0	26.6	40.3	84.4	35.0
Cyanide		NS	ND(0.0330)	NS	NS	NS	NS
Iron		NS	NS	NS	NS	NS	NS
Lead		340	13.2	97.4	155	232	100
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.410	2.40	0.131	0.333	674	4.00
Nickel		14.0	24.4	19.7	17.8	16.7	14.0
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(0.990)	ND(1.20)	ND(0.651)	ND(0.643)	ND(0.706)	ND(0.970)
Silver		ND(0.990)	ND(1.20)	ND(1.30)	ND(1.21)	ND(1.41)	ND(0.970)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		NS	328	NS	NS	NS	NS
Thallium		ND(2.00)	ND(2.40)	ND(6.50)	ND(6.39)	ND(7.04)	ND(1.90)
Tin		ND(60.0)	ND(73.7)	ND(65.0)	ND(64.0)	ND(70.5)	ND(58.0)
Vanadium		10.0	34.4	14.9	13.0	17.8	9.70
Zinc		280	66.6	105	142	235	69.0

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	I9-9-27-SB-10	I9-9-27-SB-10	I9-9-27-SB-10	I9-9-27-SB-11	I9-9-27-SS-2
Sample Depth(Feet):	0-1	2-4	8-10	2-4	0-1
Parameter Date Collected:	09/21/99	09/21/99	11/28/00	11/22/00	06/24/99
Volatile Organics					
1,1,1,2-Tetrachloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,1,1-Trichloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,1,2,2-Tetrachloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,1,2-Trichloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,1-Dichloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,1-Dichloroethene	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,2,3-Trichloropropane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,2-Dibromo-3-chloropropane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,2-Dibromoethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,2-Dichloroethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,2-Dichloropropane	NS	NS	ND(0.0073)	NS	ND(0.0050)
1,4-Dioxane	NS	NS	ND(0.20)	NS	ND(0.20)
2-Butanone	NS	NS	ND(0.10)	NS	ND(0.10)
2-Chloro-1,3-butadiene	NS	NS	ND(0.0073)	NS	ND(0.0050)
2-Chloroethylvinylether	NS	NS	ND(0.0073)	NS	ND(0.0050)
2-Hexanone	NS	NS	ND(0.014)	NS	ND(0.010)
3-Chloropropene	NS	NS	ND(0.014)	NS	ND(0.010)
4-Methyl-2-pentanone	NS	NS	ND(0.014)	NS	ND(0.010)
Acetone	NS	NS	ND(0.10)	NS	ND(0.10)
Acetonitrile	NS	NS	ND(0.14)	NS	ND(0.10)
Acrolein	NS	NS	ND(0.14)	NS	ND(0.10)
Acrylonitrile	NS	NS	ND(0.014)	NS	ND(0.010)
Benzene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Bromodichloromethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
Bromoform	NS	NS	ND(0.0073)	NS	ND(0.0050)
Bromomethane	NS	NS	ND(0.014)	NS	ND(0.010)
Carbon Disulfide	NS	NS	ND(0.010)	NS	ND(0.010)
Carbon Tetrachloride	NS	NS	ND(0.0073)	NS	ND(0.0050)
Chlorobenzene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Chloroethane	NS	NS	ND(0.014)	NS	ND(0.010)
Chloroform	NS	NS	ND(0.0073)	NS	ND(0.0050)
Chloromethane	NS	NS	ND(0.014)	NS	ND(0.010)
cis-1,3-Dichloropropene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Dibromochloromethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
Dibromomethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
Dichlorodifluoromethane	NS	NS	ND(0.014)	NS	ND(0.010)
Ethyl Methacrylate	NS	NS	ND(0.014)	NS	ND(0.010)
Ethylbenzene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Iodomethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
Isobutanol	NS	NS	ND(0.29)	NS	ND(0.20)
Methacrylonitrile	NS	NS	ND(0.014)	NS	ND(0.010)
Methyl Methacrylate	NS	NS	ND(0.014)	NS	ND(0.010)
Methylene Chloride	NS	NS	ND(0.0073)	NS	ND(0.0050)
Propionitrile	NS	NS	ND(0.073)	NS	ND(0.050)
Styrene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Tetrachloroethene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Toluene	NS	NS	ND(0.0073)	NS	ND(0.0050)
trans-1,2-Dichloroethene	NS	NS	ND(0.0073)	NS	ND(0.0050)
trans-1,3-Dichloropropene	NS	NS	ND(0.0073)	NS	ND(0.0050)
trans-1,4-Dichloro-2-butene	NS	NS	ND(0.014)	NS	ND(0.010)
Trichloroethene	NS	NS	ND(0.0073)	NS	ND(0.0050)
Trichlorofluoromethane	NS	NS	ND(0.0073)	NS	ND(0.0050)
Vinyl Acetate	NS	NS	ND(0.014)	NS	ND(0.010)
Vinyl Chloride	NS	NS	ND(0.014)	NS	ND(0.010)
Xylenes (total)	NS	NS	ND(0.0073)	NS	ND(0.010)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
1,2,4-Trichlorobenzene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
1,2-Dichlorobenzene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
1,2-Diphenylhydrazine	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
1,3,5-Trinitrobenzene	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
1,3-Dichlorobenzene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
1,3-Dinitrobenzene	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
1,4-Dichlorobenzene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
1,4-Naphthoquinone	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
1-Naphthylamine	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
2,3,4,6-Tetrachlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-27-SB-10 0-1 09/21/99	I9-9-27-SB-10 2-4 09/21/99	I9-9-27-SB-10 8-10 11/28/00	I9-9-27-SB-11 2-4 11/22/00	I9-9-27-SS-2 0-1 06/24/99
Semivolatile Organics (continued)					
2,4,5-Trichlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
2,4,6-Trichlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
2,4-Dichlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
2,4-Dimethylphenol	ND(0.87)	1.4 J	ND(0.48)	ND(0.44)	ND(0.40)
2,4-Dinitrophenol	ND(3.9)	ND(39)	ND(2.5)	ND(2.3)	ND(2.0)
2,4-Dinitrotoluene	ND(0.43)	ND(4.3)	ND(2.5)	ND(2.3)	ND(2.0)
2,6-Dichlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
2,6-Dinitrotoluene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
2-Acetylaminofluorene	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
2-Chloronaphthalene	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
2-Chlorophenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
2-Methylnaphthalene	ND(0.85)	21	ND(0.48)	ND(0.44)	ND(0.40)
2-Methylphenol	ND(0.43)	1.2 J	ND(0.48)	ND(0.44)	ND(0.40)
2-Naphthylamine	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
2-Nitroaniline	ND(1.7)	ND(17)	ND(2.5)	ND(2.3)	ND(2.0)
2-Nitrophenol	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
2-Picoline	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
3&4-Methylphenol	ND(0.87)	3.8 J	ND(0.98)	ND(0.90)	ND(0.70)
3,3'-Dichlorobenzidine	ND(0.43)	ND(4.3)	ND(2.5)	ND(2.3)	ND(2.0)
3,3'-Dimethylbenzidine	ND(0.43)	ND(4.3)	ND(2.5)	ND(2.3)	ND(2.0)
3-Methylcholanthrene	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
3-Nitroaniline	ND(1.7)	ND(17)	ND(2.5)	ND(2.3)	ND(2.0)
4,6-Dinitro-2-methylphenol	ND(4.3)	ND(43)	ND(0.48)	ND(0.44)	ND(2.0)
4-Aminobiphenyl	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
4-Bromophenyl-phenylether	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
4-Chloro-3-Methylphenol	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
4-Chloroaniline	ND(0.43)	ND(4.3)	ND(0.98)	ND(0.90)	ND(0.70)
4-Chlorobenzilate	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
4-Chlorophenyl-phenylether	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
4-Nitroaniline	ND(4.3)	ND(43)	ND(2.5)	ND(2.3)	ND(2.0)
4-Nitrophenol	ND(4.3)	ND(43)	ND(2.5)	ND(2.3)	ND(2.0)
4-Nitroquinoline-1-oxide	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
4-Phenylenediamine	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
5-Nitro-o-toluidine	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
7,12-Dimethylbenz(a)anthracene	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
a,a'-Dimethylphenethylamine	ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
Acenaphthene	0.17 J	38	ND(0.48)	ND(0.44)	ND(0.40)
Acenaphthylene	0.11 J	4.6	ND(0.48)	ND(0.44)	ND(0.40)
Acetophenone	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Aniline	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Anthracene	0.47	83	ND(0.48)	0.65	ND(0.40)
Aramite	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
Benzidine	ND(0.43)	ND(4.3)	ND(0.98)	ND(0.90)	ND(0.70)
Benzo(a)anthracene	1.0	85	ND(0.48)	1.9	ND(0.40)
Benzo(a)pyrene	1.2	85	ND(0.48)	1.7	ND(0.40)
Benzo(b)fluoranthene	1.0	75	ND(0.48)	1.4	ND(0.40)
Benzo(g,h,i)perylene	0.52	33	ND(0.48)	1.4	ND(0.40)
Benzo(k)fluoranthene	1.3	55	ND(0.48)	1.3	ND(0.40)
Benzoic Acid	NS	NS	NS	NS	NS
Benzyl Alcohol	ND(1.7)	ND(17)	ND(0.98)	ND(0.90)	ND(0.70)
bis(2-Chloroethoxy)methane	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
bis(2-Chloroethyl)ether	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
bis(2-Chloroisopropyl)ether	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
bis(2-Ethylhexyl)phthalate	0.14 J	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Butylbenzylphthalate	0.18 J	ND(4.3)	ND(0.98)	ND(0.90)	ND(0.70)
Chrysene	1.2	79	ND(0.48)	1.9	ND(0.40)
Diallate	ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
Dibenzo(a,h)anthracene	0.22 J	17	ND(0.98)	ND(0.90)	ND(0.70)
Dibenzofuran	0.11 J	30	ND(0.48)	ND(0.44)	ND(0.40)
Diethylphthalate	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Dimethylphthalate	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Di-n-Butylphthalate	0.10 J	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Di-n-Octylphthalate	ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Dinoseb	NS	NS	NS	NS	NS
Diphenylamine	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Ethyl Methacrylate	NS	NS	NS	NS	NS
Ethyl Methanesulfonate	ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SB-10 0-1 09/21/99	I9-9-27-SB-10 2-4 09/21/99	I9-9-27-SB-10 8-10 11/28/00	I9-9-27-SB-11 2-4 11/22/00	I9-9-27-SS-2 0-1 06/24/99
Semivolatile Organics (continued)						
Fluoranthene		2.5	230	ND(0.48)	3.8	0.50
Fluorene		0.21 J	53	ND(0.48)	ND(0.44)	ND(0.40)
Hexachlorobenzene		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Hexachlorobutadiene		ND(0.43)	ND(4.3)	ND(0.98)	ND(0.90)	ND(2.0)
Hexachlorocyclopentadiene		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Hexachloroethane		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Hexachlorophene		ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
Hexachloropropene		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Indeno(1,2,3-cd)pyrene		0.56	34	ND(0.98)	2.4	ND(0.70)
Isodrin		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Isophorone		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
Isosafrole		ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
Methapyrilene		ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
Methyl Methanesulfonate		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Naphthalene		0.11 J	62	ND(0.48)	ND(0.44)	ND(0.40)
Nitrobenzene		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
N-Nitrosodiethylamine		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
N-Nitrosodimethylamine		ND(0.43)	ND(4.3)	ND(0.98)	ND(0.90)	ND(0.70)
N-Nitroso-di-n-butylamine		ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
N-Nitroso-di-n-propylamine		ND(0.43)	ND(4.3)	ND(0.98)	ND(0.90)	ND(2.0)
N-Nitrosodiphenylamine		ND(0.43)	ND(4.3)	ND(0.48)	ND(0.44)	ND(0.40)
N-Nitrosomethylethylamine		ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
N-Nitrosomorpholine		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
N-Nitrosopiperidine		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
N-Nitrosopyrrolidine		ND(0.87)	ND(8.7)	ND(0.98)	ND(0.90)	ND(0.70)
o,o,o-Triethylphosphorothioate		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
o-Toluidine		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
p-Dimethylaminoazobenzene		ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
Pentachlorobenzene		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Pentachloroethane		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Pentachloronitrobenzene		ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
Pentachlorophenol		ND(4.3)	ND(43)	ND(2.5)	ND(2.3)	ND(2.0)
Phenacetin		ND(0.87)	ND(8.7)	ND(2.5)	ND(2.3)	ND(2.0)
Phenanthrene		1.8	330	ND(0.48)	2.9	ND(0.40)
Phenol		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Pronamide		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Pyrene		2.1	210	ND(0.48)	3.3	0.40
Pyridine		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Safrole		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Sulfotep		NS	NS	NS	NS	NS
Thionazin		ND(0.87)	ND(8.7)	ND(0.48)	ND(0.44)	ND(0.40)
Furans						
2,3,7,8-TCDF		0.000072	0.000014	ND(0.00000016)	NS	0.000034
TCDFs (total)		0.00045	0.000023	ND(0.00000016)	NS	0.0010
1,2,3,7,8-PeCDF		0.000023	0.0000067 J	ND(0.00000012)	NS	0.0000093
2,3,4,7,8-PeCDF		0.000022	ND(0.0000030)	ND(0.00000012)	NS	0.000050
PeCDFs (total)		0.00032	0.000035	ND(0.00000012)	NS	0.0023
1,2,3,4,7,8-HxCDF		0.000036	ND(0.0000079)	ND(0.00000011)	NS	0.000040
1,2,3,6,7,8-HxCDF		0.000017	ND(0.0000083)	ND(0.00000011)	NS	0.00019
1,2,3,7,8,9-HxCDF		ND(0.00000064)	ND(0.0000078)	ND(0.00000014)	NS	0.0000026 J
2,3,4,6,7,8-HxCDF		0.000018	ND(0.0000086)	ND(0.00000011)	NS	0.0000092
HxCDFs (total)		0.00026	0.000072	ND(0.00000011)	NS	0.00047
1,2,3,4,6,7,8-HpCDF		0.00010	ND(0.000017)	ND(0.000000042)	NS	0.000066
1,2,3,4,7,8,9-HpCDF		0.0000073 J	ND(0.000018)	ND(0.000000058)	NS	0.0000065
HpCDFs (total)		0.00021	ND(0.000018)	ND(0.000000042)	NS	0.00015
OCDF		0.00016	ND(0.0000054)	ND(0.00000015)	NS	0.00015
Dioxins						
2,3,7,8-TCDD		ND(0.00000076)	ND(0.0000048)	ND(0.00000013)	NS	ND(0.00000015)
TCDDs (total)		0.0000088	ND(0.0000048)	ND(0.00000013)	NS	0.0000014
1,2,3,7,8-PeCDD		ND(0.00000081)	ND(0.0000026)	ND(0.00000023)	NS	ND(0.00000080)
PeCDDs (total)		0.0000032 J	ND(0.0000026)	ND(0.00000023)	NS	0.00000092
1,2,3,4,7,8-HxCDD		ND(0.00000054)	ND(0.000013)	ND(0.00000013)	NS	0.0000018 J
1,2,3,6,7,8-HxCDD		0.0000095 J	ND(0.000016)	ND(0.00000012)	NS	0.0000057
1,2,3,7,8,9-HxCDD		0.0000043 J	ND(0.000015)	ND(0.00000012)	NS	0.0000040
HxCDDs (total)		0.000066	ND(0.000016)	ND(0.00000012)	NS	0.000037
1,2,3,4,6,7,8-HpCDD		0.00017	ND(0.000031)	0.00000041	NS	0.00016
HpCDDs (total)		0.00028	ND(0.000031)	0.00000041	NS	0.00027
OCDD		0.0019	ND(0.000017)	0.0000021 B	NS	0.0025 E
Total TEQs (WHO TEFs)		0.000032	0.000010	0.00000027	NS	0.000058

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SB-10 0-1 09/21/99	I9-9-27-SB-10 2-4 09/21/99	I9-9-27-SB-10 8-10 11/28/00	I9-9-27-SB-11 2-4 11/22/00	I9-9-27-SS-2 0-1 06/24/99
Inorganics						
Aluminum		NS	NS	NS	NS	NS
Antimony		ND(8.76)	ND(9.75)	ND(13.0)	ND(12.0)	ND(9.80)
Arsenic		28.8	20.2	ND(22.0)	ND(20.0)	ND(16.3)
Barium		165	278	ND(44.0)	120	91.2
Beryllium		ND(0.725)	ND(0.819)	0.280	0.300	0.320
Cadmium		1.55	4.03	ND(2.20)	ND(2.00)	ND(1.60)
Calcium		NS	NS	NS	NS	NS
Chromium		88.6	48.5	6.90	12.0	43.6
Cobalt		12.7	8.45	ND(11.0)	ND(10.0)	9.10
Copper		117	779	ND(22.0)	64.0	42.3
Cyanide		NS	NS	ND(1.00)	NS	ND(1.10)
Iron		NS	NS	NS	NS	NS
Lead		284	828	12.0	160	121
Magnesium		NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS
Mercury		1.05	1.11	ND(0.290)	2.20	1.70
Nickel		30.8	24.7	22.0	18.0	16.6
Potassium		NS	NS	NS	NS	NS
Selenium		1.68	3.12	ND(1.10)	ND(1.00)	ND(0.810)
Silver		1.68	64.8	ND(1.10)	ND(1.00)	ND(0.810)
Sodium		NS	NS	NS	NS	NS
Sulfide		NS	NS	250	NS	8.70
Thallium		ND(7.29)	ND(8.13)	ND(2.20)	ND(2.00)	ND(1.60)
Tin		ND(73.0)	134	ND(66.0)	ND(61.0)	ND(48.8)
Vanadium		31.2	34.5	ND(11.0)	10.0	11.2
Zinc		387	2080	62.0	240	187

TABLE 2-5
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PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-3 0-1 06/24/99	I9-9-27-SS-4 0-1 11/28/00	I9-9-27-SS-4 8-10 11/28/00	I9-9-27-SS-4 14-16 11/28/00
Volatile Organics					
1,1,1,2-Tetrachloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,1,1-Trichloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,1,2,2-Tetrachloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,1,2-Trichloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,1-Dichloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,1-Dichloroethene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,2,3-Trichloropropane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,2-Dibromo-3-chloropropane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,2-Dibromoethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,2-Dichloroethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,2-Dichloropropane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
1,4-Dioxane		ND(0.20) [ND(0.20)]	ND(0.20)	ND(0.20)	ND(0.20) [ND(0.20)]
2-Butanone		ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)	ND(0.10) [ND(0.10)]
2-Chloro-1,3-butadiene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
2-Chloroethylvinylether		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
2-Hexanone		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
3-Chloropropene		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
4-Methyl-2-pentanone		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Acetone		ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)	ND(0.10) [ND(0.10)]
Acetonitrile		ND(0.10) [ND(0.10)]	ND(0.12)	ND(0.13)	ND(0.14) [ND(0.14)]
Acrolein		ND(0.10) [ND(0.10)]	ND(0.12)	ND(0.13)	ND(0.14) [ND(0.14)]
Acrylonitrile		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Benzene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Bromodichloromethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Bromoform		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Bromomethane		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Carbon Disulfide		ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Carbon Tetrachloride		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Chlorobenzene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Chloroethane		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Chloroform		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Chloromethane		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
cis-1,3-Dichloropropene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Dibromochloromethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Dibromomethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Dichlorodifluoromethane		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Ethyl Methacrylate		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Ethylbenzene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Iodomethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Isobutanol		ND(0.20) [ND(0.20)]	ND(0.25)	ND(0.27)	ND(0.27) [ND(0.28)]
Methacrylonitrile		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Methyl Methacrylate		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Methylene Chloride		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Propionitrile		ND(0.050) [ND(0.050)]	ND(0.062)	ND(0.067)	ND(0.068) [ND(0.070)]
Styrene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Tetrachloroethene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Toluene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
trans-1,2-Dichloroethene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
trans-1,3-Dichloropropene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
trans-1,4-Dichloro-2-butene		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Trichloroethene		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Trichlorofluoromethane		ND(0.0050) [ND(0.0050)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Vinyl Acetate		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Vinyl Chloride		ND(0.010) [ND(0.010)]	ND(0.012)	ND(0.013)	ND(0.014) [ND(0.014)]
Xylenes (total)		ND(0.010) [ND(0.010)]	ND(0.0062)	ND(0.0067)	ND(0.0068) [ND(0.0070)]
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,2,4-Trichlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,2-Dichlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,2-Diphenylhydrazine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,3,5-Trinitrobenzene		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
1,3-Dichlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,3-Dinitrobenzene		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
1,4-Dichlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
1,4-Naphthoquinone		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
1-Naphthylamine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
2,3,4,6-Tetrachlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-3 0-1 06/24/99	I9-9-27-SS-4 0-1 11/28/00	I9-9-27-SS-4 8-10 11/28/00	I9-9-27-SS-4 14-16 11/28/00
Semivolatile Organics (continued)					
2,4,5-Trichlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2,4,6-Trichlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2,4-Dichlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2,4-Dimethylphenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2,4-Dinitrophenol		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
2,4-Dinitrotoluene		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
2,6-Dichlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2,6-Dinitrotoluene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2-Acetylaminofluorene		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(2.3)]
2-Chloronaphthalene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2-Chlorophenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2-Methylnaphthalene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2-Methylphenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
2-Naphthylamine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
2-Nitroaniline		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
2-Nitrophenol		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
2-Picoline		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
3&4-Methylphenol		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
3,3'-Dichlorobenzidine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
3,3'-Dimethylbenzidine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
3-Methylcholanthrene		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
3-Nitroaniline		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
4,6-Dinitro-2-methylphenol		ND(2.0) [ND(2.0)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
4-Aminobiphenyl		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
4-Bromophenyl-phenylether		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
4-Chloro-3-Methylphenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
4-Chloroaniline		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
4-Chlorobenzilate		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
4-Chlorophenyl-phenylether		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
4-Nitroaniline		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
4-Nitrophenol		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
4-Nitroquinoline-1-oxide		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
4-Phenylenediamine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
5-Nitro-o-toluidine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
7,12-Dimethylbenz(a)anthracene		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
a,a'-Dimethylphenethylamine		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Acenaphthene		1.0 [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Acenaphthylene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Acetophenone		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Aniline		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Anthracene		3.0 [0.70]	0.86	ND(0.44)	ND(0.45) [ND(0.46)]
Aramite		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Benzidine		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Benzo(a)anthracene		7.0 [2.0]	2.7	ND(0.44)	ND(0.45) [ND(0.46)]
Benzo(a)pyrene		6.0 [2.0]	2.5	ND(0.44)	ND(0.45) [ND(0.46)]
Benzo(b)fluoranthene		8.0 [3.0]	1.8	ND(0.44)	ND(0.45) [ND(0.46)]
Benzo(g,h,i)perylene		4.0 [1.0]	1.9	ND(0.44)	ND(0.45) [ND(0.46)]
Benzo(k)fluoranthene		2.0 [1.0]	2.4	ND(0.44)	ND(0.45) [ND(0.46)]
Benzoic Acid		NS	NS	NS	NS
Benzyl Alcohol		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
bis(2-Chloroethoxy)methane		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
bis(2-Chloroethyl)ether		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
bis(2-Chloroisopropyl)ether		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
bis(2-Ethylhexyl)phthalate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Butylbenzylphthalate		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Chrysene		7.0 [2.0]	2.7	ND(0.44)	ND(0.45) [ND(0.46)]
Diallate		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Dibenzo(a,h)anthracene		1.0 [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Dibenzofuran		0.70 [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Diethylphthalate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Dimethylphthalate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Di-n-Butylphthalate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Di-n-Octylphthalate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Dinoseb		NS	NS	NS	NS
Diphenylamine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.44) [ND(0.46)]
Ethyl Methacrylate		NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-3 0-1 06/24/99	I9-9-27-SS-4 0-1 11/28/00	I9-9-27-SS-4 8-10 11/28/00	I9-9-27-SS-4 14-16 11/28/00
Semivolatile Organics (continued)					
Fluoranthene		21 [5.0]	5.1	ND(0.44)	ND(0.45) [ND(0.46)]
Fluorene		1.0 [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Hexachlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Hexachlorobutadiene		ND(2.0) [ND(2.0)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Hexachlorocyclopentadiene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Hexachloroethane		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Hexachlorophene		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(2.3)]
Hexachloropropene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Indeno(1,2,3-cd)pyrene		5.0 [2.0]	1.6	ND(0.89)	ND(0.90) [ND(0.93)]
Isodrin		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.93)]
Isophorone		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Isosafrole		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
Methapyrilene		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Methyl Methanesulfonate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Naphthalene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Nitrobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
N-Nitrosodiethylamine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
N-Nitrosodimethylamine		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
N-Nitroso-di-n-butylamine		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
N-Nitroso-di-n-propylamine		ND(2.0) [ND(2.0)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
N-Nitrosodiphenylamine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
N-Nitrosomethylethylamine		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
N-Nitrosomorpholine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
N-Nitrosopiperidine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
N-Nitrosopyrrolidine		ND(0.70) [ND(0.70)]	ND(0.82)	ND(0.89)	ND(0.90) [ND(0.93)]
o,o,o-Triethylphosphorothioate		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.93)]
o-Toluidine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
p-Dimethylaminoazobenzene		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Pentachlorobenzene		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Pentachloroethane		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Pentachloronitrobenzene		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Pentachlorophenol		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Phenacetin		ND(2.0) [ND(2.0)]	ND(2.1)	ND(2.3)	ND(2.3) [ND(2.4)]
Phenanthrene		18 [3.0]	3.9	ND(0.44)	ND(0.45) [ND(0.46)]
Phenol		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Pronamide		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(2.3)]
Pyrene		16 [4.0]	4.2	ND(0.44)	ND(0.45) [ND(0.46)]
Pyridine		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Safrole		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(0.46)]
Sulfotep		NS	NS	NS	NS
Thionazin		ND(0.40) [ND(0.40)]	ND(0.41)	ND(0.44)	ND(0.45) [ND(2.3)]
Furans					
2,3,7,8-TCDF		0.000096 [0.00010]	0.000028	ND(0.00000022)	ND(0.00000025) [ND(0.00000014)]
TCDFs (total)		0.00042 [0.00050]	0.00012	ND(0.00000022)	ND(0.00000025) [ND(0.00000014)]
1,2,3,7,8-PeCDF		0.000019 [0.000026]	ND(0.0000099) X	ND(0.00000027)	ND(0.00000025) [ND(0.000000094)]
2,3,4,7,8-PeCDF		0.000020 [0.000024]	ND(0.0000062) X	ND(0.00000026)	ND(0.00000024) [ND(0.000000092)]
PeCDFs (total)		0.00028 [0.00029]	0.000088	ND(0.00000026)	ND(0.00000024) [ND(0.000000092)]
1,2,3,4,7,8-HxCDF		0.000031 [0.000034]	0.000047 I	ND(0.00000015)	ND(0.00000012) [ND(0.00000013) X]
1,2,3,6,7,8-HxCDF		0.000015 [0.000017]	ND(0.0000018)	ND(0.00000015)	ND(0.00000012) [ND(0.000000061)]
1,2,3,7,8,9-HxCDF		0.00000047 J [ND(0.00000063)]	ND(0.0000024)	ND(0.00000019)	ND(0.00000015) [ND(0.000000078)]
2,3,4,6,7,8-HxCDF		0.0000079 [0.0000079]	0.0000047	ND(0.00000015)	ND(0.00000012) [ND(0.000000061)]
HxCDFs (total)		0.00017 [0.00018]	0.000060	ND(0.00000015)	ND(0.00000012) [0.00000038]
1,2,3,4,6,7,8-HpCDF		0.000059 [0.000066]	0.000025	ND(0.000000082)	ND(0.000000074) [ND(0.00000038) X]
1,2,3,4,7,8,9-HpCDF		0.0000087 [0.0000087]	0.0000037	ND(0.00000011)	ND(0.00000010) [ND(0.000000091)]
HpCDFs (total)		0.00013 [0.00015]	0.000029	ND(0.000000082)	ND(0.000000074) [ND(0.000000066)]
OCDF		0.00014 [0.00014]	0.000026	ND(0.00000011)	ND(0.00000010) [0.00000098]
Dioxins					
2,3,7,8-TCDD		0.0000011 J [0.0000017]	ND(0.00000068)	ND(0.00000028)	ND(0.00000038) [ND(0.00000015)]
TCDDs (total)		0.000011 [0.0000042]	0.0000042	ND(0.00000028)	ND(0.00000038) [ND(0.00000015)]
1,2,3,7,8-PeCDD		0.0000025 [0.0000034]	ND(0.00000087)	ND(0.00000043)	ND(0.00000036) [ND(0.00000022)]
PeCDDs (total)		0.000011 [0.0000034]	ND(0.00000087)	ND(0.00000043)	ND(0.00000036) [ND(0.00000022)]
1,2,3,4,7,8-HxCDD		0.0000015 J [0.0000019 J]	ND(0.00000072)	ND(0.00000025)	ND(0.00000019) [ND(0.00000015)]
1,2,3,6,7,8-HxCDD		0.0000071 [0.0000095]	0.0000012	ND(0.00000024)	ND(0.00000018) [ND(0.00000014)]
1,2,3,7,8,9-HxCDD		0.0000039 [0.0000033]	ND(0.00000068)	ND(0.00000024)	ND(0.00000018) [ND(0.00000014)]
HxCDDs (total)		0.000019 [0.000043]	0.0000013	ND(0.00000024)	ND(0.00000018) [ND(0.00000014)]
1,2,3,4,6,7,8-HpCDD		0.00011 [0.00012]	0.000019	ND(0.00000044) X	ND(0.00000011) [0.0000023]
HpCDDs (total)		0.00020 [0.00021]	0.000040	ND(0.00000014)	ND(0.00000011) [0.0000039]
OCDD		0.0013 [0.0013]	0.00010 B	0.0000021 B	0.0000016 B [0.000019 B]
Total TEQs (WHO TEFs)		0.000033 [0.000038]	0.000011	0.00000051	0.00000050 [0.00000028]

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-3 0-1 06/24/99	I9-9-27-SS-4 0-1 11/28/00	I9-9-27-SS-4 8-10 11/28/00	I9-9-27-SS-4 14-16 11/28/00
Inorganics					
Aluminum		NS	NS	NS	NS
Antimony		ND(9.80) [ND(9.70)]	ND(11.0)	ND(12.0)	ND(12.0) [ND(12.0)]
Arsenic		ND(16.2) [ND(16.2)]	ND(18.0)	ND(20.0)	ND(20.0) [ND(21.0)]
Barium		90.4 [107]	120	ND(40.0)	ND(40.0) [ND(42.0)]
Beryllium		0.250 [0.340]	0.300	0.300	0.340 [0.270]
Cadmium		ND(1.60) [ND(1.60)]	ND(1.80)	ND(2.00)	ND(2.00) [ND(2.10)]
Calcium		NS	NS	NS	NS
Chromium		36.5 [43.4]	12.0	6.70	6.30 [5.70]
Cobalt		ND(8.10) [10.4]	10.0	ND(10.0)	ND(10.0) [ND(10.0)]
Copper		59.4 [99.9]	64.0	ND(20.0)	ND(20.0) [ND(21.0)]
Cyanide		ND(1.10) [ND(1.10)]	ND(1.00)	ND(1.00)	ND(1.00) [ND(1.00)]
Iron		NS	NS	NS	NS
Lead		195 [196]	220	6.60	5.40 [4.80]
Magnesium		NS	NS	NS	NS
Manganese		NS	NS	NS	NS
Mercury		1.40 [1.30]	0.570	ND(0.270)	ND(0.270) [ND(0.280)]
Nickel		16.0 [22.9]	22.0	16.0	13.0 [11.0]
Potassium		NS	NS	NS	NS
Selenium		ND(0.810) [0.930]	ND(0.920)	ND(1.00)	ND(1.00) [ND(1.00)]
Silver		ND(0.810) [ND(0.810)]	ND(0.920)	ND(1.00)	ND(1.00) [ND(1.00)]
Sodium		NS	NS	NS	NS
Sulfide		34.7 [31.3]	12.0	ND(6.70)	98.0 [92.0]
Thallium		ND(1.60) [ND(1.60)]	ND(1.80)	ND(2.00)	ND(2.00) [ND(2.10)]
Tin		ND(48.8) [ND(48.6)]	ND(55.0)	ND(60.0)	ND(61.0) [ND(63.0)]
Vanadium		12.0 [14.2]	14.0	ND(10.0)	ND(10.0) [ND(10.0)]
Zinc		222 [252]	210	38.0	32.0 [30.0]

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	I9-9-27-SS-16	I9-9-27-SS-16	I9-9-28-SB-1	I9-9-28-SB-1	I9-9-28-SB-1	I9-9-28-SB-2
Sample Depth(Feet):	0-1	6-8	0-1	6-8	8-10	0-1
Parameter Date Collected:	11/28/00	11/28/00	06/24/99	12/01/97	12/04/00	06/24/99
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,1-Dichloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,1-Dichloroethene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,2,3-Trichloropropane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,2-Dibromoethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,2-Dichloroethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,2-Dichloropropane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
1,4-Dioxane	ND(0.20)	ND(0.20)	ND(0.20)	ND(2.7)	NS	ND(0.20)
2-Butanone	ND(0.10)	ND(0.10)	ND(0.10)	NS	NS	ND(0.10)
2-Chloro-1,3-butadiene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
2-Chloroethylvinylether	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
2-Hexanone	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
3-Chloropropene	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
4-Methyl-2-pentanone	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Acetone	ND(0.10)	ND(0.10)	ND(0.10)	NS	NS	ND(0.10)
Acetonitrile	ND(0.13)	ND(0.12)	ND(0.10)	NS	NS	ND(0.10)
Acrolein	ND(0.13)	ND(0.12)	ND(0.10)	NS	NS	ND(0.10)
Acrylonitrile	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Benzene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Bromodichloromethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Bromoform	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Bromomethane	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Carbon Disulfide	ND(0.010)	ND(0.010)	ND(0.010)	NS	NS	ND(0.010)
Carbon Tetrachloride	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Chlorobenzene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Chloroethane	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Chloroform	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Chloromethane	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
cis-1,3-Dichloropropene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Dibromochloromethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Dibromomethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Dichlorodifluoromethane	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Ethyl Methacrylate	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Ethylbenzene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Iodomethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Isobutanol	ND(0.26)	ND(0.25)	ND(0.20)	NS	NS	ND(0.20)
Methacrylonitrile	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Methyl Methacrylate	ND(0.013)	ND(0.012)	ND(0.010)	ND(2.7)	NS	ND(0.010)
Methylene Chloride	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Propionitrile	ND(0.064)	ND(0.062)	ND(0.050)	NS	NS	ND(0.050)
Styrene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Tetrachloroethene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Toluene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Trichloroethene	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Trichlorofluoromethane	ND(0.0064)	ND(0.0062)	ND(0.0050)	NS	NS	ND(0.0050)
Vinyl Acetate	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Vinyl Chloride	ND(0.013)	ND(0.012)	ND(0.010)	NS	NS	ND(0.010)
Xylenes (total)	ND(0.0064)	ND(0.0062)	ND(0.010)	NS	NS	ND(0.010)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
1,2,4-Trichlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	1.1 J	ND(0.56)	ND(0.40)
1,2-Dichlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
1,2-Diphenylhydrazine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
1,3,5-Trinitrobenzene	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
1,3-Dichlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	0.32 J	ND(0.56)	ND(0.40)
1,3-Dinitrobenzene	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
1,4-Dichlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	1.2 J	ND(0.56)	ND(0.40)
1,4-Naphthoquinone	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
1-Naphthylamine	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
2,3,4,6-Tetrachlorophenol	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-16 0-1 11/28/00	I9-9-27-SS-16 6-8 11/28/00	I9-9-28-SB-1 0-1 06/24/99	I9-9-28-SB-1 6-8 12/01/97	I9-9-28-SB-1 8-10 12/04/00	I9-9-28-SB-2 0-1 06/24/99
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(13)	ND(0.56)	ND(0.40)
2,4,6-Trichlorophenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2,4-Dichlorophenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2,4-Dimethylphenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2,4-Dinitrophenol		ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
2,4-Dinitrotoluene		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
2,6-Dichlorophenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2,6-Dinitrotoluene		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2-Acetylaminofluorene		ND(2.1)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
2-Chloronaphthalene		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2-Chlorophenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2-Methylnaphthalene		ND(0.43)	ND(0.41)	ND(0.40)	0.28 J	ND(0.56)	ND(0.40)
2-Methylphenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
2-Naphthylamine		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
2-Nitroaniline		ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
2-Nitrophenol		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
2-Picoline		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
3&4-Methylphenol		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
3,3'-Dichlorobenzidine		ND(2.2)	ND(2.1)	ND(2.0)	ND(5.3)	ND(2.9)	ND(2.0)
3,3'-Dimethylbenzidine		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
3-Methylcholanthrene		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
3-Nitroaniline		ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
4,6-Dinitro-2-methylphenol		ND(0.43)	ND(0.41)	ND(2.0)	ND(13)	ND(0.56)	ND(2.0)
4-Aminobiphenyl		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
4-Bromophenyl-phenylether		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
4-Chloro-3-Methylphenol		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
4-Chloroaniline		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
4-Chlorobenzilate		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
4-Chlorophenyl-phenylether		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
4-Nitroaniline		ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
4-Nitrophenol		ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
4-Nitroquinoline-1-oxide		ND(2.2)	ND(2.1)	ND(2.0)	ND(5.3)	ND(2.9)	ND(2.0)
4-Phenylenediamine		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
5-Nitro-o-toluidine		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
7,12-Dimethylbenz(a)anthracene		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
a,a'-Dimethylphenethylamine		ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
Acenaphthene		ND(0.43)	ND(0.41)	ND(0.40)	1.3 J	ND(0.56)	0.60
Acenaphthylene		ND(0.43)	ND(0.41)	ND(0.40)	0.43 J	ND(0.56)	ND(0.40)
Acetophenone		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Aniline		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Anthracene		ND(0.43)	ND(0.41)	ND(0.40)	3.1	ND(0.56)	1.0
Aramite		ND(0.86)	ND(0.83)	ND(0.70)	ND(5.3)	ND(1.1)	ND(0.70)
Benzidine		ND(0.86)	ND(0.83)	ND(0.70)	ND(27)	ND(1.1)	ND(0.70)
Benzo(a)anthracene		0.64	ND(0.41)	0.50	10	1.1	2.0
Benzo(a)pyrene		0.63	ND(0.41)	0.50	8.6	0.98	1.0
Benzo(b)fluoranthene		0.58	ND(0.40)	0.70	9.4	1.0	2.0
Benzo(g,h,i)perylene		0.66	ND(0.41)	ND(0.40)	5.3	0.67	0.80
Benzo(k)fluoranthene		0.53	ND(0.41)	ND(0.40)	8.8	0.78	0.80
Benzoic Acid		NS	NS	NS	ND(13)	NS	NS
Benzyl Alcohol		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
bis(2-Chloroethoxy)methane		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
bis(2-Chloroethyl)ether		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
bis(2-Chloroisopropyl)ether		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
bis(2-Ethylhexyl)phthalate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Butylbenzylphthalate		ND(0.86)	ND(0.83)	0.40	ND(2.7)	ND(1.1)	0.60
Chrysene		0.70	ND(0.41)	0.60	12	0.99	2.0
Diallate		ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
Dibenzo(a,h)anthracene		ND(0.86)	ND(0.83)	ND(0.70)	2.4 J	ND(1.1)	ND(0.70)
Dibenzofuran		ND(0.43)	ND(0.41)	ND(0.40)	0.73 J	ND(0.56)	ND(0.40)
Diethylphthalate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Dimethylphthalate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Di-n-Butylphthalate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	0.40
Di-n-Octylphthalate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Dinoseb		NS	NS	NS	ND(13)	NS	NS
Diphenylamine		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Ethyl Methacrylate		NS	NS	NS	ND(2.7)	NS	NS
Ethyl Methanesulfonate		ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-27-SS-16 0-1 11/28/00	I9-9-27-SS-16 6-8 11/28/00	I9-9-28-SB-1 0-1 06/24/99	I9-9-28-SB-1 6-8 12/01/97	I9-9-28-SB-1 8-10 12/04/00	I9-9-28-SB-2 0-1 06/24/99
Semivolatile Organics (continued)						
Fluoranthene	1.1	ND(0.41)	1.0	23	2.1	4.0
Fluorene	ND(0.43)	ND(0.41)	ND(0.40)	2.9	ND(0.56)	0.50
Hexachlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Hexachlorobutadiene	ND(0.86)	ND(0.83)	ND(2.0)	ND(2.7)	ND(1.1)	ND(2.0)
Hexachlorocyclopentadiene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Hexachloroethane	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Hexachlorophene	ND(2.1)	ND(0.83)	ND(0.70)	ND(27)	ND(1.1)	ND(0.70)
Hexachloropropene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Indeno(1,2,3-cd)pyrene	0.84 J	ND(0.83)	0.40	5.6	ND(1.1)	1.0
Isodrin	ND(0.86)	ND(0.41)	ND(0.40)	NS	ND(0.56)	ND(0.40)
Isophorone	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Isosafrole	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
Methapyrilene	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
Methyl Methanesulfonate	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Naphthalene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	0.57	0.40
Nitrobenzene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
N-Nitrosodiethylamine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
N-Nitrosodimethylamine	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(2.8)	ND(0.70)
N-Nitroso-di-n-butylamine	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
N-Nitroso-di-n-propylamine	ND(0.86)	ND(0.83)	ND(2.0)	ND(2.7)	ND(1.1)	ND(2.0)
N-Nitrosodiphenylamine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
N-Nitrosomethylethylamine	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
N-Nitrosomorpholine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
N-Nitrosopiperidine	ND(0.43)	ND(0.41)	ND(0.40)	ND(13)	ND(0.56)	ND(0.40)
N-Nitrosopyrrolidine	ND(0.86)	ND(0.83)	ND(0.70)	ND(2.7)	ND(1.1)	ND(0.70)
o,o,o-Triethylphosphorothioate	ND(0.86)	ND(0.41)	ND(0.40)	NS	ND(0.56)	ND(0.40)
o-Toluidine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
p-Dimethylaminoazobenzene	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
Pentachlorobenzene	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Pentachloroethane	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Pentachloronitrobenzene	ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
Pentachlorophenol	ND(2.2)	ND(2.1)	ND(2.0)	ND(13)	ND(2.9)	ND(2.0)
Phenacetin	ND(2.2)	ND(2.1)	ND(2.0)	ND(2.7)	ND(2.9)	ND(2.0)
Phenanthrene	0.68	ND(0.41)	0.60	11	1.4	4.0
Phenol	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Pronamide	ND(2.1)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Pyrene	1.0	ND(0.41)	0.90	19	1.6	3.0
Pyridine	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Safrole	ND(0.43)	ND(0.41)	ND(0.40)	ND(2.7)	ND(0.56)	ND(0.40)
Sulfotep	NS	NS	NS	NS	NS	NS
Thionazin	ND(2.1)	ND(0.41)	ND(0.40)	NS	ND(0.56)	ND(0.40)
Furans						
2,3,7,8-TCDF	0.000042	ND(0.000000098)	0.000038	0.000072	NS	0.00016
TCDFs (total)	0.00022	ND(0.000000098)	0.00015	0.00015	NS	0.0020
1,2,3,7,8-PeCDF	ND(0.000015) X	ND(0.00000010)	0.000013	0.000021	NS	0.000013
2,3,4,7,8-PeCDF	0.000014	ND(0.00000010)	0.000013	0.000017	NS	0.000075
PeCDFs (total)	0.00018	ND(0.00000010)	0.000098	0.00013	NS	0.0024
1,2,3,4,7,8-HxCDF	0.000074 I	ND(0.000000073)	0.000018	0.000087	NS	0.000048
1,2,3,6,7,8-HxCDF	ND(0.0000032)	ND(0.000000074)	0.0000097	0.000023	NS	0.00018
1,2,3,7,8,9-HxCDF	ND(0.0000042)	ND(0.000000094)	0.00000058 J	0.0000093	NS	0.0000031
2,3,4,6,7,8-HxCDF	0.0000087	ND(0.000000074)	0.0000065	0.0000062	NS	0.0000088
HxCDFs (total)	0.00011	ND(0.000000074)	0.00010	0.00023	NS	0.00052
1,2,3,4,6,7,8-HpCDF	0.000047	ND(0.000000058)	0.000043	0.000027	NS	0.000035
1,2,3,4,7,8,9-HpCDF	0.0000041	ND(0.000000080)	0.0000042	0.000041	NS	0.000011
HpCDFs (total)	0.000055	ND(0.000000058)	0.000089	0.00011	NS	0.000071
OCDF	0.000050	ND(0.00000012) X	0.000048	0.000027	NS	0.000037
Dioxins						
2,3,7,8-TCDD	ND(0.00000038)	ND(0.00000013)	0.00000077 J	ND(0.00000066)	NS	0.00000051 J
TCDDs (total)	0.0000063	ND(0.00000013)	0.00000077	0.00000066	NS	0.0000022
1,2,3,7,8-PeCDD	ND(0.0000013)	ND(0.00000022)	0.0000033	ND(0.00000066)	NS	0.0011
PeCDDs (total)	ND(0.0000013)	ND(0.00000022)	0.0000067	0.00000060	NS	0.000020
1,2,3,4,7,8-HxCDD	ND(0.00000083)	ND(0.00000011)	0.0000011 J	0.0000012 J	NS	0.00000062 J
1,2,3,6,7,8-HxCDD	ND(0.0000015) X	ND(0.00000011)	0.0000046	0.0000023	NS	0.0000023 J
1,2,3,7,8,9-HxCDD	ND(0.00000078)	ND(0.00000011)	0.0000018 J	ND(0.0000016)	NS	0.0000070
HxCDDs (total)	ND(0.00000079)	ND(0.00000011)	0.000019	0.0000034	NS	0.000016
1,2,3,4,6,7,8-HpCDD	0.000047	ND(0.00000025) X	0.000037	0.0000083	NS	0.000015
HpCDDs (total)	0.000086	ND(0.00000010)	0.000067	0.000015	NS	0.000026
OCDD	0.00023 B	ND(0.0000012) XB	0.00023	0.000044	NS	0.00013
Total TEQs (WHO TEFs)	0.000022	0.00000024	0.000020	0.000031	NS	0.0012

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-27-SS-16 0-1 11/28/00	I9-9-27-SS-16 6-8 11/28/00	I9-9-28-SB-1 0-1 06/24/99	I9-9-28-SB-1 6-8 12/01/97	I9-9-28-SB-1 8-10 12/04/00	I9-9-28-SB-2 0-1 06/24/99
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(12.0)	ND(11.0)	ND(9.40)	19.2	ND(15.0)	ND(9.30)
Arsenic		ND(19.0)	ND(18.0)	ND(15.6)	51.3	ND(25.0)	ND(15.5)
Barium		110	ND(37.0)	75.1	124	74.0	116
Beryllium		0.280	0.320	0.300	0.280	0.440	0.370
Cadmium		ND(1.90)	ND(1.80)	ND(1.60)	26.0	ND(2.50)	3.30
Calcium		NS	NS	NS	NS	NS	NS
Chromium		12.0	6.60	19.6	26.1	11.0	61.6
Cobalt		ND(9.70)	ND(9.30)	ND(7.80)	4.20	ND(13.0)	10.2
Copper		56.0	ND(18.0)	62.0	860	44.0	46.3
Cyanide		ND(1.00)	ND(1.00)	ND(1.00)	ND(0.800)	NS	ND(1.00)
Iron		NS	NS	NS	NS	NS	NS
Lead		420	11.0	145	1220	150	3180
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.720	ND(0.250)	0.750	6.20	ND(0.340)	0.450
Nickel		16.0	13.0	14.2	41.1	19.0	21.2
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(0.970)	ND(0.930)	ND(0.780)	ND(6.80)	ND(1.30)	ND(0.780)
Silver		ND(0.970)	ND(0.930)	ND(0.780)	1.10	ND(1.30)	ND(0.780)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		ND(6.40)	9.80	21.9	56.7	NS	13.5
Thallium		ND(1.90)	ND(1.80)	ND(1.60)	ND(5.50)	ND(2.50)	ND(1.60)
Tin		ND(58.0)	ND(56.0)	ND(47.0)	45.2	ND(76.0)	ND(46.6)
Vanadium		11.0	ND(9.30)	15.4	12.0	ND(13.0)	16.2
Zinc		340	36.0	150	484	240	3830

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-2 6-8 12/01/97	I9-9-28-SB-3 0-1 09/21/99	I9-9-28-SB-3 2-4 12/01/97	I9-9-28-SB-3 8-10 12/04/00	I9-9-28-SB-8 2-4 09/21/99	I9-9-28-SB-8 12-14 11/28/00
Volatile Organics							
1,1,1,2-Tetrachloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,1,1-Trichloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,1,2,2-Tetrachloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,1,2-Trichloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,1-Dichloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,1-Dichloroethene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,2,3-Trichloropropane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,2-Dibromo-3-chloropropane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,2-Dibromoethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,2-Dichloroethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,2-Dichloropropane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
1,4-Dioxane		ND(0.45)	NS	ND(0.38)	ND(0.20)	NS	ND(0.21)
2-Butanone		NS	NS	NS	ND(0.10)	NS	ND(0.10)
2-Chloro-1,3-butadiene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
2-Chloroethylvinylether		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
2-Hexanone		NS	NS	NS	ND(0.014)	NS	ND(0.021)
3-Chloropropene		NS	NS	NS	ND(0.014)	NS	ND(0.021)
4-Methyl-2-pentanone		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Acetone		NS	NS	NS	ND(0.10)	NS	ND(0.10)
Acetonitrile		NS	NS	NS	ND(0.14)	NS	ND(0.21)
Acrolein		NS	NS	NS	ND(0.14)	NS	ND(0.21)
Acrylonitrile		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Benzene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Bromodichloromethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Bromoform		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Bromomethane		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Carbon Disulfide		NS	NS	NS	ND(0.010)	NS	ND(0.010)
Carbon Tetrachloride		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Chlorobenzene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Chloroethane		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Chloroform		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Chloromethane		NS	NS	NS	ND(0.014)	NS	ND(0.021)
cis-1,3-Dichloropropene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Dibromochloromethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Dibromomethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Dichlorodifluoromethane		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Ethyl Methacrylate		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Ethylbenzene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Iodomethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Isobutanol		NS	NS	NS	ND(0.27)	NS	ND(0.42)
Methacrylonitrile		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Methyl Methacrylate		ND(0.45)	NS	ND(0.38)	ND(0.014)	NS	ND(0.021)
Methylene Chloride		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Propionitrile		NS	NS	NS	ND(0.068)	NS	ND(0.10)
Styrene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Tetrachloroethene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Toluene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
trans-1,2-Dichloroethene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
trans-1,3-Dichloropropene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
trans-1,4-Dichloro-2-butene		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Trichloroethene		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Trichlorofluoromethane		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Vinyl Acetate		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Vinyl Chloride		NS	NS	NS	ND(0.014)	NS	ND(0.021)
Xylenes (total)		NS	NS	NS	ND(0.0068)	NS	ND(0.010)
Semivolatile Organics							
1,2,4,5-Tetrachlorobenzene		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
1,2,4-Trichlorobenzene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
1,2-Dichlorobenzene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
1,2-Diphenylhydrazine		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
1,3,5-Trinitrobenzene		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
1,3-Dichlorobenzene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
1,3-Dinitrobenzene		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
1,4-Dichlorobenzene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
1,4-Naphthoquinone		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
1-Naphthylamine		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
2,3,4,6-Tetrachlorophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-2 6-8 12/01/97	I9-9-28-SB-3 0-1 09/21/99	I9-9-28-SB-3 2-4 12/01/97	I9-9-28-SB-3 8-10 12/04/00	I9-9-28-SB-8 2-4 09/21/99	I9-9-28-SB-8 12-14 11/28/00
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(2.2)	ND(0.80)	ND(1.9)	ND(0.45)	ND(0.79)	ND(0.70)
2,4,6-Trichlorophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
2,4-Dichlorophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
2,4-Dimethylphenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
2,4-Dinitrophenol		ND(2.2)	ND(3.6)	ND(1.9)	ND(2.3)	ND(3.5)	ND(3.6)
2,4-Dinitrotoluene		ND(0.45)	ND(0.39)	ND(0.38)	ND(2.3)	ND(0.39)	ND(3.6)
2,6-Dichlorophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
2,6-Dinitrotoluene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
2-Acetylaminofluorene		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
2-Chloronaphthalene		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
2-Chlorophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
2-Methylnaphthalene		0.22 J	ND(0.79)	0.36 J	ND(0.45)	ND(0.78)	ND(0.70)
2-Methylphenol		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
2-Naphthylamine		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
2-Nitroaniline		ND(2.2)	ND(1.5)	ND(1.9)	ND(2.3)	ND(1.5)	ND(3.6)
2-Nitrophenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
2-Picoline		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
3&4-Methylphenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
3,3'-Dichlorobenzidine		ND(0.89)	ND(0.39)	ND(0.76)	ND(2.3)	ND(0.39)	ND(3.6)
3,3'-Dimethylbenzidine		ND(0.45)	ND(0.39)	ND(0.38)	ND(2.3)	ND(0.39)	ND(3.6)
3-Methylcholanthrene		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
3-Nitroaniline		ND(2.2)	ND(1.5)	ND(1.9)	ND(2.3)	ND(1.5)	ND(3.6)
4,6-Dinitro-2-methylphenol		ND(2.2)	ND(3.9)	ND(1.9)	ND(0.45)	ND(3.9)	ND(0.70)
4-Aminobiphenyl		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
4-Bromophenyl-phenylether		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
4-Chloro-3-Methylphenol		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
4-Chloroaniline		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.92)	ND(0.39)	ND(1.4)
4-Chlorobenzilate		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
4-Chlorophenyl-phenylether		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
4-Nitroaniline		ND(2.2)	ND(3.9)	ND(1.9)	ND(2.3)	ND(3.9)	ND(3.6)
4-Nitrophenol		ND(2.2)	ND(3.9)	ND(1.9)	ND(2.3)	ND(3.9)	ND(3.6)
4-Nitroquinoline-1-oxide		ND(0.89)	ND(0.80)	ND(0.76)	ND(2.3)	ND(0.79)	ND(3.6)
4-Phenylenediamine		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
5-Nitro-o-toluidine		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
7,12-Dimethylbenz(a)anthracene		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
a,a'-Dimethylphenethylamine		ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
Acenaphthene		ND(0.45)	ND(0.39)	1.0	ND(0.45)	ND(0.39)	ND(0.70)
Acenaphthylene		ND(0.45)	ND(0.39)	0.12 J	ND(0.45)	ND(0.39)	ND(0.70)
Acetophenone		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Aniline		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Anthracene		ND(0.45)	0.10 J	2.4	ND(0.45)	ND(0.39)	ND(0.70)
Aramite		ND(0.89)	ND(0.80)	ND(0.76)	ND(0.92)	ND(0.79)	ND(1.4)
Benzidine		ND(4.5)	ND(0.39)	ND(3.8)	ND(0.92)	ND(0.39)	ND(1.4)
Benzo(a)anthracene		0.066 J	0.44	4.2	ND(0.45)	0.22 J	ND(0.70)
Benzo(a)pyrene		ND(0.45)	0.63	3.4	ND(0.45)	0.39	0.41 J
Benzo(b)fluoranthene		0.066 J	0.63	2.8	ND(0.44)	0.45	0.43 J
Benzo(g,h,i)perylene		ND(0.45)	0.29 J	1.8	ND(0.45)	0.31 J	0.60 J
Benzo(k)fluoranthene		0.062 J	0.57	3.0	ND(0.45)	0.33 J	0.38 J
Benzoic Acid		ND(2.2)	NS	ND(1.9)	NS	NS	NS
Benzyl Alcohol		ND(0.45)	ND(1.5)	ND(0.38)	ND(0.92)	ND(1.5)	ND(1.4)
bis(2-Chloroethoxy)methane		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
bis(2-Chloroethyl)ether		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
bis(2-Chloroisopropyl)ether		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
bis(2-Ethylhexyl)phthalate		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	0.18 J	ND(0.70)
Butylbenzylphthalate		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.92)	ND(0.39)	ND(1.4)
Chrysene		0.098 J	0.52	4.2	ND(0.45)	0.28 J	ND(0.70)
Diallate		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
Dibenzo(a,h)anthracene		ND(0.45)	0.13 J	0.82	ND(0.92)	0.13 J	ND(1.4)
Dibenzofuran		ND(0.45)	ND(0.80)	0.92	ND(0.45)	ND(0.79)	ND(0.70)
Diethylphthalate		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Dimethylphthalate		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Di-n-Butylphthalate		ND(0.45)	0.11 J	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Di-n-Octylphthalate		ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Dinoseb		ND(2.2)	NS	ND(1.9)	NS	NS	NS
Diphenylamine		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Ethyl Methacrylate		ND(0.45)	NS	ND(0.38)	NS	NS	NS
Ethyl Methanesulfonate		ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)

TABLE 2-5
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PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:					
	I9-9-28-SB-2 / 6-8 / 12/01/97	I9-9-28-SB-3 / 0-1 / 09/21/99	I9-9-28-SB-3 / 2-4 / 12/01/97	I9-9-28-SB-3 / 8-10 / 12/04/00	I9-9-28-SB-8 / 2-4 / 09/21/99	I9-9-28-SB-8 / 12-14 / 11/28/00
Semivolatile Organics (continued)						
Fluoranthene	0.081 J	0.90	10 D	ND(0.45)	0.29 J	0.67 J
Fluorene	ND(0.45)	ND(0.39)	1.3	ND(0.45)	ND(0.39)	ND(0.70)
Hexachlorobenzene	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Hexachlorobutadiene	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.92)	ND(0.39)	ND(1.4)
Hexachlorocyclopentadiene	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Hexachloroethane	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Hexachlorophene	ND(4.5)	ND(0.80)	ND(3.8)	ND(0.92)	ND(0.79)	ND(1.4)
Hexachloropropene	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Indeno(1,2,3-cd)pyrene	ND(0.45)	0.32 J	1.8	ND(0.92)	0.31 J	ND(1.4)
Isodrin	NS	ND(0.80)	NS	ND(0.45)	ND(0.79)	ND(0.70)
Isophorone	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
Isosafrole	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
Methapyrilene	ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
Methyl Methanesulfonate	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Naphthalene	0.41 J	ND(0.39)	0.88	ND(0.45)	ND(0.39)	ND(0.70)
Nitrobenzene	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
N-Nitrosodiethylamine	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
N-Nitrosodimethylamine	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.92)	ND(0.39)	ND(1.4)
N-Nitroso-di-n-butylamine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
N-Nitroso-di-n-propylamine	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.92)	ND(0.39)	ND(1.4)
N-Nitrosodiphenylamine	ND(0.45)	ND(0.39)	ND(0.38)	ND(0.45)	ND(0.39)	ND(0.70)
N-Nitrosomethylethylamine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
N-Nitrosomorpholine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
N-Nitrosopiperidine	ND(2.2)	ND(0.80)	ND(1.9)	ND(0.45)	ND(0.79)	ND(0.70)
N-Nitrosopyrrolidine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.92)	ND(0.79)	ND(1.4)
o,o,o-Triethylphosphorothioate	NS	ND(0.80)	NS	ND(0.45)	ND(0.79)	ND(0.70)
o-Toluidine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
p-Dimethylaminoazobenzene	ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
Pentachlorobenzene	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Pentachloroethane	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Pentachloronitrobenzene	ND(2.2)	ND(0.80)	ND(1.9)	ND(2.3)	ND(0.79)	ND(3.6)
Pentachlorophenol	ND(2.2)	ND(3.9)	ND(1.9)	ND(2.3)	ND(3.9)	ND(3.6)
Phenacetin	ND(0.45)	ND(0.80)	ND(0.38)	ND(2.3)	ND(0.79)	ND(3.6)
Phenanthrene	0.085 J	0.57	9.9 D	ND(0.45)	0.14 J	0.36 J
Phenol	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Pronamide	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Pyrene	0.093 J	0.73	6.0	ND(0.45)	0.26 J	0.57 J
Pyridine	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Safrole	ND(0.45)	ND(0.80)	ND(0.38)	ND(0.45)	ND(0.79)	ND(0.70)
Sulfotep	NS	NS	NS	NS	NS	NS
Thionazin	NS	ND(0.80)	NS	ND(0.45)	ND(0.79)	ND(0.70)
Furans						
2,3,7,8-TCDF	0.000010	0.000045	0.000020	ND(0.00000013)	0.000018	ND(0.00000034)
TCDFs (total)	0.000045	0.00025	0.000085	ND(0.00000013)	0.000085	ND(0.00000034)
1,2,3,7,8-PeCDF	0.0000022	0.000015	0.0000071	ND(0.00000014)	0.0000064 J	ND(0.00000025)
2,3,4,7,8-PeCDF	0.0000039	0.000014	0.0000077	ND(0.00000014)	0.000010 J	ND(0.00000024)
PeCDFs (total)	0.000032	0.00015	0.000099	ND(0.00000014)	0.000073	ND(0.00000024)
1,2,3,4,7,8-HxCDF	0.0000052	0.000024	0.000014	ND(0.00000010)	0.000015	0.00000071
1,2,3,6,7,8-HxCDF	0.0000017 J	0.0000081 J	0.0000055	ND(0.00000010)	0.0000050 J	ND(0.00000023)
1,2,3,7,8,9-HxCDF	0.00000034 J	ND(0.0000027)	ND(0.0000015)	ND(0.00000013)	ND(0.0000017)	ND(0.00000029)
2,3,4,6,7,8-HxCDF	0.0000014 J	0.0000097 J	0.0000045	ND(0.00000010)	0.0000074 J	ND(0.00000023)
HxCDFs (total)	0.000014	0.00013	0.00011	ND(0.00000010)	0.000044	0.0000014
1,2,3,4,6,7,8-HpCDF	0.0000060	0.000034	0.000020	ND(0.000000086)	0.000026	ND(0.0000012) X
1,2,3,4,7,8,9-HpCDF	0.0000015 J	0.0000071 J	0.0000036	ND(0.00000012)	0.0000029 J	ND(0.00000024)
HpCDFs (total)	0.0000099	0.000073	0.000043	ND(0.000000086)	0.000041	ND(0.00000017)
OCDF	0.0000073	0.000040	0.000022	ND(0.000000074)	0.000012 J	0.0000014
Dioxins						
2,3,7,8-TCDD	0.00000069	ND(0.0000019)	ND(0.00000059)	ND(0.00000017)	ND(0.0000010)	ND(0.00000040)
TCDDs (total)	0.00000069	0.000020	0.00000059	ND(0.00000017)	0.0000017 J	ND(0.00000040)
1,2,3,7,8-PeCDD	ND(0.00000069)	ND(0.0000026)	0.00000045 J	ND(0.00000021)	ND(0.0000016)	ND(0.00000056)
PeCDDs (total)	0.00000069	0.0000094 J	0.00000045	ND(0.00000021)	ND(0.0000016)	ND(0.00000056)
1,2,3,4,7,8-HxCDD	ND(0.0000017)	ND(0.0000013)	ND(0.0000015)	ND(0.00000015)	ND(0.00000048)	ND(0.00000030)
1,2,3,6,7,8-HxCDD	ND(0.0000017)	ND(0.0000016)	0.00000071 J	ND(0.00000014)	ND(0.00000059)	ND(0.00000028)
1,2,3,7,8,9-HxCDD	ND(0.0000017)	ND(0.0000015)	ND(0.0000015)	ND(0.00000014)	ND(0.00000053)	ND(0.00000028)
HxCDDs (total)	0.0000063	ND(0.0000016)	0.0000047	ND(0.00000014)	0.0000068 J	0.00000066
1,2,3,4,6,7,8-HpCDD	0.0000057	ND(0.0000040)	0.000011	ND(0.00000013)	0.000010 J	ND(0.00000058) X
HpCDDs (total)	0.000015	ND(0.0000040)	0.000019	ND(0.00000013)	0.000029	ND(0.00000032)
OCDD	0.00065	0.00022	0.000062	0.0000011 B	0.00042	0.0000051
Total TEQs (WHO TEFs)	0.0000055	0.000020	0.000010	0.00000028	0.000012	0.00000073

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-2 6-8 12/01/97	I9-9-28-SB-3 0-1 09/21/99	I9-9-28-SB-3 2-4 12/01/97	I9-9-28-SB-3 8-10 12/04/00	I9-9-28-SB-8 2-4 09/21/99	I9-9-28-SB-8 12-14 11/28/00
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(8.00)	ND(8.18)	3.80	ND(12.0)	ND(7.19)	ND(19.0)
Arsenic		17.9	15.0	8.20	ND(20.0)	27.8	ND(32.0)
Barium		64.4	84.0	49.7	ND(41.0)	167	64.0
Beryllium		0.260	ND(0.679)	0.160	0.380	ND(0.601)	ND(0.320)
Cadmium		ND(1.00)	0.988	ND(0.420)	ND(2.00)	ND(0.601)	ND(3.20)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		21.6	44.6	5.50	9.10	58.6	ND(8.40)
Cobalt		10.6	10.4	5.00	12.0	12.6	ND(16.0)
Copper		5450	425	34.4	31.0	379	ND(32.0)
Cyanide		ND(0.670)	NS	ND(0.570)	ND(1.00)	NS	ND(1.00)
Iron		NS	NS	NS	NS	NS	NS
Lead		325	217	97.0	15.0	428	300
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.0400	0.419	0.700	ND(0.270)	0.206	0.460
Nickel		161	76.5	7.60	18.0	72.6	ND(13.0)
Potassium		NS	NS	NS	NS	NS	NS
Selenium		16.9	ND(0.679)	ND(4.70)	ND(1.00)	1.00	ND(1.60)
Silver		ND(1.30)	ND(1.42)	ND(0.550)	ND(1.00)	ND(1.37)	ND(1.60)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		154	NS	4.30	ND(6.80)	NS	540
Thallium		ND(9.20)	ND(6.81)	5.90	ND(2.00)	ND(5.99)	ND(3.20)
Tin		241	ND(68.1)	5.00	ND(62.0)	ND(59.9)	320
Vanadium		31.6	24.2	7.00	ND(10.0)	61.1	ND(16.0)
Zinc		506	283	67.1	47.0	343	160

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-28-SB-9 0-1 09/21/99	I9-9-28-SB-9 2-4 09/21/99	I9-9-28-SS-1/SB-4 0-1 12/04/00	I9-9-28-SS-1/SB-4 2-4 12/04/00	I9-9-28-SS-1/SB-4 6-8 12/04/00
Volatile Organics					
1,1,1,2-Tetrachloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,1,1-Trichloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,1,2,2-Tetrachloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,1,2-Trichloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,1-Dichloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,1-Dichloroethene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,2,3-Trichloropropane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,2-Dibromo-3-chloropropane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,2-Dibromoethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,2-Dichloroethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,2-Dichloropropane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
1,4-Dioxane	NS	NS	ND(0.20)	ND(0.20)	ND(0.20)
2-Butanone	NS	NS	ND(0.10)	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
2-Chloroethylvinylether	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
2-Hexanone	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
3-Chloropropene	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
4-Methyl-2-pentanone	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Acetone	NS	NS	ND(0.10)	ND(0.10)	ND(0.10)
Acetonitrile	NS	NS	ND(0.13)	ND(0.13)	ND(0.13)
Acrolein	NS	NS	ND(0.13)	ND(0.13)	ND(0.13)
Acrylonitrile	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Benzene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Bromodichloromethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Bromoform	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Bromomethane	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Carbon Disulfide	NS	NS	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Tetrachloride	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Chlorobenzene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Chloroethane	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Chloroform	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Chloromethane	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
cis-1,3-Dichloropropene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Dibromochloromethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Dibromomethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Dichlorodifluoromethane	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Ethyl Methacrylate	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Ethylbenzene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Iodomethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Isobutanol	NS	NS	ND(0.27)	ND(0.27)	ND(0.26)
Methacrylonitrile	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Methyl Methacrylate	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Methylene Chloride	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Propionitrile	NS	NS	ND(0.067)	ND(0.066)	ND(0.065)
Styrene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Tetrachloroethene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Toluene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
trans-1,2-Dichloroethene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
trans-1,3-Dichloropropene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
trans-1,4-Dichloro-2-butene	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Trichloroethene	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Trichlorofluoromethane	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Vinyl Acetate	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Vinyl Chloride	NS	NS	ND(0.013)	ND(0.013)	ND(0.013)
Xylenes (total)	NS	NS	ND(0.0067)	ND(0.0066)	ND(0.0065)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
1,2,4-Trichlorobenzene	ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
1,2-Dichlorobenzene	ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
1,2-Diphenylhydrazine	ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
1,3,5-Trinitrobenzene	ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
1,3-Dichlorobenzene	ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
1,3-Dinitrobenzene	ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
1,4-Dichlorobenzene	ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
1,4-Naphthoquinone	ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
1-Naphthylamine	ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
2,3,4,6-Tetrachlorophenol	ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-9 0-1 09/21/99	I9-9-28-SB-9 2-4 09/21/99	I9-9-28-SS-1/SB-4 0-1 12/04/00	I9-9-28-SS-1/SB-4 2-4 12/04/00	I9-9-28-SS-1/SB-4 6-8 12/04/00
Semivolatile Organics (continued)						
2,4,5-Trichlorophenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2,4,6-Trichlorophenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2,4-Dichlorophenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2,4-Dimethylphenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2,4-Dinitrophenol		ND(35)	ND(6.9)	ND(2.3)	ND(2.3)	ND(2.2)
2,4-Dinitrotoluene		ND(3.9)	ND(0.75)	ND(2.3)	ND(2.3)	ND(2.2)
2,6-Dichlorophenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2,6-Dinitrotoluene		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
2-Acetylaminofluorene		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
2-Chloronaphthalene		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
2-Chlorophenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
2-Methylnaphthalene		ND(7.7)	0.16 J	ND(0.44)	ND(0.44)	ND(0.43)
2-Methylphenol		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
2-Naphthylamine		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
2-Nitroaniline		ND(15)	ND(3.0)	ND(2.3)	ND(2.3)	ND(2.2)
2-Nitrophenol		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
2-Picoline		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
3&4-Methylphenol		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
3,3'-Dichlorobenzidine		ND(3.9)	ND(0.75)	ND(2.3)	ND(2.3)	ND(2.2)
3,3'-Dimethylbenzidine		ND(3.9)	ND(0.75)	ND(2.3)	ND(2.3)	ND(2.2)
3-Methylcholanthrene		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
3-Nitroaniline		ND(15)	ND(3.0)	ND(2.3)	ND(2.3)	ND(2.2)
4,6-Dinitro-2-methylphenol		ND(39)	ND(7.5)	ND(0.44)	ND(0.44)	ND(0.43)
4-Aminobiphenyl		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
4-Bromophenyl-phenylether		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
4-Chloro-3-Methylphenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
4-Chloroaniline		ND(3.9)	ND(0.75)	ND(0.89)	ND(0.89)	ND(0.87)
4-Chlorobenzilate		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
4-Chlorophenyl-phenylether		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
4-Nitroaniline		ND(39)	ND(7.5)	ND(2.3)	ND(2.3)	ND(2.2)
4-Nitrophenol		ND(39)	ND(7.5)	ND(2.3)	ND(2.3)	ND(2.2)
4-Nitroquinoline-1-oxide		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
4-Phenylenediamine		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
5-Nitro-o-toluidine		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
7,12-Dimethylbenz(a)anthracene		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
a,a'-Dimethylphenethylamine		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
Acenaphthene		1.0 J	1.1	ND(0.44)	ND(0.44)	ND(0.43)
Acenaphthylene		ND(3.9)	0.22 J	ND(0.44)	ND(0.44)	ND(0.43)
Acetophenone		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Aniline		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Anthracene		2.8 J	2.6	0.54	0.50	0.45
Aramite		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
Benzidine		ND(3.9)	ND(0.75)	ND(0.89)	ND(0.89)	ND(0.87)
Benzo(a)anthracene		4.7	4.0	1.8	1.3	1.2
Benzo(a)pyrene		4.9	4.0	ND(0.44)	1.1	1.3
Benzo(b)fluoranthene		4.2	3.2	1.5	1.5	1.6
Benzo(g,h,i)perylene		2.3 J	1.7	0.78	0.69	ND(0.43)
Benzo(k)fluoranthene		4.3	4.0	1.7	1.0	1.0
Benzoic Acid		NS	NS	NS	NS	NS
Benzyl Alcohol		ND(15)	ND(3.0)	ND(0.89)	ND(0.89)	ND(0.87)
bis(2-Chloroethoxy)methane		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
bis(2-Chloroethyl)ether		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
bis(2-Chloroisopropyl)ether		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
bis(2-Ethylhexyl)phthalate		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Butylbenzylphthalate		ND(3.9)	ND(0.75)	ND(0.89)	ND(0.89)	ND(0.87)
Chrysene		4.8	3.9	1.5	1.1	1.1
Diallate		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
Dibenzo(a,h)anthracene		1.1 J	0.89	ND(0.89)	ND(0.89)	ND(0.87)
Dibenzofuran		ND(7.8)	0.58 J	ND(0.44)	ND(0.44)	ND(0.43)
Diethylphthalate		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Dimethylphthalate		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Di-n-Butylphthalate		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Di-n-Octylphthalate		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Dinoseb		NS	NS	NS	NS	NS
Diphenylamine		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Ethyl Methacrylate		NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-9 0-1 09/21/99	I9-9-28-SB-9 2-4 09/21/99	I9-9-28-SS-1/SB-4 0-1 12/04/00	I9-9-28-SS-1/SB-4 2-4 12/04/00	I9-9-28-SS-1/SB-4 6-8 12/04/00
Semivolatile Organics (continued)						
Fluoranthene		13	9.1	3.1	2.1	1.7
Fluorene		1.3 J	1.4	ND(0.44)	ND(0.44)	ND(0.43)
Hexachlorobenzene		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Hexachlorobutadiene		ND(3.9)	ND(0.75)	ND(0.89)	ND(0.89)	ND(0.87)
Hexachlorocyclopentadiene		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Hexachloroethane		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Hexachlorophene		ND(7.8)	ND(1.5)	1.1	ND(0.89)	ND(0.87)
Hexachloropropene		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Indeno(1,2,3-cd)pyrene		2.3 J	1.8	ND(0.89)	ND(0.89)	ND(0.87)
Isodrin		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Isophorone		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
Isosafrole		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
Methapyrilene		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
Methyl Methanesulfonate		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Naphthalene		ND(3.9)	0.25 J	ND(0.44)	ND(0.44)	ND(0.43)
Nitrobenzene		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
N-Nitrosodiethylamine		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
N-Nitrosodimethylamine		ND(3.9)	ND(0.75)	ND(2.2)	ND(2.2)	ND(2.2)
N-Nitroso-di-n-butylamine		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
N-Nitroso-di-n-propylamine		ND(3.9)	ND(0.75)	ND(0.89)	ND(0.89)	ND(0.87)
N-Nitrosodiphenylamine		ND(3.9)	ND(0.75)	ND(0.44)	ND(0.44)	ND(0.43)
N-Nitrosomethylethylamine		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
N-Nitrosomorpholine		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
N-Nitrosopiperidine		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
N-Nitrosopyrrolidine		ND(7.8)	ND(1.5)	ND(0.89)	ND(0.89)	ND(0.87)
o,o,o-Triethylphosphorothioate		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
o-Toluidine		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
p-Dimethylaminoazobenzene		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
Pentachlorobenzene		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Pentachloroethane		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Pentachloronitrobenzene		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
Pentachlorophenol		ND(39)	ND(7.5)	ND(2.3)	ND(2.3)	ND(2.2)
Phenacetin		ND(7.8)	ND(1.5)	ND(2.3)	ND(2.3)	ND(2.2)
Phenanthrene		11	8.9	2.1	2.2	1.9
Phenol		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Pronamide		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Pyrene		9.4	7.2	4.6	2.5	2.6
Pyridine		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Safrole		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Sulfotep		NS	NS	NS	NS	NS
Thionazin		ND(7.8)	ND(1.5)	ND(0.44)	ND(0.44)	ND(0.43)
Furans						
2,3,7,8-TCDF		0.000033	0.000035	0.000020	0.0000046	0.0000050
TCDFs (total)		0.00025	0.00031	0.000058	0.0000078	0.000014
1,2,3,7,8-PeCDF		0.0000066 J	0.0000067 J	0.0000091	0.0000026	0.0000015
2,3,4,7,8-PeCDF		0.000016	0.0000082 J	0.0000087	0.0000024	0.0000017
PeCDFs (total)		0.00016	0.00013	0.00047	0.000035	0.000018
1,2,3,4,7,8-HxCDF		0.000022	0.000014	0.000031	ND(0.000012) X	0.0000017
1,2,3,6,7,8-HxCDF		0.0000073 J	0.0000047 J	ND(0.0000035) X	ND(0.0000028)	ND(0.00000045) X
1,2,3,7,8,9-HxCDF		ND(0.0000022)	ND(0.0000054)	ND(0.0000029)	ND(0.0000036)	ND(0.00000040)
2,3,4,6,7,8-HxCDF		0.0000053 J	0.0000054 J	0.0000037	ND(0.0000028)	ND(0.00000032)
HxCDFs (total)		0.000091	0.000071	0.00020	0.000026	0.0000044
1,2,3,4,6,7,8-HpCDF		0.000053	0.000027	0.000021	0.0000067	ND(0.0000012) X
1,2,3,4,7,8,9-HpCDF		0.0000074 J	ND(0.000017)	0.0000035	0.0000064	0.00000036
HpCDFs (total)		0.00011	0.000027	0.000055	0.000020	0.0000024
OCDF		0.000045	ND(0.000013)	0.000020	0.000020	0.0000011
Dioxins						
2,3,7,8-TCDD		ND(0.0000012)	ND(0.0000031)	ND(0.00000031)	ND(0.00000025)	ND(0.00000013)
TCDDs (total)		0.0000012 J	ND(0.0000031)	0.0000061	0.0000016	0.0000016
1,2,3,7,8-PeCDD		ND(0.0000021)	ND(0.0000055)	ND(0.0000025)	ND(0.0000092)	ND(0.00000047)
PeCDDs (total)		0.0000030 J	ND(0.0000055)	ND(0.0000025)	ND(0.0000093)	ND(0.00000047)
1,2,3,4,7,8-HxCDD		ND(0.0000016)	ND(0.0000015)	ND(0.00000070)	ND(0.00000089)	ND(0.00000024)
1,2,3,6,7,8-HxCDD		ND(0.0000020)	ND(0.0000019)	ND(0.00000067)	ND(0.00000085)	ND(0.00000022)
1,2,3,7,8,9-HxCDD		ND(0.0000018)	ND(0.0000017)	ND(0.00000066)	ND(0.00000084)	ND(0.00000022)
HxCDDs (total)		0.000019	ND(0.0000019)	ND(0.00000067)	ND(0.00000085)	0.000000020 J
1,2,3,4,6,7,8-HpCDD		0.000037	ND(0.000013)	ND(0.0000087) X	ND(0.0000068) X	ND(0.0000030) X
HpCDDs (total)		0.000081	ND(0.000013)	0.0000072	0.0000056	0.0000085
OCDD		0.00022	0.000097	0.000063 B	0.00015 B	0.00019 B
Total TEQs (WHO TEFs)		0.000018	0.000016	0.000012	0.0000079	0.0000020

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SB-9 0-1 09/21/99	I9-9-28-SB-9 2-4 09/21/99	I9-9-28-SS-1/SB-4 0-1 12/04/00	I9-9-28-SS-1/SB-4 2-4 12/04/00	I9-9-28-SS-1/SB-4 6-8 12/04/00
Inorganics						
Aluminum		NS	NS	NS	NS	NS
Antimony		ND(7.60)	ND(6.75)	ND(12.0)	ND(12.0)	ND(12.0)
Arsenic		12.2	9.03	ND(20.0)	ND(20.0)	ND(19.0)
Barium		85.8	94.4	84.0	47.0	58.0
Beryllium		ND(0.632)	ND(0.560)	0.410	0.470	1.20
Cadmium		ND(0.632)	0.811	ND(2.00)	ND(2.00)	2.20
Calcium		NS	NS	NS	NS	NS
Chromium		16.5	13.6	39.0	13.0	19.0
Cobalt		8.65	9.26	ND(10.0)	ND(10.0)	ND(9.70)
Copper		76.1	55.8	66.0	1700	1100
Cyanide		NS	NS	ND(1.50)	ND(1.00)	ND(1.00)
Iron		NS	NS	NS	NS	NS
Lead		178	189	120	350	86.0
Magnesium		NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS
Mercury		2.95	2.46	1.10	ND(0.270)	ND(0.260)
Nickel		19.3	20.3	17.0	41.0	73.0
Potassium		NS	NS	NS	NS	NS
Selenium		ND(0.632)	ND(0.560)	ND(1.00)	ND(1.00)	ND(0.970)
Silver		ND(1.36)	ND(1.26)	ND(1.00)	ND(1.00)	ND(0.970)
Sodium		NS	NS	NS	NS	NS
Sulfide		NS	NS	28.0	30.0	230
Thallium		ND(6.33)	ND(5.63)	ND(2.00)	ND(2.00)	ND(1.90)
Tin		ND(63.3)	ND(56.3)	ND(60.0)	ND(60.0)	ND(58.0)
Vanadium		18.6	18.5	14.0	14.0	18.0
Zinc		182	255	160	510	410

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SS-5 0-1 12/04/00	I9-9-28-SS-5 4-6 12/04/00	I9-9-28-SS-6 0-1 12/04/00	I9-9-28-SS-6 2-4 12/04/00	I9-9-28-SS-8 0-1 06/24/99
Volatile Organics						
1,1,1,2-Tetrachloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,1,1-Trichloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,1,2,2-Tetrachloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,1,2-Trichloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,1-Dichloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,1-Dichloroethene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,2,3-Trichloropropane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,2-Dibromo-3-chloropropane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,2-Dibromoethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,2-Dichloroethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,2-Dichloropropane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
1,4-Dioxane		ND(0.20) [ND(0.20)]	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
2-Butanone		ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
2-Chloroethylvinylether		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
2-Hexanone		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
3-Chloropropene		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
4-Methyl-2-pentanone		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Acetone		ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Acetonitrile		ND(0.13) [ND(0.12)]	ND(0.13)	ND(0.12)	ND(0.13)	ND(0.10)
Acrolein		ND(0.13) [ND(0.12)]	ND(0.13)	ND(0.12)	ND(0.13)	ND(0.10)
Acrylonitrile		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Benzene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Bromodichloromethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Bromoform		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Bromomethane		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Carbon Disulfide		ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Tetrachloride		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Chlorobenzene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Chloroethane		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Chloroform		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Chloromethane		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
cis-1,3-Dichloropropene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Dibromochloromethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Dibromomethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Dichlorodifluoromethane		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Ethyl Methacrylate		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Ethylbenzene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Iodomethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Isobutanol		ND(0.25) [ND(0.25)]	ND(0.26)	ND(0.24)	ND(0.27)	ND(0.20)
Methacrylonitrile		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Methyl Methacrylate		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Methylene Chloride		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Propionitrile		ND(0.064) [ND(0.062)]	ND(0.064)	ND(0.061)	ND(0.067)	ND(0.050)
Styrene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Tetrachloroethene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Toluene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
trans-1,2-Dichloroethene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
trans-1,3-Dichloropropene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
trans-1,4-Dichloro-2-butene		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Trichloroethene		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Trichlorofluoromethane		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.0050)
Vinyl Acetate		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Vinyl Chloride		ND(0.013) [ND(0.012)]	ND(0.013)	ND(0.012)	ND(0.013)	ND(0.010)
Xylenes (total)		ND(0.0064) [ND(0.0062)]	ND(0.0064)	ND(0.0061)	ND(0.0067)	ND(0.010)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,2,4-Trichlorobenzene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,2-Dichlorobenzene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,2-Diphenylhydrazine		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,3,5-Trinitrobenzene		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
1,3-Dichlorobenzene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,3-Dinitrobenzene		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
1,4-Dichlorobenzene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
1,4-Naphthoquinone		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
1-Naphthylamine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
2,3,4,6-Tetrachlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SS-5 0-1 12/04/00	I9-9-28-SS-5 4-6 12/04/00	I9-9-28-SS-6 0-1 12/04/00	I9-9-28-SS-6 2-4 12/04/00	I9-9-28-SS-8 0-1 06/24/99
Semivolatile Organics (continued)						
2,4,5-Trichlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2,4,6-Trichlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2,4-Dichlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2,4-Dimethylphenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2,4-Dinitrophenol		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
2,4-Dinitrotoluene		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
2,6-Dichlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2,6-Dinitrotoluene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2-Acetylaminofluorene		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
2-Chloronaphthalene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2-Chlorophenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2-Methylnaphthalene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2-Methylphenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
2-Naphthylamine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
2-Nitroaniline		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
2-Nitrophenol		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
2-Picoline		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
3&4-Methylphenol		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
3,3'-Dichlorobenzidine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
3,3'-Dimethylbenzidine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
3-Methylcholanthrene		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
3-Nitroaniline		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
4,6-Dinitro-2-methylphenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(2.0)
4-Aminobiphenyl		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
4-Bromophenyl-phenylether		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
4-Chloro-3-Methylphenol		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
4-Chloroaniline		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
4-Chlorobenzilate		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
4-Chlorophenyl-phenylether		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
4-Nitroaniline		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
4-Nitrophenol		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
4-Nitroquinoline-1-oxide		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
4-Phenylenediamine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
5-Nitro-o-toluidine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
7,12-Dimethylbenz(a)anthracene		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
a,a'-Dimethylphenethylamine		ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
Acenaphthene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Acenaphthylene		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Acetophenone		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Aniline		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Anthracene		ND(0.42)	ND(0.42)	ND(0.41)	0.50	ND(0.30)
Aramite		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
Benzidine		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
Benzo(a)anthracene		ND(0.42)	ND(0.42)	ND(0.41)	1.1	0.60
Benzo(a)pyrene		ND(0.42)	ND(0.42)	ND(0.41)	0.78	0.50
Benzo(b)fluoranthene		ND(0.42)	ND(0.42)	ND(0.41)	0.65	0.70
Benzo(g,h,i)perylene		ND(0.42)	ND(0.42)	ND(0.41)	0.95	0.30
Benzo(k)fluoranthene		ND(0.42)	ND(0.42)	ND(0.41)	0.62	ND(0.30)
Benzoic Acid		NS	NS	NS	NS	NS
Benzyl Alcohol		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
bis(2-Chloroethoxy)methane		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
bis(2-Chloroethyl)ether		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
bis(2-Chloroisopropyl)ether		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
bis(2-Ethylhexyl)phthalate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Butylbenzylphthalate		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
Chrysene		ND(0.42)	ND(0.42)	ND(0.41)	0.88	0.60
Diallate		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
Dibenzo(a,h)anthracene		ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
Dibenzofuran		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Diethylphthalate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Dimethylphthalate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Di-n-Butylphthalate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Di-n-Octylphthalate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Dinoseb		NS	NS	NS	NS	NS
Diphenylamine		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Ethyl Methacrylate		NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID	I9-9-28-SS-5	I9-9-28-SS-5	I9-9-28-SS-6	I9-9-28-SS-6	I9-9-28-SS-8
Sample Depth(Feet)	0-1	4-6	0-1	2-4	0-1
Date Collected	12/04/00	12/04/00	12/04/00	12/04/00	06/24/99
Semivolatile Organics (continued)					
Fluoranthene	0.53	ND(0.42)	ND(0.41)	2.1	1.0
Fluorene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Hexachlorobenzene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Hexachlorobutadiene	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(2.0)
Hexachlorocyclopentadiene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Hexachloroethane	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Hexachlorophene	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
Hexachloropropene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Indeno(1,2,3-cd)pyrene	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	0.40
Isodrin	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Isophorone	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Isosafrole	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
Methapyrilene	ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
Methyl Methanesulfonate	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Naphthalene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Nitrobenzene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
N-Nitrosodiethylamine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
N-Nitrosodimethylamine	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
N-Nitroso-di-n-butylamine	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
N-Nitroso-di-n-propylamine	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(2.0)
N-Nitrosodiphenylamine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
N-Nitrosomethylethylamine	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.97)	ND(0.70)
N-Nitrosomorpholine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
N-Nitrosopiperidine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
N-Nitrosopyrrolidine	ND(0.85)	ND(0.86)	ND(0.82)	ND(0.90)	ND(0.70)
o,o,o-Triethylphosphorothioate	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
o-Toluidine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
p-Dimethylaminoazobenzene	ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
Pentachlorobenzene	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Pentachloroethane	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Pentachloronitrobenzene	ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
Pentachlorophenol	ND(2.2)	ND(2.2)	ND(2.1)	ND(2.3)	ND(2.0)
Phenacetin	ND(2.2)	ND(2.2)	ND(2.1)	ND(2.4)	ND(2.0)
Phenanthrene	ND(0.42)	ND(0.42)	ND(0.41)	2.8	1.0
Phenol	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Pronamide	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Pyrene	0.44	ND(0.42)	ND(0.41)	3.3	1.0
Pyridine	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Safrole	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Sulfotep	NS	NS	NS	NS	NS
Thionazin	ND(0.42)	ND(0.42)	ND(0.41)	ND(0.48)	ND(0.30)
Furans					
2,3,7,8-TCDF	ND(0.0000048) X [0.000010]	ND(0.00000013)	0.0000013	0.00000069	0.000064
TCDFs (total)	0.000098 [0.000052]	ND(0.00000013)	0.0000034	ND(0.000000071)	0.00025
1,2,3,7,8-PeCDF	ND(0.0000031) X [0.0000044 I]	ND(0.00000014)	ND(0.00000030) X	ND(0.000000087)	0.000017
2,3,4,7,8-PeCDF	0.0000027 [0.0000036]	ND(0.00000014)	0.00000026	ND(0.000000085)	0.000016
PeCDFs (total)	0.00020 [0.000050]	ND(0.00000014)	0.00000051	ND(0.000000085)	0.00012
1,2,3,4,7,8-HxCDF	0.000014 [0.000024 I]	0.000000076	ND(0.00000036) X	0.0000011 I	0.000033
1,2,3,6,7,8-HxCDF	0.0000013 [0.0000026]	ND(0.000000073)	ND(0.000000072)	ND(0.00000014)	0.000012
1,2,3,7,8,9-HxCDF	ND(0.00000056) [ND(0.0000011)]	ND(0.000000094)	ND(0.000000093)	ND(0.00000018)	0.00000092 J
2,3,4,6,7,8-HxCDF	0.0000020 [0.0000028]	ND(0.000000073)	ND(0.000000073)	ND(0.00000014)	0.0000050
HxCDFs (total)	0.00011 [0.000034]	0.000000076	ND(0.000000072)	0.0000010	0.00010
1,2,3,4,6,7,8-HpCDF	0.0000073 [0.0000092]	ND(0.000000053)	ND(0.00000025) X	0.00000069	0.000036
1,2,3,4,7,8,9-HpCDF	0.00000086 [0.00000098]	ND(0.000000073)	ND(0.000000053)	ND(0.00000014)	0.000019
HpCDFs (total)	0.000015 [0.000010]	ND(0.000000053)	ND(0.000000038)	0.00000069	0.000092
OCDF	0.0000073 [0.0000092]	0.000000065 J	0.00000037	0.0000016	0.000066
Dioxins					
2,3,7,8-TCDD	ND(0.00000015) [ND(0.00000015)]	ND(0.00000014)	ND(0.00000017)	ND(0.000000082)	0.00000045 J
TCDDs (total)	0.00000089 [0.0000016]	ND(0.00000014)	ND(0.00000017)	ND(0.000000082)	0.0000027
1,2,3,7,8-PeCDD	ND(0.00000042) [ND(0.00000056)]	ND(0.00000021)	ND(0.00000022)	ND(0.00000037)	0.0000017
PeCDDs (total)	ND(0.00000042) [ND(0.00000056)]	ND(0.00000021)	ND(0.00000022)	ND(0.00000037)	0.0000054
1,2,3,4,7,8-HxCDD	ND(0.00000024) [ND(0.00000023)]	ND(0.00000014)	ND(0.00000013)	ND(0.00000019)	0.00000096 J
1,2,3,6,7,8-HxCDD	0.00000017 J [ND(0.00000022)]	ND(0.00000014)	ND(0.00000012)	ND(0.00000018)	0.0000029
1,2,3,7,8,9-HxCDD	0.000000094 J [ND(0.00000022)]	ND(0.00000013)	ND(0.00000012)	ND(0.00000018)	0.0000019 J
HxCDDs (total)	ND(0.00000023) [ND(0.00000022)]	ND(0.00000014)	ND(0.00000012)	ND(0.00000018)	0.000012
1,2,3,4,6,7,8-HpCDD	0.0000064 [0.0000076]	ND(0.00000014) X	ND(0.00000045) X	0.00000075	0.000019
HpCDDs (total)	0.000011 [0.000014]	ND(0.000000073)	0.00000042	0.00000075	0.000019
OCDD	0.000041 B [0.000055 B]	0.00000098 B	0.0000036 B	0.0000058 B	0.00016
Total TEQs (WHO TEFs)	0.0000039 [0.0000066]	0.00000026	0.00000052	0.00000049	0.000024

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SS-5 0-1 12/04/00	I9-9-28-SS-5 4-6 12/04/00	I9-9-28-SS-6 0-1 12/04/00	I9-9-28-SS-6 2-4 12/04/00	I9-9-28-SS-8 0-1 06/24/99
Inorganics						
Aluminum		NS	NS	NS	NS	NS
Antimony		ND(11.0)	ND(12.0)	ND(11.0)	ND(12.0)	ND(9.40)
Arsenic		ND(19.0)	ND(19.0)	ND(18.0)	ND(20.0)	ND(15.7)
Barium		48.0	ND(38.0)	ND(37.0)	53.0	119
Beryllium		0.390	0.300	0.310	0.360	0.410
Cadmium		ND(1.90)	ND(1.90)	ND(1.80)	ND(2.00)	3.00
Calcium		NS	NS	NS	NS	NS
Chromium		8.00	8.70	ND(4.90)	11.0	55.4
Cobalt		ND(9.60)	ND(9.60)	ND(9.20)	ND(10.0)	11.2
Copper		22.0	ND(19.0)	ND(18.0)	ND(20.0)	51.1
Cyanide		ND(1.00) [ND(1.00)]	ND(1.00)	ND(1.00)	ND(1.00)	ND(1.00)
Iron		NS	NS	NS	NS	NS
Lead		56.0	11.0	5.30	67.0	3160
Magnesium		NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS
Mercury		ND(0.250)	ND(0.260)	ND(0.240)	0.390	0.940
Nickel		14.0	15.0	10.0	13.0	24.2
Potassium		NS	NS	NS	NS	NS
Selenium		ND(0.960)	ND(0.960)	ND(0.920)	ND(1.00)	ND(0.790)
Silver		ND(0.960)	ND(0.960)	ND(0.920)	ND(1.00)	ND(0.790)
Sodium		NS	NS	NS	NS	NS
Sulfide		10.0 [9.90]	ND(6.40)	ND(6.10)	8.50	28.3
Thallium		ND(1.90)	ND(1.90)	ND(1.80)	ND(2.00)	ND(1.60)
Tin		ND(57.0)	ND(58.0)	ND(55.0)	ND(60.0)	96.7
Vanadium		ND(9.60)	ND(9.60)	ND(9.20)	11.0	15.7
Zinc		73.0	45.0	26.0	86.0	3770

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-28-SS-9/SB-7 2-4 12/04/00	I9-9-28-SS-11 0-1 12/04/00	I9-9-28-SS-11 10-12 12/04/00	I9-9-29-SB-1 0-1 12/05/00	I9-9-29-SB-1 4-6 12/05/00
Volatile Organics					
1,1,1,2-Tetrachloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,1,1-Trichloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,1,2,2-Tetrachloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,1,2-Trichloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,1-Dichloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,1-Dichloroethene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,2,3-Trichloropropane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,2-Dibromo-3-chloropropane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,2-Dibromoethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,2-Dichloroethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,2-Dichloropropane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
1,4-Dioxane	NS	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
2-Butanone	NS	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
2-Chloroethylvinylether	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
2-Hexanone	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
3-Chloropropene	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
4-Methyl-2-pentanone	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Acetone	NS	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Acetonitrile	NS	ND(0.13)	ND(0.15)	ND(0.13)	ND(0.13)
Acrolein	NS	ND(0.13)	ND(0.15)	ND(0.13)	ND(0.13)
Acrylonitrile	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Benzene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Bromodichloromethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Bromoform	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Bromomethane	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Carbon Disulfide	NS	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Tetrachloride	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Chlorobenzene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Chloroethane	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Chloroform	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Chloromethane	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
cis-1,3-Dichloropropene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Dibromochloromethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Dibromomethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Dichlorodifluoromethane	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Ethyl Methacrylate	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Ethylbenzene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Iodomethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Isobutanol	NS	ND(0.26)	ND(0.30)	ND(0.26)	ND(0.26)
Methacrylonitrile	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Methyl Methacrylate	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Methylene Chloride	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Propionitrile	NS	ND(0.065)	ND(0.076)	ND(0.064)	ND(0.064)
Styrene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Tetrachloroethene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Toluene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
trans-1,2-Dichloroethene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
trans-1,3-Dichloropropene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
trans-1,4-Dichloro-2-butene	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Trichloroethene	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Trichlorofluoromethane	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Vinyl Acetate	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Vinyl Chloride	NS	ND(0.013)	ND(0.015)	ND(0.013)	ND(0.013)
Xylenes (total)	NS	ND(0.0065)	ND(0.0076)	ND(0.0064)	ND(0.0064)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,2,4-Trichlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,2-Dichlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,2-Diphenylhydrazine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,3,5-Trinitrobenzene	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
1,3-Dichlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,3-Dinitrobenzene	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
1,4-Dichlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
1,4-Naphthoquinone	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
1-Naphthylamine	ND(2.4)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
2,3,4,6-Tetrachlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	I9-9-28-SS-9/SB-7	I9-9-28-SS-11	I9-9-28-SS-11	I9-9-29-SB-1	I9-9-29-SB-1
Sample Depth(Feet):	2-4	0-1	10-12	0-1	4-6
Parameter Date Collected:	12/04/00	12/04/00	12/04/00	12/05/00	12/05/00
Semivolatile Organics (continued)					
2,4,5-Trichlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2,4,6-Trichlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2,4-Dichlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2,4-Dimethylphenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2,4-Dinitrophenol	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
2,4-Dinitrotoluene	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
2,6-Dichlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2,6-Dinitrotoluene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2-Acetylaminofluorene	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
2-Chloronaphthalene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2-Chlorophenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2-Methylnaphthalene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2-Methylphenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
2-Naphthylamine	ND(2.4)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
2-Nitroaniline	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
2-Nitrophenol	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
2-Picoline	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
3&4-Methylphenol	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
3,3'-Dichlorobenzidine	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
3,3'-Dimethylbenzidine	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
3-Methylcholanthrene	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
3-Nitroaniline	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
4,6-Dinitro-2-methylphenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
4-Aminobiphenyl	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
4-Bromophenyl-phenylether	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
4-Chloro-3-Methylphenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
4-Chloroaniline	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
4-Chlorobenzilate	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
4-Chlorophenyl-phenylether	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
4-Nitroaniline	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
4-Nitrophenol	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
4-Nitroquinoline-1-oxide	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
4-Phenylenediamine	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
5-Nitro-o-toluidine	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
7,12-Dimethylbenz(a)anthracene	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
a,a'-Dimethylphenethylamine	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Acenaphthene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Acenaphthylene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Acetophenone	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Aniline	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Anthracene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Aramite	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Benzidine	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Benzo(a)anthracene	4.1	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Benzo(a)pyrene	4.6	0.27 J	ND(0.50)	ND(0.42)	0.57
Benzo(b)fluoranthene	3.2	ND(0.42)	ND(0.49)	ND(0.42)	0.51
Benzo(g,h,i)perylene	4.2	ND(0.43)	ND(0.50)	ND(0.42)	1.3
Benzo(k)fluoranthene	3.9	0.22 J	ND(0.50)	ND(0.42)	0.47
Benzoic Acid	NS	NS	NS	NS	NS
Benzyl Alcohol	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
bis(2-Chloroethoxy)methane	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
bis(2-Chloroethyl)ether	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
bis(2-Chloroisopropyl)ether	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
bis(2-Ethylhexyl)phthalate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Butylbenzylphthalate	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Chrysene	4.1	0.25 J	ND(0.50)	ND(0.42)	ND(0.42)
Diallate	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Dibenzo(a,h)anthracene	3.6	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Dibenzofuran	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Diethylphthalate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Dimethylphthalate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Di-n-Butylphthalate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Di-n-Octylphthalate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Dinoseb	NS	NS	NS	NS	NS
Diphenylamine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Ethyl Methacrylate	NS	NS	NS	NS	NS
Ethyl Methanesulfonate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-28-SS-9/SB-7 2-4 12/04/00	I9-9-28-SS-11 0-1 12/04/00	I9-9-28-SS-11 10-12 12/04/00	I9-9-29-SB-1 0-1 12/05/00	I9-9-29-SB-1 4-6 12/05/00
Semivolatile Organics (continued)					
Fluoranthene	6.8	0.45	ND(0.50)	ND(0.42)	ND(0.42)
Fluorene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Hexachlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Hexachlorobutadiene	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Hexachlorocyclopentadiene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Hexachloroethane	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Hexachlorophene	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Hexachloropropene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Indeno(1,2,3-cd)pyrene	3.4	ND(0.87)	ND(1.0)	ND(0.86)	0.94
Isodrin	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Isophorone	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Isosafrole	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
Methapyrilene	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Methyl Methanesulfonate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Naphthalene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Nitrobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
N-Nitrosodiethylamine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
N-Nitrosodimethylamine	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
N-Nitroso-di-n-butylamine	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
N-Nitroso-di-n-propylamine	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
N-Nitrosodiphenylamine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
N-Nitrosomethylethylamine	ND(2.4)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
N-Nitrosomorpholine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
N-Nitrosopiperidine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
N-Nitrosopyrrolidine	ND(1.2)	ND(0.87)	ND(1.0)	ND(0.86)	ND(0.86)
o,o,o-Triethylphosphorothioate	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
o-Toluidine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
p-Dimethylaminoazobenzene	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Pentachlorobenzene	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Pentachloroethane	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Pentachloronitrobenzene	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Pentachlorophenol	ND(2.1)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Phenacetin	ND(6.0)	ND(2.2)	ND(2.6)	ND(2.2)	ND(2.2)
Phenanthrene	4.0	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Phenol	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Pronamide	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Pyrene	5.4	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Pyridine	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Safrole	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Sulfotep	NS	NS	NS	NS	NS
Thionazin	ND(1.2)	ND(0.43)	ND(0.50)	ND(0.42)	ND(0.42)
Furans					
2,3,7,8-TCDF	NS	0.0000036	ND(0.00000014)	0.000014	0.0000033
TCDFs (total)	NS	0.000017	ND(0.00000014)	ND(0.000096) X	ND(0.000021) X
1,2,3,7,8-PeCDF	NS	0.00000098	ND(0.00000011)	0.0000040	0.0000012 J
2,3,4,7,8-PeCDF	NS	0.00000083	ND(0.00000011)	0.0000052	0.0000012 J
PeCDFs (total)	NS	0.0000080	ND(0.00000011)	0.00019	ND(0.000010) X
1,2,3,4,7,8-HxCDF	NS	0.0000015 I	ND(0.00000011)	0.0000043	0.00000089 J
1,2,3,6,7,8-HxCDF	NS	ND(0.00000011)	ND(0.00000011)	0.0000025	0.00000050 J
1,2,3,7,8,9-HxCDF	NS	ND(0.00000014)	ND(0.00000014)	0.00000069 J	0.00000015 J
2,3,4,6,7,8-HxCDF	NS	ND(0.00000011)	ND(0.00000011)	0.0000021 J	0.00000034 J
HxCDFs (total)	NS	0.0000020	ND(0.00000011)	ND(0.000029) X	0.0000039
1,2,3,4,6,7,8-HpCDF	NS	ND(0.0000010) X	ND(0.00000013)	0.0000064	0.00000090 J
1,2,3,4,7,8,9-HpCDF	NS	ND(0.00000013)	ND(0.00000017)	0.00000097 J	0.00000022 J
HpCDFs (total)	NS	ND(0.000000092)	ND(0.00000013)	0.000012	0.0000015
OCDF	NS	0.0000012	0.00000068	0.0000048	0.00000066 J
Dioxins					
2,3,7,8-TCDD	NS	ND(0.000000044)	ND(0.00000023)	ND(0.00000024) X	ND(0.00000016)
TCDDs (total)	NS	ND(0.000000044)	ND(0.00000023)	ND(0.0000031) X	ND(0.0000010) X
1,2,3,7,8-PeCDD	NS	ND(0.00000034)	ND(0.00000027)	ND(0.00000039) X	0.00000016 J
PeCDDs (total)	NS	ND(0.00000034)	ND(0.00000027)	ND(0.0000050) X	ND(0.0000027) X
1,2,3,4,7,8-HxCDD	NS	ND(0.00000012)	ND(0.00000018)	0.00000025 J	ND(0.00000014) X
1,2,3,6,7,8-HxCDD	NS	ND(0.00000012)	ND(0.00000017)	0.00000052 J	0.00000031 J
1,2,3,7,8,9-HxCDD	NS	ND(0.00000012)	ND(0.00000017)	0.00000052 J	0.00000026 J
HxCDDs (total)	NS	ND(0.00000012)	ND(0.00000017)	ND(0.0000073) X	ND(0.0000042) X
1,2,3,4,6,7,8-HpCDD	NS	0.0000020	0.00000088	0.00019	0.0000042
HpCDDs (total)	NS	0.0000036	0.00000088	0.000017	0.000010
OCDD	NS	0.000012 B	0.000010 B	0.00019	0.00012
Total TEQs (WHO TEFs)	NS	0.0000012	0.00000035	0.0000076	0.0000015

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-28-SS-9/SB-7 2-4 12/04/00	I9-9-28-SS-11 0-1 12/04/00	I9-9-28-SS-11 10-12 12/04/00	I9-9-29-SB-1 0-1 12/05/00	I9-9-29-SB-1 4-6 12/05/00
Inorganics						
Aluminum		NS	NS	NS	NS	NS
Antimony		ND(11.0)	ND(12.0)	ND(14.0)	ND(12.0)	ND(12.0)
Arsenic		ND(18.0)	ND(19.0)	ND(23.0)	ND(19.0)	ND(19.0)
Barium		39.0	ND(39.0)	ND(46.0)	74.0	ND(38.0)
Beryllium		0.310	0.340	0.370	0.290	0.250
Cadmium		ND(1.80)	ND(1.90)	ND(2.30)	ND(1.90)	2.20
Calcium		NS	NS	NS	NS	NS
Chromium		8.80	7.80	ND(6.10)	9.50	15.0
Cobalt		ND(9.10)	ND(9.70)	ND(11.0)	ND(9.60)	ND(9.60)
Copper		26.0	ND(19.0)	ND(23.0)	1100	760
Cyanide		NS	ND(1.00)	ND(1.00)	ND(1.30)	ND(1.00)
Iron		NS	NS	NS	NS	NS
Lead		46.0	8.70	5.40	180	82.0
Magnesium		NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS
Mercury		ND(0.240)	ND(0.260)	ND(0.300)	0.430	ND(0.260)
Nickel		14.0	11.0	11.0	37.0	120
Potassium		NS	NS	NS	NS	NS
Selenium		ND(0.910)	ND(0.970)	ND(1.10)	ND(0.960)	ND(0.960)
Silver		ND(0.910)	ND(0.970)	ND(1.10)	ND(0.960)	ND(0.960)
Sodium		NS	NS	NS	NS	NS
Sulfide		NS	8.20	12.0	30.0	71.0
Thallium		ND(1.80)	ND(1.90)	ND(2.30)	ND(1.90)	ND(1.90)
Tin		ND(54.0)	ND(58.0)	ND(68.0)	ND(58.0)	ND(58.0)
Vanadium		ND(9.10)	ND(9.70)	ND(11.0)	13.0	16.0
Zinc		48.0	34.0	31.0	460	240

TABLE 2-5
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PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-29-SB-1 14-16 12/05/00	I9-9-29-SB-7 0-1 09/21/99	I9-9-29-SB-7 2-4 09/21/99	I9-9-29-SB-7 4-6 12/05/00	I9-9-29-SB-8 0-1 09/21/99	I9-9-29-SB-8 2-4 09/21/99
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.0089)	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	ND(0.0089)	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	ND(0.0089)	NS	NS	NS	NS	NS
1,2-Dibromoethane	ND(0.0089)	NS	NS	NS	NS	NS
1,2-Dichloroethane	ND(0.0089)	NS	NS	NS	NS	NS
1,2-Dichloropropane	ND(0.0089)	NS	NS	NS	NS	NS
1,4-Dioxane	ND(0.20)	NS	NS	NS	NS	NS
2-Butanone	ND(0.10)	NS	NS	NS	NS	NS
2-Chloro-1,3-butadiene	ND(0.0089)	NS	NS	NS	NS	NS
2-Chloroethylvinylether	ND(0.0089)	NS	NS	NS	NS	NS
2-Hexanone	ND(0.018)	NS	NS	NS	NS	NS
3-Chloropropene	ND(0.018)	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	ND(0.018)	NS	NS	NS	NS	NS
Acetone	ND(0.10)	NS	NS	NS	NS	NS
Acetonitrile	ND(0.18)	NS	NS	NS	NS	NS
Acrolein	ND(0.18)	NS	NS	NS	NS	NS
Acrylonitrile	ND(0.018)	NS	NS	NS	NS	NS
Benzene	ND(0.0089)	NS	NS	NS	NS	NS
Bromodichloromethane	ND(0.0089)	NS	NS	NS	NS	NS
Bromoform	ND(0.0089)	NS	NS	NS	NS	NS
Bromomethane	ND(0.018)	NS	NS	NS	NS	NS
Carbon Disulfide	ND(0.010)	NS	NS	NS	NS	NS
Carbon Tetrachloride	ND(0.0089)	NS	NS	NS	NS	NS
Chlorobenzene	ND(0.0089)	NS	NS	NS	NS	NS
Chloroethane	ND(0.018)	NS	NS	NS	NS	NS
Chloroform	ND(0.0089)	NS	NS	NS	NS	NS
Chloromethane	ND(0.018)	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	ND(0.0089)	NS	NS	NS	NS	NS
Dibromochloromethane	ND(0.0089)	NS	NS	NS	NS	NS
Dibromomethane	ND(0.0089)	NS	NS	NS	NS	NS
Dichlorodifluoromethane	ND(0.018)	NS	NS	NS	NS	NS
Ethyl Methacrylate	ND(0.018)	NS	NS	NS	NS	NS
Ethylbenzene	ND(0.0089)	NS	NS	NS	NS	NS
Iodomethane	ND(0.0089)	NS	NS	NS	NS	NS
Isobutanol	ND(0.36)	NS	NS	NS	NS	NS
Methacrylonitrile	ND(0.018)	NS	NS	NS	NS	NS
Methyl Methacrylate	ND(0.018)	NS	NS	NS	NS	NS
Methylene Chloride	ND(0.0089)	NS	NS	NS	NS	NS
Propionitrile	ND(0.089)	NS	NS	NS	NS	NS
Styrene	ND(0.0089)	NS	NS	NS	NS	NS
Tetrachloroethene	ND(0.0089)	NS	NS	NS	NS	NS
Toluene	ND(0.0089)	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	ND(0.0089)	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	ND(0.0089)	NS	NS	NS	NS	NS
trans-1,4-Dichloro-2-butene	ND(0.018)	NS	NS	NS	NS	NS
Trichloroethene	ND(0.0089)	NS	NS	NS	NS	NS
Trichlorofluoromethane	ND(0.0089)	NS	NS	NS	NS	NS
Vinyl Acetate	ND(0.018)	NS	NS	NS	NS	NS
Vinyl Chloride	ND(0.018)	NS	NS	NS	NS	NS
Xylenes (total)	ND(0.0089)	NS	NS	NS	NS	NS
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
1,2,4-Trichlorobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
1,2-Dichlorobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
1,2-Diphenylhydrazine	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
1,3,5-Trinitrobenzene	ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
1,3-Dichlorobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
1,3-Dinitrobenzene	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
1,4-Dichlorobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
1,4-Naphthoquinone	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
1-Naphthylamine	ND(3.0)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
2,3,4,6-Tetrachlorophenol	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-1 14-16 12/05/00	I9-9-29-SB-7 0-1 09/21/99	I9-9-29-SB-7 2-4 09/21/99	I9-9-29-SB-7 4-6 12/05/00	I9-9-29-SB-8 0-1 09/21/99	I9-9-29-SB-8 2-4 09/21/99
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2,4,6-Trichlorophenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2,4-Dichlorophenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2,4-Dimethylphenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2,4-Dinitrophenol		ND(3.0)	ND(18)	ND(3.5)	ND(2.2)	ND(35)	ND(3.3)
2,4-Dinitrotoluene		ND(3.0)	ND(2.0)	ND(0.38)	ND(2.2)	ND(3.9)	ND(0.36)
2,6-Dichlorophenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2,6-Dinitrotoluene		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
2-Acetylaminofluorene		ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
2-Chloronaphthalene		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
2-Chlorophenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2-Methylnaphthalene		ND(0.59)	0.80 J	ND(0.77)	ND(1.3)	ND(7.7)	ND(0.73)
2-Methylphenol		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
2-Naphthylamine		ND(3.0)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
2-Nitroaniline		ND(3.0)	ND(8.0)	ND(1.5)	ND(2.2)	ND(15)	ND(1.4)
2-Nitrophenol		ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
2-Picoline		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
3&4-Methylphenol		ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
3,3'-Dichlorobenzidine		ND(3.0)	ND(2.0)	ND(0.38)	ND(2.2)	ND(3.9)	ND(0.36)
3,3'-Dimethylbenzidine		ND(3.0)	ND(2.0)	ND(0.38)	ND(6.4)	ND(3.9)	ND(0.36)
3-Methylcholanthrene		ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
3-Nitroaniline		ND(3.0)	ND(8.0)	ND(1.5)	ND(2.2)	ND(15)	ND(1.4)
4,6-Dinitro-2-methylphenol		ND(0.59)	ND(20)	ND(3.8)	ND(1.3)	ND(39)	ND(3.6)
4-Aminobiphenyl		ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
4-Bromophenyl-phenylether		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
4-Chloro-3-Methylphenol		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
4-Chloroaniline		ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
4-Chlorobenzilate		ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
4-Chlorophenyl-phenylether		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
4-Nitroaniline		ND(3.0)	ND(20)	ND(3.8)	ND(2.2)	ND(39)	ND(3.6)
4-Nitrophenol		ND(3.0)	ND(20)	ND(3.8)	ND(2.2)	ND(39)	ND(3.6)
4-Nitroquinoline-1-oxide		ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
4-Phenylenediamine		ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
5-Nitro-o-toluidine		ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
7,12-Dimethylbenz(a)anthracene		ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
a,a'-Dimethylphenethylamine		ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
Acenaphthene		ND(0.59)	1.1 J	ND(0.38)	ND(1.3)	1.2 J	ND(0.36)
Acenaphthylene		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Acetophenone		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Aniline		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Anthracene		ND(0.59)	2.8	ND(0.38)	ND(1.3)	2.3 J	ND(0.36)
Aramite		ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
Benzidine		ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Benzo(a)anthracene		ND(0.59)	4.2	0.28 J	ND(1.3)	3.2 J	0.17 J
Benzo(a)pyrene		ND(0.59)	4.3	0.47	ND(1.3)	3.4 J	0.29 J
Benzo(b)fluoranthene		ND(0.59)	3.7	0.95	ND(1.3)	3.2 J	0.50
Benzo(g,h,i)perylene		ND(0.59)	1.5 J	0.24 J	ND(1.3)	2.2 J	0.29 J
Benzo(k)fluoranthene		ND(0.59)	4.1	1.1	ND(1.3)	3.4 J	0.41
Benzoic Acid		NS	NS	NS	NS	NS	NS
Benzyl Alcohol		ND(1.2)	ND(8.0)	ND(1.5)	ND(1.3)	ND(15)	ND(1.4)
bis(2-Chloroethoxy)methane		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
bis(2-Chloroethyl)ether		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
bis(2-Chloroisopropyl)ether		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
bis(2-Ethylhexyl)phthalate		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Butylbenzylphthalate		ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Chrysene		ND(0.59)	4.2	0.36 J	ND(1.3)	3.5 J	0.26 J
Diallate		ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Dibenzo(a,h)anthracene		ND(1.2)	0.63 J	0.13 J	ND(1.3)	0.93 J	0.13 J
Dibenzofuran		ND(0.59)	0.77 J	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Diethylphthalate		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Dimethylphthalate		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Di-n-Butylphthalate		ND(0.59)	ND(2.0)	0.086 J	ND(1.3)	ND(3.9)	ND(0.36)
Di-n-Octylphthalate		ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Dinoseb		NS	NS	NS	NS	NS	NS
Diphenylamine		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Ethyl Methacrylate		NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-29-SB-1 14-16 12/05/00	I9-9-29-SB-7 0-1 09/21/99	I9-9-29-SB-7 2-4 09/21/99	I9-9-29-SB-7 4-6 12/05/00	I9-9-29-SB-8 0-1 09/21/99	I9-9-29-SB-8 2-4 09/21/99
Semivolatile Organics (continued)						
Fluoranthene	ND(0.59)	9.6	0.31 J	ND(1.3)	8.7	0.14 J
Fluorene	ND(0.59)	1.7 J	ND(0.38)	ND(1.3)	1.3 J	ND(0.36)
Hexachlorobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Hexachlorobutadiene	ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Hexachlorocyclopentadiene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Hexachloroethane	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Hexachlorophene	ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
Hexachloropropene	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Indeno(1,2,3-cd)pyrene	ND(1.2)	1.6 J	0.27 J	ND(1.3)	2.2 J	0.31 J
Isodrin	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Isophorone	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Isosafrole	ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Methapyrilene	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
Methyl Methanesulfonate	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Naphthalene	ND(0.59)	1.5 J	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
Nitrobenzene	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
N-Nitrosodiethylamine	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
N-Nitrosodimethylamine	ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
N-Nitroso-di-n-butylamine	ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
N-Nitroso-di-n-propylamine	ND(1.2)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
N-Nitrosodiphenylamine	ND(0.59)	ND(2.0)	ND(0.38)	ND(1.3)	ND(3.9)	ND(0.36)
N-Nitrosomethylethylamine	ND(1.2)	ND(4.1)	ND(0.78)	ND(2.6)	ND(7.8)	ND(0.74)
N-Nitrosomorpholine	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
N-Nitrosopiperidine	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
N-Nitrosopyrrolidine	ND(1.2)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
o,o,o-Triethylphosphorothioate	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
o-Toluidine	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
p-Dimethylaminoazobenzene	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
Pentachlorobenzene	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Pentachloroethane	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Pentachloronitrobenzene	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
Pentachlorophenol	ND(3.0)	ND(20)	ND(3.8)	ND(2.2)	ND(39)	ND(3.6)
Phenacetin	ND(3.0)	ND(4.1)	ND(0.78)	ND(6.4)	ND(7.8)	ND(0.74)
Phenanthrene	ND(0.59)	11	0.16 J	ND(1.3)	10	ND(0.36)
Phenol	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Pronamide	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Pyrene	ND(0.59)	8.2	0.31 J	ND(1.3)	6.6	0.13 J
Pyridine	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Safrole	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Sulfotep	NS	NS	NS	NS	NS	NS
Thionazin	ND(0.59)	ND(4.1)	ND(0.78)	ND(1.3)	ND(7.8)	ND(0.74)
Furans						
2,3,7,8-TCDF	ND(0.00000031) X	0.000098	0.000017	NS	0.000082	0.0000084
TCDFs (total)	ND(0.0000088) X	0.00043	0.000083	NS	0.00037	0.000022
1,2,3,7,8-PeCDF	0.00000028 J	0.000031	0.0000065 J	NS	0.000021	ND(0.0000039)
2,3,4,7,8-PeCDF	0.00000053 J	ND(0.0000020)	ND(0.0000013)	NS	0.000022	0.0000038 J
PeCDFs (total)	ND(0.0000055) X	0.00028	0.000051	NS	0.00026	0.0000078 J
1,2,3,4,7,8-HxCDF	0.00000092 J	0.000053	0.0000085 J	NS	0.000035	ND(0.0000088)
1,2,3,6,7,8-HxCDF	0.00000041 J	0.000015	ND(0.0000066)	NS	ND(0.0000093)	ND(0.0000092)
1,2,3,7,8,9-HxCDF	ND(0.000000084)	ND(0.0000098)	ND(0.0000063)	NS	ND(0.0000089)	ND(0.0000087)
2,3,4,6,7,8-HxCDF	0.00000031 J	ND(0.000011)	ND(0.0000069)	NS	ND(0.0000098)	ND(0.0000096)
HxCDFs (total)	0.0000035	0.00018	0.000018	NS	0.00012	0.000013
1,2,3,4,6,7,8-HpCDF	0.0000022 J	ND(0.000039)	ND(0.000010)	NS	ND(0.000021)	ND(0.000013)
1,2,3,4,7,8,9-HpCDF	0.0000015 J	ND(0.000040)	ND(0.000011)	NS	ND(0.000022)	ND(0.000013)
HpCDFs (total)	ND(0.0000028) X	ND(0.000040)	ND(0.000011)	NS	0.000028	ND(0.000013)
OCDF	0.0000021 J	ND(0.000013)	ND(0.0000020)	NS	ND(0.0000048)	ND(0.0000014)
Dioxins						
2,3,7,8-TCDD	ND(0.000000078)	ND(0.0000023)	ND(0.0000041)	NS	ND(0.0000054)	ND(0.0000043)
TCDDs (total)	0.00000038	0.000093	ND(0.0000041)	NS	ND(0.0000054)	ND(0.0000043)
1,2,3,7,8-PeCDD	0.00000014 J	ND(0.0000045)	ND(0.0000041)	NS	ND(0.0000057)	ND(0.0000042)
PeCDDs (total)	ND(0.0000010) X	0.000025	ND(0.0000041)	NS	ND(0.0000057)	ND(0.0000042)
1,2,3,4,7,8-HxCDD	ND(0.000000072)	ND(0.0000071)	ND(0.0000040)	NS	ND(0.0000066)	ND(0.0000064)
1,2,3,6,7,8-HxCDD	0.00000015 J	ND(0.0000088)	ND(0.0000050)	NS	ND(0.0000081)	ND(0.0000079)
1,2,3,7,8,9-HxCDD	ND(0.000000068)	ND(0.0000079)	ND(0.0000045)	NS	ND(0.0000073)	ND(0.0000071)
HxCDDs (total)	ND(0.00000071) X	0.000074	ND(0.0000050)	NS	ND(0.0000081)	ND(0.0000079)
1,2,3,4,6,7,8-HpCDD	0.00000089 J	ND(0.000080)	ND(0.000015)	NS	ND(0.000027)	0.000017
HpCDDs (total)	0.0000016	0.00012	ND(0.000015)	NS	0.000029	0.000017
OCDD	0.0000069	0.00093	0.00027	NS	0.00043	0.00059
Total TEQs (WHO TEFs)	0.00000071	0.000025	0.0000092	NS	0.000032	0.000010

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-1 14-16 12/05/00	I9-9-29-SB-7 0-1 09/21/99	I9-9-29-SB-7 2-4 09/21/99	I9-9-29-SB-7 4-6 12/05/00	I9-9-29-SB-8 0-1 09/21/99	I9-9-29-SB-8 2-4 09/21/99
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(16.0)	ND(8.99)	ND(7.80)	69.0	ND(7.92)	ND(7.03)
Arsenic		ND(27.0)	52.5	12.3	ND(19.0)	14.2	7.28
Barium		66.0	103	117	110	78.1	88.4
Beryllium		0.550	ND(0.750)	ND(0.651)	0.280	ND(0.656)	ND(0.585)
Cadmium		4.60	1.35	0.756	ND(1.90)	1.09	0.949
Calcium		NS	NS	NS	NS	NS	NS
Chromium		16.0	15.6	32.2	11.0	18.9	44.4
Cobalt		ND(13.0)	ND(7.49)	ND(6.50)	ND(9.70)	7.96	ND(5.86)
Copper		97.0	116	1010	270	ND(6590)	ND(23400)
Cyanide		ND(1.80)	NS	NS	NS	NS	NS
Iron		NS	NS	NS	NS	NS	NS
Lead		1200	283	372	850	248	283
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		0.670	8.13	0.135	0.290	0.371	ND(0.0552)
Nickel		32.0	23.4	29.8	14.0	64.1	53.8
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(1.30)	1.48	ND(0.651)	ND(0.970)	0.679	ND(0.585)
Silver		ND(1.30)	ND(1.45)	ND(1.34)	ND(0.970)	ND(1.31)	ND(1.19)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		690	NS	NS	NS	NS	NS
Thallium		ND(2.70)	ND(7.49)	ND(6.50)	ND(1.90)	ND(6.59)	ND(5.86)
Tin		ND(80.0)	ND(74.9)	397	340	100	63.8
Vanadium		20.0	23.1	21.0	ND(9.70)	24.5	20.8
Zinc		720	331	300	380	329	443

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-8 6-8 12/05/00	I9-9-29-SB-9 0-1 09/21/99	I9-9-29-SB-9 2-4 09/21/99	I9-9-29-SB-9 4-6 09/21/99	I9-9-29-SS-4 0-1 12/05/00	I9-9-29-SS-4 2-4 12/05/00
Volatile Organics							
1,1,1,2-Tetrachloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,1,1-Trichloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,1,2,2-Tetrachloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,1,2-Trichloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,1-Dichloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,1-Dichloroethene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,2,3-Trichloropropane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,2-Dibromo-3-chloropropane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,2-Dibromoethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,2-Dichloroethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,2-Dichloropropane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
1,4-Dioxane		ND(0.20)	NS	NS	NS	ND(0.20)	ND(0.20)
2-Butanone		ND(0.10)	NS	NS	NS	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
2-Chloroethylvinylether		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
2-Hexanone		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
3-Chloropropene		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
4-Methyl-2-pentanone		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Acetone		ND(0.10)	NS	NS	NS	ND(0.10)	ND(0.10)
Acetonitrile		ND(0.16)	NS	NS	NS	ND(0.14)	ND(0.12)
Acrolein		ND(0.16)	NS	NS	NS	ND(0.14)	ND(0.12)
Acrylonitrile		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Benzene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Bromodichloromethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Bromoform		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Bromomethane		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Carbon Disulfide		ND(0.010)	NS	NS	NS	ND(0.010)	ND(0.010)
Carbon Tetrachloride		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Chlorobenzene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Chloroethane		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Chloroform		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Chloromethane		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
cis-1,3-Dichloropropene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Dibromochloromethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Dibromomethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Dichlorodifluoromethane		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Ethyl Methacrylate		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Ethylbenzene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Iodomethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Isobutanol		ND(0.33)	NS	NS	NS	ND(0.28)	ND(0.25)
Methacrylonitrile		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Methyl Methacrylate		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Methylene Chloride		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Propionitrile		ND(0.082)	NS	NS	NS	ND(0.071)	ND(0.062)
Styrene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Tetrachloroethene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Toluene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
trans-1,2-Dichloroethene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
trans-1,3-Dichloropropene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
trans-1,4-Dichloro-2-butene		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Trichloroethene		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Trichlorofluoromethane		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Vinyl Acetate		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Vinyl Chloride		ND(0.016)	NS	NS	NS	ND(0.014)	ND(0.012)
Xylenes (total)		ND(0.0082)	NS	NS	NS	ND(0.0071)	ND(0.0062)
Semivolatile Organics							
1,2,4,5-Tetrachlorobenzene		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
1,2,4-Trichlorobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
1,2-Dichlorobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
1,2-Diphenylhydrazine		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
1,3,5-Trinitrobenzene		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
1,3-Dichlorobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
1,3-Dinitrobenzene		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
1,4-Dichlorobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
1,4-Naphthoquinone		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
1-Naphthylamine		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.1)
2,3,4,6-Tetrachlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-8 6-8 12/05/00	I9-9-29-SB-9 0-1 09/21/99	I9-9-29-SB-9 2-4 09/21/99	I9-9-29-SB-9 4-6 09/21/99	I9-9-29-SS-4 0-1 12/05/00	I9-9-29-SS-4 2-4 12/05/00
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2,4,6-Trichlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2,4-Dichlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2,4-Dimethylphenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2,4-Dinitrophenol		ND(2.8)	ND(37)	ND(3.1)	ND(3.3)	ND(2.4)	ND(2.1)
2,4-Dinitrotoluene		ND(2.8)	ND(4.1)	ND(0.35)	ND(0.37)	ND(2.4)	ND(2.1)
2,6-Dichlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2,6-Dinitrotoluene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
2-Acetylaminofluorene		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
2-Chloronaphthalene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
2-Chlorophenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
2-Methylnaphthalene		ND(0.55)	0.91 J	ND(0.69)	ND(0.73)	ND(0.47)	ND(0.44)
2-Methylphenol		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
2-Naphthylamine		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.1)
2-Nitroaniline		ND(2.8)	ND(16)	ND(1.4)	ND(1.4)	ND(2.4)	ND(2.1)
2-Nitrophenol		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
2-Picoline		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
3&4-Methylphenol		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
3,3'-Dichlorobenzidine		ND(2.8)	ND(4.1)	ND(0.35)	ND(0.37)	ND(2.4)	ND(2.1)
3,3'-Dimethylbenzidine		ND(2.8)	ND(4.1)	ND(0.35)	ND(0.37)	ND(2.4)	ND(2.2)
3-Methylcholanthrene		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
3-Nitroaniline		ND(2.8)	ND(16)	ND(1.4)	ND(1.4)	ND(2.4)	ND(2.1)
4,6-Dinitro-2-methylphenol		ND(0.55)	ND(41)	ND(3.5)	ND(3.7)	ND(0.47)	ND(0.44)
4-Aminobiphenyl		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
4-Bromophenyl-phenylether		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
4-Chloro-3-Methylphenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
4-Chloroaniline		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
4-Chlorobenzilate		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
4-Chlorophenyl-phenylether		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
4-Nitroaniline		ND(2.8)	ND(41)	ND(3.5)	ND(3.7)	ND(2.4)	ND(2.1)
4-Nitrophenol		ND(2.8)	ND(41)	ND(3.5)	ND(3.7)	ND(2.4)	ND(2.1)
4-Nitroquinoline-1-oxide		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
4-Phenylenediamine		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
5-Nitro-o-toluidine		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
7,12-Dimethylbenz(a)anthracene		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
a,a'-Dimethylphenethylamine		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
Acenaphthene		ND(0.55)	4.7	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Acenaphthylene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Acetophenone		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Aniline		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Anthracene		ND(0.55)	9.2	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Aramite		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
Benzidine		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
Benzo(a)anthracene		ND(0.55)	10	0.17 J	0.28 J	ND(0.47)	ND(0.44)
Benzo(a)pyrene		ND(0.55)	10	0.17 J	0.52	ND(0.47)	ND(0.44)
Benzo(b)fluoranthene		ND(0.55)	11	0.27 J	0.60	ND(0.47)	ND(0.44)
Benzo(g,h,i)perylene		ND(0.55)	6.0	0.26 J	0.62	ND(0.47)	ND(0.44)
Benzo(k)fluoranthene		ND(0.55)	6.6	0.28 J	0.68	ND(0.47)	ND(0.44)
Benzoic Acid		NS	NS	NS	NS	NS	NS
Benzyl Alcohol		ND(1.1)	ND(16)	ND(1.4)	ND(1.4)	ND(0.95)	ND(0.84)
bis(2-Chloroethoxy)methane		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
bis(2-Chloroethyl)ether		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
bis(2-Chloroisopropyl)ether		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
bis(2-Ethylhexyl)phthalate		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Butylbenzylphthalate		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
Chrysene		ND(0.55)	11	0.21 J	0.40	ND(0.47)	ND(0.44)
Diallate		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
Dibenzo(a,h)anthracene		ND(1.1)	2.6 J	0.10 J	0.24 J	ND(0.95)	ND(0.84)
Dibenzofuran		ND(0.55)	3.1 J	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Diethylphthalate		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Dimethylphthalate		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Di-n-Butylphthalate		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Di-n-Octylphthalate		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Dinoseb		NS	NS	NS	NS	NS	NS
Diphenylamine		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Ethyl Methacrylate		NS	NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-8 6-8 12/05/00	I9-9-29-SB-9 0-1 09/21/99	I9-9-29-SB-9 2-4 09/21/99	I9-9-29-SB-9 4-6 09/21/99	I9-9-29-SS-4 0-1 12/05/00	I9-9-29-SS-4 2-4 12/05/00
Semivolatile Organics (continued)							
Fluoranthene		ND(0.55)	30	0.44	0.28 J	ND(0.47)	ND(0.44)
Fluorene		ND(0.55)	5.9	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Hexachlorobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Hexachlorobutadiene		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
Hexachlorocyclopentadiene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Hexachloroethane		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Hexachlorophene		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
Hexachloropropene		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Indeno(1,2,3-cd)pyrene		ND(1.1)	5.9	0.24 J	0.59	ND(0.95)	ND(0.84)
Isodrin		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Isophorone		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Isosafrole		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
Methapyrilene		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
Methyl Methanesulfonate		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Naphthalene		ND(0.55)	1.9 J	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
Nitrobenzene		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
N-Nitrosodiethylamine		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
N-Nitrosodimethylamine		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
N-Nitroso-di-n-butylamine		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
N-Nitroso-di-n-propylamine		ND(1.1)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.95)	ND(0.84)
N-Nitrosodiphenylamine		ND(0.55)	ND(4.1)	ND(0.35)	ND(0.37)	ND(0.47)	ND(0.44)
N-Nitrosomethylethylamine		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.87)
N-Nitrosomorpholine		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
N-Nitrosopiperidine		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
N-Nitrosopyrrolidine		ND(1.1)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.95)	ND(0.84)
o,o,o-Triethylphosphorothioate		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
o-Toluidine		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
p-Dimethylaminoazobenzene		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
Pentachlorobenzene		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Pentachloroethane		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Pentachloronitrobenzene		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
Pentachlorophenol		ND(2.8)	ND(41)	ND(3.5)	ND(3.7)	ND(2.4)	ND(2.1)
Phenacetin		ND(2.8)	ND(8.3)	ND(0.70)	ND(0.75)	ND(2.4)	ND(2.2)
Phenanthrene		ND(0.55)	32	0.40	0.095 J	ND(0.47)	ND(0.44)
Phenol		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Pronamide		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Pyrene		ND(0.55)	20	0.29 J	0.24 J	ND(0.47)	ND(0.44)
Pyridine		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Safrole		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Sulfotep		NS	NS	NS	NS	NS	NS
Thionazin		ND(0.55)	ND(8.3)	ND(0.70)	ND(0.75)	ND(0.47)	ND(0.44)
Furans							
2,3,7,8-TCDF		0.0000013	0.000051	0.0000043	0.000010	0.000015	0.0000011
TCDFs (total)		ND(0.000022) X	0.00050	0.000018	0.000021	0.00014	ND(0.0000031) X
1,2,3,7,8-PeCDF		0.00000097 J	0.000031	ND(0.0000011)	0.0000021 J	0.0000057	0.00000036 J
2,3,4,7,8-PeCDF		0.0000016 J	ND(0.0000036)	ND(0.0000035)	0.0000034 J	0.0000080	0.0000010 J
PeCDFs (total)		0.000018	0.00040	ND(0.0000035)	0.000023	0.000095	0.0000046
1,2,3,4,7,8-HxCDF		0.0000015 J	0.000052	ND(0.0000081)	ND(0.000015)	0.0000078	0.00000069 J
1,2,3,6,7,8-HxCDF		0.0000014 J	0.000020	ND(0.0000084)	ND(0.000016)	0.0000046	0.00000039 J
1,2,3,7,8,9-HxCDF		0.00000042 J	ND(0.0000037)	ND(0.0000080)	ND(0.000015)	0.00000080 J	0.00000033 J
2,3,4,6,7,8-HxCDF		0.0000015 J	0.0000099 J	ND(0.0000088)	ND(0.000017)	0.0000052	0.00000039 J
HxCDFs (total)		ND(0.000013) X	0.00018	ND(0.0000088)	ND(0.000017)	0.000077	ND(0.0000030) X
1,2,3,4,6,7,8-HpCDF		0.0000043	0.000047	ND(0.000016)	ND(0.000055)	0.000018	0.00000077 J
1,2,3,4,7,8,9-HpCDF		0.00000035 J	ND(0.000019)	ND(0.000081)	ND(0.000057)	0.0000018 J	0.00000027 J
HpCDFs (total)		ND(0.0000059) X	0.000073	ND(0.000081)	ND(0.000057)	0.000034	0.0000015
OCDF		0.0000017 J	ND(0.0000070)	ND(0.0000012)	ND(0.0000037)	0.000020	ND(0.00000090) X
Dioxins							
2,3,7,8-TCDD		ND(0.000000085)	ND(0.0000089)	ND(0.0000041)	ND(0.0000052)	ND(0.00000027) X	ND(0.000000070)
TCDDs (total)		ND(0.0000018) X	ND(0.0000089)	ND(0.0000041)	ND(0.0000052)	ND(0.0000071) X	ND(0.00000027)
1,2,3,7,8-PeCDD		0.00000042 J	ND(0.0000094)	ND(0.0000047)	ND(0.0000066)	0.00000057 J	0.000000062 J
PeCDDs (total)		0.0000060	ND(0.0000094)	ND(0.0000047)	ND(0.0000066)	ND(0.0000095) X	ND(0.00000040)
1,2,3,4,7,8-HxCDD		0.00000028 J	ND(0.0000026)	ND(0.000011)	ND(0.0000070)	ND(0.00000047) X	ND(0.000000068)
1,2,3,6,7,8-HxCDD		0.00000044 J	ND(0.0000032)	ND(0.000014)	ND(0.0000086)	0.0000014 J	ND(0.000000072)
1,2,3,7,8,9-HxCDD		0.00000031 J	ND(0.0000029)	ND(0.000013)	0.000018	0.00000087 J	ND(0.000000065)
HxCDDs (total)		ND(0.0000057) X	0.000032	ND(0.000014)	0.000018	ND(0.000013) X	0.00000019 J
1,2,3,4,6,7,8-HpCDD		0.0000020 J	ND(0.000041)	ND(0.000084)	0.000060	0.000022	0.00000056 J
HpCDDs (total)		0.0000038	ND(0.000041)	ND(0.000084)	0.00015	0.000041	0.00000096
OCDD		0.0000031 J	0.00022	0.00023	0.00087	0.00017	0.000042
Total TEQs (WHO TEFs)		0.0000021	0.000026	0.000010	0.000016	0.0000090	0.00000094

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SB-8 6-8 12/05/00	I9-9-29-SB-9 0-1 09/21/99	I9-9-29-SB-9 2-4 09/21/99	I9-9-29-SB-9 4-6 09/21/99	I9-9-29-SS-4 0-1 12/05/00	I9-9-29-SS-4 2-4 12/05/00
Inorganics							
Aluminum		NS	NS	NS	NS	NS	NS
Antimony		ND(15.0)	ND(8.09)	ND(5.98)	ND(7.35)	ND(13.0)	ND(11.0)
Arsenic		ND(25.0)	17.3	6.81	11.6	ND(21.0)	ND(19.0)
Barium		270	84.8	127	79.5	60.0	ND(37.0)
Beryllium		0.400	ND(0.672)	ND(0.503)	ND(0.612)	0.310	ND(0.190)
Cadmium		ND(2.50)	0.872	0.524	ND(0.612)	ND(2.10)	ND(1.90)
Calcium		NS	NS	NS	NS	NS	NS
Chromium		13.0	11.5	24.9	24.4	14.0	12.0
Cobalt		ND(12.0)	8.34	ND(4.98)	9.45	ND(11.0)	ND(9.40)
Copper		180	328	ND(4980)	437	44.0	ND(19.0)
Cyanide		ND(1.60)	NS	NS	NS	ND(1.40)	ND(1.20)
Iron		NS	NS	NS	NS	NS	NS
Lead		1800	210	135	43.0	160	91.0
Magnesium		NS	NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS	NS
Mercury		44.0	1.23	0.0530	0.449	0.650	ND(0.250)
Nickel		16.0	23.3	46.0	131	17.0	ND(7.50)
Potassium		NS	NS	NS	NS	NS	NS
Selenium		ND(1.20)	ND(0.672)	1.03	0.868	ND(1.10)	ND(0.940)
Silver		ND(1.20)	ND(1.49)	ND(1.09)	ND(1.16)	ND(1.10)	ND(0.940)
Sodium		NS	NS	NS	NS	NS	NS
Sulfide		18.0	NS	NS	NS	8.90	ND(6.20)
Thallium		ND(2.50)	ND(6.74)	ND(1.05)	ND(1.11)	ND(2.10)	ND(1.90)
Tin		410	68.6	109	ND(61.3)	ND(64.0)	ND(56.0)
Vanadium		19.0	17.9	26.4	39.6	14.0	ND(9.40)
Zinc		370	276	263	158	140	43.0

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-29-SS-4 12-14 12/05/00	I9-9-29-SS-7 0-1 12/05/00	I9-9-29-SS-7 2-4 12/05/00	I9-9-29-SS-7 6-8 12/05/00	I9-9-29-SS-10 0-1 12/05/00
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,1,1-Trichloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,1,2,2-Tetrachloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,1,2-Trichloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,1-Dichloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,1-Dichloroethene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,2,3-Trichloropropane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,2-Dibromo-3-chloropropane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,2-Dibromoethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,2-Dichloroethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,2-Dichloropropane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
1,4-Dioxane	ND(0.20) [ND(0.20)]	NS	NS	ND(0.20)	ND(0.20)
2-Butanone	ND(0.10) [ND(0.10)]	NS	NS	ND(0.10)	ND(0.10)
2-Chloro-1,3-butadiene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
2-Chloroethylvinylether	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
2-Hexanone	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
3-Chloropropene	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
4-Methyl-2-pentanone	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Acetone	ND(0.10) [ND(0.10)]	NS	NS	ND(0.10)	ND(0.10)
Acetonitrile	ND(0.14) [ND(0.14)]	NS	NS	ND(0.12)	ND(0.14)
Acrolein	ND(0.14) [ND(0.14)]	NS	NS	ND(0.12)	ND(0.14)
Acrylonitrile	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Benzene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Bromodichloromethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Bromoform	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Bromomethane	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Carbon Disulfide	ND(0.010) [ND(0.010)]	NS	NS	ND(0.010)	ND(0.010)
Carbon Tetrachloride	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Chlorobenzene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Chloroethane	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Chloroform	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Chloromethane	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
cis-1,3-Dichloropropene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Dibromochloromethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Dibromomethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Dichlorodifluoromethane	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Ethyl Methacrylate	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Ethylbenzene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Iodomethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Isobutanol	ND(0.28) [ND(0.28)]	NS	NS	ND(0.25)	ND(0.28)
Methacrylonitrile	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Methyl Methacrylate	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Methylene Chloride	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Propionitrile	ND(0.071) [ND(0.070)]	NS	NS	ND(0.062)	ND(0.070)
Styrene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Tetrachloroethene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Toluene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
trans-1,2-Dichloroethene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
trans-1,3-Dichloropropene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
trans-1,4-Dichloro-2-butene	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Trichloroethene	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Trichlorofluoromethane	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Vinyl Acetate	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Vinyl Chloride	ND(0.014) [ND(0.014)]	NS	NS	ND(0.012)	ND(0.014)
Xylenes (total)	ND(0.0071) [ND(0.0070)]	NS	NS	ND(0.0062)	ND(0.0070)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,2,4-Trichlorobenzene	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,2-Dichlorobenzene	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,2-Diphenylhydrazine	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,3,5-Trinitrobenzene	ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
1,3-Dichlorobenzene	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,3-Dinitrobenzene	ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
1,4-Dichlorobenzene	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
1,4-Naphthoquinone	ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
1-Naphthylamine	ND(2.4) [ND(2.4)]	ND(4.9)	ND(8.7)	ND(2.1)	ND(2.8)
2,3,4,6-Tetrachlorophenol	ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SS-4 12-14 12/05/00	I9-9-29-SS-7 0-1 12/05/00	I9-9-29-SS-7 2-4 12/05/00	I9-9-29-SS-7 6-8 12/05/00	I9-9-29-SS-10 0-1 12/05/00
Semivolatile Organics (continued)						
2,4,5-Trichlorophenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2,4,6-Trichlorophenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2,4-Dichlorophenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2,4-Dimethylphenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2,4-Dinitrophenol		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
2,4-Dinitrotoluene		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
2,6-Dichlorophenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2,6-Dinitrotoluene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2-Acetylaminofluorene		ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
2-Chloronaphthalene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2-Chlorophenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2-Methylnaphthalene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2-Methylphenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
2-Naphthylamine		ND(2.4) [ND(2.4)]	ND(4.9)	ND(8.7)	ND(2.1)	ND(2.8)
2-Nitroaniline		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
2-Nitrophenol		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
2-Picoline		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
3&4-Methylphenol		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
3,3'-Dichlorobenzidine		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
3,3'-Dimethylbenzidine		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
3-Methylcholanthrene		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
3-Nitroaniline		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
4,6-Dinitro-2-methylphenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
4-Aminobiphenyl		ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
4-Bromophenyl-phenylether		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
4-Chloro-3-Methylphenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
4-Chloroaniline		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
4-Chlorobenzilate		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
4-Chlorophenyl-phenylether		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
4-Nitroaniline		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
4-Nitrophenol		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
4-Nitroquinoline-1-oxide		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
4-Phenylenediamine		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
5-Nitro-o-toluidine		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
7,12-Dimethylbenz(a)anthracene		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
a,a'-Dimethylphenethylamine		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
Acenaphthene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Acenaphthylene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Acetophenone		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Aniline		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Anthracene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Aramite		ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
Benzidine		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Benzo(a)anthracene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Benzo(a)pyrene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Benzo(b)fluoranthene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.40)	ND(1.4)
Benzo(g,h,i)perylene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Benzo(k)fluoranthene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Benzoic Acid		NS	NS	NS	NS	NS
Benzyl Alcohol		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
bis(2-Chloroethoxy)methane		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
bis(2-Chloroethyl)ether		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
bis(2-Chloroisopropyl)ether		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
bis(2-Ethylhexyl)phthalate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Butylbenzylphthalate		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Chrysene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Diallate		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Dibenzo(a,h)anthracene		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Dibenzofuran		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Diethylphthalate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Dimethylphthalate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Di-n-Butylphthalate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Di-n-Octylphthalate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Dinoseb		NS	NS	NS	NS	NS
Diphenylamine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Ethyl Methacrylate		NS	NS	NS	NS	NS
Ethyl Methanesulfonate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SS-4 12-14 12/05/00	I9-9-29-SS-7 0-1 12/05/00	I9-9-29-SS-7 2-4 12/05/00	I9-9-29-SS-7 6-8 12/05/00	I9-9-29-SS-10 0-1 12/05/00
Semivolatile Organics (continued)						
Fluoranthene		ND(0.49) [ND(0.46)]	ND(2.5)	4.5	ND(0.41)	1.4
Fluorene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Hexachlorobenzene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Hexachlorobutadiene		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Hexachlorocyclopentadiene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Hexachloroethane		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Hexachlorophene		ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
Hexachloropropene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Indeno(1,2,3-cd)pyrene		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Isodrin		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Isophorone		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Isosafrole		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
Methapyrilene		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
Methyl Methanesulfonate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Naphthalene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Nitrobenzene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
N-Nitrosodiethylamine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
N-Nitrosodimethylamine		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
N-Nitroso-di-n-butylamine		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
N-Nitroso-di-n-propylamine		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
N-Nitrosodiphenylamine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
N-Nitrosomethylethylamine		ND(0.98) [ND(0.93)]	ND(4.9)	ND(8.7)	ND(0.83)	ND(2.8)
N-Nitrosomorpholine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
N-Nitrosopiperidine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
N-Nitrosopyrrolidine		ND(0.96) [ND(0.93)]	ND(2.5)	ND(4.3)	ND(0.83)	ND(1.4)
o,o,o-Triethylphosphorothioate		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
o-Toluidine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
p-Dimethylaminoazobenzene		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
Pentachlorobenzene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Pentachloroethane		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Pentachloronitrobenzene		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
Pentachlorophenol		ND(2.4) [ND(2.4)]	ND(2.5)	ND(4.3)	ND(2.1)	ND(2.4)
Phenacetin		ND(2.4) [ND(2.4)]	ND(12)	ND(22)	ND(2.1)	ND(6.9)
Phenanthrene		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Phenol		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Pronamide		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Pyrene		ND(0.49) [ND(0.46)]	ND(2.5)	4.7	ND(0.41)	ND(1.4)
Pyridine		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Safrole		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Sulfotep		NS	NS	NS	NS	NS
Thionazin		ND(0.49) [ND(0.46)]	ND(2.5)	ND(4.3)	ND(0.41)	ND(1.4)
Furans						
2,3,7,8-TCDF		ND(0.000000056) [ND(0.000000080)]	NS	NS	ND(0.000000094)	0.000027
TCDFs (total)		ND(0.000000056) [ND(0.000000080)]	NS	NS	ND(0.000000094)	ND(0.00025) X
1,2,3,7,8-PeCDF		ND(0.000000039) [ND(0.000000047)]	NS	NS	ND(0.000000052)	0.0000082
2,3,4,7,8-PeCDF		ND(0.000000038) [ND(0.000000046)]	NS	NS	ND(0.000000051)	0.000013
PeCDFs (total)		ND(0.000000038) [ND(0.000000046)]	NS	NS	ND(0.000000051)	0.00015
1,2,3,4,7,8-HxCDF		ND(0.000000052) [ND(0.000000066)]	NS	NS	ND(0.000000063)	0.000010
1,2,3,6,7,8-HxCDF		ND(0.000000049) [ND(0.000000063)]	NS	NS	ND(0.000000060)	0.0000062
1,2,3,7,8,9-HxCDF		ND(0.000000060) [ND(0.000000077)]	NS	NS	ND(0.000000073)	ND(0.0000014) X
2,3,4,6,7,8-HxCDF		ND(0.000000055) [ND(0.000000070)]	NS	NS	ND(0.000000067)	0.0000081
HxCDFs (total)		ND(0.000000054) [ND(0.000000069)]	NS	NS	ND(0.00000012) X	ND(0.00011) X
1,2,3,4,6,7,8-HpCDF		ND(0.000000058) [0.00000014 J]	NS	NS	ND(0.000000076)	0.000026
1,2,3,4,7,8,9-HpCDF		ND(0.000000071) [ND(0.00000011)]	NS	NS	ND(0.000000092)	0.0000027
HpCDFs (total)		ND(0.000000064) [0.00000023]	NS	NS	ND(0.000000083)	0.000054
OCDF		ND(0.00000014) [ND(0.00000016)]	NS	NS	ND(0.00000019)	0.000025
Dioxins						
2,3,7,8-TCDD		ND(0.000000065) [ND(0.000000095)]	NS	NS	ND(0.000000097)	ND(0.00000043) X
TCDDs (total)		ND(0.00000031) [ND(0.00000032)]	NS	NS	ND(0.000000097)	ND(0.000012) X
1,2,3,7,8-PeCDD		ND(0.000000058) [ND(0.000000068)]	NS	NS	ND(0.000000091)	0.0000012 J
PeCDDs (total)		ND(0.00000042) [ND(0.00000043)]	NS	NS	ND(0.00000044)	ND(0.000021) X
1,2,3,4,7,8-HxCDD		ND(0.000000083) [ND(0.00000011)]	NS	NS	ND(0.00000012)	0.00000093 J
1,2,3,6,7,8-HxCDD		ND(0.000000088) [ND(0.00000012)]	NS	NS	ND(0.00000012)	0.0000028
1,2,3,7,8,9-HxCDD		ND(0.000000079) [ND(0.00000011)]	NS	NS	ND(0.00000011)	0.0000019 J
HxCDDs (total)		ND(0.00000040) [ND(0.00000041)]	NS	NS	ND(0.00000041)	0.000029
1,2,3,4,6,7,8-HpCDD		ND(0.00000017) X [0.00000030 J]	NS	NS	ND(0.00000042) X	0.000043
HpCDDs (total)		ND(0.00000017) X [0.00000086]	NS	NS	ND(0.00000064) X	0.000085
OCDD		0.00000090 J [0.0000018 J]	NS	NS	0.00000069 J	0.00041
Total TEQs (WHO TEFs)		0.00000010 [0.00000013]	NS	NS	0.00000015	0.000015

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SS-4 12-14 12/05/00	I9-9-29-SS-7 0-1 12/05/00	I9-9-29-SS-7 2-4 12/05/00	I9-9-29-SS-7 6-8 12/05/00	I9-9-29-SS-10 0-1 12/05/00
Inorganics						
Aluminum		NS	NS	NS	NS	NS
Antimony		ND(13.0) [ND(12.0)]	ND(12.0)	ND(12.0)	ND(11.0)	ND(12.0)
Arsenic		ND(21.0) [ND(21.0)]	38.0	ND(20.0)	ND(18.0)	ND(21.0)
Barium		ND(43.0) [ND(42.0)]	100	61.0	ND(37.0)	69.0
Beryllium		ND(0.210) [ND(0.210)]	0.350	ND(0.200)	0.210	0.270
Cadmium		ND(2.10) [ND(2.10)]	ND(2.00)	ND(2.00)	ND(1.80)	2.50
Calcium		NS	NS	NS	NS	NS
Chromium		ND(5.70) [5.70]	14.0	9.60	9.00	24.0
Cobalt		ND(11.0) [ND(10.0)]	ND(10.0)	ND(9.90)	9.40	14.0
Copper		ND(21.0) [ND(21.0)]	95.0	50.0	ND(18.0)	320
Cyanide		ND(1.40) [ND(1.40)]	NS	NS	ND(1.20)	ND(1.40)
Iron		NS	NS	NS	NS	NS
Lead		4.40 [5.60]	180	310	8.20	200
Magnesium		NS	NS	NS	NS	NS
Manganese		NS	NS	NS	NS	NS
Mercury		ND(0.280) [ND(0.280)]	6.40	0.340	ND(0.250)	1.10
Nickel		10.0 [12.0]	22.0	14.0	17.0	420
Potassium		NS	NS	NS	NS	NS
Selenium		ND(1.10) [ND(1.00)]	ND(1.00)	ND(0.990)	ND(0.930)	ND(1.00)
Silver		ND(1.10) [ND(1.00)]	ND(1.00)	ND(0.990)	ND(0.930)	ND(1.00)
Sodium		NS	NS	NS	NS	NS
Sulfide		ND(7.10) [8.80]	NS	NS	ND(6.20)	ND(7.00)
Thallium		ND(2.10) [ND(2.10)]	ND(2.00)	ND(2.00)	ND(1.80)	ND(2.10)
Tin		ND(64.0) [ND(63.0)]	ND(61.0)	ND(59.0)	ND(56.0)	ND(63.0)
Vanadium		ND(11.0) [ND(10.0)]	18.0	12.0	ND(9.30)	20.0
Zinc		26.0 [32.0]	170	170	44.0	260

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	I9-9-29-SS-10 8-10 12/05/00	SLB-1-BB 0-0.5 01/19/95	SLB-1-TB 0-0.5 10/11/95	SLB-2-BB 0-0.5 01/19/95	SLB-2-TB 0-0.5 10/11/95	SLB-4-BB 0-0.5 01/19/95
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,1-Dichloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,1-Dichloroethene	ND(0.0069)	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	ND(0.0069)	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	ND(0.0069)	NS	NS	NS	NS	NS
1,2-Dibromoethane	ND(0.0069)	NS	NS	NS	NS	NS
1,2-Dichloroethane	ND(0.0069)	NS	NS	NS	NS	NS
1,2-Dichloropropane	ND(0.0069)	NS	NS	NS	NS	NS
1,4-Dioxane	ND(0.20)	NS	NS	NS	NS	NS
2-Butanone	ND(0.10)	NS	NS	NS	NS	NS
2-Chloro-1,3-butadiene	ND(0.0069)	NS	NS	NS	NS	NS
2-Chloroethylvinylether	ND(0.0069)	NS	NS	NS	NS	NS
2-Hexanone	ND(0.014)	NS	NS	NS	NS	NS
3-Chloropropene	ND(0.014)	NS	NS	NS	NS	NS
4-Methyl-2-pentanone	ND(0.014)	NS	NS	NS	NS	NS
Acetone	ND(0.10)	NS	NS	NS	NS	NS
Acetonitrile	ND(0.14)	NS	NS	NS	NS	NS
Acrolein	ND(0.14)	NS	NS	NS	NS	NS
Acrylonitrile	ND(0.014)	NS	NS	NS	NS	NS
Benzene	ND(0.0069)	NS	NS	NS	NS	NS
Bromodichloromethane	ND(0.0069)	NS	NS	NS	NS	NS
Bromoform	ND(0.0069)	NS	NS	NS	NS	NS
Bromomethane	ND(0.014)	NS	NS	NS	NS	NS
Carbon Disulfide	ND(0.010)	NS	NS	NS	NS	NS
Carbon Tetrachloride	ND(0.0069)	NS	NS	NS	NS	NS
Chlorobenzene	ND(0.0069)	NS	NS	NS	NS	NS
Chloroethane	ND(0.014)	NS	NS	NS	NS	NS
Chloroform	ND(0.0069)	NS	NS	NS	NS	NS
Chloromethane	ND(0.014)	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	ND(0.0069)	NS	NS	NS	NS	NS
Dibromochloromethane	ND(0.0069)	NS	NS	NS	NS	NS
Dibromomethane	ND(0.0069)	NS	NS	NS	NS	NS
Dichlorodifluoromethane	ND(0.014)	NS	NS	NS	NS	NS
Ethyl Methacrylate	ND(0.014)	NS	NS	NS	NS	NS
Ethylbenzene	ND(0.0069)	NS	NS	NS	NS	NS
Iodomethane	ND(0.0069)	NS	NS	NS	NS	NS
Isobutanol	ND(0.27)	NS	NS	NS	NS	NS
Methacrylonitrile	ND(0.014)	NS	NS	NS	NS	NS
Methyl Methacrylate	ND(0.014)	NS	NS	NS	NS	NS
Methylene Chloride	ND(0.0069)	NS	NS	NS	NS	NS
Propionitrile	ND(0.069)	NS	NS	NS	NS	NS
Styrene	ND(0.0069)	NS	NS	NS	NS	NS
Tetrachloroethene	ND(0.0069)	NS	NS	NS	NS	NS
Toluene	ND(0.0069)	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	ND(0.0069)	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	ND(0.0069)	NS	NS	NS	NS	NS
trans-1,4-Dichloro-2-butene	ND(0.014)	NS	NS	NS	NS	NS
Trichloroethene	ND(0.0069)	NS	NS	NS	NS	NS
Trichlorofluoromethane	ND(0.0069)	NS	NS	NS	NS	NS
Vinyl Acetate	ND(0.014)	NS	NS	NS	NS	NS
Vinyl Chloride	ND(0.014)	NS	NS	NS	NS	NS
Xylenes (total)	ND(0.0069)	NS	NS	NS	NS	NS
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
1,2,4-Trichlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
1,2-Dichlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
1,2-Diphenylhydrazine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
1,3,5-Trinitrobenzene	ND(2.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
1,3-Dichlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
1,3-Dinitrobenzene	ND(6.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
1,4-Dichlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
1,4-Naphthoquinone	ND(6.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
1-Naphthylamine	ND(2.7)	ND(1100)	ND(2.7)	ND(52)	ND(0.73)	ND(49)
2,3,4,6-Tetrachlorophenol	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)

TABLE 2-5
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PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SS-10 8-10 12/05/00	SLB-1-BB 0-0.5 01/19/95	SLB-1-TB 0-0.5 10/11/95	SLB-2-BB 0-0.5 01/19/95	SLB-2-TB 0-0.5 10/11/95	SLB-4-BB 0-0.5 01/19/95
Semivolatile Organics (continued)							
2,4,5-Trichlorophenol		ND(1.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
2,4,6-Trichlorophenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2,4-Dichlorophenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2,4-Dimethylphenol		ND(1.3)	NS	ND(2.7)	NS	ND(0.73)	NS
2,4-Dinitrophenol		ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
2,4-Dinitrotoluene		ND(2.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2,6-Dichlorophenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
2,6-Dinitrotoluene		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2-Acetylaminofluorene		ND(2.7)	ND(95)	ND(5.3)	ND(4.4)	ND(1.5)	ND(4.1)
2-Chloronaphthalene		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2-Chlorophenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2-Methylnaphthalene		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2-Methylphenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	3.2 J
2-Naphthylamine		ND(2.7)	ND(1600)	ND(2.7)	ND(74)	ND(0.73)	ND(70)
2-Nitroaniline		ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
2-Nitrophenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
2-Picoline		ND(1.3)	ND(670)	ND(5.3)	ND(30)	ND(1.5)	ND(29)
3&4-Methylphenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	1.5 J
3,3'-Dichlorobenzidine		ND(2.3)	ND(190)	ND(5.3)	ND(8.6)	ND(1.5)	ND(8.1)
3,3'-Dimethylbenzidine		ND(6.7)	ND(760)	ND(5.3)	ND(35)	ND(1.5)	ND(33)
3-Methylcholanthrene		ND(1.3)	ND(290)	ND(2.7)	ND(13)	ND(0.73)	ND(12)
3-Nitroaniline		ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
4,6-Dinitro-2-methylphenol		ND(1.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
4-Aminobiphenyl		ND(2.7)	ND(480)	ND(5.3)	ND(22)	ND(1.5)	ND(20)
4-Bromophenyl-phenylether		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
4-Chloro-3-Methylphenol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
4-Chloroaniline		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
4-Chlorobenzilate		ND(6.7)	ND(95)	ND(5.3)	ND(4.4)	ND(1.5)	ND(4.1)
4-Chlorophenyl-phenylether		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
4-Nitroaniline		ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
4-Nitrophenol		ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
4-Nitroquinoline-1-oxide		ND(6.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
4-Phenylenediamine		ND(6.7)	ND(480)	ND(5.3)	ND(22)	ND(1.5)	ND(20)
5-Nitro-o-toluidine		ND(6.7)	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
7,12-Dimethylbenz(a)anthracene		ND(1.3)	ND(190)	ND(5.3)	ND(8.7)	ND(1.5)	ND(8.2)
a,a'-Dimethylphenethylamine		ND(6.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Acenaphthene		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	0.076 J	ND(4.1)
Acenaphthylene		ND(1.3)	ND(95)	1.1 J	ND(4.3)	0.23 J	0.79 J
Acetophenone		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Aniline		ND(1.3)	ND(95)	20	ND(4.4)	ND(0.73)	ND(4.1)
Anthracene		2.1	ND(95)	0.63 J	0.78 J	0.27 J	0.80 J
Aramite		ND(2.7)	ND(95)	ND(5.3)	ND(4.4)	ND(1.5)	ND(4.1)
Benzidine		ND(1.3)	ND(480)	ND(2.7)	ND(22)	ND(0.73)	ND(20)
Benzo(a)anthracene		4.1	ND(95)	3.6	1.4 J	1.2	1.9 J
Benzo(a)pyrene		4.1	ND(95)	5.1	1.2 J	1.6	1.8 J
Benzo(b)fluoranthene		3.2	ND(95)	5.8	1.1 J	1.8	1.6 J
Benzo(g,h,i)perylene		4.3	ND(95)	1.1 J	0.89 J	0.35 J	1.6 J
Benzo(k)fluoranthene		3.4	ND(95)	6.3	1.1 J	1.8	1.7 J
Benzoic Acid		NS	ND(460)	NS	ND(21)	NS	ND(20)
Benzyl Alcohol		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
bis(2-Chloroethoxy)methane		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
bis(2-Chloroethyl)ether		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
bis(2-Chloroisopropyl)ether		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
bis(2-Ethylhexyl)phthalate		ND(1.3)	ND(95)	0.28 J	0.84 J	0.29 J	ND(4.1)
Butylbenzylphthalate		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	0.37 J	ND(4.1)
Chrysene		3.9	12 J	5.0	1.5 J	1.6	2.1 J
Diallate		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Dibenzo(a,h)anthracene		3.1	ND(95)	0.36 J	ND(4.3)	0.082 J	ND(4.1)
Dibenzofuran		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Diethylphthalate		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Dimethylphthalate		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Di-n-Butylphthalate		ND(1.3)	ND(95)	0.29 JB	ND(4.3)	0.18 JB	0.80 JB
Di-n-Octylphthalate		ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Dinoseb		NS	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
Diphenylamine		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Ethyl Methacrylate		NS	ND(190)	NS	ND(8.6)	NS	ND(8.2)
Ethyl Methanesulfonate		ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID:	I9-9-29-SS-10	SLB-1-BB	SLB-1-TB	SLB-2-BB	SLB-2-TB	SLB-4-BB
Sample Depth(Feet):	8-10	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Date Collected:	12/05/00	01/19/95	10/11/95	01/19/95	10/11/95	01/19/95
Semivolatile Organics (continued)						
Fluoranthene	10	ND(95)	8.9	3.6 J	3.0	3.4 J
Fluorene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	0.083 J	ND(4.1)
Hexachlorobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Hexachlorobutadiene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Hexachlorocyclopentadiene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Hexachloroethane	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Hexachlorophene	ND(2.7)	ND(480)	ND(13)	ND(22)	ND(3.7)	ND(20)
Hexachloropropene	ND(1.3)	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
Indeno(1,2,3-cd)pyrene	3.3	ND(95)	1.3 J	ND(4.3)	0.39 J	1.3 J
Isodrin	ND(1.3)	ND(95)	NS	ND(4.4)	NS	ND(4.1)
Isophorone	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
Isosafrole	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Methapyrilene	ND(6.7)	ND(380)	ND(2.7)	ND(17)	ND(0.73)	ND(16)
Methyl Methanesulfonate	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Naphthalene	ND(1.3)	ND(95)	0.89 J	ND(4.3)	ND(0.73)	1.8 J
Nitrobenzene	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
N-Nitrosodiethylamine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
N-Nitrosodimethylamine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
N-Nitroso-di-n-butylamine	ND(1.3)	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
N-Nitroso-di-n-propylamine	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
N-Nitrosodiphenylamine	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	ND(4.1)
N-Nitrosomethylethylamine	ND(2.7)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
N-Nitrosomorpholine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
N-Nitrosopiperidine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
N-Nitrosopyrrolidine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
o,o,o-Triethylphosphorothioate	ND(1.3)	ND(95)	NS	ND(4.4)	NS	ND(4.1)
o-Toluidine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	1.6 J
p-Dimethylaminoazobenzene	ND(6.7)	ND(290)	ND(2.7)	ND(13)	ND(0.73)	ND(12)
Pentachlorobenzene	ND(1.3)	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
Pentachloroethane	ND(1.3)	ND(190)	ND(2.7)	ND(8.6)	ND(0.73)	ND(8.2)
Pentachloronitrobenzene	ND(6.7)	ND(190)	ND(2.7)	ND(8.7)	ND(0.73)	ND(8.2)
Pentachlorophenol	ND(2.3)	ND(460)	ND(6.5)	ND(21)	ND(1.8)	ND(20)
Phenacetin	ND(6.7)	ND(95)	ND(5.3)	ND(4.4)	ND(1.5)	ND(4.1)
Phenanthrene	8.9	ND(95)	3.6	1.9 J	1.3	1.9 J
Phenol	ND(1.3)	ND(95)	ND(2.7)	ND(4.3)	ND(0.73)	9.6
Pronamide	ND(1.3)	ND(290)	ND(2.7)	ND(13)	ND(0.73)	ND(12)
Pyrene	8.0	ND(95)	7.6	2.8 J	2.3	3.0 J
Pyridine	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Safrole	ND(1.3)	ND(95)	ND(2.7)	ND(4.4)	ND(0.73)	ND(4.1)
Sulfotep	NS	ND(95)	NS	ND(4.4)	NS	ND(4.1)
Thionazin	ND(1.3)	ND(95)	NS	ND(4.4)	NS	ND(4.1)
Furans						
2,3,7,8-TCDF	ND(0.000000068)	0.00014 Y	NS	0.0000022 JY	NS	0.00051 Y
TCDFs (total)	ND(0.000000068)	0.0011	NS	0.000043	NS	0.0016
1,2,3,7,8-PeCDF	ND(0.000000034)	ND(0.000064)	NS	ND(0.0000014)	NS	0.00026
2,3,4,7,8-PeCDF	ND(0.000000033)	0.00014 J	NS	ND(0.0000028)	NS	0.00021
PeCDFs (total)	ND(0.000000033)	0.0024	NS	0.000057	NS	0.0050
1,2,3,4,7,8-HxCDF	ND(0.000000049)	0.00022	NS	ND(0.0000032)	NS	0.00041
1,2,3,6,7,8-HxCDF	ND(0.000000047)	ND(0.000076)	NS	ND(0.0000022)	NS	0.00024
1,2,3,7,8,9-HxCDF	ND(0.000000057)	ND(0.000024)	NS	ND(0.00000050)	NS	ND(0.0000028)
2,3,4,6,7,8-HxCDF	ND(0.000000052)	ND(0.000088)	NS	ND(0.0000020)	NS	0.00012
HxCDFs (total)	ND(0.00000011) X	0.00095	NS	0.000047	NS	0.0042
1,2,3,4,6,7,8-HpCDF	ND(0.000000076)	0.00047	NS	0.000013	NS	0.00048
1,2,3,4,7,8,9-HpCDF	ND(0.000000092)	ND(0.000059)	NS	ND(0.0000011)	NS	0.000094
HpCDFs (total)	ND(0.000000083)	0.0010	NS	0.000034	NS	0.0012
OCDF	ND(0.00000016)	0.00060	NS	0.000026	NS	0.00044
Dioxins						
2,3,7,8-TCDD	ND(0.000000075)	ND(0.0000084)	NS	ND(0.00000015)	NS	0.0000022 J
TCDDs (total)	ND(0.00000026)	ND(0.000065)	NS	ND(0.00000063)	NS	0.000027
1,2,3,7,8-PeCDD	ND(0.000000058)	ND(0.000017)	NS	ND(0.00000055)	NS	ND(0.0000069)
PeCDDs (total)	ND(0.00000039)	ND(0.00017)	NS	ND(0.0000013)	NS	ND(0.000018)
1,2,3,4,7,8-HxCDD	ND(0.000000078)	ND(0.000036)	NS	ND(0.0000012)	NS	0.000018
1,2,3,6,7,8-HxCDD	ND(0.000000082)	ND(0.000063)	NS	0.0000037 J	NS	0.000040
1,2,3,7,8,9-HxCDD	ND(0.000000074)	ND(0.000070)	NS	ND(0.0000025)	NS	0.000036
HxCDDs (total)	ND(0.00000041)	0.00027	NS	0.000018	NS	0.00034
1,2,3,4,6,7,8-HpCDD	0.00000017 J	0.0011	NS	0.000069	NS	0.00068
HpCDDs (total)	0.00000017	0.0020	NS	0.00012	NS	0.0012
OCDD	0.00000059 J	0.0073	NS	0.00053	NS	0.0037
Total TEQs (WHO TEFs)	0.00000010	0.00015	NS	0.0000031	NS	0.00027

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	I9-9-29-SS-10 8-10 12/05/00	SLB-1-BB 0-0.5 01/19/95	SLB-1-TB 0-0.5 10/11/95	SLB-2-BB 0-0.5 01/19/95	SLB-2-TB 0-0.5 10/11/95	SLB-4-BB 0-0.5 01/19/95
Inorganics							
Aluminum		NS	3430	NS	2810	NS	7290
Antimony		ND(12.0)	ND(14.6)	NS	ND(6.60)	NS	ND(6.20)
Arsenic		ND(20.0)	4.30	NS	1.60	NS	6.20
Barium		ND(41.0)	126	NS	15.7 B	NS	32.8
Beryllium		0.300	0.290 B	NS	0.220 B	NS	0.220 B
Cadmium		ND(2.00)	20.8	NS	ND(0.660)	NS	0.870
Calcium		NS	6480	NS	14500	NS	22400
Chromium		6.50	94.7	NS	4.40	NS	17.0
Cobalt		ND(10.0)	ND(5.80)	NS	5.00 B	NS	7.30
Copper		ND(20.0)	1050	NS	16.4	NS	141
Cyanide		ND(1.40)	ND(1.30)	NS	ND(0.560)	NS	ND(0.610)
Iron		NS	21100	NS	14000	NS	28600
Lead		7.90	396	NS	39.1	NS	357
Magnesium		NS	1580	NS	7380	NS	12600
Manganese		NS	266	NS	249	NS	437
Mercury		ND(0.270)	1.80	NS	ND(0.130)	NS	0.790
Nickel		11.0	63.9	NS	10.1	NS	26.4
Potassium		NS	528 B	NS	216 B	NS	535 B
Selenium		ND(1.00)	1.70	NS	ND(0.260)	NS	0.290 B
Silver		ND(1.00)	24.9	NS	ND(0.660)	NS	1.20
Sodium		NS	153 B	NS	113 B	NS	92.4 B
Sulfide		8.60	NS	NS	NS	NS	NS
Thallium		ND(2.00)	ND(0.570)	NS	ND(0.260)	NS	ND(0.240)
Tin		ND(62.0)	NS	NS	NS	NS	NS
Vanadium		ND(10.0)	121	NS	9.60	NS	26.4
Zinc		32.0	958	NS	60.3	NS	221

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID:	SLB-5-BB	SLB-8-BB	SLB-9-BB	SLB-9-TB
Sample Depth(Feet):	0-0.5	0-0.5	0-0.5	0-0.5
Date Collected:	01/19/95	02/23/95	02/23/95	10/11/95
Volatile Organics				
1,1,1,2-Tetrachloroethane	NS	NS	NS	NS
1,1,1-Trichloroethane	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS
1,1,2-Trichloroethane	NS	NS	NS	NS
1,1-Dichloroethane	NS	NS	NS	NS
1,1-Dichloroethene	NS	NS	NS	NS
1,2,3-Trichloropropane	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS
1,2-Dibromoethane	NS	NS	NS	NS
1,2-Dichloroethane	NS	NS	NS	NS
1,2-Dichloropropane	NS	NS	NS	NS
1,4-Dioxane	NS	NS	NS	NS
2-Butanone	NS	NS	NS	NS
2-Chloro-1,3-butadiene	NS	NS	NS	NS
2-Chloroethylvinylether	NS	NS	NS	NS
2-Hexanone	NS	NS	NS	NS
3-Chloropropene	NS	NS	NS	NS
4-Methyl-2-pentanone	NS	NS	NS	NS
Acetone	NS	NS	NS	NS
Acetonitrile	NS	NS	NS	NS
Acrolein	NS	NS	NS	NS
Acrylonitrile	NS	NS	NS	NS
Benzene	NS	NS	NS	NS
Bromodichloromethane	NS	NS	NS	NS
Bromoform	NS	NS	NS	NS
Bromomethane	NS	NS	NS	NS
Carbon Disulfide	NS	NS	NS	NS
Carbon Tetrachloride	NS	NS	NS	NS
Chlorobenzene	NS	NS	NS	NS
Chloroethane	NS	NS	NS	NS
Chloroform	NS	NS	NS	NS
Chloromethane	NS	NS	NS	NS
cis-1,3-Dichloropropene	NS	NS	NS	NS
Dibromochloromethane	NS	NS	NS	NS
Dibromomethane	NS	NS	NS	NS
Dichlorodifluoromethane	NS	NS	NS	NS
Ethyl Methacrylate	NS	NS	NS	NS
Ethylbenzene	NS	NS	NS	NS
Iodomethane	NS	NS	NS	NS
Isobutanol	NS	NS	NS	NS
Methacrylonitrile	NS	NS	NS	NS
Methyl Methacrylate	NS	NS	NS	NS
Methylene Chloride	NS	NS	NS	NS
Propionitrile	NS	NS	NS	NS
Styrene	NS	NS	NS	NS
Tetrachloroethene	NS	NS	NS	NS
Toluene	NS	NS	NS	NS
trans-1,2-Dichloroethene	NS	NS	NS	NS
trans-1,3-Dichloropropene	NS	NS	NS	NS
trans-1,4-Dichloro-2-butene	NS	NS	NS	NS
Trichloroethene	NS	NS	NS	NS
Trichlorofluoromethane	NS	NS	NS	NS
Vinyl Acetate	NS	NS	NS	NS
Vinyl Chloride	NS	NS	NS	NS
Xylenes (total)	NS	NS	NS	NS
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,2,4-Trichlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,2-Dichlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,2-Diphenylhydrazine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,3,5-Trinitrobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,3-Dichlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,3-Dinitrobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,4-Dichlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1,4-Naphthoquinone	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
1-Naphthylamine	ND(4.6)	ND(0.80)	ND(4.2)	ND(3.9)
2,3,4,6-Tetrachlorophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	SLB-5-BB 0-0.5 01/19/95	SLB-8-BB 0-0.5 02/23/95	SLB-9-BB 0-0.5 02/23/95	SLB-9-TB 0-0.5 10/11/95
Semivolatile Organics (continued)				
2,4,5-Trichlorophenol	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
2,4,6-Trichlorophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2,4-Dichlorophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2,4-Dimethylphenol	NS	ND(0.80)	ND(4.2)	0.70 J
2,4-Dinitrophenol	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
2,4-Dinitrotoluene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2,6-Dichlorophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2,6-Dinitrotoluene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2-Acetylaminofluorene	ND(0.38)	ND(1.6)	ND(8.5)	ND(7.8)
2-Chloronaphthalene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2-Chlorophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2-Methylnaphthalene	ND(0.38)	ND(0.80)	0.72 J	0.46 J
2-Methylphenol	ND(0.38)	ND(0.80)	1.5 J	0.41 J
2-Naphthylamine	ND(6.5)	ND(0.80)	ND(4.2)	ND(3.9)
2-Nitroaniline	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
2-Nitrophenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
2-Picoline	ND(2.7)	ND(0.80)	ND(4.2)	ND(7.8)
3&4-Methylphenol	ND(0.38)	ND(0.80)	ND(4.2)	0.52 J
3,3'-Dichlorobenzidine	ND(0.76)	ND(1.6)	ND(8.5)	ND(7.8)
3,3'-Dimethylbenzidine	ND(3.1)	ND(1.6)	ND(8.5)	ND(7.8)
3-Methylcholanthrene	ND(1.2)	ND(0.80)	ND(4.2)	ND(3.9)
3-Nitroaniline	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
4,6-Dinitro-2-methylphenol	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
4-Aminobiphenyl	ND(1.9)	ND(1.6)	ND(8.5)	ND(7.8)
4-Bromophenyl-phenylether	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
4-Chloro-3-Methylphenol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
4-Chloroaniline	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
4-Chlorobenzilate	ND(0.38)	ND(1.6)	ND(8.5)	ND(7.8)
4-Chlorophenyl-phenylether	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
4-Nitroaniline	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
4-Nitrophenol	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
4-Nitroquinoline-1-oxide	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
4-Phenylenediamine	ND(1.9)	ND(1.6)	ND(8.5)	ND(7.8)
5-Nitro-o-toluidine	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
7,12-Dimethylbenz(a)anthracene	ND(0.77)	ND(0.80)	ND(4.2)	ND(7.8)
a,a'-Dimethylphenethylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Acenaphthene	ND(0.38)	ND(0.80)	3.0 J	2.0 J
Acenaphthylene	ND(0.38)	0.26 J	ND(4.2)	1.9 J
Acetophenone	ND(0.38)	0.14 JB	1.7 JB	ND(3.9)
Aniline	ND(0.38)	ND(0.80)	12	6.7
Anthracene	ND(0.38)	0.27 J	3.9 J	5.0
Aramite	ND(0.38)	ND(1.6)	ND(8.5)	ND(7.8)
Benzidine	ND(1.9)	ND(0.80)	ND(4.2)	ND(3.9)
Benzo(a)anthracene	ND(0.38)	0.71 J	8.0	14
Benzo(a)pyrene	ND(0.38)	0.93	7.2	16
Benzo(b)fluoranthene	ND(0.38)	0.91	9.3	17
Benzo(g,h,i)perylene	ND(0.38)	0.30 J	1.1 J	3.6 J
Benzo(k)fluoranthene	ND(0.38)	1.1	6.9	11
Benzoic Acid	ND(1.8)	NS	NS	NS
Benzyl Alcohol	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
bis(2-Chloroethoxy)methane	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
bis(2-Chloroethyl)ether	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
bis(2-Chloroisopropyl)ether	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
bis(2-Ethylhexyl)phthalate	ND(0.38)	0.15 J	ND(4.2)	ND(3.9)
Butylbenzylphthalate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Chrysene	ND(0.38)	0.85	8.7	17
Diallate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Dibenzo(a,h)anthracene	ND(0.38)	0.27 J	2.1 J	ND(3.9)
Dibenzofuran	ND(0.38)	ND(0.80)	1.4 J	0.84 J
Diethylphthalate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Dimethylphthalate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Di-n-Butylphthalate	0.087 JB	0.31 J	1.5 J	2.9 JB
Di-n-Octylphthalate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Dinoseb	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
Diphenylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Ethyl Methacrylate	ND(0.77)	NS	NS	NS
Ethyl Methanesulfonate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID:	SLB-5-BB	SLB-8-BB	SLB-9-BB	SLB-9-TB
Sample Depth(Feet):	0-0.5	0-0.5	0-0.5	0-0.5
Date Collected:	01/19/95	02/23/95	02/23/95	10/11/95
Semivolatile Organics (continued)				
Fluoranthene	ND(0.38)	1.1	12	31
Fluorene	ND(0.38)	0.13 J	2.6 J	1.8 J
Hexachlorobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Hexachlorobutadiene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Hexachlorocyclopentadiene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Hexachloroethane	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Hexachlorophene	ND(1.9)	ND(3.9)	ND(21)	ND(19)
Hexachloropropene	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
Indeno(1,2,3-cd)pyrene	ND(0.38)	0.46 J	3.2 J	4.7
Isodrin	ND(0.38)	NS	NS	NS
Isophorone	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Isosafrole	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Methapyrilene	ND(1.5)	ND(0.80)	ND(4.2)	ND(3.9)
Methyl Methanesulfonate	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Naphthalene	ND(0.38)	0.094 J	4.5	0.92 J
Nitrobenzene	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosodiethylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosodimethylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitroso-di-n-butylamine	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitroso-di-n-propylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosodiphenylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosomethylethylamine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosomorpholine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosopiperidine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
N-Nitrosopyrrolidine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
o,o,o-Triethylphosphorothioate	ND(0.38)	NS	NS	NS
o-Toluidine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
p-Dimethylaminoazobenzene	ND(1.2)	ND(0.80)	ND(4.2)	ND(3.9)
Pentachlorobenzene	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
Pentachloroethane	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
Pentachloronitrobenzene	ND(0.77)	ND(0.80)	ND(4.2)	ND(3.9)
Pentachlorophenol	ND(1.8)	ND(2.0)	ND(10)	ND(9.4)
Phenacetin	ND(0.38)	ND(1.6)	ND(8.5)	ND(7.8)
Phenanthrene	ND(0.38)	0.88	11	18
Phenol	ND(0.38)	0.25 J	5.9	2.0 J
Pronamide	ND(1.2)	ND(0.80)	ND(4.2)	ND(3.9)
Pyrene	ND(0.38)	1.4	14	21
Pyridine	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Safrole	ND(0.38)	ND(0.80)	ND(4.2)	ND(3.9)
Sulfotep	ND(0.38)	NS	NS	NS
Thionazin	ND(0.38)	NS	NS	NS
Furans				
2,3,7,8-TCDF	0.0000012 JY	0.000037 Y	0.00027 Y	NS
TCDFs (total)	0.000011	0.00031	0.0045	NS
1,2,3,7,8-PeCDF	ND(0.00000077)	0.000011	0.000073	NS
2,3,4,7,8-PeCDF	ND(0.0000012)	0.000013	0.00017	NS
PeCDFs (total)	0.000012	0.00026	0.0040	NS
1,2,3,4,7,8-HxCDF	ND(0.0000014)	0.000012	0.00021	NS
1,2,3,6,7,8-HxCDF	ND(0.00000084)	ND(0.000020)	ND(0.00040)	NS
1,2,3,7,8,9-HxCDF	ND(0.00000036)	ND(0.00000047)	0.000087	NS
2,3,4,6,7,8-HxCDF	ND(0.00000077)	0.0000092	0.00024	NS
HxCDFs (total)	0.000010	0.00020	0.0048	NS
1,2,3,4,6,7,8-HpCDF	0.0000062 J	0.000048	0.00055	NS
1,2,3,4,7,8,9-HpCDF	ND(0.00000050)	0.0000060 J	0.000087	NS
HpCDFs (total)	0.000015	0.00011	0.0014	NS
OCDF	0.000013	0.000076	0.00036	NS
Dioxins				
2,3,7,8-TCDD	ND(0.00000015)	ND(0.00000042)	0.0000068	NS
TCDDs (total)	ND(0.00000043)	0.0000095	0.000093	NS
1,2,3,7,8-PeCDD	ND(0.00000022)	ND(0.0000016)	0.000024	NS
PeCDDs (total)	ND(0.00000072)	ND(0.0000059)	0.000088	NS
1,2,3,4,7,8-HxCDD	ND(0.00000038)	ND(0.0000023)	0.000027	NS
1,2,3,6,7,8-HxCDD	ND(0.0000011)	0.0000057 J	0.000069	NS
1,2,3,7,8,9-HxCDD	ND(0.00000076)	0.0000063 J	0.000074	NS
HxCDDs (total)	ND(0.0000027)	0.000041	0.00052	NS
1,2,3,4,6,7,8-HpCDD	0.000019	0.000097	0.00076	NS
HpCDDs (total)	0.000033	0.00016	0.0014	NS
OCDD	0.00017	0.00076	0.0041	NS
Total TEQs (WHO TEFs)	0.0000012	0.000018	0.00025	NS

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	SLB-5-BB 0-0.5 01/19/95	SLB-8-BB 0-0.5 02/23/95	SLB-9-BB 0-0.5 02/23/95	SLB-9-TB 0-0.5 10/11/95
Inorganics					
Aluminum		8300	NS	NS	NS
Antimony		ND(5.90)	3.80 B	6.50 B	NS
Arsenic		2.60	9.00	5.30	NS
Barium		18.2 B	243	47.8 B	NS
Beryllium		ND(0.120)	0.350 B	0.230 B	NS
Cadmium		0.640	3.70	2.00	NS
Calcium		5780	NS	NS	NS
Chromium		6.70	18.5	24.1	NS
Cobalt		7.00	8.20 B	7.20 B	NS
Copper		22.5	130	218	NS
Cyanide		ND(0.530)	ND(6.10)	ND(6.40)	NS
Iron		20100	NS	NS	NS
Lead		41.7	500	294	NS
Magnesium		4480	NS	NS	NS
Manganese		493	NS	NS	NS
Mercury		ND(0.120)	1.10	1.30	NS
Nickel		17.5	26.1	38.1	NS
Potassium		369 B	NS	NS	NS
Selenium		0.310 B	3.70	2.00	NS
Silver		ND(0.590)	0.890 B	1.20 B	NS
Sodium		38.5 B	NS	NS	NS
Sulfide		NS	805	1360	NS
Thallium		ND(0.230)	ND(1.00)	ND(1.10)	NS
Tin		NS	17.6 B	27.3	NS
Vanadium		10.6	32.5	81.8	NS
Zinc		80.5	569	385	NS

TABLE 2-5
SUMMARY OF EXISTING APPENDIX IX + 3 DATA
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to Quanterra Environmental Services, Inc., Columbia Analytical Services, Inc., CT&E Environmental Services, Inc. and RECRA Environmental, Inc. for analysis of Appendix IX+3 constituents.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. In Environmental Health Perspectives 8.106(2), December 1998.
5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics

B - Analyte was also detected in the associated method blank.
J - Indicates an estimated value less than the practical quantitation limit (PQL).
Q - Indicates the presence of quantitative interferences.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.
I - Polychlorinated Diphenyl Ether (PCDPE) Interference. I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
D - Compound quantitated using a secondary dilution.
E - Analyte exceeded calibration range.

Inorganics

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

TABLE 4-1
QUANTITY OF TESTS PROPOSED AT VARIOUS DEPTHS FOR SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

	Geotechnical Testing						
Depth (feet)	**Water Content ASTM D 2216-90**	**Organic Content ASTM D 2974**	**Atterberg Limits ASTM D 4318**	**Particle Size Analysis ASTM D 422**	**Specific Gravity ASTM D 854**	**Bulk Density**	**Consolidation D2435 (USACE 1987)**
0.0 - 0.5*	25	25	25	12 to 25	5	2	25
0.5 - 1.0	25	0	0	0	0	0	25
1.0 - 3.0	12	12	12	6 to 12	3	2	12
>3.0	6	6	6	3 to 6	2	2	6

* The quantity of material required for testing will likely require samples be taken from the 0 to 1 foot interval.

TABLE 4-2
SUMMARY OF PROPOSED SAMPLES BY DEPTH
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

SAMPLE ID	DEPTH INCREMENT (FEET)					
	0-1	1-3	3-5	5-7	7-9	9-11
I9-9-1						
I9-9-1-SS-1	X	---	---	---	---	---
I9-9-1-SB-1	X Y	X	X Y	X	X	X
I9-9-1-SB-2	---	---	---	---	X	X
I9-9-1-SB-3	X Y	X Y	X	X	X	X
I9-9-1-SB-4	---	X	X	X	X	X
I9-9-1-SB-5	X Y	X Y	X	X	X	X
I9-10-8						
I9-10-8-SB-1	---	X	X	X	X	X
I9-10-8-SB-2	---	X	X	X	X	X
I9-10-8-SB-3	Y	X Y	X	X	X	X
I9-10-8-SB-4	---	X	X	X	X	X
I9-10-8-SB-5	Y	X	X Y	X	X	X
I9-10-8-SB-6	X	X	X	X	X	X
I9-10-8-SB-7	X	X	X	X	X	X
I9-10-8-SB-8	---	---	---	---	X	X
I9-10-8-SB-9	X Y	X Y	X	X	X	X
I9-9-9						
I9-9-9-SS-1	X	---	---	---	---	---
I9-9-9-SS-2	X	---	---	---	---	---
I9-9-9-SS-3	X	---	---	---	---	---
I9-9-9-SB-1	X Y	X	X Y	X	X	X
I9-9-9-SB-2	X	X	X	X	X	X
I9-9-9-SB-3	X Y	X Y	X	X	X	X
I9-9-11 (commonly owned with I9-9-101)						
I9-9-11-SB-1	X	X	---	---	---	---
I9-9-11-SB-2	X Y	X Y	---	---	---	---
I9-9-11-SB-3	X	X	---	---	---	---
I9-9-11-SB-4	X	X	---	---	---	---
I9-9-11-SB-5	X Y	X Y	---	---	---	---
I9-9-11-SB-6	X	X	---	---	---	---
I9-9-17 (see note 4)						
I9-9-18-SS-1	X	---	---	---	---	---
I9-9-18-SS-2	X	---	---	---	---	---
I9-9-18-SS-3	X	---	---	---	---	---
I9-9-18-SB-1	X Y	X Y	X	X	X	X
I9-9-18-SB-2	X Y	X	X Y	X	X	X
I9-9-18-SB-3	X	X	X	X	X	X

TABLE 4-2
SUMMARY OF PROPOSED SAMPLES BY DEPTH
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

SAMPLE ID	DEPTH INCREMENT (FEET)					
	0-1	1-3	3-5	5-7	7-9	9-11
I9-9-18						
I9-9-18-SS-1	X	---	---	---	---	---
I9-9-18-SS-2	X	---	---	---	---	---
I9-9-18-SB-1	X Y	X Y	X	X	X	X
I9-9-18-SB-2	X Y	X	X Y	X	X	X
I9-9-19						
I9-9-19-SS-1	X	---	---	---	---	---
I9-9-19-SB-1	X Y	X	X Y	X	X	X
I9-9-19-SB-2	X Y	X Y	X	X	X	X
I9-9-21 (commonly owned with I9-9-22)						
I9-9-21-SB-1	X	X	---	---	---	---
I9-9-21-SB-2	X	X	---	---	---	---
I9-9-21-SB-3	X Y	X Y	---	---	---	---
I9-9-21-SB-4	X	X	---	---	---	---
I9-9-21-SB-5	X Y	X Y	---	---	---	---
I9-9-22 (commonly owed with I9-9-21)						
I9-9-22-SB-1	X	X	---	---	---	---
I9-9-22-SB-2	X	X	---	---	---	---
I9-9-22-SB-3	X Y	X Y	---	---	---	---
I9-9-23						
I9-9-23-SB-1	Y	X Y	---	---	---	---
I9-9-23-SB-2	X	X	---	---	---	---
I9-9-23-SB-3	X Y	X Y	---	---	---	---
I9-9-24						
I9-9-24-SS-2	---	X	---	---	---	---
I9-9-24-SS-3	---	X	---	---	---	---
I9-9-24-SS-4	X	---	---	---	---	---
I9-9-24-SS-5	X	---	---	---	---	---
I9-9-24-SB-1	X Y	X Y	X	X	X	X
I9-9-24-SB-2	X Y	X	X Y	X	X	X
I9-9-25						
I9-9-25-SB-4	X	X	---	---	---	---
I9-9-25-SB-5	X Y	X Y	---	---	---	---
I9-9-25-SB-6	X Y	X Y	---	---	---	---
I9-9-25-SB-7	X	X	---	---	---	---
I9-9-30						
I9-9-31-SB-4	X	X	---	---	---	---
I9-9-31-SB-5	X Y	X Y	---	---	---	---
I9-9-31-SB-6	X Y	X Y	---	---	---	---
I9-9-31-SB-7	X	X	---	---	---	---

TABLE 4-2
SUMMARY OF PROPOSED SAMPLES BY DEPTH
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

SAMPLE ID	DEPTH INCREMENT (FEET)					
	0-1	1-3	3-5	5-7	7-9	9-11
I9-9-31						
I9-9-31-SB-1	X	X	---	---	---	---
I9-9-31-SB-2	X Y	X Y	---	---	---	---
I9-9-31-SB-3	X Y	X Y	---	---	---	---
I9-9-32						
I9-9-32-SB-1	X	X	---	---	---	---
I9-9-32-SB-2	X Y	X Y	---	---	---	---
I9-9-32-SB-3	X Y	X Y	---	---	---	---
I9-9-33						
I9-9-33-SB-1	X	X	---	---	---	---
I9-9-33-SB-2	X Y	X Y	---	---	---	---
I9-9-33-SB-3	X	X	---	---	---	---
I9-9-33-SB-4	X	X	---	---	---	---
I9-9-33-SB-5	X Y	X Y	---	---	---	---
I9-9-33-SB-6	X Y	X Y	---	---	---	---
I9-9-33-SB-7	X	X	---	---	---	---
I9-9-34						
I9-9-34-SB-1	X Y	X Y	---	---	---	---
I9-9-34-SB-2	X	X	---	---	---	---
I9-9-34-SB-3	X	X	---	---	---	---
I9-9-34-SB-4	X Y	X Y	---	---	---	---
I9-9-34-SB-5	X	X	---	---	---	---
I9-9-34-SB-6	X	X	---	---	---	---
I9-9-34-SB-7	X Y	X Y	---	---	---	---
I9-9-34-SB-8	X	X	---	---	---	---
I9-9-34-SB-9	X	X	---	---	---	---
I9-9-101 (commonly owned with I9-9-11)						
I9-9-101-SB-1	X	X	---	---	---	---
I9-9-101-SB-2	X Y	X Y	---	---	---	---
I9-9-101-SB-3	X	X	---	---	---	---
I9-9-101-SB-4	X	X	---	---	---	---
I9-9-101-SB-5	X Y	X Y	---	---	---	---
I9-9-101-SB-6	X	X	---	---	---	---
Recreational Area 1 (including I9-10-9)						
I9-10-9-SB-1	X	X	---	---	---	---
I9-10-9-SB-2	X Y	X Y	---	---	---	---
RA-1-SB-1	X	X	---	---	---	---
RA-1-SB-2	X	X	---	---	---	---
RA-1-SB-3	X Y	X Y	---	---	---	---
RA-1-SB-4	X	X	---	---	---	---

TABLE 4-2
SUMMARY OF PROPOSED SAMPLES BY DEPTH
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

SAMPLE ID	DEPTH INCREMENT (FEET)					
	0-1	1-3	3-5	5-7	7-9	9-11
Recreational Area 1 (including I9-10-9; cont'd)						
RA-1-SB-5	X	X	---	---	---	---
RA-1-SB-6	X Y	X Y	---	---	---	---
RA-1-SB-7	X	X	---	---	---	---
Recreational Area 2						
RA-2-SB-1	X	X	---	---	---	---
RA-2-SB-2	---	X	---	---	---	---
RA-2-SB-3	X Y	X Y	---	---	---	---
RA-2-SB-4	X	X	---	---	---	---
RA-2-SB-5	X	X	---	---	---	---
RA-2-SB-6	X Y	X Y	---	---	---	---
RA-2-SB-7	X	X	---	---	---	---
RA-2-SB-8	---	X	---	---	---	---
RA-2-SB-9	X Y	X Y	---	---	---	---
RA-2-SB-10	X	X	---	---	---	---
RA-2-SB-11	X Y	X Y	---	---	---	---
Recreational Area 3						
RA-3-SB-1	X Y	X Y	---	---	---	---
RA-3-SB-2	X	X	---	---	---	---
RA-3-SB-3	X	X	---	---	---	---
RA-3-SB-4	X Y	X Y	---	---	---	---
RA-3-SB-5	X	X	---	---	---	---
RA-3-SB-6	X	X	---	---	---	---
RA-3-SB-7	X	X	---	---	---	---
RA-3-SB-8	X Y	X Y	---	---	---	---
RA-3-SB-9	X Y	X Y	---	---	---	---
RA-3-SB-10	X	X	---	---	---	---
RA-3-SB-11	X Y	X Y	---	---	---	---
RA-3-SB-12	X	X	---	---	---	---
RA-3-SB-13	X	X	---	---	---	---
RA-3-SB-14	X	X	---	---	---	---
RA-3-SB-15	X Y	X Y	---	---	---	---
Recreational Area 4						
RA-4-SB-1	X	X	---	---	---	---
RA-4-SB-2	X	X	---	---	---	---
RA-4-SB-3	X Y	X Y	---	---	---	---
RA-4-SB-4	X	X	---	---	---	---
RA-4-SB-5	X	X	---	---	---	---
RA-4-SB-6	X	X	---	---	---	---
RA-4-SB-7	X Y	X Y	---	---	---	---

TABLE 4-2
SUMMARY OF PROPOSED SAMPLES BY DEPTH
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

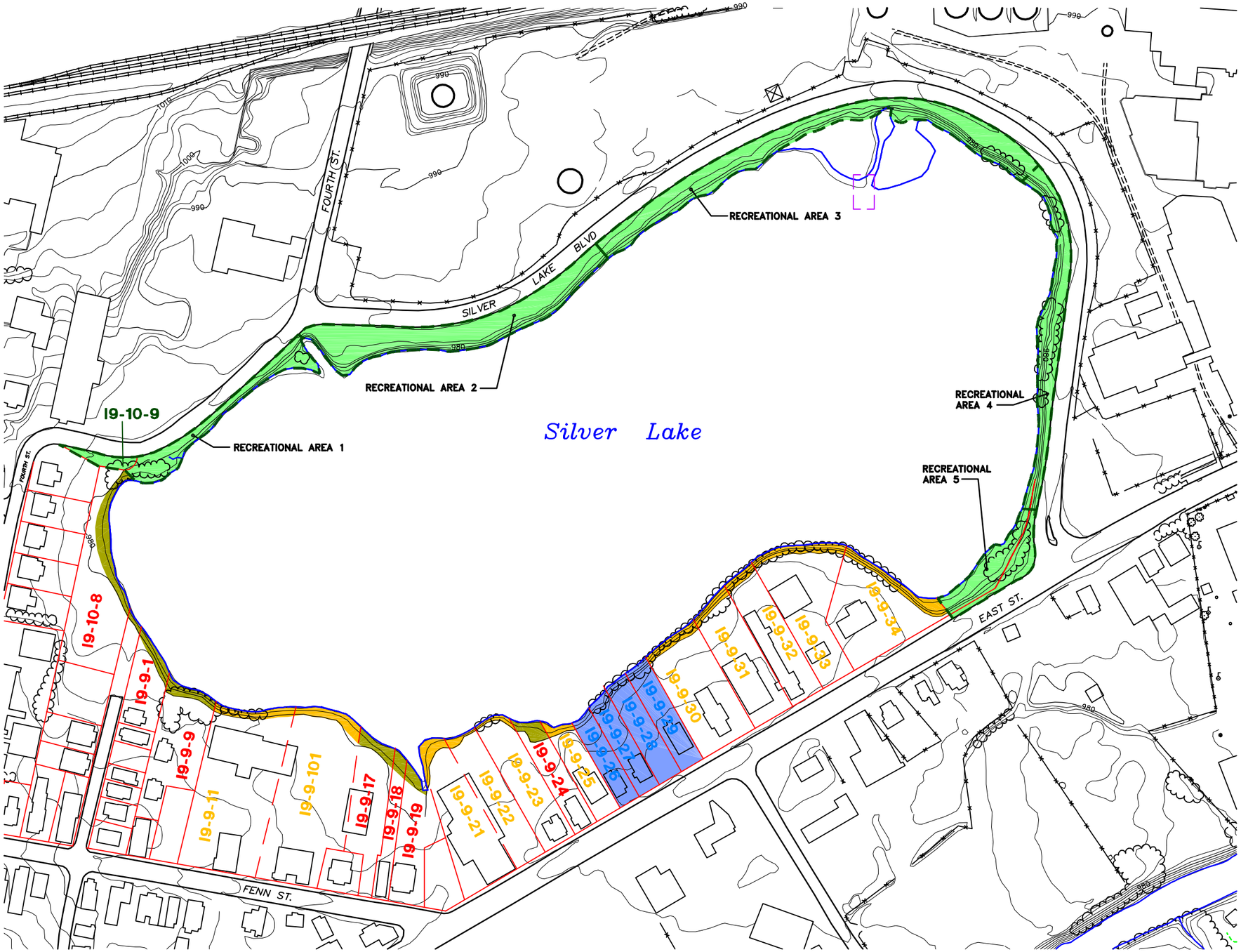
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

SAMPLE ID	DEPTH INCREMENT (FEET)					
	0-1	1-3	3-5	5-7	7-9	9-11
Recreational Area 4 (cont'd)						
RA-4-SB-8	X	X	---	---	---	---
RA-4-SB-9	X	X	---	---	---	---
RA-4-SB-10	X Y	X Y	---	---	---	---
RA-4-SB-11	---	X	---	---	---	---
RA-4-SB-12	X	X	---	---	---	---
RA-4-SB-13	X Y	X Y	---	---	---	---
Recreational Area 5						
RA-5-SB-1	X	X	---	---	---	---
RA-5-SB-2	X Y	X Y	---	---	---	---
RA-5-SB-3	X	X	---	---	---	---
RA-5-SB-4	X	X	---	---	---	---
RA-5-SB-5	X Y	X Y	---	---	---	---
RA-5-SB-6	X	X	---	---	---	---

Notes:
1. This table specifies the depth increments from which samples are proposed to be collected from, as discussed in this PDI Work Plan.
2. X - indicates depth interval to be collected and analyzed for PCBs, consistent with the sampling approached proposed in this PDI Work Plan.
3. Y - indicates depth interval to be collected and analyzed for Appendix IX+3 constituents (excluding pesticides and herbicides), consistent with the sampling approach proposed in this PDI Work Plan.
4. Parcel I9-9-17 (which is designated residential) is commonly owned with Parcels I9-9-11 and I9-9-101 (which are designated commercial/industrial properties).

Figures

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



LEGEND

- EDGE OF WATER
- RAILROAD
- VEGETATION
- PROPERTY BOUNDARY
- BOUNDARY BETWEEN COMMONLY OWNED PROPERTIES
- **19-9-24** PROPERTY ID
- **19-9-32** COMMERCIAL/INDUSTRIAL PROPERTY. ONLY BANKS (SHADED) SUBJECT TO PRE-DESIGN INVESTIGATIONS.
- **19-9-28** PROPERTY ADDRESSED AS PART OF ADMINISTRATIVE CONSENT ORDER WITH MDEP
- **19-9-24** RESIDENTIAL PROPERTY. ONLY BANKS (SHADED) SUBJECT TO INITIAL PRE-DESIGN INVESTIGATIONS.
- **19-10-9** RECREATIONAL AREAS
- APPROXIMATE LOCATION OF DISCRETE SEDIMENT REMOVAL (400 CY MAXIMUM)

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 200' 400'

GRAPHIC SCALE

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
4/26/02 SYR-54-LJP LAF NES
C/40152001/40152P36.DWG

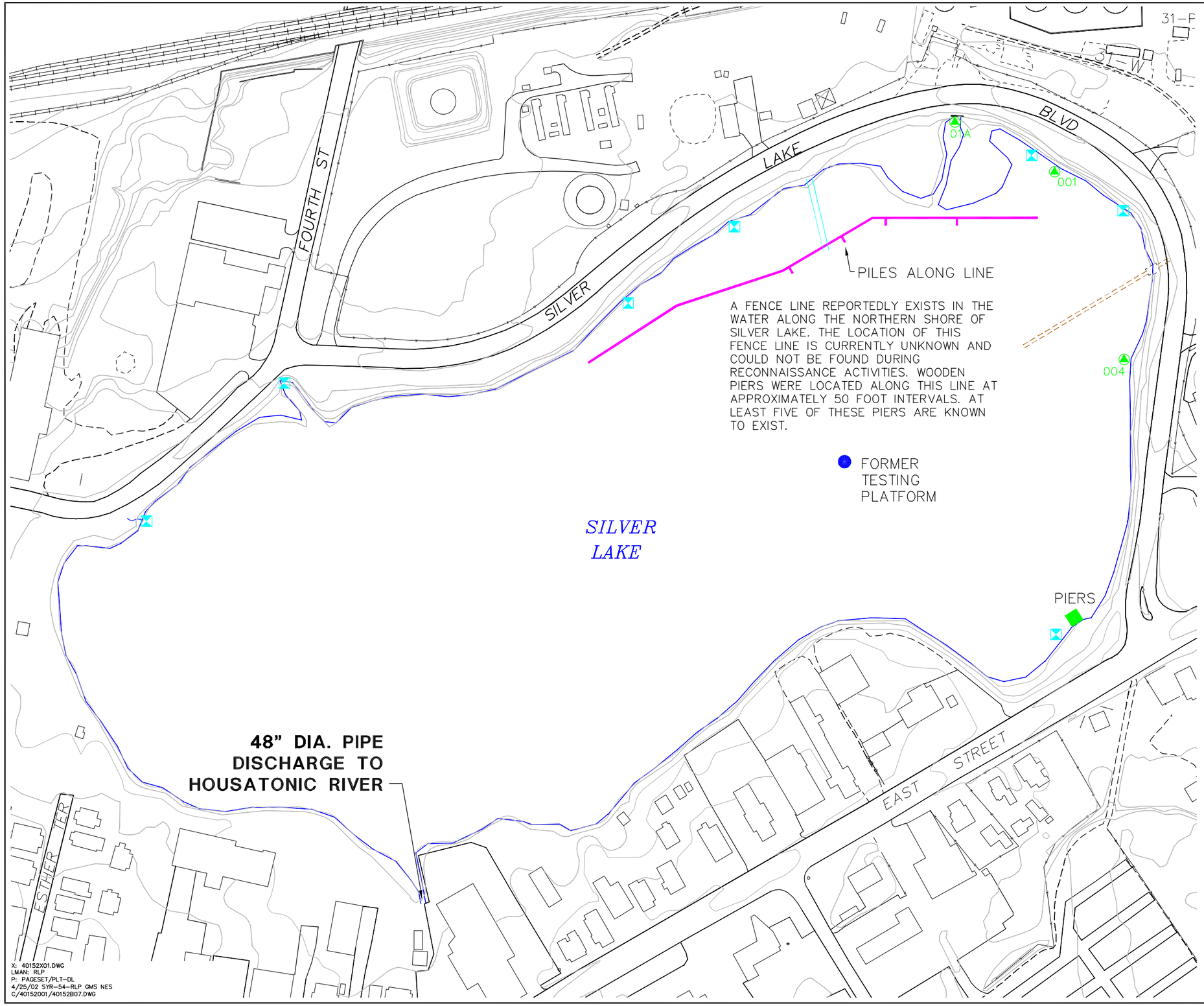
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SILVER LAKE SITE MAP

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

FIGURE 1-1



KEY:

- 2 SQUARE CONCRETE PIERS, 5 FEET x 5 FEET
- PRESSURE-TREATED WOODEN FLUME; 32 PRESSURE-TREATED WOODEN PILES
- PRESSURE-TREATED WOODEN FLUME; PRESSURE-TREATED WOODEN PILES (UNKNOWN NUMBER)
- "LINE OF PROPOSED DIVERTING DAM" DEPICTED ON 1921 DRAWING (POSSIBLE THAT A DAM AND/OR PILES EXIST UNDERWATER ALONG THIS LINE)
- FORMER TESTING PLATFORM USED BY GE (PLATFORM AND WALKWAY WERE REMOVED. HOWEVER, IT IS POSSIBLE THAT PILES OR OTHER SUPPORT STRUCTURES COULD EXIST)
- MUNICIPAL SEWER OUTFALL
- NPDES OUTFALL
- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- FENCELINE
- 970 ELEVATION CONTOUR

NOTES:
1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. – FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. THE LOCATION OF PHYSICAL STRUCTURES AND THE SITE BOUNDARY ARE APPROXIMATE.

0 160' 320'
GRAPHIC SCALE

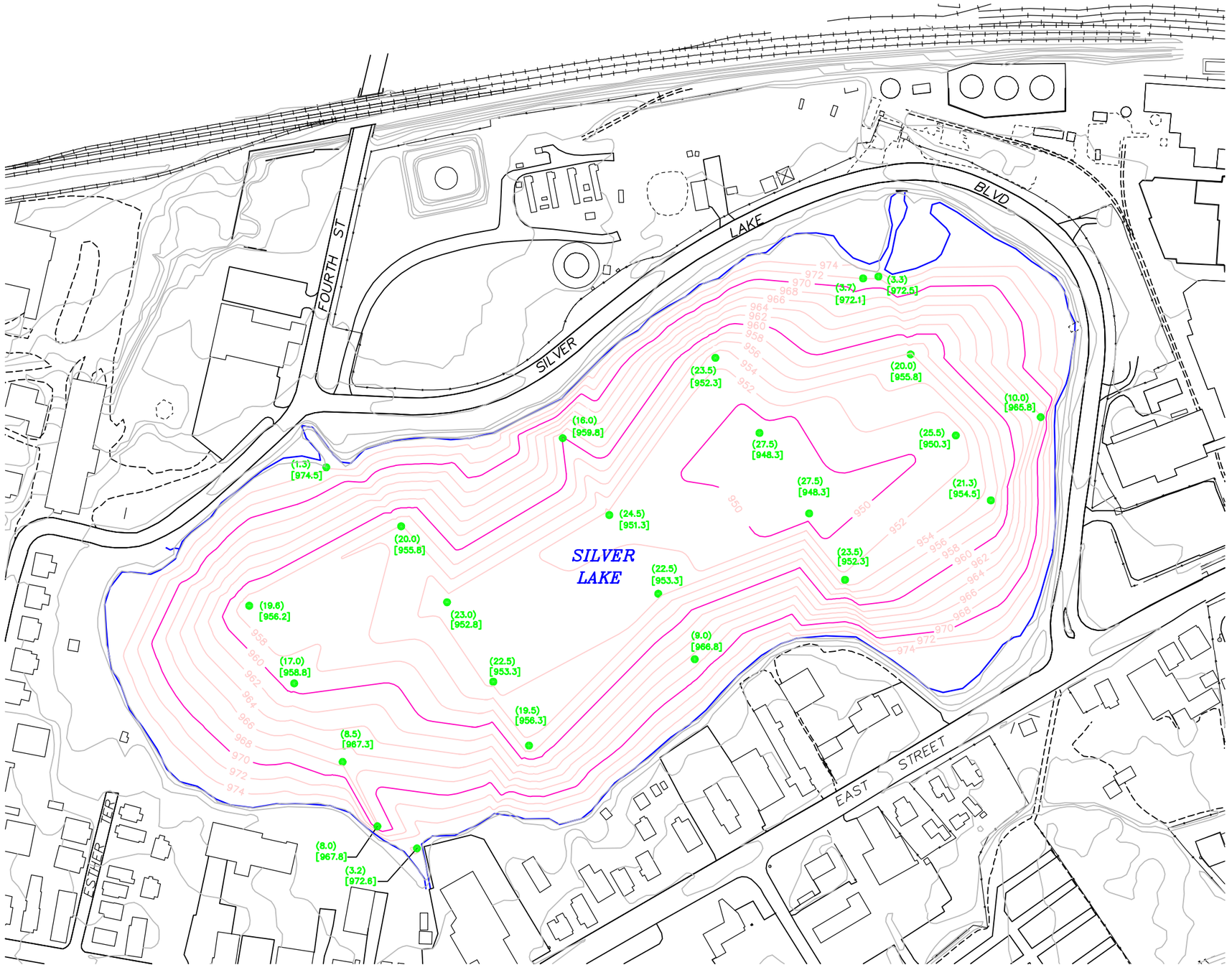
X: 40152X01.DWG
LMAN: RLP
P: PAGESET/PLT-DL
4/25/02 SYR-54-RLP GMS NES
C/40152001/40152B07.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

SILVER LAKE OUTFALL LOCATIONS AND OBSTRUCTIONS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-1



LEGEND:

(16.0) [959.8] — TOTAL WATER DEPTH (FEET)

BOTTOM ELEVATION (FEET ABOVE MEAN SEA LEVEL)

HYDROGRAPHIC TRANSECT

EDGE OF WATER

PAVED ROADWAY

RAILROAD

FENCELINE

970 — ELEVATION CONTOUR

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. WATER DEPTHS WERE TAKEN ON DECEMBER 13, 1994 BY BLASLAND, BOUCK & LEE, INC.
3. BOTTOM ELEVATIONS BASED ON SILVER LAKE SURFACE ELEVATION OF 975.8 FEET, TAKEN ON DECEMBER 24, 1994 BY BLASLAND, BOUCK & LEE, INC.
4. ALL SAMPLING LOCATIONS ARE APPROXIMATE.
5. ELEVATION CONTOURING WAS PRODUCED DIGITALLY, BASED ON SAMPLING INFORMATION, BY SOFTDESK CONTOURING SOFTWARE.

0 200' 400'

GRAPHIC SCALE

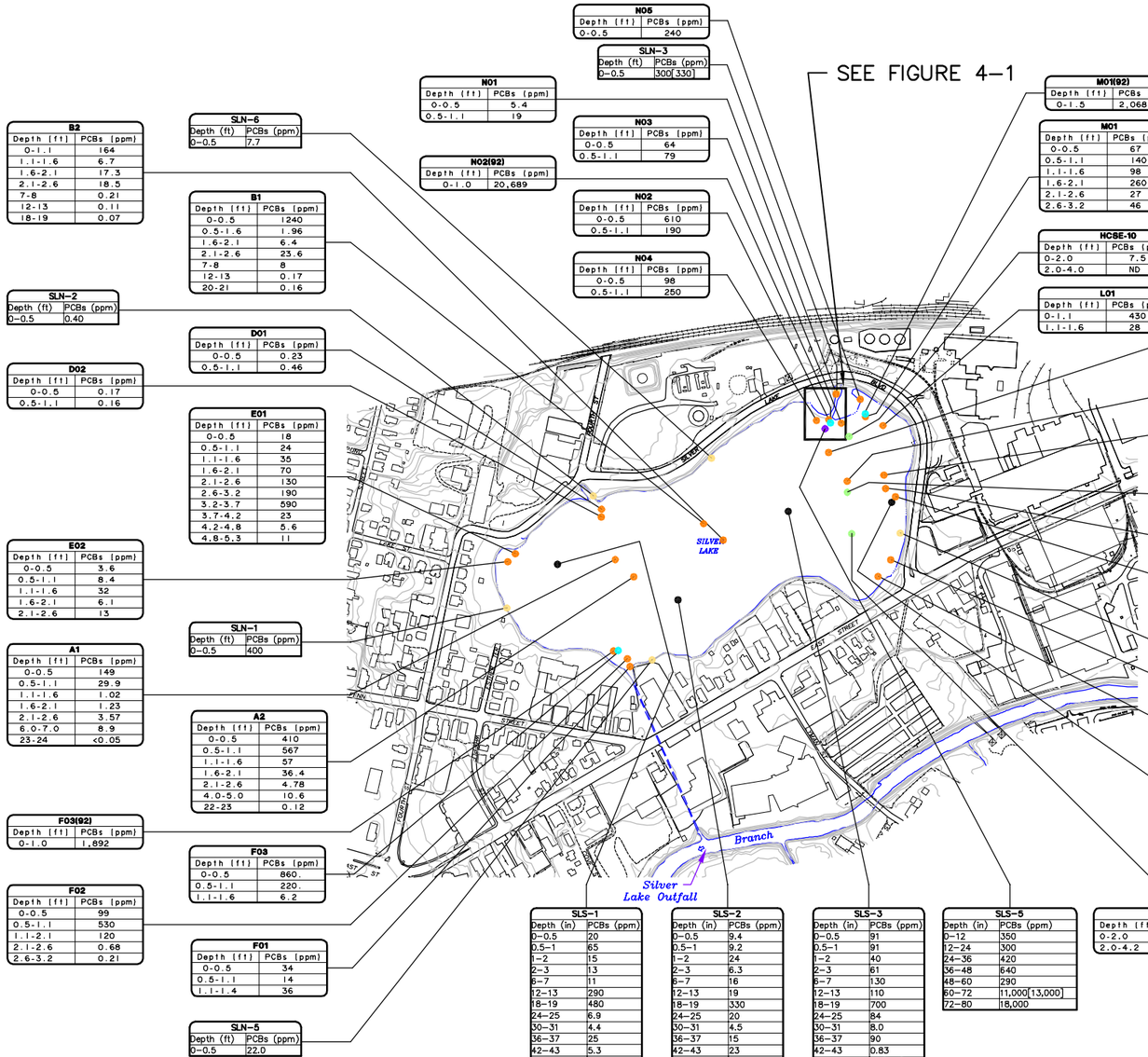
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SILVER LAKE BATHYMETRIC DATA

BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE **2-2**

X: 40152X01.DWG
L: ON=*, OFF=REF
P: PAGESET/PLT-BL (PLTHALF.CTB)
4/25/02 SYR-54-JER JER LAF
C/40152001/40152C04.DWG



B2	
Depth (ft)	PCBs (ppm)
0-1.1	164
1.1-1.6	6.7
1.6-2.1	17.3
2.1-2.6	18.5
7-8	0.21
12-13	0.11
18-19	0.07

SLN-6	
Depth (ft)	PCBs (ppm)
0-0.5	7.7

B1	
Depth (ft)	PCBs (ppm)
0-0.5	1240
0.5-1.6	1.96
1.6-2.1	6.4
2.1-2.6	23.6
7-8	8
12-13	0.17
20-21	0.16

SLN-2	
Depth (ft)	PCBs (ppm)
0-0.5	0.40

D01	
Depth (ft)	PCBs (ppm)
0-0.5	0.23
0.5-1.1	0.46

D02	
Depth (ft)	PCBs (ppm)
0-0.5	0.17
0.5-1.1	0.16

E01	
Depth (ft)	PCBs (ppm)
0-0.5	18
0.5-1.1	24
1.1-1.6	35
1.6-2.1	70
2.1-2.6	130
2.6-3.2	190
3.2-3.7	590
3.7-4.2	23
4.2-4.8	5.6
4.8-5.3	11

E02	
Depth (ft)	PCBs (ppm)
0-0.5	3.6
0.5-1.1	8.4
1.1-1.6	32
1.6-2.1	6.1
2.1-2.6	13

SLN-1	
Depth (ft)	PCBs (ppm)
0-0.5	400

A1	
Depth (ft)	PCBs (ppm)
0-0.5	149
0.5-1.1	29.9
1.1-1.6	1.02
1.6-2.1	1.23
2.1-2.6	3.57
6.0-7.0	8.9
23-24	<0.05

A2	
Depth (ft)	PCBs (ppm)
0-0.5	410
0.5-1.1	567
1.1-1.6	57
1.6-2.1	36.4
2.1-2.6	4.78
4.0-5.0	10.6
22-23	0.12

F03(92)	
Depth (ft)	PCBs (ppm)
0-1.0	1,892

F03	
Depth (ft)	PCBs (ppm)
0-0.5	860.
0.5-1.1	220.
1.1-1.6	6.2

F02	
Depth (ft)	PCBs (ppm)
0-0.5	99
0.5-1.1	530
1.1-2.1	120
2.1-2.6	0.68
2.6-3.2	0.21

F01	
Depth (ft)	PCBs (ppm)
0-0.5	34
0.5-1.1	14
1.1-1.4	36

SLN-5	
Depth (ft)	PCBs (ppm)
0-0.5	22.0

N05	
Depth (ft)	PCBs (ppm)
0-0.5	240

SLN-3	
Depth (ft)	PCBs (ppm)
0-0.5	300[330]

N01	
Depth (ft)	PCBs (ppm)
0-0.5	5.4
0.5-1.1	19

N03	
Depth (ft)	PCBs (ppm)
0-0.5	64
0.5-1.1	79

N02(92)	
Depth (ft)	PCBs (ppm)
0-1.0	20,689

N02	
Depth (ft)	PCBs (ppm)
0-0.5	610
0.5-1.1	190

N04	
Depth (ft)	PCBs (ppm)
0-0.5	98
0.5-1.1	250

M01(92)	
Depth (ft)	PCBs (ppm)
0-1.5	2,068

M01	
Depth (ft)	PCBs (ppm)
0-0.5	67
0.5-1.1	140
1.1-1.6	98
1.6-2.1	260
2.1-2.6	27
2.6-3.2	46

HCSE-10	
Depth (ft)	PCBs (ppm)
0-2.0	7.5
2.0-4.0	ND

L01	
Depth (ft)	PCBs (ppm)
0-1.1	430
1.1-1.6	28

C1	
Depth (ft)	PCBs (ppm)
0-0.5	189
0.5-1.1	860
1.1-1.6	6350
1.6-2.1	1480
2.1-2.6	1720
2.6-3.2	16.1
3.2-3.8	7.54
3.8-4.2	23.2
4.2-4.8	89.6
4.8-5.3	289
5.3-5.8	0.14

C2B	
Depth (ft)	PCBs (ppm)
0-0.5	212
0.5-1.1	1.01
1.1-1.6	410
1.6-2.1	89
2.1-2.6	63
2.6-3.2	123
3.2-3.8	68.6
3.8-4.2	17.6
4.2-4.8	15
20-21	<0.05

K01	
Depth (ft)	PCBs (ppm)
0-0.5	120

HCSE-11	
Depth (ft)	PCBs (ppm)
0-2.0	730
2.0-4.5	68

J01	
Depth (ft)	PCBs (ppm)
0-0.5	350
0.5-1.1	210
1.1-1.6	230
1.6-2.1	340
2.1-2.6	540
2.6-3.2	200
3.2-3.8	180
3.8-4.2	71
4.2-4.8	57
4.8-5.3	120
5.3-5.8	7.4
5.8-6.3	32

I01	
Depth (ft)	PCBs (ppm)
0-0.5	93
0.5-1.1	270
1.1-1.5	390

SLN-4	
Depth (ft)	PCBs (ppm)
0-0.5	150

H01	
Depth (ft)	PCBs (ppm)
0-0.5	520
0.5-1.1	1700
1.1-1.6	360
1.6-2.0	0.68

G01	
Depth (ft)	PCBs (ppm)
0-0.5	310
0.5-1.1	310
1.1-1.6	0.20

SLS-1	
Depth (in)	PCBs (ppm)
0-0.5	20
0.5-1	65
1-2	15
2-3	13
6-7	11
12-13	290
18-19	480
24-25	6.9
30-31	4.4
36-37	25
42-43	5.3
54-55	9.8
66-67	39
78-79	ND(0.58)
90-91	ND(0.37)
102-103	1.8

SLS-2	
Depth (in)	PCBs (ppm)
0-0.5	9.4
0.5-1	9.2
1-2	24
2-3	6.3
6-7	16
12-13	19
18-19	330
24-25	20
30-31	4.5
36-37	15
42-43	23
54-55	5.1
66-67	1.9
78-79	ND(0.64)
90-91	ND(0.34)
102-103	ND(0.22)

SLS-3	
Depth (in)	PCBs (ppm)
0-0.5	91
0.5-1	91
1-2	40
2-3	61
6-7	130
12-13	110
18-19	700
24-25	84
30-31	8.0
36-37	90
42-43	0.83
54-55	1.8[2.8]
66-67	ND(0.38)
78-79	ND(0.31)
90-91	ND(0.11)

SLS-5	
Depth (in)	PCBs (ppm)
0-12	350
12-24	300
24-36	420
36-48	640
48-60	290
60-72	11,000[13,000]
72-80	18,000

HCBE-12	
Depth (ft)	PCBs (ppm)
0-2.0	1300
2.0-4.2	43

SLS-4	
Depth (in)	PCBs (ppm)
0-0.5	100
0.5-1	100
1-2	47
2-3	130
6-7	170
12-13	550
18-19	1,400
24-25	55
30-31	120
36-37	78
42-43	4.8
54-55	2.2
66-67	ND(0.33)
78-79	ND(0.54)
90-91	[ND(0.35)]
102-103	0.69

SLS-1	
Depth (in)	PCBs (ppm)
0-6	18
6-12	100
12-18	680
18-24	520
24-30	24
30-36	30
36-42	18
42-48	12
48-54	47
54-60	3.9
60-66	0.91
66-72	ND(0.21)
102-108	ND(0.29)**

SLS-2	
Depth (in)	PCBs (ppm)
0-6	28
6-12	23
12-18	950
18-24	20
24-30	2.3[3.5]
30-36	43
36-42	45
42-48	31
48-54	1.6
54-60	ND(0.29)
60-66	ND(0.33)
66-72	ND(0.37)

SLS-3	
Depth (in)	PCBs (ppm)
0-6	41
6-12	100
12-18	700
18-24	390[1,200]
24-30	1.1[6.7]
30-36	3.9
36-42	21
42-48	32
48-54	3.2
54-60	5.9[2.5RE]
60-66	2.5
66-72	ND(0.44)

SLS-4	
Depth (in)	PCBs (ppm)
0-6	34
6-12	290[220]
12-18	3,100
18-24	63
24-30	38
30-36	46
36-42	12[7.4]
42-48	3.2
48-54	2.6[2.3]
54-60	1.0
60-66	0.33
66-72	ND(0.27)
90-96	ND(0.32)**

LEGEND:

- STEWART LABORATORIES SAMPLING LOCATION (1982).
- MCP SEDIMENT SAMPLING LOCATION (1991).
- MISCELLANEOUS GRAB SAMPLING LOCATION (1992).
- MCP/RFI NEAR-SHORE SEDIMENT SAMPLING LOCATION (1994).
- MCP/RFI SEDIMENT SAMPLING LOCATIONS FOR PCBs, GEOCHRONOLOGICAL DATING, AND GEOTECHNICAL PARAMETERS (1994).
- MCP/RFI SEDIMENT SAMPLING LOCATION FOR PCBs, OIL & GREASE (1995).
- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- FENCELINE
- 970 ELEVATION CONTOUR

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. ALL SAMPLE LOCATIONS ARE APPROXIMATE. HOWEVER, LOCATIONS SAMPLED IN 1991, 1994 AND 1995 WERE SURVEYED BY BLASLAND, BOUCK & LEE, INC.
3. ALL SEDIMENT DATA ARE PRESENTED IN DRY WEIGHT - PARTS PER MILLION (ppm). DUPLICATE RESULTS ARE SHOWN IN BRACKETS.
4. RE - INDICATES REANALYSIS
5. ** - ARCHIVED SAMPLE ANANLYZED OUTSIDE OUTSIDE OF HOLDING TIME.
5. ND(0.27) - SAMPLE ANALYZED BUT NO PCBs WERE DETECTED, THE VALUE SHOWN IS THE DETECTED LIMIT.

0 300' 600'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF SILVER LAKE SEDIMENT SAMPLING LOCATIONS AND PCB DATA

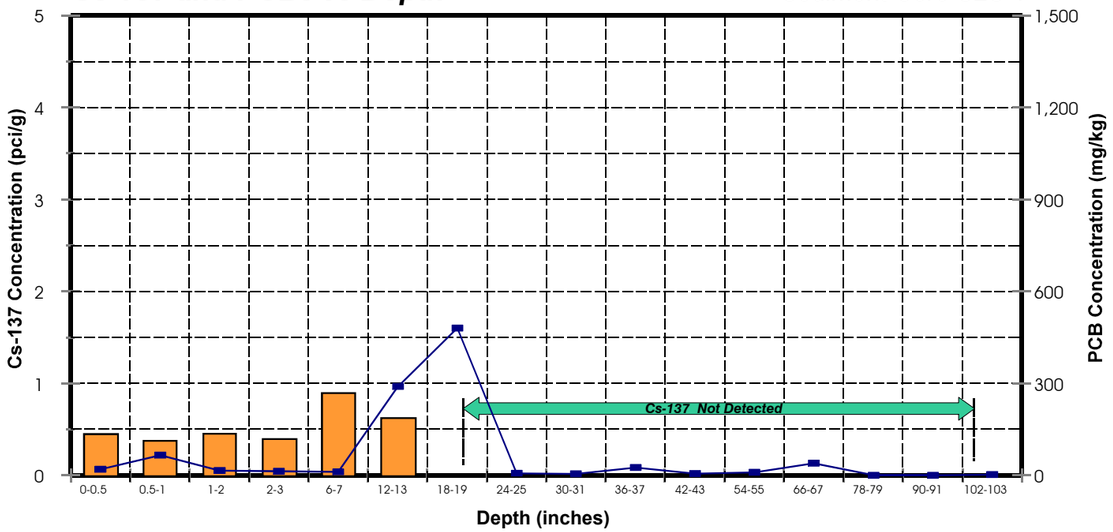
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
2-3

X: 40152X01.DWG
LMAN: JER
P: PAGESET/PLT-DL
4/25/02 SYR-54-JER GMS NES
C/40152001/40152C02.DWG

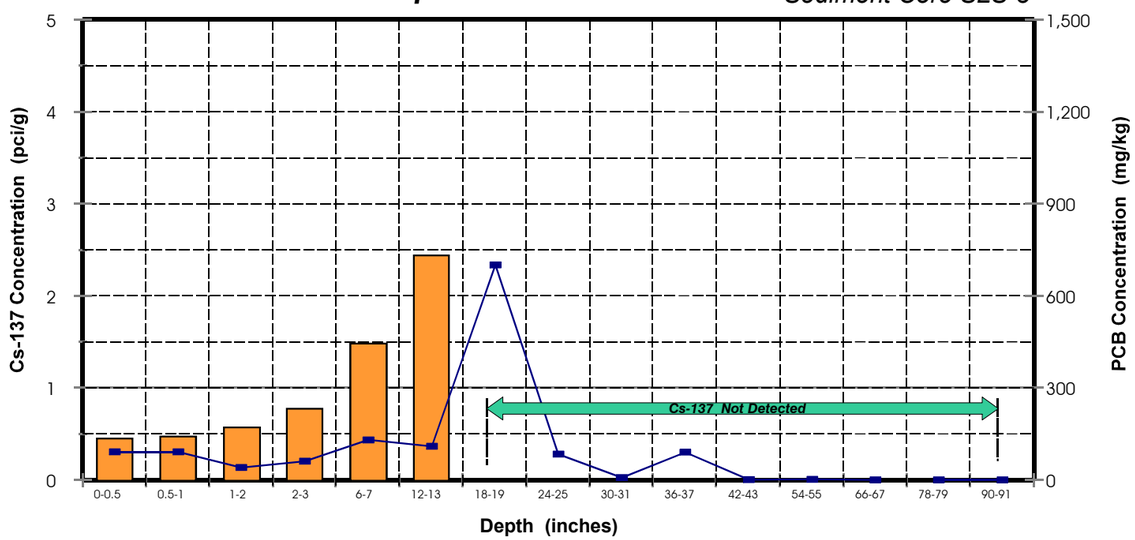
Cs-137 and PCBs vs Depth

Sediment Core SLS-1



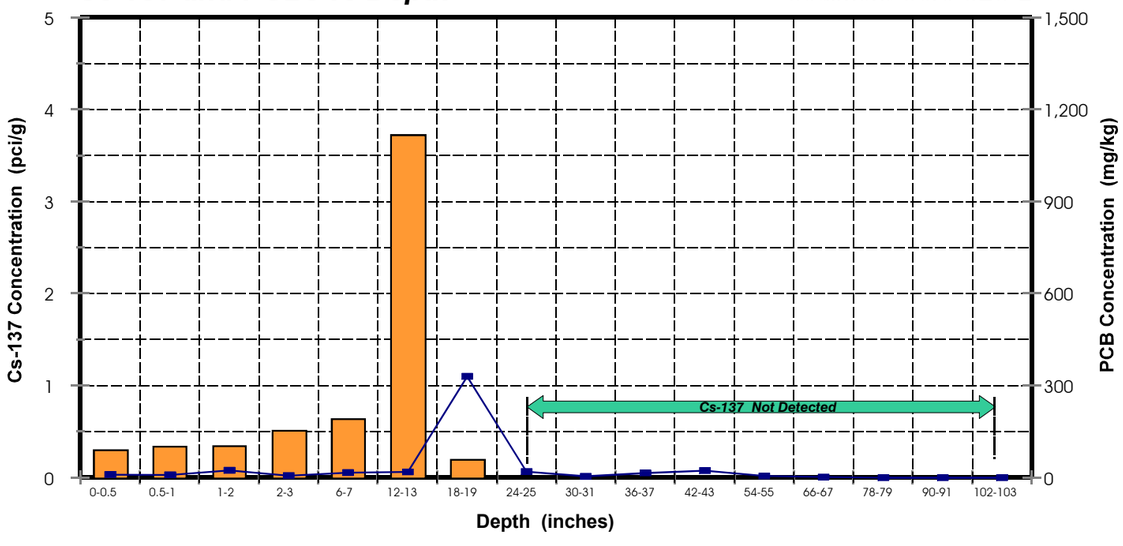
Cs-137 and PCBs vs Depth

Sediment Core SLS-3



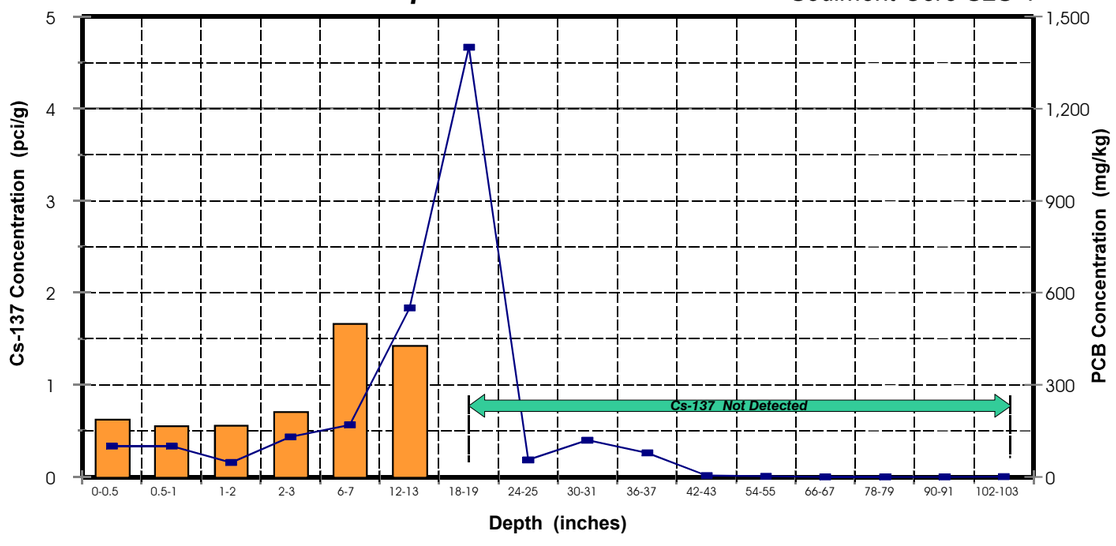
Cs-137 and PCBs vs Depth

Sediment Core SLS-2



Cs-137 and PCBs vs Depth

Sediment Core SLS-4



LEGEND

Cs-137 — PCBs

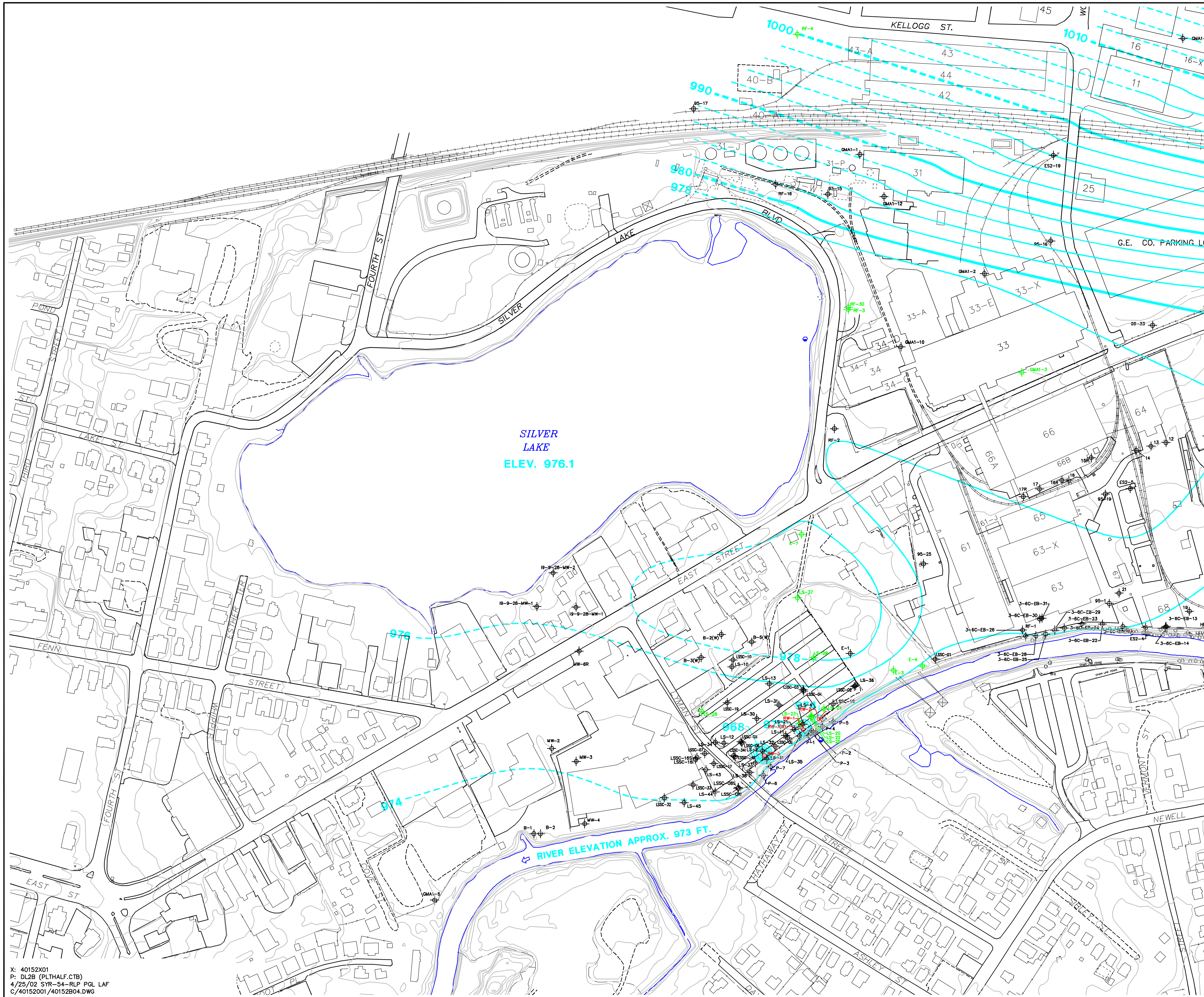
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE PRE-DESIGN INVESTIGATION WORK PLAN

SILVER LAKE SEDIMENT CESIUM-137 VS PCB DATA

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 2-4

03/29/02 SYR-D54-DJH
GE_Silver Lake_Confidential_Reports & Presentations_draft/cdr/40152g02.cdr



LEGEND

GMA1-3 OR ES1-23	MONITORING WELL
RW-1(X)	ACTIVE PUMPING WELL
	SURFACE WATER ELEVATION MONITORING POINT
GMA1-3	PRIOR HYDRAULIC CONDUCTIVITY TESTING LOCATION
974	WATER-TABLE ELEVATION CONTOUR LINE (FEET), 2 FOOT INTERVAL, DASHED WHERE INFERRED
980	WATER-TABLE ELEVATION CONTOUR LINE (FEET), 10 FOOT INTERVAL, DASHED WHERE INFERRED

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. – FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ILLUSTRATED GROUNDWATER CONTOURS REPRESENT WATER TABLE ELEVATIONS WHICH HAVE BEEN CORRECTED FOR OIL PRESENCE, AS APPROPRIATE.
6. SOME GROUNDWATER CONTOURS AROUND RECHARGE POND NOT SHOWN FOR CLARITY.
7. SPRING 1994 WAS SELECTED AS A REPRESENTATIVE PERIOD OF HIGH WATER TABLE CONDITIONS, BASED ON A REVIEW OF HISTORIC GROUNDWATER ELEVATION DATA. FOR WELLS WHICH WERE NOT INSTALLED AND/OR MEASURED IN SPRING 1994, EQUIVALENT GROUNDWATER ELEVATIONS HAVE BEEN CALCULATED, UTILIZING AREA-SPECIFIC AVERAGE CHANGES IN GROUNDWATER ELEVATION BETWEEN SPRING 1994 AND THE ACTUAL DATE OF MEASUREMENT.
8. RIVER ELEVATIONS DURING SPRING 1994 FLUCTUATED BETWEEN APPROXIMATELY 972 AND 977 FEET. AN AVERAGE RIVER ELEVATION OF 973 FEET WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.
9. WELLS 19-9-26-MW-1, 19-9-28-MW-1, AND 19-9-28-MW-2 HAVE BEEN DECOMMISSIONED. WELLS B-2W AND B-3W COULD NOT BE LOCATED DURING RECENT RECONNAISSANCE ACTIVITIES.

0 300' 600'

GRAPHIC SCALE

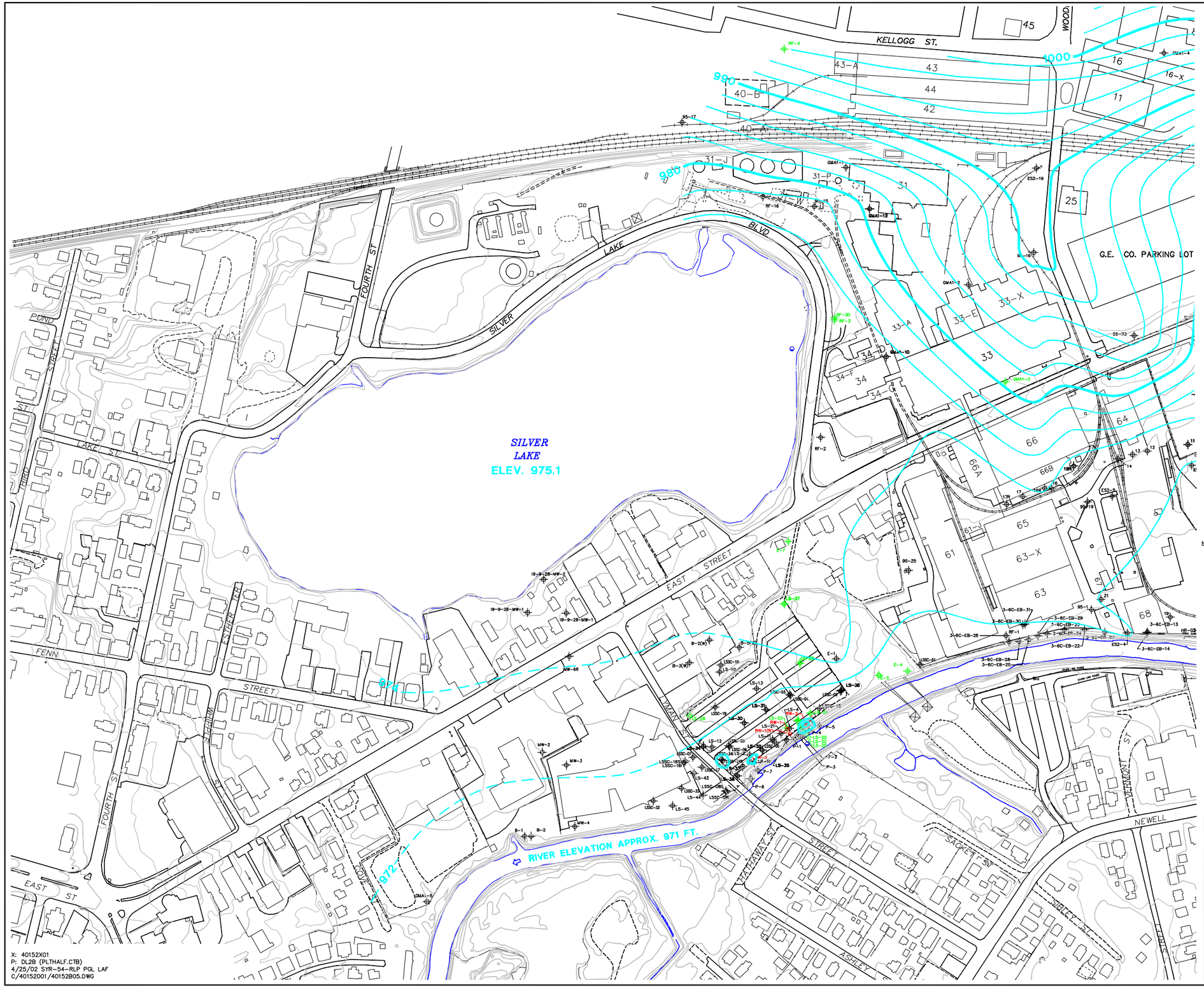
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

GENERALIZED HIGH WATER-TABLE CONTOUR MAP WITH MONITORING WELL LOCATIONS

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

FIGURE **2-5**

X: 40152X01
P: DL2B (PLTHALF.CTB)
4/25/02 SYR-54-RLP PGL LAF
C/40152001/40152B04.DWG



LEGEND

- GMA1-3 OR ES1-23 — MONITORING WELL
- RW-1(X) — ACTIVE PUMPING WELL
- SURFACE WATER ELEVATION MONITORING POINT
- GMA1-3 — PRIOR HYDRAULIC CONDUCTIVITY TESTING LOCATION
- 974 — WATER-TABLE ELEVATION CONTOUR LINE (FEET), 2 FOOT INTERVAL, DASHED WHERE INFERRED
- 980 — WATER-TABLE ELEVATION CONTOUR LINE (FEET), 10 FOOT INTERVAL, DASHED WHERE INFERRED

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. — FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ILLUSTRATED GROUNDWATER CONTOURS REPRESENT WATER TABLE ELEVATIONS WHICH HAVE BEEN CORRECTED FOR OIL PRESENCE, AS APPROPRIATE.
6. SOME GROUNDWATER CONTOURS AROUND RECHARGE POND NOT SHOWN FOR CLARITY.
7. FALL 1998 WAS SELECTED AS A REPRESENTATIVE PERIOD OF LOW WATER TABLE CONDITIONS, BASED ON A REVIEW OF HISTORIC GROUNDWATER ELEVATION DATA. FOR WELLS WHICH WERE NOT INSTALLED AND/OR MEASURED IN FALL 1998, EQUIVALENT GROUNDWATER ELEVATIONS HAVE BEEN CALCULATED, UTILIZING AREA-SPECIFIC AVERAGE CHANGES IN GROUNDWATER ELEVATION BETWEEN FALL 1998 AND THE ACTUAL DATE OF MEASUREMENT.
8. RIVER ELEVATIONS DURING FALL 1998 FLUCTUATED BETWEEN APPROXIMATELY 970 AND 972 FEET. AN AVERAGE RIVER ELEVATION OF 971 FEET WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.
9. WELLS 19-9-26-MW-1, 19-9-28-MW-1, AND 19-9-28-MW-2 HAVE BEEN DECOMMISSIONED. WELLS B-2W AND B-3W COULD NOT BE LOCATED DURING RECENT RECONNAISSANCE ACTIVITIES.

0 300' 600'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

GENERALIZED LOW WATER-TABLE CONTOUR MAP WITH MONITORING WELL LOCATIONS

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

FIGURE 2-6

X: 40152X01
P: DL2B (PLTHALF.CTB)
4/25/02 SYR-54-RLP PGL LAF
C/40152001/40152B05.DWG

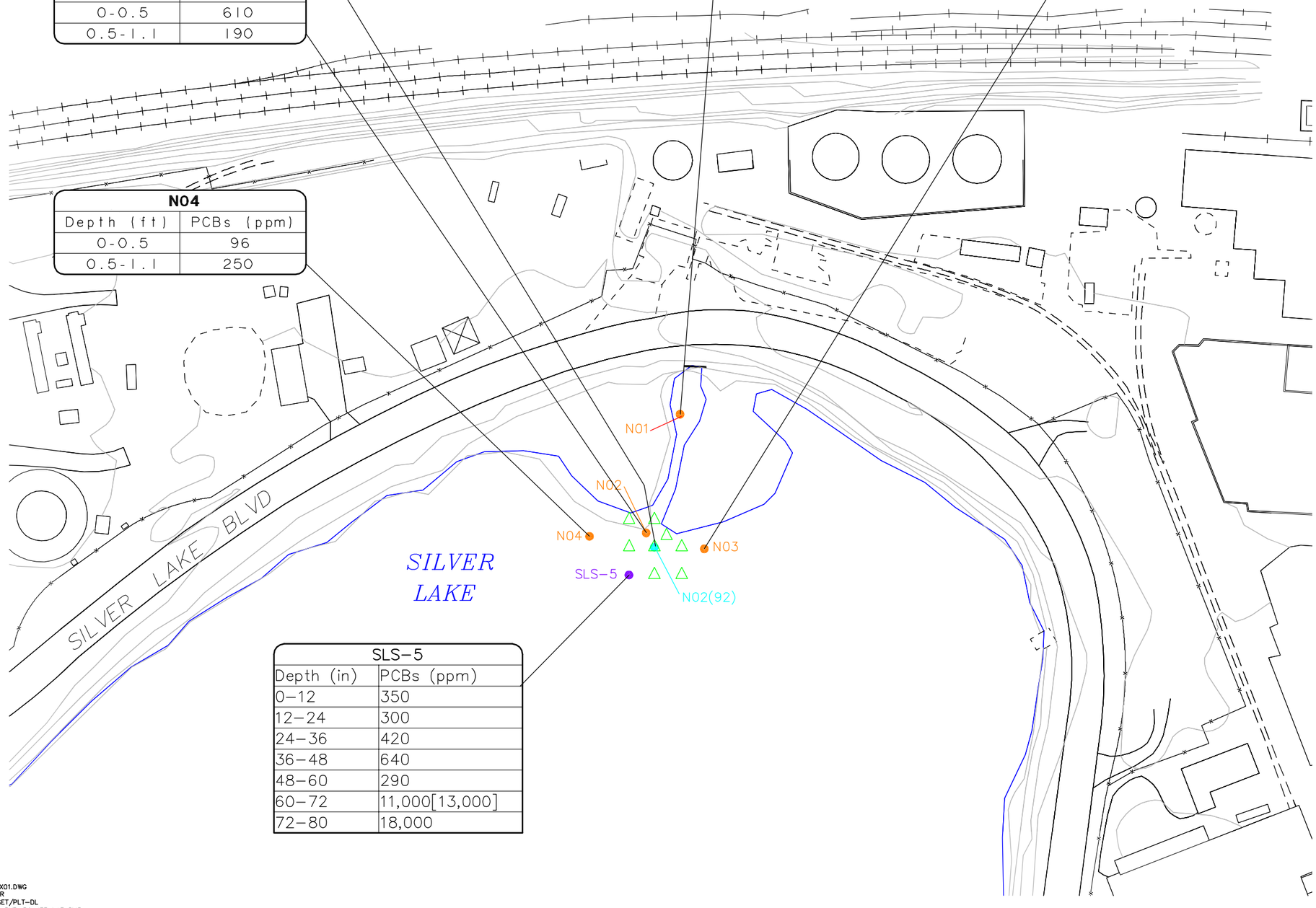
N02(92)	
Depth (ft)	PCBs (ppm)
0-1.0	20,689

N02	
Depth (ft)	PCBs (ppm)
0-0.5	610
0.5-1.1	190

N04	
Depth (ft)	PCBs (ppm)
0-0.5	96
0.5-1.1	250

N01	
Depth (ft)	PCBs (ppm)
0-0.5	5.4
0.5-1.1	19

N03	
Depth (ft)	PCBs (ppm)
0-0.5	64
0.5-1.1	79



SLS-5	
Depth (in)	PCBs (ppm)
0-12	350
12-24	300
24-36	420
36-48	640
48-60	290
60-72	11,000[13,000]
72-80	18,000

LEGEND:

- STEWART LABORATORIES SAMPLING LOCATION (1982).
- MISCELLANEOUS GRAB SAMPLING LOCATION (1992).
- MCP/RFI SEDIMENT SAMPLING LOCATION (1995)
- PROPOSED SEDIMENT SAMPLING LOCATION
- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- FENCELINE
- 970 ELEVATION CONTOUR

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. ALL SAMPLE LOCATIONS ARE APPROXIMATE. HOWEVER, LOCATIONS SAMPLED IN 1991, 1994 AND 1995 WERE SURVEYED BY BLASLAND, BOUCK & LEE, INC.
3. ALL SEDIMENT DATA ARE PRESENTED IN DRY WEIGHT – PARTS PER MILLION (ppm). DUPLICATE RESULTS ARE SHOWN IN BRACKETS.

0 50' 100'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

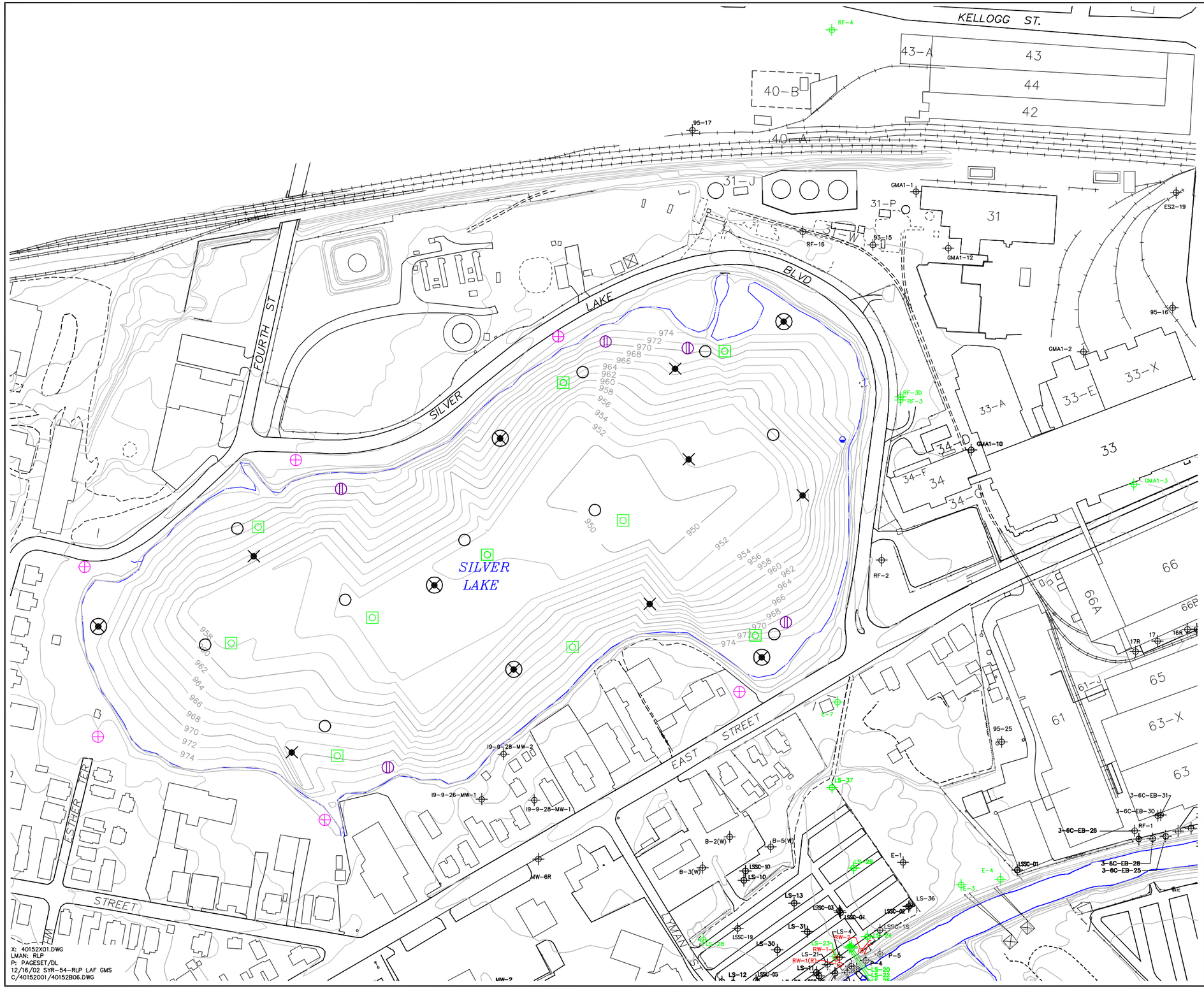
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

PROPOSED SILVER LAKE SEDIMENT SAMPLING LOCATIONS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
4-1

X: 40152X01.DWG
LMAN: JER
P: PAGESET/PLT-DL
12/16/02 SYR-54-JER LAF GMS
C/40152001/40152C03.DWG



X: 40152X01.DWG
LMAN: RLP
P: PAGESET/DL
12/16/02 SYR-54-RLP LAF GMS
C/40152001/40152B06.DWG

LEGEND

- PORE WATER SAMPLE LOCATION
- BENTHIC SAMPLE LOCATION
- BENTHIC SAMPLE LOCATION WITH BE-7 ANALYSIS
- PROPOSED WELL PAIR LOCATIONS
- PROPOSED LAKE PIEZOMETER LOCATIONS
- PROPOSED SEEPAGE METER LOCATIONS
- GMA1-3 OR ES1-23 — MONITORING WELL
- RW-1(X) — ACTIVE PUMPING WELL
- SURFACE WATER ELEVATION MONITORING POINT
- GMA1-3 — PRIOR HYDRAULIC CONDUCTIVITY TESTING LOCATION
- ELEVATION CONTOUR

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. – FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY, AND BLASLAND AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. WELLS 19-9-26-MW-1, 19-9-28-MW-1, AND 19-9-28-MW-2 HAVE BEEN DECOMMISSIONED. WELLS B-2W AND B-3W COULD NOT BE LOCATED DURING RECENT RECONNAISSANCE ACTIVITIES.

0 220' 440'

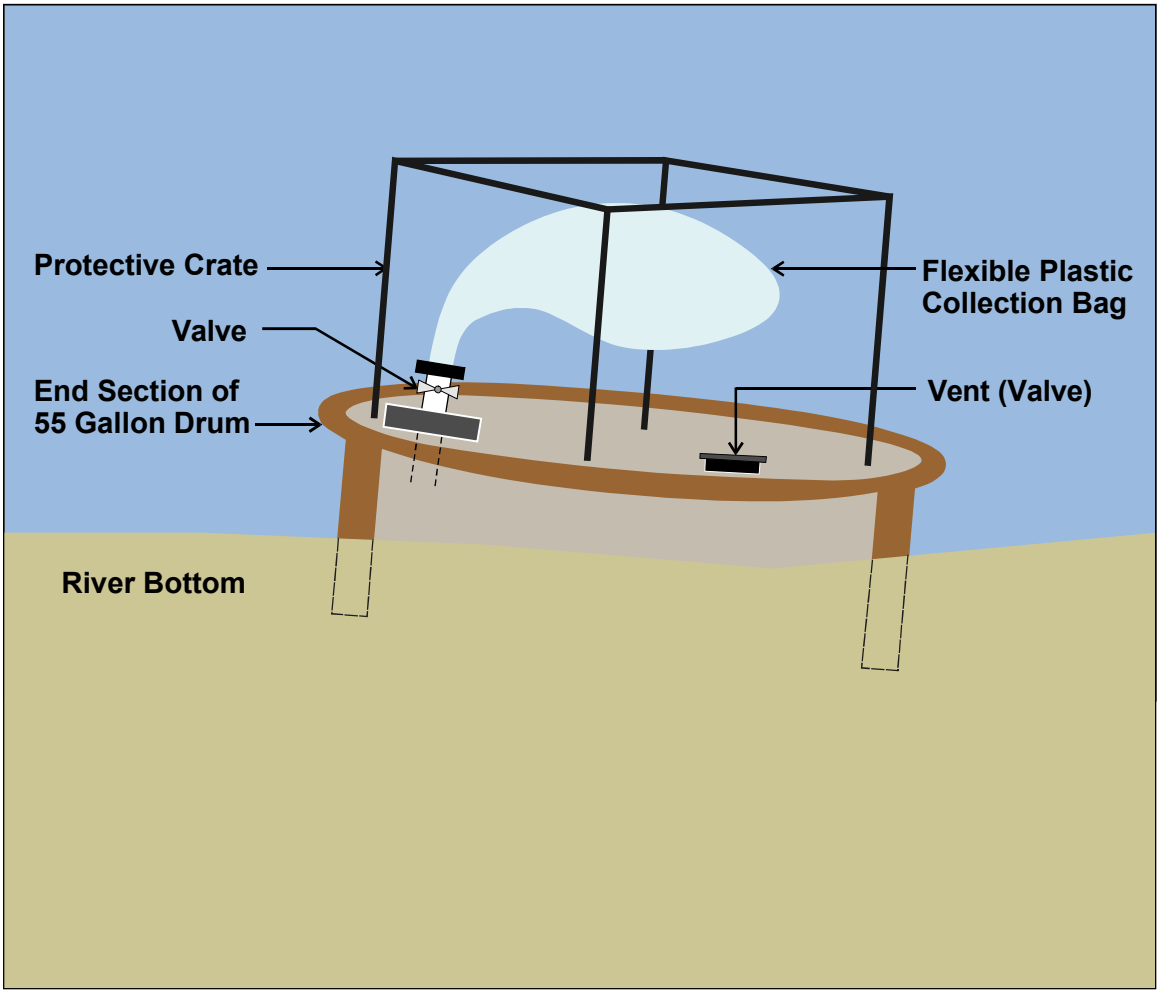
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

ISOLATION LAYER PRE-DESIGN INVESTIGATION SAMPLE LOCATIONS

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

FIGURE 4-2



GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE PRE-DESIGN
INVESTIGATION WORK PLAN

TYPICAL SEEPAGE METER

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

FIGURE
4-3

03/28/02 SYR-D54-DJH
GE_Silver Lake_Confidential_Reports & Presentations_draft/cdr/40152g01.cdr

LEGEND:

- HYDROGRAPHIC TRANSECT
- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- FENCELINE
- 970 ELEVATION CONTOUR

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. BOTTOM ELEVATIONS BASED ON SILVER LAKE SURFACE ELEVATION OF 975.8 FEET, TAKEN ON DECEMBER 24, 1994 BY BLASLAND, BOUCK & LEE, INC.
3. ELEVATION CONTOURING WAS PRODUCED DIGITALLY, BASED ON SAMPLING INFORMATION, BY SOFTDESK CONTOURING SOFTWARE.
4. PERPENDICULAR TIE LINES WILL ALSO BE CONDUCTED AS REQUIRED TO MAINTAIN ACCURACY.

0 200' 400'

GRAPHIC SCALE

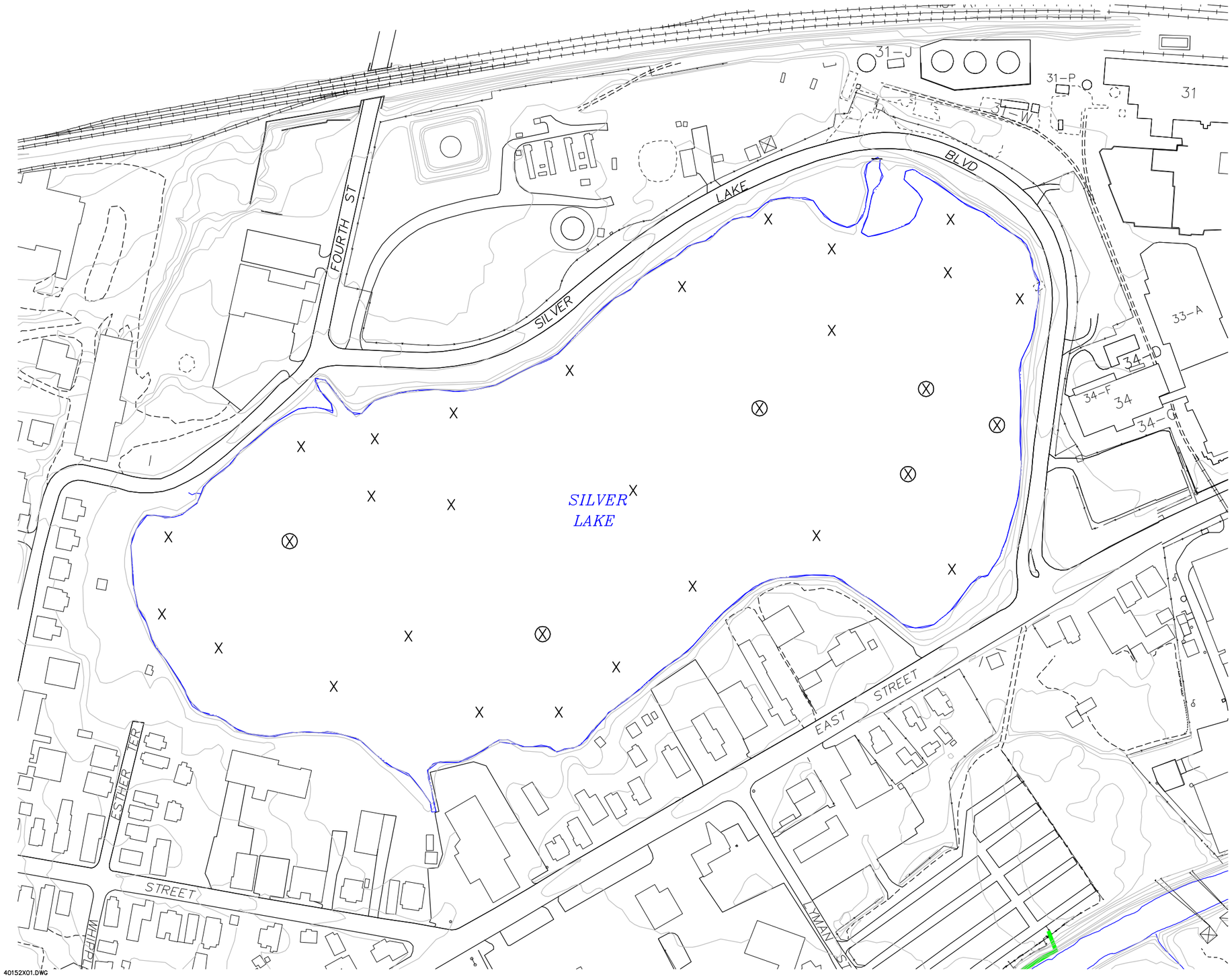
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

SILVER LAKE HYDROGRAPHIC TRANSECTS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
4-4

X: 40152X01.DWG
L: ON=*, OFF=REF, |SYM-SW-GAUGE, |O-WELL-1098, |BOUNDARY, |DIMS, |EXIST-MW, |INDUSTRY-SUPPLY-W, |MW-HYDRAUL, |SYM-MW
P: PAGESET/PLT-BL
1/14/03 SYR-54-JER NES GMS
C/40152001/40152C01.DWG



LEGEND

- X — PROPOSED GEOTECHNICAL SAMPLING LOCATIONS
- ⊗ — PREVIOUS GEOTECHNICAL SAMPLING LOCATIONS
- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- FENCELINE
- 970 — ELEVATION CONTOUR

NOTE:

THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.

0 200' 400'

GRAPHIC SCALE

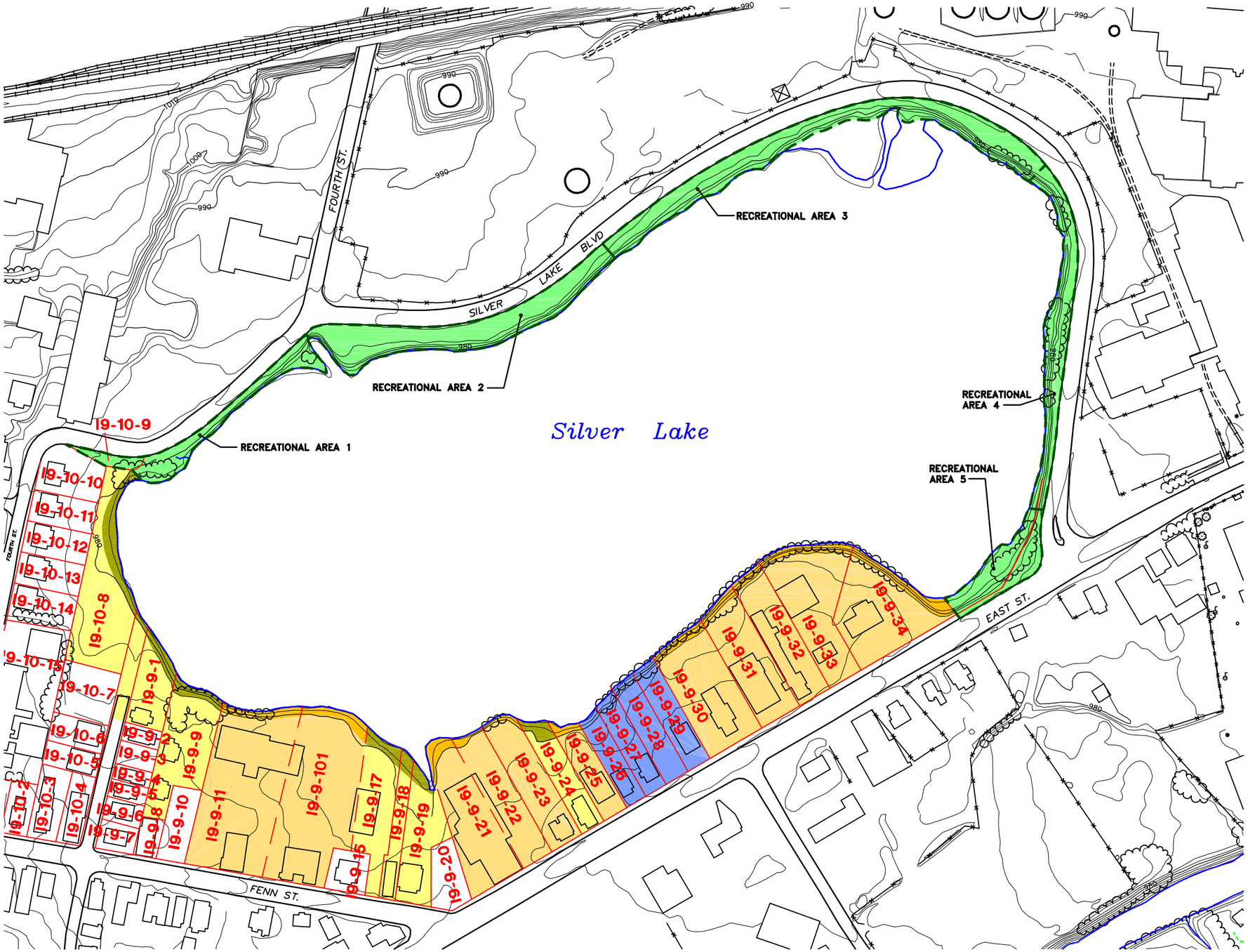
X: 40152X01.DWG
LMAN: KLN
P: PAGESET/PLT-DL
4/25/02 SYR-54-KLN GMS LAF
C/40152001/40152B08.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
SILVER LAKE
PRE-DESIGN INVESTIGATION WORK PLAN

GEOTECHNICAL PRE-DESIGN INVESTIGATION SAMPLING LOCATIONS

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

FIGURE 4-5



LEGEND

- EDGE OF WATER
- RAILROAD
- VEGETATION
- PROPERTY BOUNDARY
- BOUNDARY BETWEEN COMMONLY OWNED PROPERTIES
- 19-9-11 PROPERTY ID
- COMMERCIAL/INDUSTRIAL PROPERTY
- APPROXIMATE AREA OF COMMERCIAL/INDUSTRIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- RESIDENTIAL PROPERTY
- APPROXIMATE AREA OF RESIDENTIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS.
- PROPERTY ADDRESSED AS PART OF ADMINISTRATIVE CONSENT ORDER WITH MDEP
- RECREATIONAL AVERAGING AREAS

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 200' 400'

GRAPHIC SCALE

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
4/26/02 SYR-54-LJP LAF NES
C/40152001/40152P35.DWG

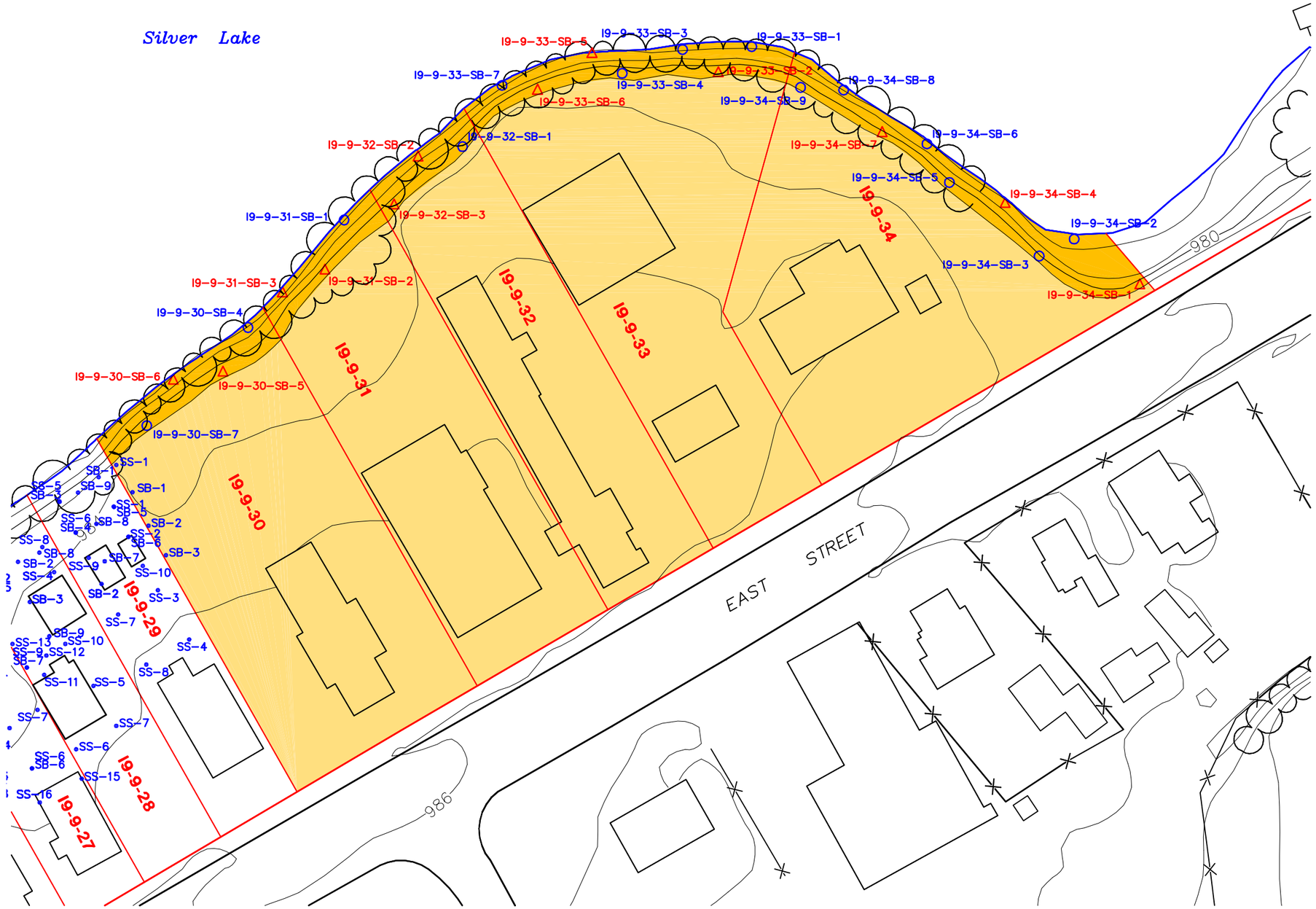
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SILVER LAKE FLOODPLAIN PROPERTIES

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

FIGURE **4-6**



LEGEND

- EDGE OF WATER
- VEGETATION
- PROPERTY BOUNDARY
- I9-9-30 — PROPERTY ID
- COMMERCIAL/INDUSTRIAL PROPERTY
- APPROXIMATE AREA OF COMMERCIAL/INDUSTRIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- ○ PROPOSED PCB SOIL BORING LOCATION
- △ PROPOSED PCB AND APPENDIX IX+3 SOIL BORING LOCATION
- ● EXISTING SOIL SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 60' 120'
GRAPHIC SCALE

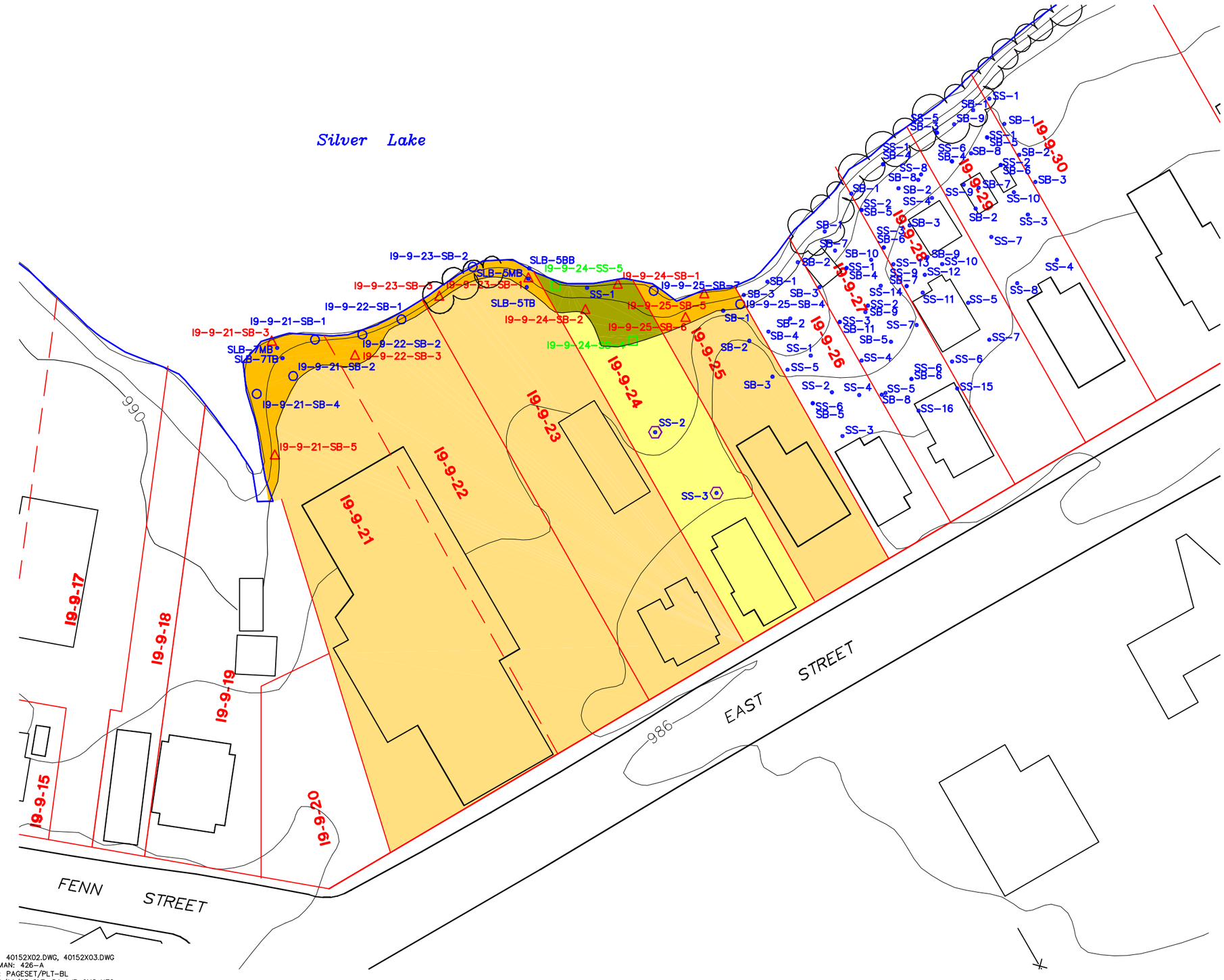
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF PROPOSED AND EXISTING SOIL SAMPLING LOCATIONS

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

FIGURE 4-7

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
01/14/03 SYR-54-LJP GMS NES
C: 40152001/40152P37.DWG



LEGEND

- EDGE OF WATER
- PAVED ROADWAY
- VEGETATION
- PROPERTY BOUNDARY
- BOUNDARY BETWEEN COMMONLY OWNED PROPERTIES
- I9-9-30 PROPERTY ID
- COMMERCIAL/INDUSTRIAL PROPERTY
- APPROXIMATE AREA OF COMMERCIAL/INDUSTRIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- RESIDENTIAL PROPERTY
- APPROXIMATE AREA OF RESIDENTIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- EXISTING SOIL SAMPLE LOCATION
- PROPOSED PCB SURFACE SOIL SAMPLE LOCATION
- PROPOSED PCB SOIL BORING LOCATION
- PROPOSED PCB AND APPENDIX IX+3 SOIL BORING LOCATION
- PROPOSED 1 TO 3 FOOT DEPTH INTERVAL PCB SOIL SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 60' 120'

GRAPHIC SCALE

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
01/14/03 SYR-54-LJP GMS NES
C/40152001/40152P38.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF PROPOSED AND EXISTING BANK SOIL SAMPLING LOCATIONS

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

FIGURE 4-8

Silver Lake

I9-9-11-SB-6
I9-9-11-SB-4
I9-9-11-SB-2
I9-9-101-SB-6
I9-9-101-SB-4
I9-9-11-SB-5
I9-9-11-SB-1
I9-9-101-SB-5
I9-9-11-SB-3
I9-9-101-SB-6
I9-9-101-SB-2
I9-9-17-SS-3
I9-9-101-SB-1
I9-9-17-SS-2
I9-9-17-SB-1
I9-9-17-SB-3
I9-9-18-SS-2
I9-9-17-SB-2
I9-9-18-SB-1
I9-9-17-SS-1
I9-9-18-SB-2
I9-9-18-SB-2
I9-9-18-SS-1
I9-9-18-SS-1
I9-9-18-SB-1
SLB-7MB
SLB-7TB

984

I9-9-9
I9-9-10
I9-9-11
I9-9-11
I9-9-101
I9-9-17
I9-9-18
I9-9-19
I9-9-15
I9-9-20
I9-9-21
I9-9-22
I9-9-23
I9-9-24
I9-9-25
I9-9-26

986

FENN STREET

EAST STREET

0 60' 120'
GRAPHIC SCALE

LEGEND

- EDGE OF WATER
- VEGETATION
- PROPERTY BOUNDARY
- BOUNDARY BETWEEN COMMONLY OWNED PROPERTIES
- I9-9-30 PROPERTY ID
- COMMERCIAL/INDUSTRIAL PROPERTY
- APPROXIMATE AREA OF COMMERCIAL/INDUSTRIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- RESIDENTIAL PROPERTY
- APPROXIMATE AREA OF RESIDENTIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS
- PROPOSED PCB SURFACE SOIL SAMPLE LOCATION
- PROPOSED PCB AND APPENDIX IX+3 SOIL BORING LOCATION
- PROPOSED PCB SOIL BORING LOCATION
- EXISTING SOIL SAMPLE LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
4/26/02 SYR-54-LJP GMS NES
C/40152001/40152P31.DWG

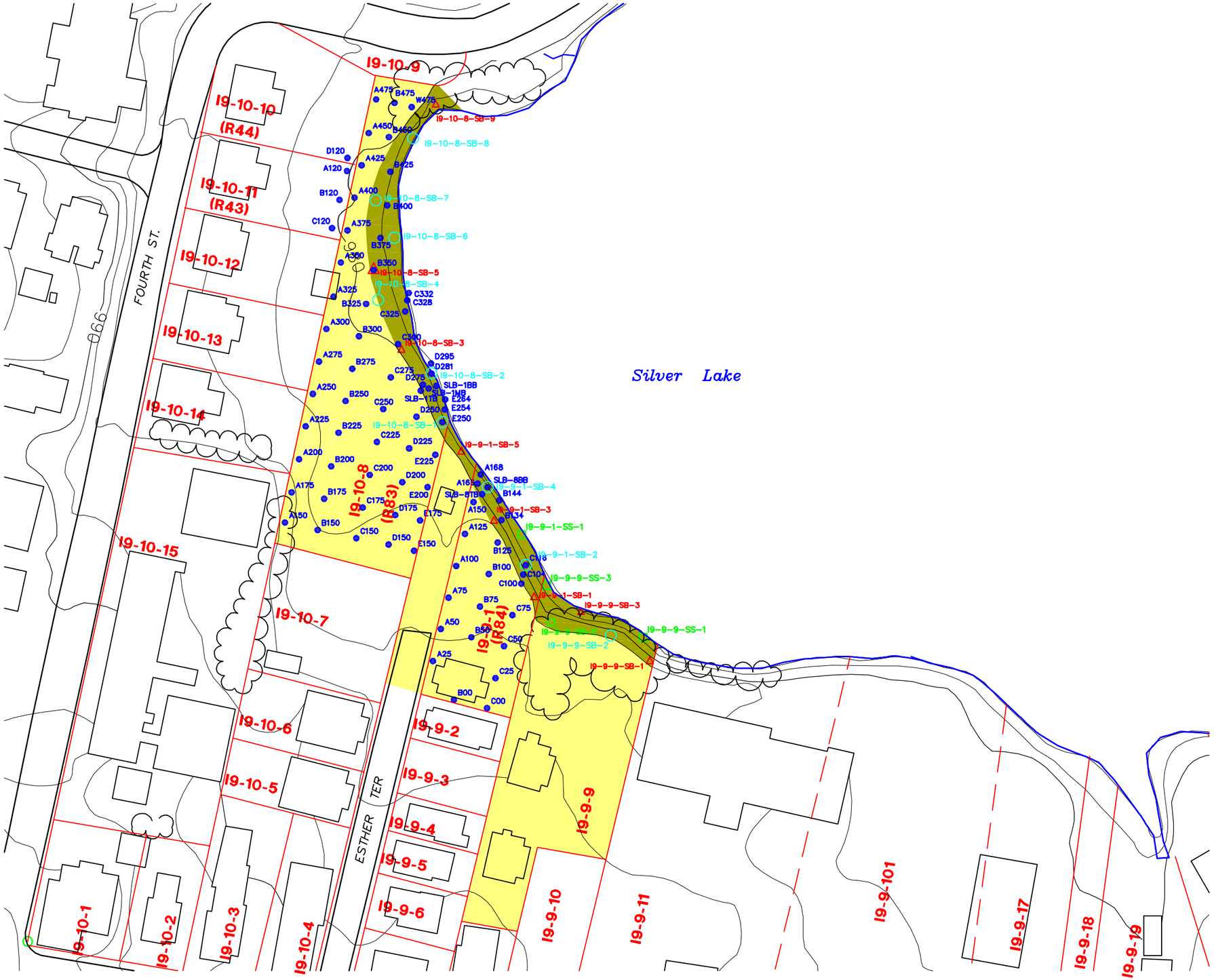
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF PROPOSED AND EXISTING BANK SOIL SAMPLING LOCATIONS

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

FIGURE 4-9



EDGE OF WATER

PAVED ROADWAY

VEGETATION

PROPERTY BOUNDARY

BOUNDARY BETWEEN COMMONLY OWNED PROPERTIES

I9-9-101 PROPERTY ID

(R83) EPA START RESIDENTIAL PROPERTY SAMPLING PROGRAM REFERENCE NUMBER

EXISTING SOIL SAMPLE LOCATION

PROPOSED PCB SURFACE SOIL SAMPLE LOCATION

PROPOSED PCB AND APPENDIX IX+3 SOIL SAMPLE LOCATION

PROPOSED PCB SOIL BORING LOCATION

RESIDENTIAL PROPERTY

APPROXIMATE AREA OF RESIDENTIAL BANK SOILS SUBJECT TO PRE-DESIGN INVESTIGATIONS

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 80' 160'

GRAPHIC SCALE

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
01/02/03 SYR-54-LJP GMS NES
C/40152001/40152P33.DWG

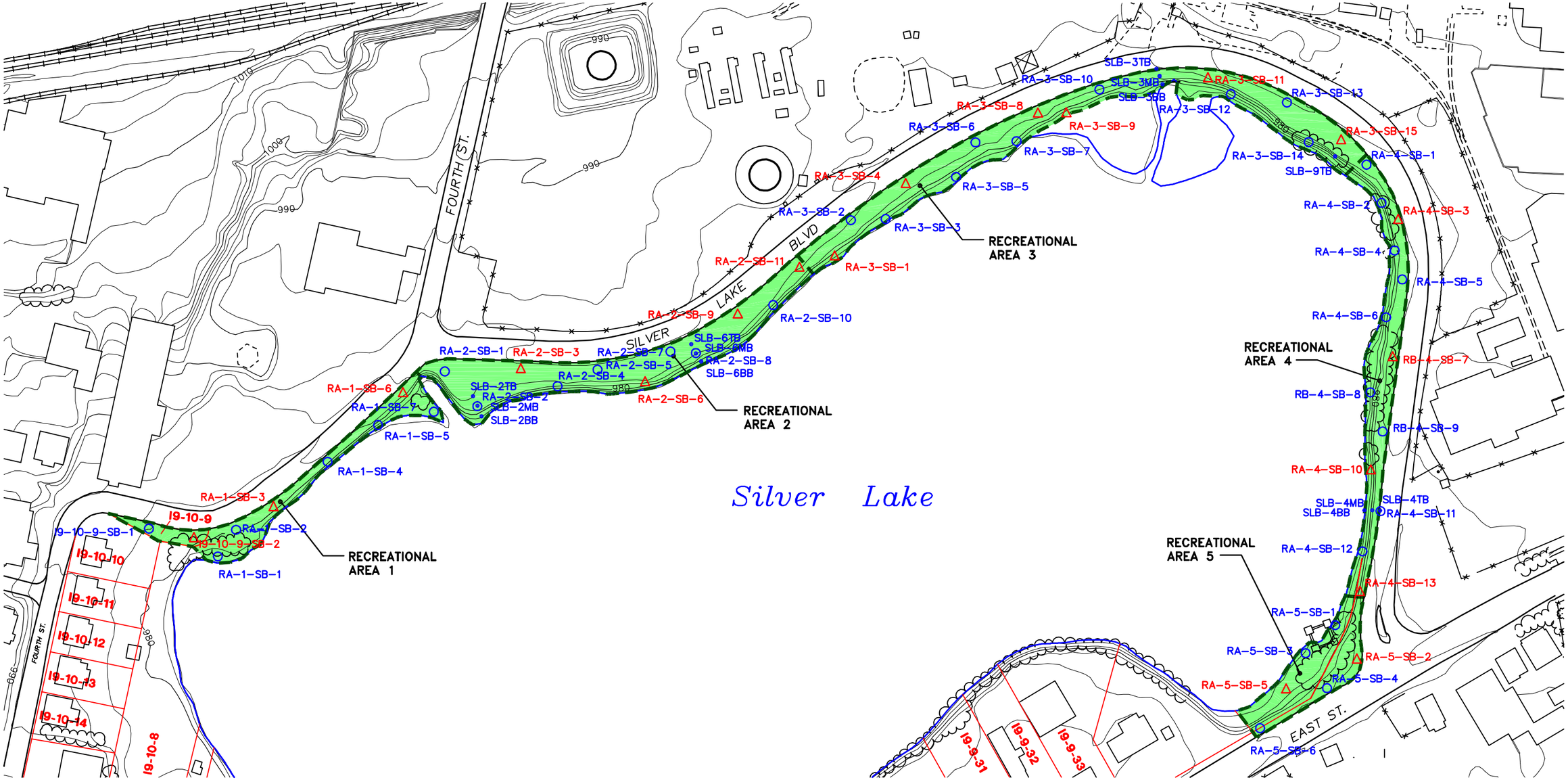
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF PROPOSED AND EXISTING BANK SOIL SAMPLING LOCATIONS

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

FIGURE 4-10



Silver Lake

LEGEND

- EDGE OF WATER
- PAVED ROADWAY
- RAILROAD
- VEGETATION
- TAX PARCEL BOUNDARY
- I9-9-30 TAX PARCEL ID
- RECREATIONAL AVERAGING AREA SUBJECT TO PRE-DESIGN INVESTIGATIONS
- ● EXISTING SOIL SAMPLE LOCATION
- ○ PROPOSED PCB SOIL BORING LOCATION
- △ PROPOSED PCB AND APPENDIX IX+3 SOIL BORING LOCATION

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSORS' PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.

0 150' 300'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
PRE-DESIGN INVESTIGATION WORK PLAN FOR THE SILVER LAKE AREA

SUMMARY OF PROPOSED AND EXISTING BANK SOIL SAMPLING LOCATIONS

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

FIGURE 4-11

X: 40152X02.DWG, 40152X03.DWG
LMAN: 426-A
P: PAGESET/PLT-BL
4/26/02 SYR-54-LJP GMS NES
C/40152001/40152P34.DWG

Attachments

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

Attachment A

Standard Operating Procedure for Pore Water Sample Collection

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

Attachment A
Standard Operating Procedure for Pore Water Sample Collection

Sampling Approach

Three cores will be collected from each pre-selected location using the same methods consistent with the FSP/QAPP. (As noted below in discussion of sample processing, two cores are required to produce adequate sample volume, the third provides a backup, and material for the sequential batch test.) Locations will be recorded at time of sampling by GPS. A sediment-coring device made up of a 7.6 centimeter (cm) (3-inch) outer diameter Lexan coring tube will be used with a PVC driver system to collect sediments. The corer will be driven a minimum of 24-inches into the sediment bed. The distance of core penetration will be recorded. After driving the coring tube to the required depth, the core will be slowly extracted from the lake bottom, keeping the core perpendicular. A rubber stopper or other similar device may be utilized to develop a slight vacuum with the corer to help maintain maximum core integrity. A plastic end cap will be used to seal the bottom of the core tube to enclose the sediment as soon as possible after the core is extracted from the water. A plastic cap will be used to seal the top of the core and labeled with the site location ID and the word "top." An observational description of each core will be logged and the core photographed. A minimum of three cores will be collected at each sampling site to satisfy the necessary sample volume for pore water collection (discussion below). Cores will be maintained vertically during all handling, transport and storage steps to minimize disruption.

Sample Processing

Prior to their processing, cores will be stored at the approximate temperature of the lake during the core collection. The actual storage temperature will be recorded. Cores will be processed as soon as possible, but no later than one working day after sample collection.

It is estimated two cores (after removal of aliquots for bulk sediment analyses) will provide 235 - 470 milliliter (ml) of pore water when pore water constitutes 50% of the bulk sediment, and when 25 - 50% of the available pore water can be collected from the centrifugation and filtration processing (see filtration description below). These volumes necessitate the centrifugation of eight bottles of sediment to obtain these pore water quantities. A minimum of 140 ml of pore water will be necessary to allocate 40 ml for DOC analysis and 100 ml for dissolved PCB analysis. Any additional sample volume will be used in the PCB analysis to achieve lower detection limits. If the sediments from some locations with high amounts of fine particles are expected to result in the collection of less than 140 ml of pore water (as shown from the processing results from the other cores in locations with similar sediment types), three cores will be processed instead of two.

At the on-site laboratory, the cores will be drained of the overlying surface water though a hole drilled/cut in the core tube, and extruded using a piston-driven core extruder. Due to the fine particle size associated with Silver Lake sediment, the special modified procedures incorporated for the Housatonic River sediments (i.e., inversion during the extrusion core) should not be required.

After removal of the overlying water, each core will be measured from the top of the sediment surface to 0.5 cm (2-inches) and cut using a pre-cleaned hacksaw. Due to concerns regarding mixing with the overlying water and other boundary conditions at the sediment/water interface, the top 5 cm of the sediment will be extruded and not used to determine pore water DOC and PCB concentrations. This upper 5 cm will, however, be used to provide a corresponding measurement of surface-layer PCB concentrations for the underlying sediment that will be centrifuged. The top 5 cm of sediment from each core will be extruded into a pre-cleaned stainless steel bowl,

mixed using stainless steel utensils and placed in two 4-ounce sample jars pending shipping or on-site analysis of PCBs and total organic carbon.

The 5-cm to 30-cm sediment interval will next be extruded into a clean stainless steel mixing bowl and homogenized using stainless steel utensils (see Section 4.3 of EPA, 2001). Assuming that sediments from two of the three 3-inch Lexan tubes are used for sediment collection at each location, the 25-cm long segments used will have an approximate total volume of 2,250 ml. Previous sampling of Silver Lake sediments indicated an average bulk density of 71 pounds per cubic foot and an average specific gravity of 2.4. Assuming no significant change in density as a result of compaction during sample collection and handling, the sample would contain approximately 600 grams of solids and 1,750 grams of water (although only half of this is expected to be available for extraction). After homogenization, sample aliquots for analysis of sediment PCB and TOC concentrations will be prepared (two 4-ounce glass sample jars).

The homogenized bulk sediment will be centrifuged in 285-ml stainless steel centrifuge bottles, four equal mass aliquots (approximately 250 grams each +/- 1 gram) will be placed into stainless steel centrifuge bottles. An IEC Centra 8R centrifuge, supplied by QEA, with a #216 swinging bucket rotor and 378S cups shall be utilized for the centrifugation. The sealed bottles will be placed in the centrifuge and centrifuged at 2,500 revolutions per minute (rpm) for 20 minutes at the temperature of the core when collected. This speed is 90% of the maximum speed recommended by the manufacturer for the selected equipment.

The resulting supernatant will be transferred from the centrifuge tubes using disposable pipettes or glass syringes into a 750 ml stainless steel pressure filtration apparatus. The supernatant will then be pressure filtered through a pre-cleaned steel 120-millimeter diameter 0.7 micrometer glass fiber filter (Whatman GF/F), using high-purity nitrogen gas pressurized up to 15 pounds per square inch guage (psig). The glass-fiber filter will be pre-cleaned by the NEA Laboratory by heating to a minimum of 450 degrees Celsius for one hour in a PCB free environment (supplied and stored in petri dishes). The laboratory will run at least one filter blank per batch of filters cleaned to confirm the lack of PCBs.

The first 10 to 15 ml of filtrate passing thru the filter will be discarded to allow the filter media to establish equilibrium with the sample. The remaining pore water filtrate from each sample location will be collected into a single 500-ml glass sample bottle. A pre-labeled 40-ml glass sample vial will be filled from the pore water sample bottle for DOC analysis (no further filtration by the laboratory). The remaining pore water (estimated 100 to 430 ml) will be submitted for analysis of the dissolved PCBs (no further filtration by the laboratory). The temperature and approximate volume of sample collected will be recorded. Samples for DOC and PCBs will be stored at 4 degrees Celsius until analysis. Analysis will be conducted within 48 hours of extraction.

Poor centrifugal separation of samples with high levels of fine particles, such as Silver Lake, may require multiple filters. Up to three filters may be used to complete the filtration of each pore water sample. The use of nitrogen at a pressure of up to 15 psig in concert with the large diameter of the filters is expected to complete the filtration with one filter. The actual number of filters used for each sample will be recorded. Decontamination of the filtration until between the replacement of clogged filters for each sample will not be necessary as the DOC and dissolved PCBs will have equilibrated with the surfaces of the housing. Each filter will have the first 10 to 15 ml of filtrate discarded. The filtration unit will be decontaminated with an alconox-water solution followed by the four-step rinsing procedure of acetone, hexane, acetone and de-ionized water between each sample location. Between each sample, the centrifuge bottles will be emptied of the compacted sediments, brush-cleaned with an alconox-water solution, and then rinsed in sequence with tap water, hexane, isopropyl alcohol, and de-ionized water.

Attachment B

Standard Operating Procedure for Sequential Batch Leach Tests

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Attachment B
Standard Operating Procedure for Sequential Batch Leach Tests

The sequential batch leach test will be performed on residual sediments remaining in the centrifuge tubes after centrifugation during the pore water analysis procedures. The four samples to be used are those obtained from areas of the lake where water groundwater discharge to the lake is suspected.

After the supernatant has been removed for further processing in the pore water analysis, distilled/deionized (DDI), water will be added to each of the centrifuge tubes to bring the final water-to-solids ratio to approximately 4:1 (by mass). Depending on the mass and bulk density of sediment initially placed in each tube, the extraction of material, re-mixing and re-addition of the sediments into the centrifuge may be required. Assuming that centrifugation results in a 50% solids content, addition of 100 grams of the sediment mixture with an additional 150 milliliters (ml) of DDI water would achieve the desired 4:1 ratio in each centrifuge tube.

After addition of the DDI water, the centrifuge tubes should be weighted to ensure that opposing pairs of tubes in the centrifuge are within a few grams. The centrifuge tubes are then capped and sealed, and placed in a tumbler or similar device to provide for thorough agitation. After 24 hours of tumbling, the centrifuge tubes are removed and placed in the centrifuge at 2,500 rpm for 20 minutes.

Filtration procedures are similar to those used for the pore water analysis. As with the pore water samples, the resulting supernatant will be transferred from the centrifuge tubes using disposable pipettes or glass syringes into a 750 ml stainless steel pressure filtration apparatus. The supernatant will then be pressure filtered through a pre-cleaned stainless steel 120-millimeter diameter 0.7 micrometer glass fiber filter using high-purity nitrogen gas pressurized up to 15 pounds per square inch guage.

The first 10 to 15 ml of filtrate passing thru the each new filter will be discarded to allow the filter media to establish equilibrium with the sample. If poor centrifugal separation of samples with high levels of fine particles requires multiple filters, decontamination of the filtration unit between the replacement of clogged filters for each sample will not be necessary as the DOC and dissolved PCBs will have equilibrated with the surfaces of the housing. The remaining pore water filtrate from each sample location will be collected into a single 500-ml glass sample bottle. A pre-labeled 40-ml glass sample vial will be filled from the pore water sample bottle for DOC analysis (no further filtration by the laboratory). The remaining pore water will be submitted for analysis of the dissolved PCBs (no further filtration by the laboratory). The temperature and approximate volume of sample collected will be recorded. Samples for DOC and PCBs will be stored at 4 degrees Celsius until analysis.

The procedure, starting with addition of DDI water to produce a 4:1 water to solids ratio, is then repeated three more times.

Attachment C

Standard Operating Procedure for Seepage Meters

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Attachment C
Standard Operating Procedure for Seepage Meters

Introduction

A seepage meter is used to collect groundwater that is flowing through the sediments and into a water body. The seepage meter is placed into the sediments for a known period of time; the volume of water collected in an expandable bag attached to the meter is proportional to the surface area covered by the meter and the groundwater discharge rate. The times of instrument installation and sample collection are recorded, as is the volume of water collected in the expandable bag. A volumetric flow rate can then be determined from these measurements. A seepage velocity is then determined based on the cross-sectional area of the meter exposed to the sediment bed.

Materials

The following materials will be available, as required, during seepage meter installation and water collection:

Personal protective equipment (as required by the Health and Safety Plan);
Boat and/or waders;
Diving equipment, as necessary;
Buoy marker, rope, anchor (cinder block);
Seepage meter, protective crate, elastic cord;
Water collection bags (polyethylene);
Flexible tubing and clamps;
Measuring tape;
Graduated cylinder;
Funnel and tubing;
Field notebook and camera;
Waterproof watch;
Waterproof marker;
Water.

Seepage Meter Construction

The most commonly used seepage meter is referred to as a Lee Meter. The seepage meter, as designed by Lee (1977), consists of a cut 55-gallon drum with two fittings cut into the bottom of the drum. The surface area of a 55-gallon drum is approximately 406 square inches (2.82 square feet). The drum is typically cut to be no more than 12 inches in height. Two small (0.5- to 1-inch) holes are cut into the drum bottom and leak-proof fittings affixed in these small holes. On one hole, a pressure relief valve is installed. On the other hole, a flared fitting and a valve are affixed so that flow through the fitting can be turned on and off, and an elastic bag can be attached to allow measurement of changes in water volume. The polyethylene accumulation bag will also be fitted with a valve, as well as a quick-release fitting to attach it to the flared fitting. The partial drum/seepage meter is inverted and pushed into the lake bottom sediments and net change in water volume is monitored through time. A typical Lee seepage meter design is shown on Figure 4-3.

Field Procedures

The following are the general steps for seepage meter installation (it should be noted that some of the specific procedures related to the coupling and uncoupling of the collection bag are subject to modification based upon the fitting or clamps used in the final construction of the meter assembly):

1. If a boat is needed, position it in the desired location.

2. Lower the seepage meter into the water and invert the meter below the water to eliminate possible air entrapment. In water greater than approximately 4 to 5 feet deep, a diver may be required. Lower the meter to the bottom of the water body.

3. Push the meter (with tubing and bag **not** attached) approximately 6 (six) inches into undisturbed sediment. Tilt the seepage meter slightly, so that the connection between the meter and collection bag will be higher than the rest of the seepage meter (this will minimize possible air bubbles which might dislodge the meter). Mark the seepage meter location with a labeled bouy, anchored adjacent to the meter. Record the depth of the water and the general nature of the sediments at the seepage meter location.

4. Once the meter is in place for at least 48 hours (preferably 72 hours), allowing pore pressures to equalize and air to vent, the collection bag will be attached. Above the surface purge the water collection bag of all air and water. Place a known volume of water (e.g., 200 milliliters) in the collection bag. A funnel with tubing to fit the inlet valve can be used. Close the inlet valve to the bag. Remove the funnel tubing from the valve and replace with tubing for connection to the meter. The tubing is clamped prior to attachment to the meter. Record the volume of water added. Attach the collection bag to the fitting on the meter. Unclamp the flexible tubing so that water from the seepage meter may enter the collection bag. Record the sampling initiation time.

5. Attach the protective crate over the meter and bag assembly.

6. Return approximately one week later for collection.

For water collection the steps are as follows:

7. If a boat is needed, position it in the desired location. Enter water and locate the meter.

8. Observe the general area for notable conditions (e.g., turbidity, movement or tilting of the meter, groundwater leakage around the meter).

9. Remove protective crate.

10. Check the water collection bag for obvious changes in water volume. If the collection bag requires changing (e.g., if it is between 25 and 75 percent of its capacity), clamp the flexible tubing and remove the collection bag. If several weeks of monitoring result in continued low groundwater flux rates (i.e., collection bag is less than 25 percent of its capacity), the monitoring need not be continued.

11. If desired, install new collection bag following procedures given above and replace the protective crate.

12. Return to the surface with collection bag.

13. Record the volume of water collected, as well as collection time. If upon collection the collection bag is less than 25 or more the 75 percent of its capacity, then the measurement shall be repeated for a longer/shorter duration, or with a smaller/larger collection bag, as appropriate.

14. Compute the volumetric flow rate from the change in the volume of water in the collection bag divide by the time of collection. To determine seepage velocity divide volumetric flow rate by the cross-sectional area of the meter (324 cm^2)